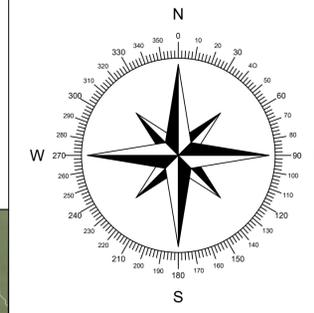




SPACE FOR PE STAMP:



NEW ENERGY EQUITY, LLC  
2530 RIVA ROAD, SUITE 200  
ANNAPOLIS, MD 21041  
NEWENERGYEQUITY.COM  
443-267-5012

PROJECT ADDRESS  
3869-3999 MN-19  
NORTHFIELD, MN 55057

LAT: 44.4737619461  
LONG: -93.2188576538

**SYSTEM SPECIFICATIONS**

SYSTEM SIZE DC	1.454 MW
SYSTEM SIZE AC	1.000 MW
DC/AC RATIO	1.454
AZIMUTH	180°
TILT	+/- 52°
MODULE COUNT	3825
MODULE TYPE	REC 380TP2SM 72
MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

**DESIGN CRITERIA**

MIN/MAX TEMP	-29°C / 31°C
WIND SPEED (ASCE 7-10)	105 MPH
BUILDING CATEGORY	I
EXPOSURE CATEGORY	C
GROUND SNOW LOAD	50 PSF
BUILDING HEIGHT	0'-0"

**OTHER NOTES**

CASE NUMBER 04124406

NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS.

24/7 UNESCORTED KEYLESS ACCESS PROVIDED TO ALL XCEL ENERGY EQUIPMENT INCLUDING THE METERS AND AC DISCONNECT.

INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

**REVISIONS**

#	DESCRIPTION	BY	DATE
0	ORIGINAL DESIGN	SPC	10/14/2020
1	SITE PLAN	MPH	10/20/2020
2	UPDATE WITH XCEL COMMENTS	MPH	11/4/2020
3	CUP PACKAGE	JAT	1/18/2021
4			
5			
6			
7			

**DRAWN BY**

JOSE TAVARES

**PROJECT NAME**

DEVNEY CSG

**DRAWING TITLE**

SITE PLAN

**SCALE**<sup>1</sup>

1" = 80'

**SHEET**

**PV1**



**SHEET NOTES:**

UTILITY POLES ARE SHOWN FOR INDICATING LOCATIONS ONLY. SPACING BETWEEN POLES, PHYSICAL PROTECTION BARRIER FOR SWITCHBOARDS, ETC. WILL BE ADDED IN THE DRAWINGS PREPARED FOR THE CONSTRUCTION DOCUMENTS

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.

**SYSTEM SPECIFICATIONS**

SYSTEM SIZE DC	1.454 MW
SYSTEM SIZE AC	1.000 MW
DC/AC RATIO	1.454
AZIMUTH	180°
TILT	+/- 52°
MODULE COUNT	3825
MODULE TYPE	REC 380TP2SM 72
MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

**DESIGN CRITERIA**

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WIND SPEED (ASCE 7-10)	105 MPH
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CASE NUMBER 04124406

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**REVISIONS**

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**DRAWN BY**

JOSE TAVARES

**PROJECT NAME**

DEVNEY CSG

**DRAWING TITLE**

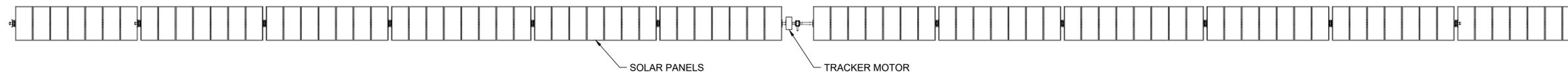
SAT RACKING DETAIL

**SCALE**<sup>1</sup>

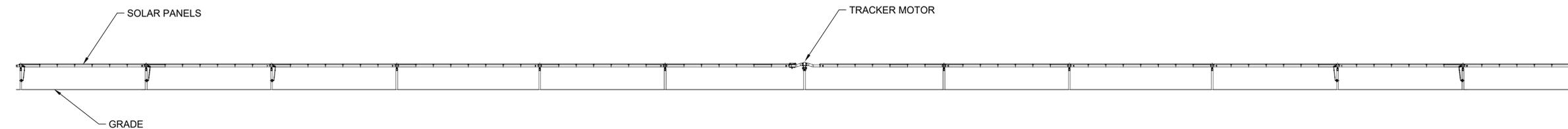
NTS 0 1" 2"

