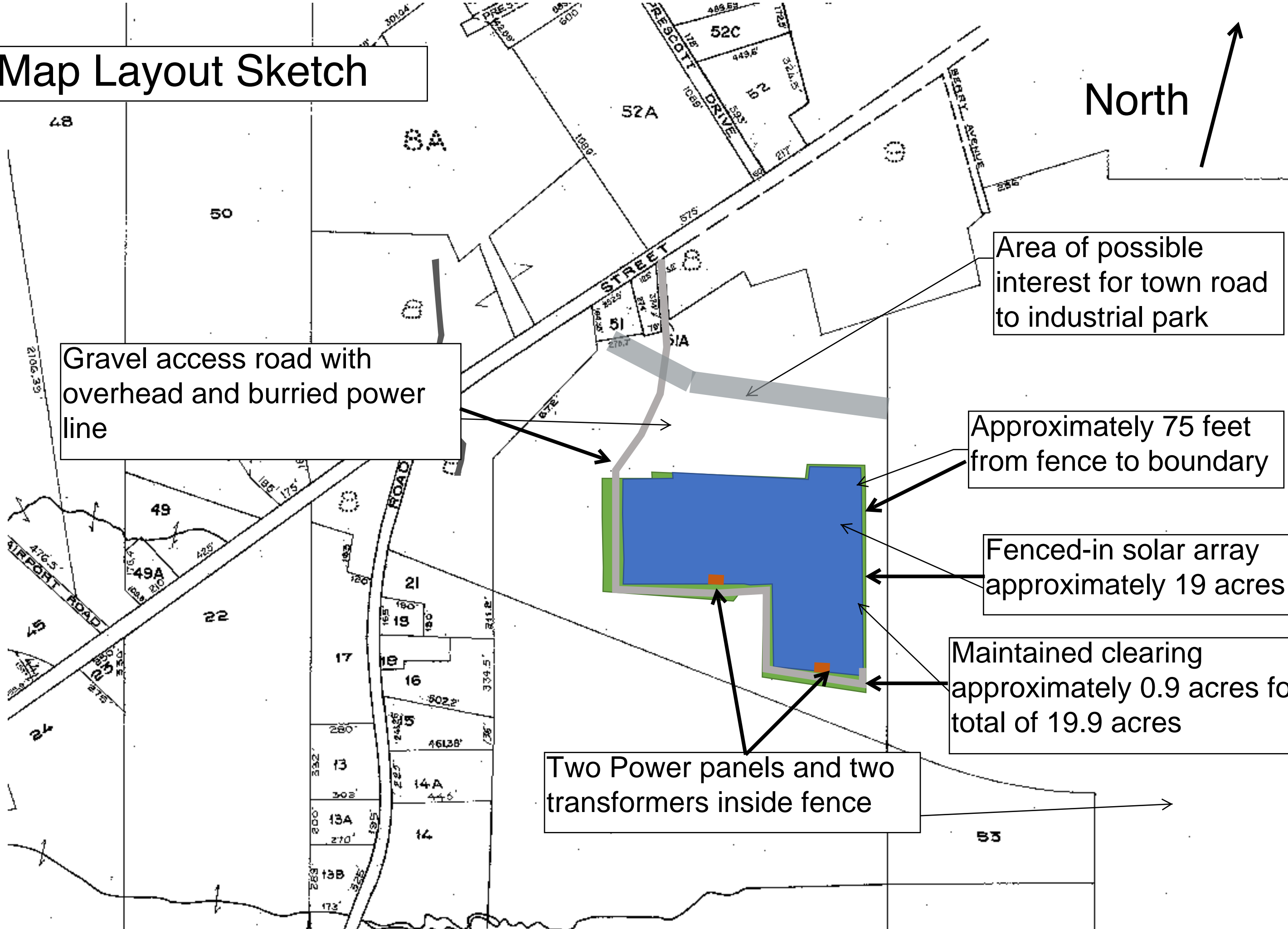
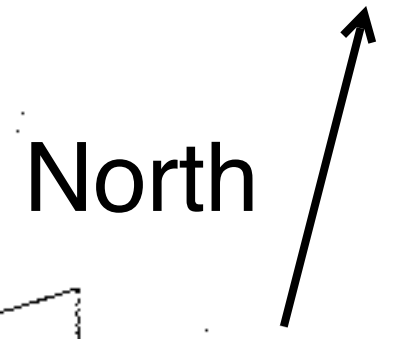


Tax Map Layout Sketch



Gravel access road with overhead and buried power line

Area of possible interest for town road to industrial park

Approximately 75 feet from fence to boundary

Fenced-in solar array approximately 19 acres

Maintained clearing approximately 0.9 acres for a total of 19.9 acres

Two Power panels and two transformers inside fence



135 River Road • Woolwich, ME 04579
207-837-2199 • tim@atlanticenviromaine.com
www.atlanticenviromaine.com

June 15, 2020

Mr. Michael Parker
Loki Solar
42 Woods Circle Road
Yarmouth, ME 04096

Re: Natural Resources Analysis for Dublin Street in Machias, Maine.

Dear Mr. Parker,

Atlantic Environmental, LLC (AE) is pleased to submit a natural resource analysis for a proposed solar facility located on Dublin Street and identified on the Town of Machias Tax Map #5 as Lot #51B. AE delineated the approximately sixty-two (62) acre parcel of land and identified natural resources, including wetlands and other potential development constraints for the proposed area of development. The wetland delineation was conducted on May 12, 2020 in accordance with the U.S. Army Corps of Engineers, Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regions (Version 2.0). All wetlands were flagged with pink, numbered flagging and located with a Global Positioning System (GPS) Trimble® GEO 7X unit by staff. AE provided GPS data to Loki Solar. The natural resources analysis included a desktop analysis of available data to include National Wetland Inventory (NWI) maps and the Maine Office of Geographic Information Systems (MEGIS) database of mapped resources.

SITE DESCRIPTION

The parcel is located off Dublin Street in the Town of Machias and totals approximately sixty-two (62) acres. The site consists of undeveloped forested upland and wetland areas, an unnamed stream, and the majority of the site was recently mechanically harvested for lumber. The topography of the site is generally flat within the entire area; however, there are small topographic changes along the northern and eastern sections.

The NWI has mapped wetland areas as shown on Figure One; however, the map does not include the small isolated wetlands as further described in this report. According to the U.S. Department of Agriculture (USDA), *Soil Survey of Washington County Area, Maine*, there are several soil types mapped within the project area. The soil types contain both poorly drained and well drained soils and their hydric status is outlined in Table One.

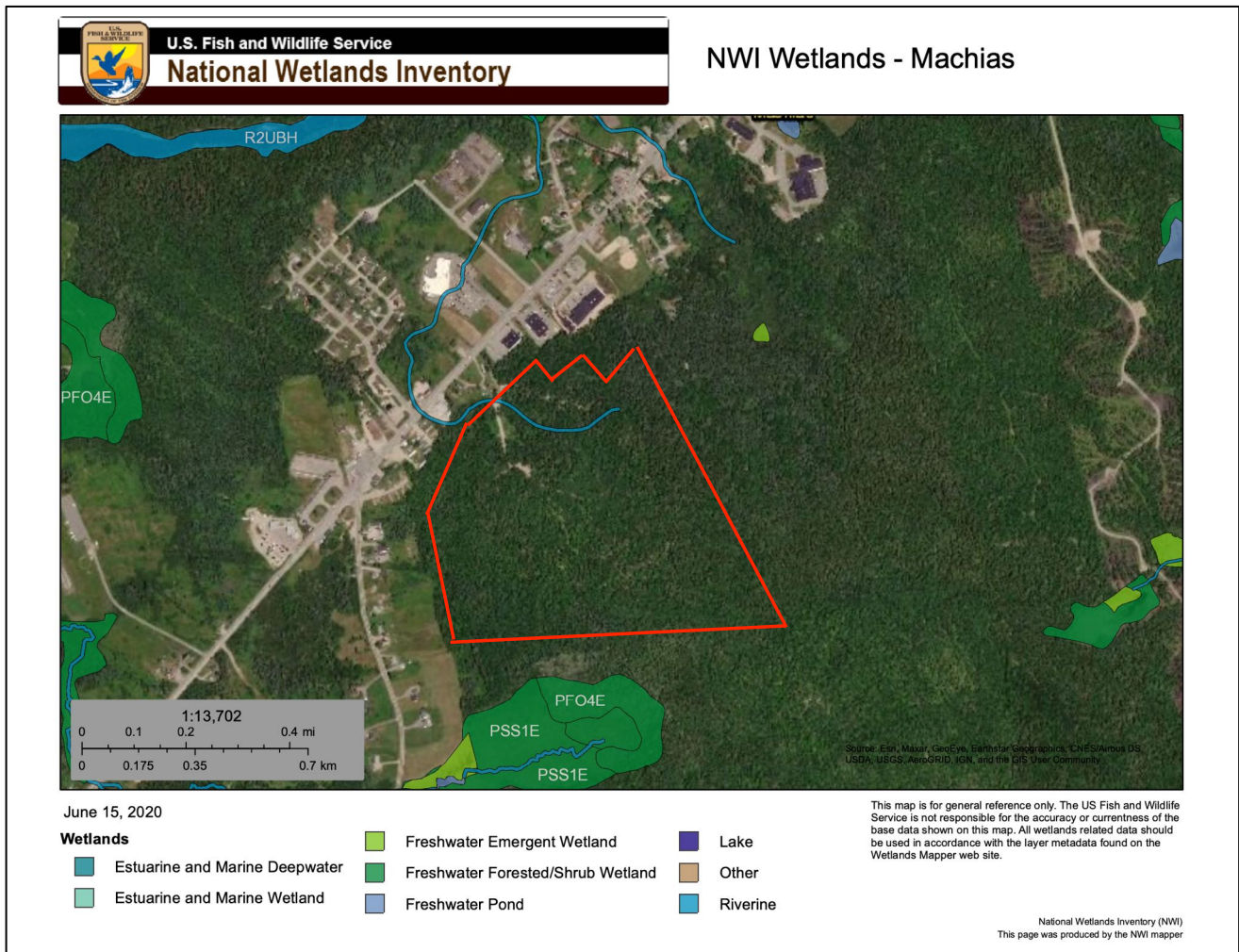


Figure One. National Wetland Inventory (NWI) of mapped wetlands on-site and wetlands extending off-site. Source: US Fish and Wildlife Wetlands Mapper. Date Accessed: June 15, 2020.

Table 1. Summary of Soils Identified in Project Area as Mapped by USDA.

Soil Map Unit and Map Unit Symbol	Approximate Percentage of Parcel (%)	Hydric Status
Scantic-Biddeford complex, 0 to 3 percent slopes (SF)	51.0	Yes
Tunbridge-Lamoine-Lyman complex, 3 to 15 percent slopes, very stony (TLC)	47.0	No
Udorthents-Urban land complex (Ud)	2.0	No

DESCRIPTION OF WETLANDS

AE delineated nine (9) wetlands and they are identified as Wetland One (W1) through Wetland Nine (W9). W1 and W3 – W9 consists of a palustrine, forested wetlands (PFO). W2 consists of a palustrine forested wetland (PFO) and is associated with an unnamed stream, a riverine wetland (R). Each wetland is described below:

W1, W3 – W9– All eight (8) of these wetlands consist of similar characteristics.

Vegetation: The canopy and shrub layers in these wetlands are dominated by Red Maple (*Acer rubrum*) Balsam Fir (*Abies balsamea*), White Cedar (*Thuja occidentalis*), and Speckled Alder (*Alnus incana*). The herbaceous layer includes Sphagnum (*Sphagnum spp.*) and Goldthred (*Coptis trifolia*). The canopy and shrub layers in the upland are dominated by White Spruce (*Picea glauca*), White Pine (*Pinus strobus*), and Balsam Fir (*Abies balsamea*).

Primary Hydrology Indicators: Surface Water (A1), Saturation (A3), and Water-stained leaves (B9).

Soils: The soils within the wetland were identified as hydric within the upper ten (10) inches of the soil profile with a value or three (3) or less and a chroma of two (2) or less.

W2 - *Vegetation:* The canopy and shrub layer in this wetland is dominated by Red Maple (*Acer rubrum*) Balsam Fir (*Abies balsamea*), White Cedar (*Thuja occidentalis*), and Speckled Alder (*Alnus incana*). The herbaceous layer includes Sphagnum (*Sphagnum spp.*) and Goldthred (*Coptis trifolia*). The canopy and shrub layers in the upland are dominated by White Spruce (*Picea glauca*), White Pine (*Pinus strobus*), Balsam Fir (*Abies balsamea*).

Primary Hydrology Indicators: Surface Water (A1), Saturation (A3), Water-stained leaves (B9), and Drainage Patterns (B10).

Soils: The soils within the wetland were identified as hydric within the upper ten (10) inches of the soil profile with a value or three (3) or less and a chroma of two (2) or less.

REGULATORY REVIEW

Wetlands located within twenty-five (25) feet of a river, stream, or brook are classified as Wetlands of Special Significance (WOSS) under the Natural Resources Protection Act (NRPA). Alterations of wetlands of special significance usually require an individual NRPA permit; however, some alterations of a WOSS may be eligible for a Tier 1 or Tier 2 review if the Maine Department of Environmental Protection (MDEP) determines, at the applicant's request, that the activity will not negatively affect the freshwater wetland or other protected natural resources at the site. Consultation with the MDEP is recommended if the proposed project will impact a WOSS. However, stream crossings and associated accessway construction within twenty-five (25) feet of the river, stream, or brook crossing (including access within a wetland) are eligible for a Section 10 Permit By Rule (PBR) provided the standards of Section 10 are met.

RIVER, STREAM, OR BROOK

As previously noted, there is an unnamed stream associated with W2 located within the project site. Any alterations within seventy-five (75) feet of a river, stream, or brook is regulated by the MDEP under the NRPA.

SIGNIFICANT WILDLIFE HABITAT

While on-site AE looked for potentially significant vernal pools that are regulated under Chapter 335 of the NRPA. Based on our assessment, there were no potentially significant vernal pool (PSVP) located within the project boundary. In addition, AE reviewed maps published by the DEP that identify significant wildlife habitat to include high and moderate value waterfowl and wading bird habitat, including nesting and feeding areas, shorebird nesting, feeding, and staging areas and no habitats were identified.

RARE, THREATENED, OR ENDANGERED SPECIES

FEDERAL: Based on the US Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPac) database, the project area is listed as habitat for the Endangered Northern Long-Eared Bat (*Myotis septentrionalis*), a federally threatened species and Atlantic Salmon (*Salmo salar*), a federally endangered species. The Northern Long-Eared Bat habitat is listed for the entire state of Maine and no known hibernacula or roosting trees exist within the site. ACOE recommends that any trees greater than 3" dbh be removed during the winter to minimize potential impacts to this species. Given the lack of habitat on-site for the Atlantic Salmon, it is highly unlikely this species exists on-site.

STATE: The Maine Natural Areas Program (MNAP) Beginning with Habitat publicly available data did not identify any species of concern at the project site; however, the State of Maine lists three *Myotis* species as either State Endangered or State Threatened. Five additional bat species are designated as Species of Special Concern. AE recommends contacting Maine Department of Inland Fisheries and Wildlife (MDIFW) and MNAP for their recommendations.

SUMMARY

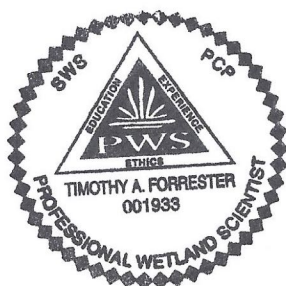
The site appears to provide at least twenty (20) acres of developable area for a solar array project as shown on the preliminary project plans. Based on AE's assessment of the site and the proposed location of the solar facility, there may be alterations to protected natural resources on-site that would require a NRPA permit from the Maine Department of Environmental Protection or alterations to wetlands that would require a permit from the ACOE. AE recommends you consult with these agencies in addition to the MDIFW and the MNAP for the issuance of clearance letters that meet the requirements of the Maine Public Utilities Commission's Distributed Generation Siting Attributes.

If you require any additional information or clarifications, please feel free to contact me at 207 - 837 - 2199 or by email at tim@atlanticenviromaine.com.

Sincerely,
Atlantic Environmental LLC.