**SHEET**

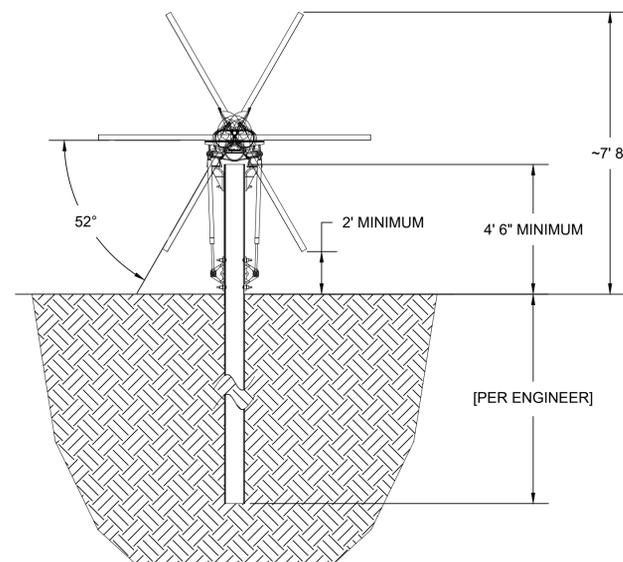
PV2



1 SINGLE AXIS TRACKER TOP DOWN VIEW  
NTS



2 SINGLE AXIS TRACKER EAST-WEST ELEVATION  
NTS



3 SINGLE AXIS TRACKER NORTH-SOUTH ELEVATION  
NTS

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.

SYSTEM SPECIFICATIONS

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SYSTEM SIZE AC	1.000 MW
DC/AC RATIO	1.454
AZIMUTH	180°
TILT	+/- 52°
MODULE COUNT	3825
MODULE TYPE	REC 380TP2SM 72
MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

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MIN/MAX TEMP.	-29° C / 31° C
WIND SPEED (ASCE 7-10)	105 MPH
BUILDING CATEGORY	I
EXPOSURE CATEGORY	C
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BUILDING HEIGHT	0'-0"