Timothy A. Forrester, Owner





Photograph One. View of W1. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



Photograph Two. View of W2 and associated unnamed stream. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



Photograph Three. View of W4. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



Photograph Four. View of W8. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



Photograph Five. View of W7. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



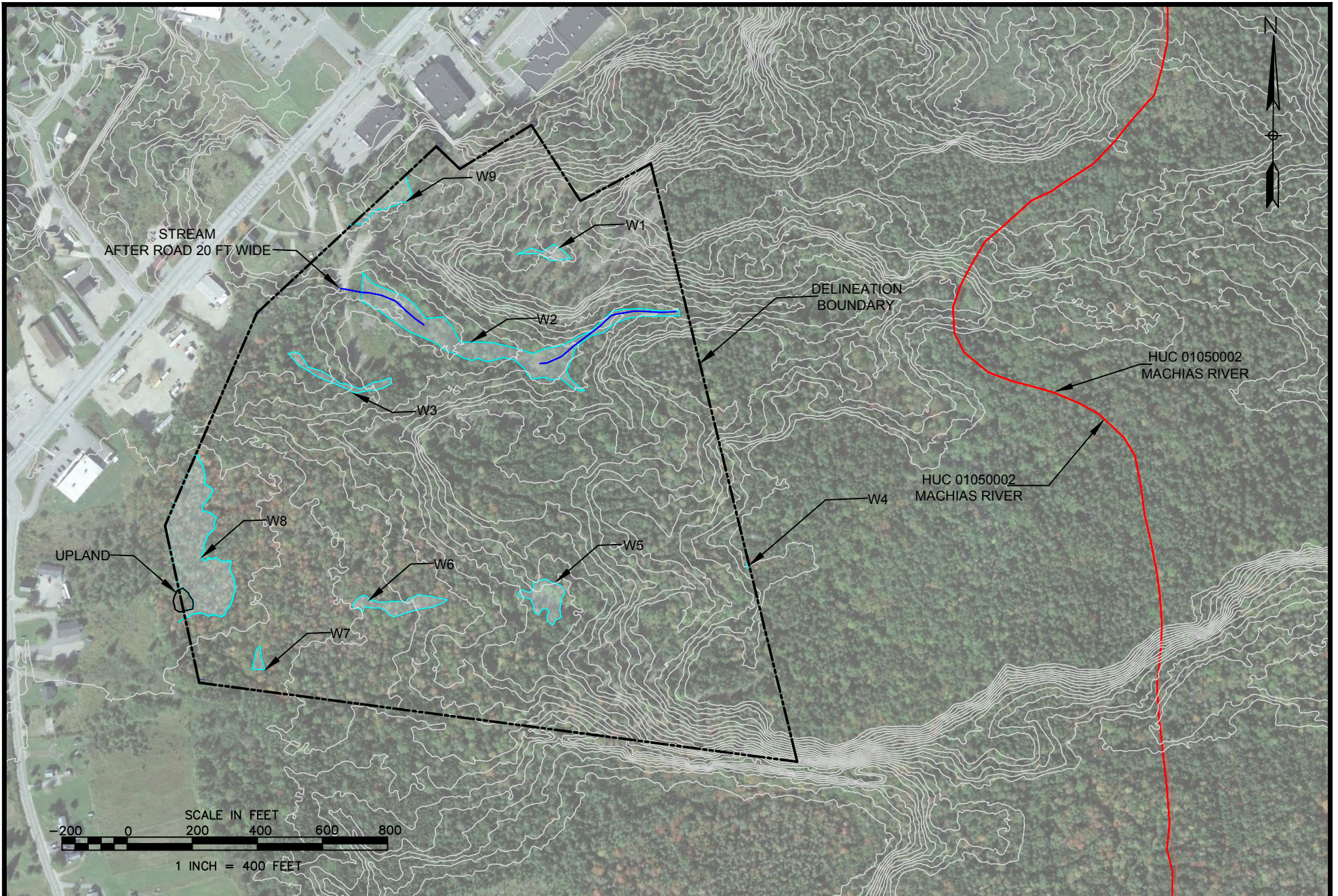
Photograph Six. View of W3. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



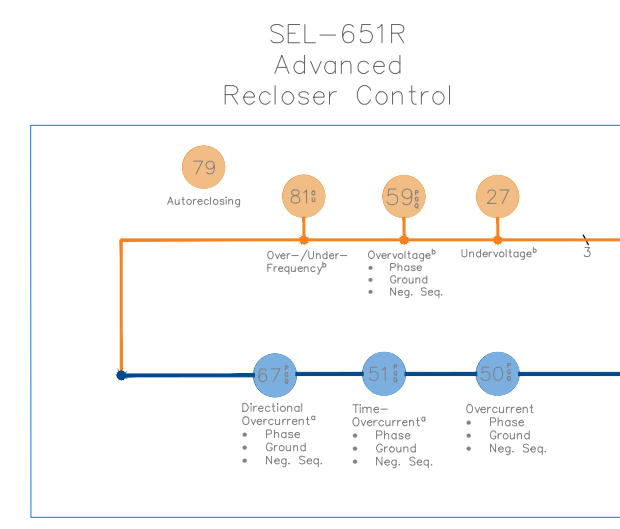
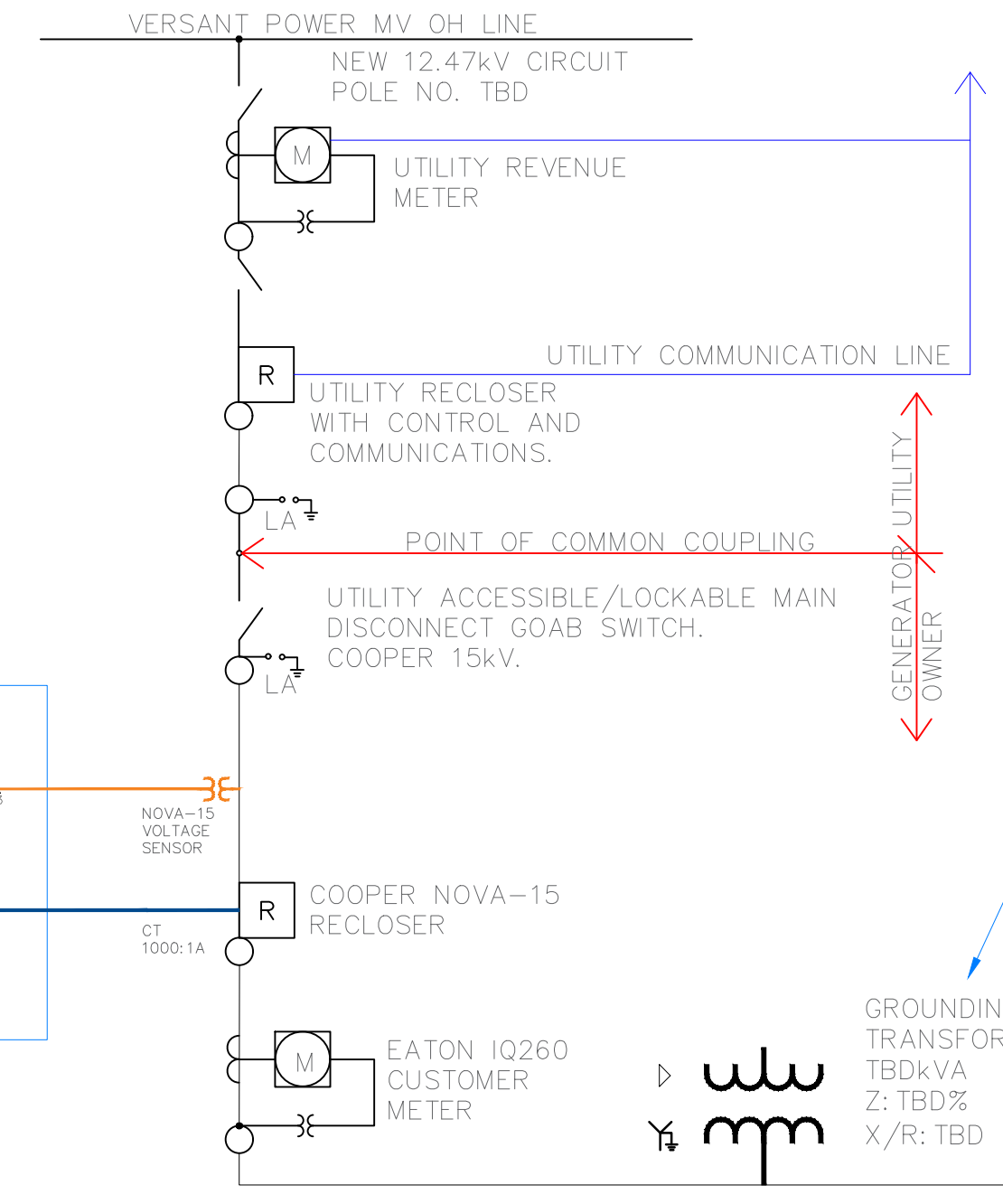
Photograph Nine. View of W5. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



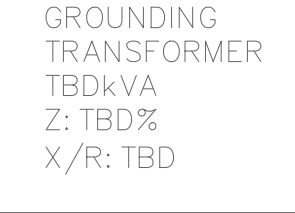
Photograph Ten. View of W6. Photographer: Tim Forrester, Atlantic Environmental, LLC. Date: May 12, 2020.



3"
2"
1"
0
22x34 = FULL SCALE
 PRINTED: Feb. 10, 2021 - 5:45 PM J:\4897001\Drawings\CAD\SLDx_3_11-11-2020.dwg



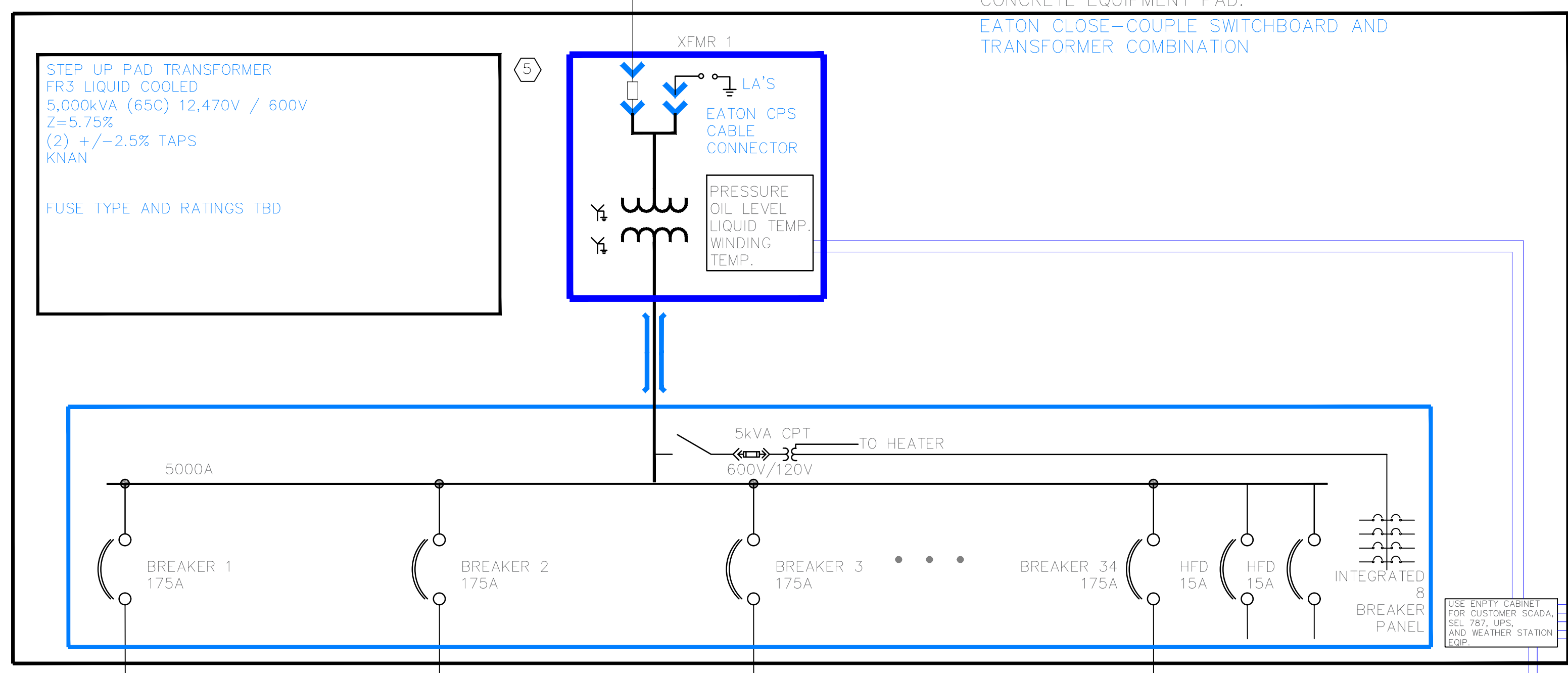
GROUNDING TRANSFORMER SPECIFICATION TBD IN SIS



From	To	Cable Number	Type	Material	Conductor	Voltage (kV)	Length (ft)	Ohms/1000ft				Per Unit Value (100 MVA Base)			
								R ₁	X ₁	R ₀	X ₀	R ₁	X ₁	R ₀	X ₀
PCC	GOAB	H4	Overhead	ACSR	Pigeon (3/0 AWG)	12.47	80	0.1061	0.1598	0.1595	0.5789	0.0682	0.1028	0.1025	0.3723
GOAB	Recloser	H3	Overhead	ACSR	Pigeon (3/0 AWG)	12.47	20	0.1061	0.1598	0.1595	0.5789	0.0682	0.1028	0.1025	0.3723
Recloser	Riser	H2	Overhead	ACSR	Pigeon (3/0 AWG)	12.47	850	0.1061	0.1598	0.1595	0.5789	0.0682	0.1028	0.1025	0.3723
Riser	Transformer	H1	Underground	AL MV-105	350 kcmil	12.47	150	0.0636	0.0413	0.0657	0.5328	0.0409	0.0265	0.0422	0.3426
Machias A	Versant Power	*XX	Overhead	AL	Hendrix (336.4 kcmil)	12.47	1100	0.0527	0.1276	0.1061	0.5466	0.0339	0.0820	0.0682	0.3515

SYSTEM MAXIMUM PHYSICAL OUTPUT RATING: 4,999kW

PROTECTIVE RELAY SETTINGS					
INVERTER PROTECTIVE FUNCTIONS	TRIP OUTPUT	VOLTAGE SETTING (SEC) PRI (PU)	FREQUENCY SETTING (HZ)	TOTAL CLEARING TIME CYC. (SEC)	CURRENT SETTING SEC (PRI)
27P1 - FAST UNDERVOLTAGE	X	(9.49) 9976 (80%)	-	18 (0.3)	-
27P2 - UNDERVOLTAGE	X	(10.67) 11223 (90%)	-	1200 (20)	-
59P1 - OVERVOLTAGE	X	(13.05) 13717 (110%)	-	1200 (20)	-
59P2 - FAST OVERVOLTAGE	X	(13.64) 14341 (115%)	-	12 (0.2)	-
81UP1 - UNDERFREQUENCY	X	-	57.0	12 (0.2)	-
81UP2 - UNDERFREQUENCY	X	-	-	-	-
81OP1 - OVERFREQUENCY	X	-	61.8	12 (0.2)	-
81OP2 - OVERFREQUENCY	X	-	-	-	-
50 - INST. OVERCURRENT	X	-	-	-	5.44 (5435.11)
51 - OVERCURRENT	X	-	-	CURVE: C3 TM 0.24	0.28 (277.8)
50G - INST. GROUND OVERCURRENT	X	-	-	-	1.41 (1409.1)
51G - GROUND OVERCURRENT	X	-	-	CURVE: C1 TM 0.24	0.1 (69.45)
79 - RECLOSER	X	95% ≤ V ≤ 105%	59.5 Hz ≤ f ≤ 60.5 Hz	5 MINUTES	-
79O1 - OPEN INTERVAL	-	-	-	60 (1)	-
79RSD - RESET TIME FROM RECLOSE	-	-	-	1800 (30)	-
79RSLD - RESET TIME FROM LOCKOUT	-	-	-	600 (10)	-
79CLSD - RECLOSE SUPERVISION TIME LIMIT	-	-	-	900 (15)	-
ALARM	X	-	-	-	-