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CASE NUMBER 04124406

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DRAWN BY

JOSE TAVARES

PROJECT NAME

DEVNEY CSG

DRAWING TITLE

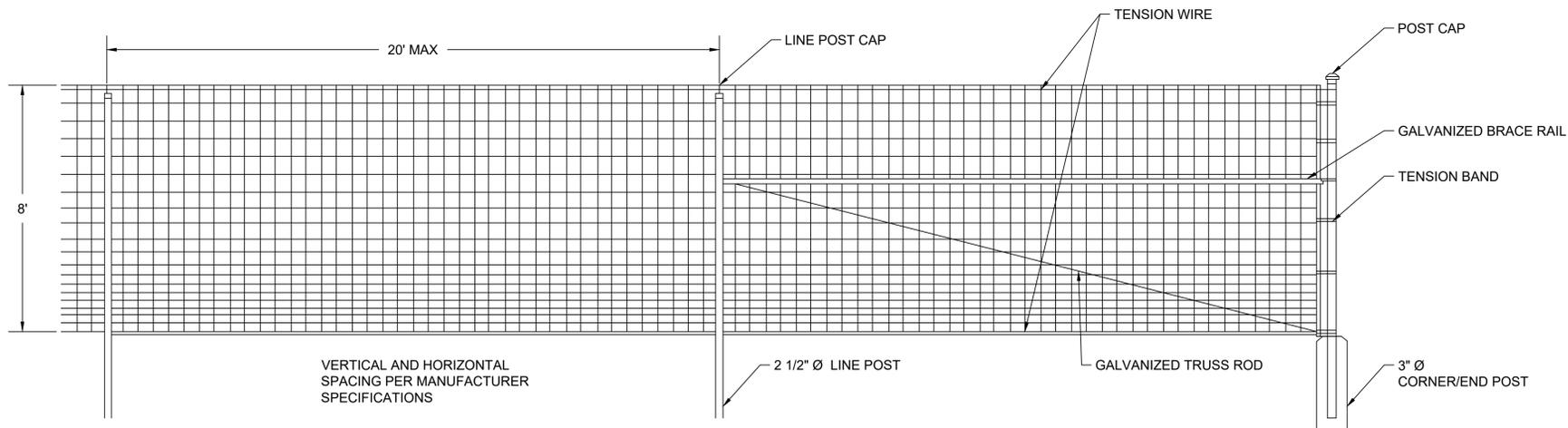
FENCE DETAIL

SCALE<sup>1</sup>

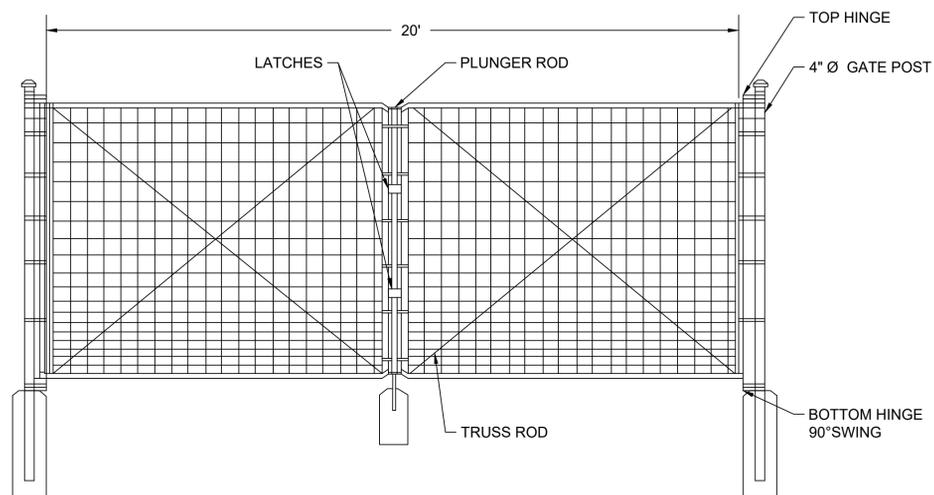
NTS 0 1" 2"

SHEET

PV3



1 8' FIXED KNOT FENCE NTS



2 8' FIXED KNOT FENCE GATE NTS

NOTE:  
1. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION.  
2. DO NOT SCALE DRAWING

SYSTEM SPECIFICATIONS	
SYSTEM SIZE DC	1.454 MW
SYSTEM SIZE AC	1.000 MW
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MONITORING	ALSO ENERGY

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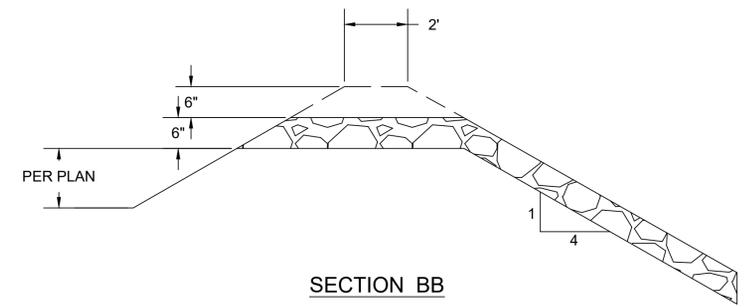
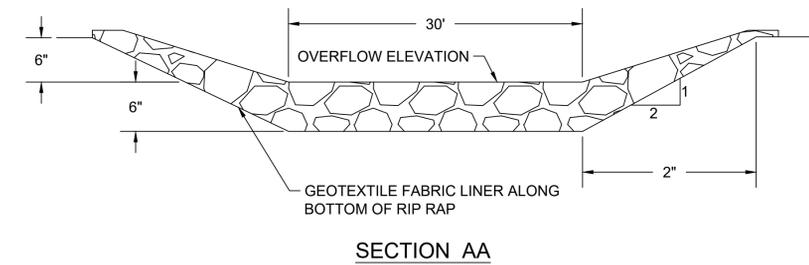