AC SWITCHBOARD, NEMA 3R 600VAC NOMINAL, 5000A BUS, 4-WIRE. CLOSED-COUPLED TO TRANSFORMER

WEATHER STATION FOR CUSTOMER SCADA: SEL 787, UPS, AND WEATHER STATION EQUIPMENT

Inverter Multi-stage Protection Settings		
AC under-voltage level 1 protection value	60V-600V	520V
AC over-voltage level 1 protection value	477V-826V	660V
AC under-frequency level 1 protection value	53.00Hz-59.90Hz	59.90Hz
AC over-frequency level 1 protection value	65.00Hz-62.00Hz	60.50Hz
AC under-voltage level 1 protection time	0s-600s	2s
AC over-voltage level 1 protection time	0s-600s	1s
AC under-frequency level 1 protection time	0s-600s	1s
AC over-frequency level 1 protection time	0s-600s	0.16s
AC under-voltage level 2 protection value	60V-600V	300V
AC over-voltage level 2 protection value	477V-826V	720V
AC under-frequency level 2 protection value	53.00Hz-59.90Hz	57.00Hz
AC over-frequency level 2 protection value	65.00Hz-62.00Hz	60.50Hz
AC under-voltage level 2 protection time	0s-600s	0.16s
AC over-voltage level 2 protection time	0s-600s	0.16s
AC under-frequency level 2 protection time	0s-600s	0.16s
AC over-frequency level 2 protection time	0s-600s	0.16s
AC under-voltage level 3 protection value	477V-826V	720V
AC over-voltage level 3 protection value	60V-600V	300V
AC under-frequency level 3 protection time	0s-600s	0.16s

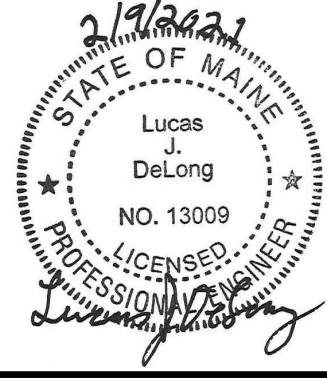
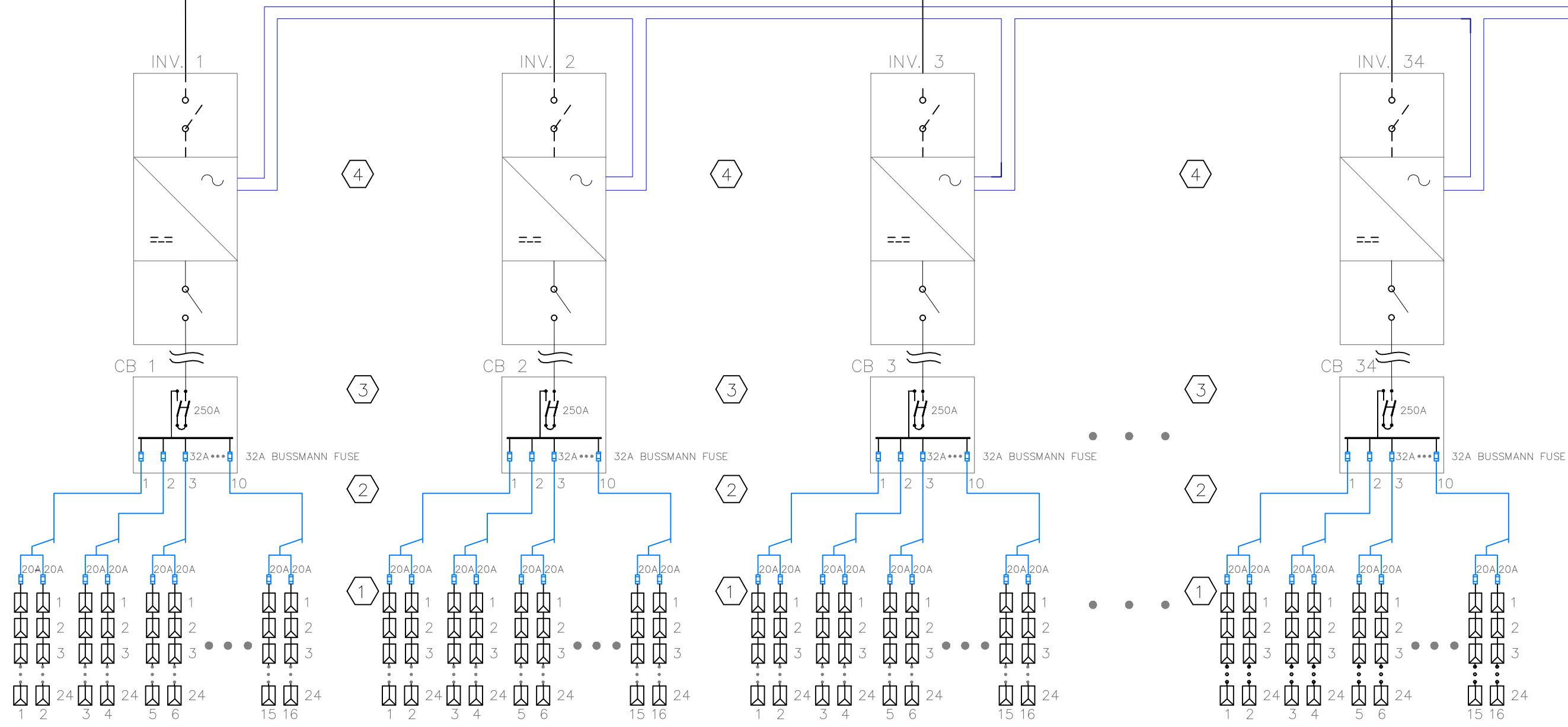
NOTE: RECOVERY SETTINGS TO BE STAGGERED IN FOUR GROUPS TO STAGGER RESTART.

SMA PEA3 150kW 3 PHASE STRING INVERTER WITH INTEGRATED DC AND AC DISCONNECT, 1500 VDC TO 600VAC

COMBINER BOX WITH POS. & NEG. POLE DISCONNECT

CROUSE-HINDS SUNECTOR PRE-CUT WIRE HARNESS SYSTEM.

20 (24-PV MODULE) STRINGS PER INVERTER - 1500VDC QTY OF 480 PV MODULES JA SOLAR 440W 1500VDC PV MODULES 212,500W-STC DC/AC RATIO: 1.41



D	REVISED SCHEMATIC	02-09-21	CRS	LJD
C	REVISED SCHEMATIC	10-20-20	CRS	LJD
B	REVISED SCHEMATIC	08-5-20	CRS	LJD
A	FOR SYSTEM IMPACT STUDY	08-5-20	TLT	LJD
No.	Revision	Date	Drawn	Checked
			Designed	Drawn
			LJD	TLT

NOT FOR CONSTRUCTION

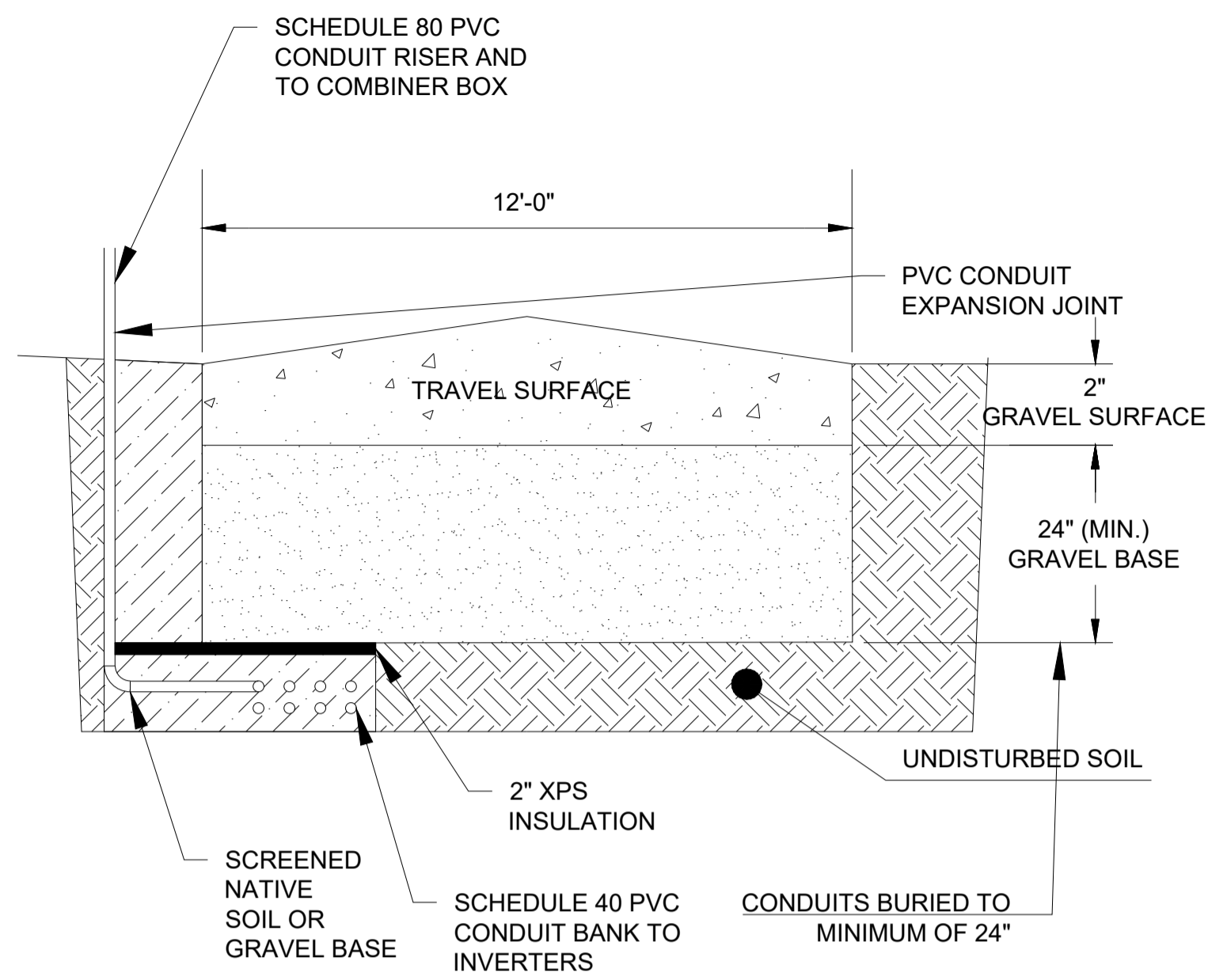
LOKI SOLAR LLC
KITTERY POINT, MAINE

MACHIAS SOLAR - SITE A

SINGLE LINE DRAWING

Kleinschmidt
888-224-5942
KleinschmidtGroup.com

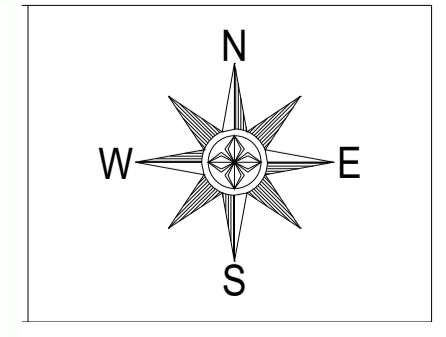
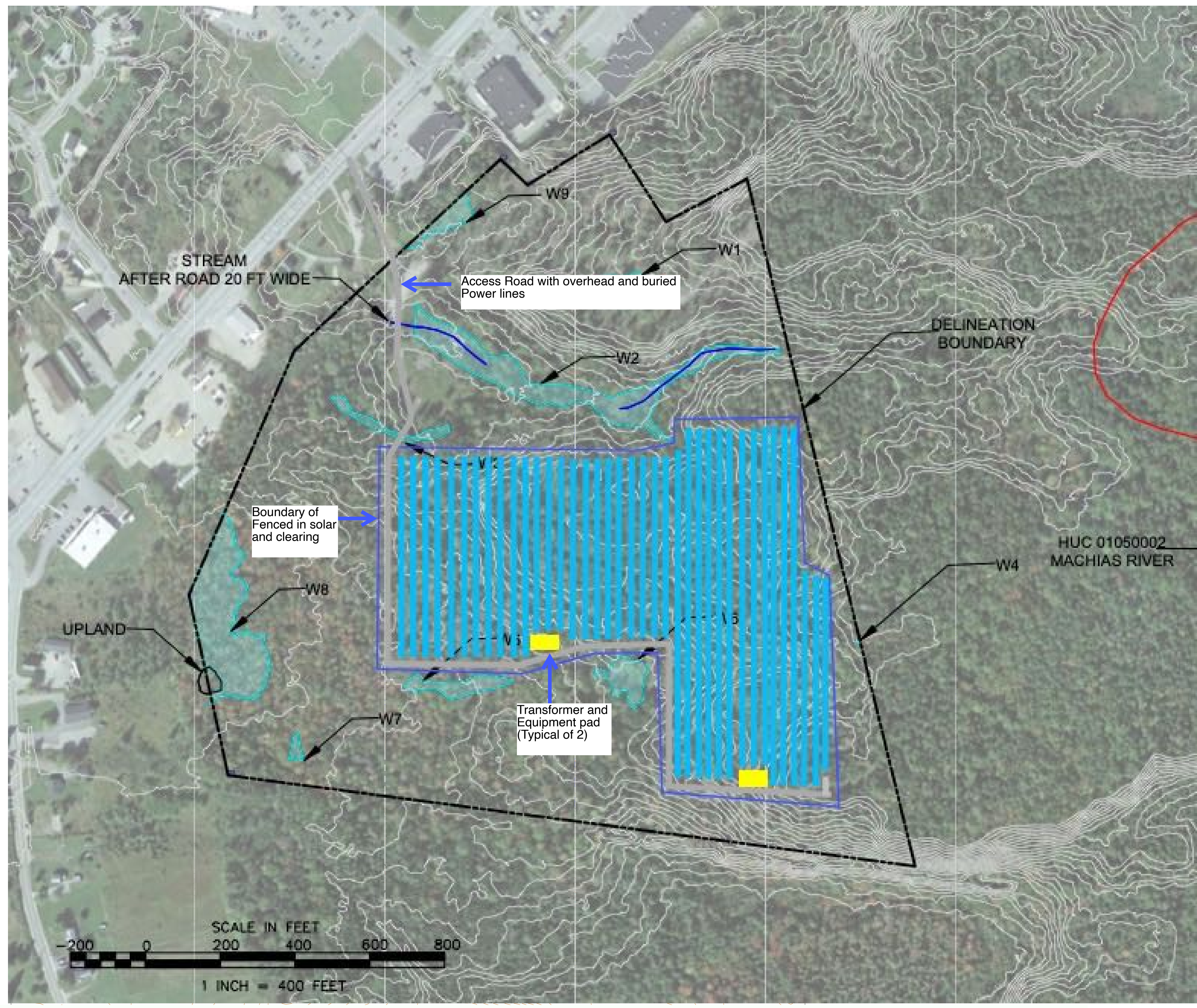
Project No.	Date Revised	Drawing No.
4897001	02-09-21	01



ACCESS ROAD DETAIL

Notes:

1. ECM Berm shall be placed downslope of all cleared area minimum of 1 foot high, 2 foot wide. On steeper slopes contractor shall place larger berm to provide stable slope on downgrade side.
2. All disturbed area not covered by roads or slabs shall be seeded and fertilized during spring 2022.
3. Project Information:
 Total project area - 19.9 acres
 Total proposed impervious area - 0.92 acres
 Total grading disturbance - 2.9 acres
 Total tree clearing - 19.9 acres
 Forested Wetland within project - 0 sq ft
 Other wetland within project - 0 sq ft



SUNNY HIGHPOWER PEAK3

SHP 100-20 / SHP 150-20



Efficient

- High power density with 150 kW thanks to its compact structure
- Max. yield due to possible DC/AC ratio of up to 150%

Reliable

- Superior PV system availability with 150 kW units
- Innovative digital features aligned with the energy management platform ennexOS

Flexible

- For DC input voltages up to 1500 V
- Flexible DC solutions with customer-specific PV array junction boxes

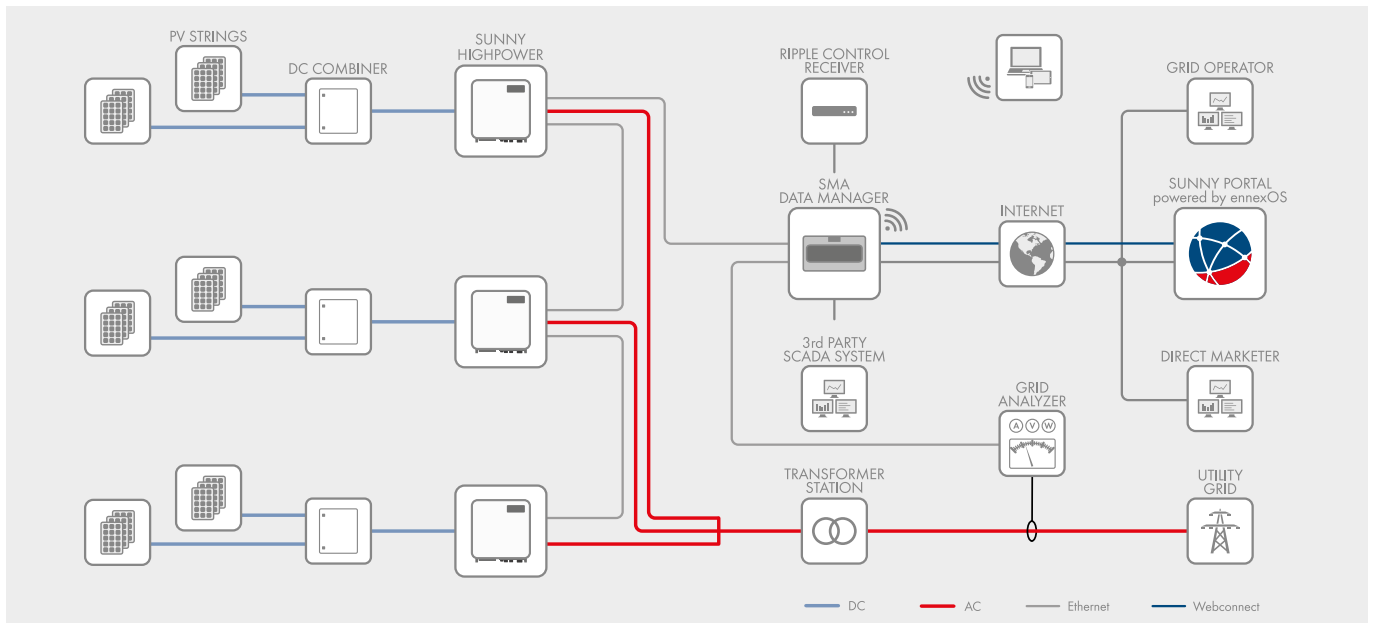
Easy to install

- Ergonomic handling and simple connection for quick installation
- Centralized commissioning and control of the PV power plant via SMA Data Manager

SUNNY HIGHPOWER PEAK3

Customized for tomorrow today

The Sunny Highpower PEAK3 is the central component of the SMA solution for PV power plants with a decentralized architecture and system voltages of 1500 V DC. This compact string inverter enables cost-optimized solutions for industrial PV applications thanks to its high power density. It also provides a simple way of transport and allows for quick installation and commissioning. This string inverter with 150 kW of power is equipped with the automatic SMA Smart Connected service for proactive servicing that facilitates operation and maintenance and reduces service costs throughout the entire project lifetime.



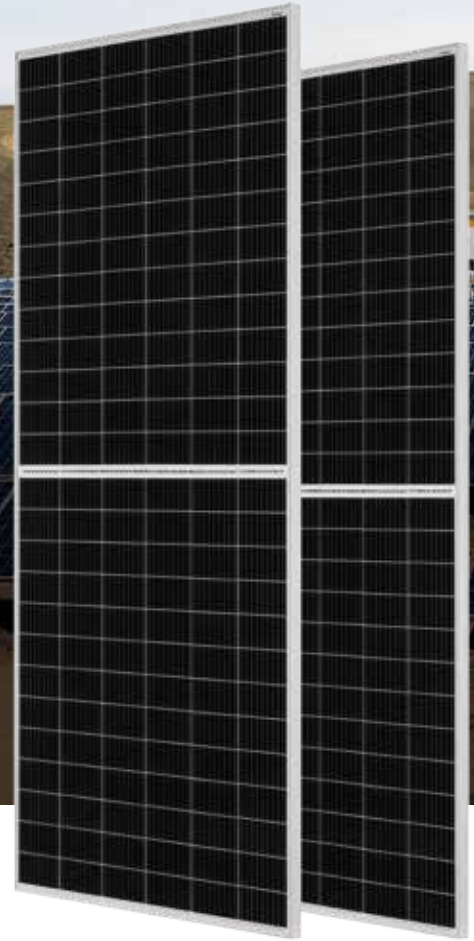
Technical Data	Sunny Highpower 100-20	Sunny Highpower 150-20
Input (DC)		
Max. PV array power	150000 Wp	225000 Wp
Max. input voltage	1000 V	1500 V
MPP voltage range / rated input voltage	590 V to 1000 V / 590 V	880 V to 1450 V / 880 V
Max. input current / max. short-circuit current	180 A / 325 A	180 A / 325 A
Number of independent MPP trackers	1	1
Number of inputs	1 or 2 (optional) for external PV array junction boxes	
Output (AC)		
Rated power at nominal voltage	100000 W	150000 W
Max. apparent power	100000 VA	150000 VA
Nominal AC voltage / AC voltage range	400 V / 304 V to 477 V	600 V / 480 V to 690 V
AC grid frequency / range	50 Hz / 44 Hz to 55 Hz 60 Hz / 54 Hz to 66 Hz	50 Hz / 44 Hz to 55 Hz 60 Hz / 54 Hz to 66 Hz
Rated grid frequency	50 Hz	50 Hz
Max. output current	151 A	151 A
Power factor at rated power / displacement power factor adjustable	1 / 0 overexcited to 0 underexcited	
Harmonic (THD)	< 3%	< 3%
Feed-in phases / AC connection	3 / 3-PE	3 / 3-PE
Efficiency		
Max. efficiency / European efficiency	98.8% / 98.6%	99.1% / 98.8%
Protective devices		
Ground fault monitoring / grid monitoring / DC reverse polarity protection	● / ● / ●	● / ● / ●
AC short-circuit current capability / galvanically isolated	● / -	● / -
All-pole-sensitive residual-current monitoring unit	●	●
Monitored surge arrester (type II) AC / DC	● / ●	● / ●
Protection class (according to IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / AC: III; DC: II	I / AC: III; DC: II
General Data		
Dimensions (W / H / D)	770 mm / 830 mm / 444 mm (30.3 in / 32.7 in / 17.5 in)	
Weight	98 kg (216 lbs)	
Operating temperature range	-25 °C to +60 °C (-13 °F to +140 °F)	
Noise emission (typical)	< 65 dB(A)	
Self-consumption (at night)	< 5 W	
Topology	transformerless	
Cooling method	OptiCool, active cooling, speed-controlled fan	
Degree of protection (according to IEC 60529)	IP65	
Max. permissible value for relative humidity (non-condensing)	100%	
Features / function / accessories		
DC connection / AC connection	Terminal lug (up to 300 mm ²) / Screw terminal (up to 150 mm ²)	
LED display (Status / Fault / Communication)	●	
Ethernet interface	● (2 ports)	
Data interface: SMA Modbus / SunSpec Modbus / Speedwire, Webconnect	● / ● / ●	
Mounting type	Rack mounting	
OptiTrac Global Peak / Integrated Plant Control / Q on Demand 24/7	● / ● / ●	
Off-grid capable / SMA Fuel Save Controller compatible	● / ●	
Warranty: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○	
Certificates and approvals (planned)	IEC 62109-1/-2, AR N-4110, AR N-4120, CEI 0-16, C10/11:2012, EN 50549, PEA 2017, DEWA	
● Standard features ○ Optional features - Not available Data at nominal conditions Status: 12/ 2018		
Type designation	SHP 100-20	SHP 150-20

Mono

450W MBB Bifacial Mono PERC Half-cell Double Glass Module JAM78D10 430-450/MB/1500V Series

Introduction

Assembled with MBB bifacial PERCIUM cells and half-cell configuration, these double glass modules have the capability of converting the incident light from the rear side together with the front side into electricity, providing higher output power, lower temperature coefficient, less shading loss, as well as enhanced tolerance for mechanical loading.



Higher output power



More reliable, more stable power generation



Less shading effect

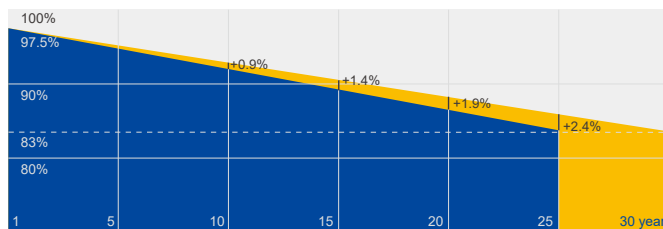


Lower temperature coefficient

Superior Warranty

- 12-year product warranty
- 30-year linear power output warranty

0.5% Annual Degradation
Over 30 years



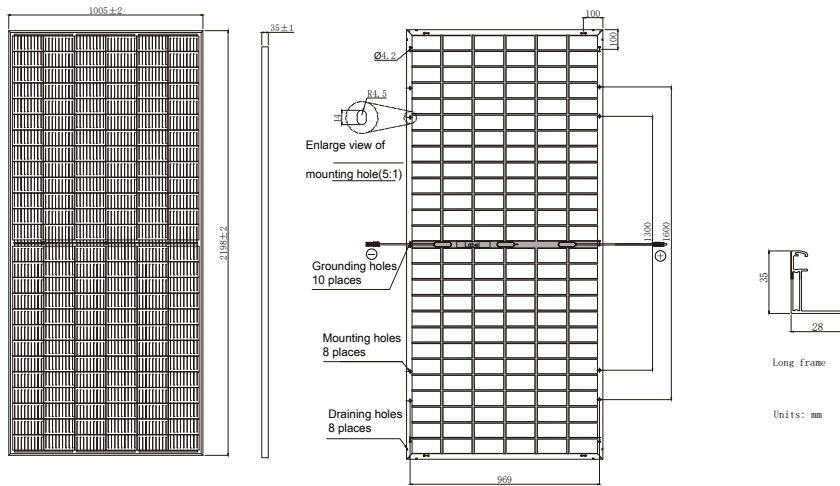
■ Additional Value From 30-Year Warranty ■ JA Standard

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	29.0kg±3%
Dimensions	2198±2mm×1005±2mm×35±1mm
Cable Cross Section Size	4mm ²
No. of cells	156 (6×26)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4-EVO2 QC 4.10-35/45
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM78D10 -430/MB/1500V	JAM78D10 -435/MB/1500V	JAM78D10 -440/MB/1500V	JAM78D10 -445/MB/1500V	JAM78D10 -450/MB/1500V
Rated Maximum Power(Pmax) [W]	430	435	440	445	450
Open Circuit Voltage(Voc) [V]	52.46	52.74	53.01	53.29	53.58
Maximum Power Voltage(Vmp) [V]	43.93	44.31	44.68	44.96	45.28
Short Circuit Current(Isc) [A]	10.28	10.32	10.37	10.42	10.46
Maximum Power Current(Imp) [A]	9.79	9.82	9.85	9.90	9.94
Module Efficiency [%]	19.5	19.7	19.9	20.1	20.4
Power Tolerance			0~+5W		
Temperature Coefficient of Isc(α _{Isc})			+0.044%/°C		
Temperature Coefficient of Voc(β _{Voc})			-0.272%/°C		
Temperature Coefficient of Pmax(γ _{Pmp})			-0.354%/°C		
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G				

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.
 Measurement tolerance at STC: Pmax ±3%, Voc ±2% and Isc ±4%

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN(REFERENCE TO 435W FRONT)

Backside Power Gain	5%	10%	15%	20%	25%
Rated Max Power(Pmax) [W]	457	479	500	522	544
Open Circuit Voltage(Voc) [V]	53.60	53.60	53.60	53.70	53.70
Max Power Voltage(Vmp) [V]	44.35	44.35	44.35	44.45	44.45
Short Circuit Current(Isc) [A]	10.82	11.33	11.85	12.36	12.88
Max Power Current(Imp) [A]	10.30	10.79	11.28	11.74	12.23

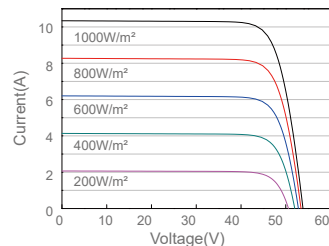
OPERATING CONDITIONS

Maximum System Voltage	1500V DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load,Front Maximum Static Load,Back	3600Pa, 1.5 1600Pa, 1.5
NOCT	45±2°C
Bifaciality*	70%±10%

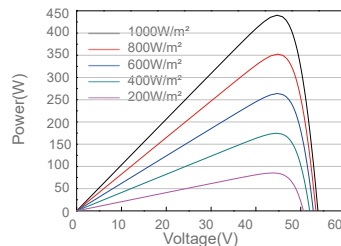
*Bifaciality=Pmax,rear/Rated Pmax,front

CHARACTERISTICS

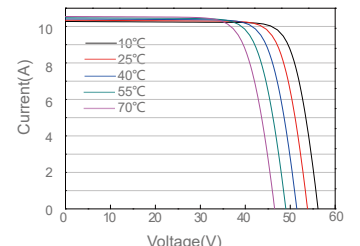
Current-Voltage Curve JAM78D10-440/MB/1500V



Power-Voltage Curve JAM78D10-440/MB/1500V



Current-Voltage Curve JAM78D10-440/MB/1500V



MAINE REAL ESTATE TAX-Paid

DLN: 1002140141559

WARRANTY DEED

KNOW ALL PERSONS BY THESE PRESENTS, that Gerald L. Wood & Son, LLC, of Machiasport, County of Washington, State of Maine,

for consideration paid,

grants to Dublin Street LLC, having a mailing address of 15 High Pasture Road, Kittery Point, ME 03905,

with WARRANTY COVENANTS,

A certain lot or parcel of land, with any improvements thereon, situated in Machias, Washington County, State of Maine, and more fully described in a Quitclaim Deed with Covenant from Ray S. Woodman to the said Ray S. Woodman and Marie V. Woodman as joint tenants dated March 25, 1982, and recorded in Volume 1174, Page 56 of the Washington County Registry of Deeds, as follows:

“All my right, title, and interest in and to that certain lot or parcel of land situated in Machias, bounded and described as conveyed to Alfred K. Ames by Julia P. Fuller by Deed dated August 19, 1916 and recorded in the Washington County Registry of Deeds in Book 322, Page 458.

Also, all my right, title, and interest in and to that certain lot or parcel of land situated in said Machias, bounded and described as conveyed to Alfred K. Ames by Robert McPherson by Deed dated June 15, 1909 and recorded in said Registry in Book 285, Page 57.

Excepting, however, so much of the above described real estate as has heretofore been conveyed to any person or persons by the said Alfred K. Ames, or his successors in title, prior to August 31, 1961.

Also excepting a parcel of land described in a Deed of Ray S. Woodman to Davis-Greene Co. dated December 2, 1969 and recorded in said Registry in Book 681, Page 118.”

EXCEPTING and RESERVING, however, all those portions of the above described premises as conveyed by the following deeds:

1. A Warranty Deed from Ray S. Woodman and Marie V. Woodman to Carl L. Sprague, Sr. and Carolyn E. Woodman Sprague as joint tenants dated June 9, 1976, and recorded in Volume 926, Page 157 of said Registry.

- 2. A Quitclaim Deed with Covenant from Ray S. Woodman and Marie V. Woodman to CWR Concepts dated December 29, 1997, and recorded in Volume 2213, Page 134 of said Registry.

Granting also to the Grantee herein, its successors and assigns forever, all rights, privileges, appurtenances and easements belonging to the granted estate as intended by Title 33 M.R.S. § 773.

For source of title, reference may be had to a deed from Alden K. Woodman to Gerald L. Wood & Son, LLC dated August 8, 2014 and recorded in the Washington County Registry of Deeds in Book 4082, Page 126.

Witness my hand and seal this 23 day of April, 2021.

Witness

Gerald L. Wood & Son, LLC

BY: David L. Wood
David L. Wood, Member
thereunto duly authorized

STATE OF Maine

County of Washington

Then personally appeared this 23 day of April, 2021 the above named David L. Wood, Member of Gerald L. Wood & Son, LLC and acknowledged the foregoing instrument to be his free act and deed in his said capacity.

Before me,

Mary Jane Good
Notary Public

MARY JANE GOOD
NOTARY PUBLIC
State of Maine
My Commission Expires
August 28, 2021

Typed/printed name of Notary Public
My Commission expires:

WARRANTY DEED

KNOW ALL PERSONS BY THESE PRESENTS, that Gerald L. Wood & Son, LLC, of Machiasport, County of Washington, State of Maine,

for consideration paid,

grants to Dublin Street LLC, having a mailing address of 15 High Pasture Road, Kittery Point, ME 03905,

with WARRANTY COVENANTS,

A certain lot or parcel of land, with any improvements thereon, situated in Machias, Washington County, State of Maine, and more fully described in a Quitclaim Deed with Covenant from Ray S. Woodman to the said Ray S. Woodman and Marie V. Woodman as joint tenants dated March 25, 1982, and recorded in Volume 1174, Page 56 of the Washington County Registry of Deeds, as follows:

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BY: David L. Wood
David L. Wood, Member
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STATE OF Maine

County of Washington

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Before me,

Mary Jane Good
Notary Public

MARY JANE GOOD
NOTARY PUBLIC
State of Maine
My Commission Expires
August 28, 2021

Typed/printed name of Notary Public
My Commission expires: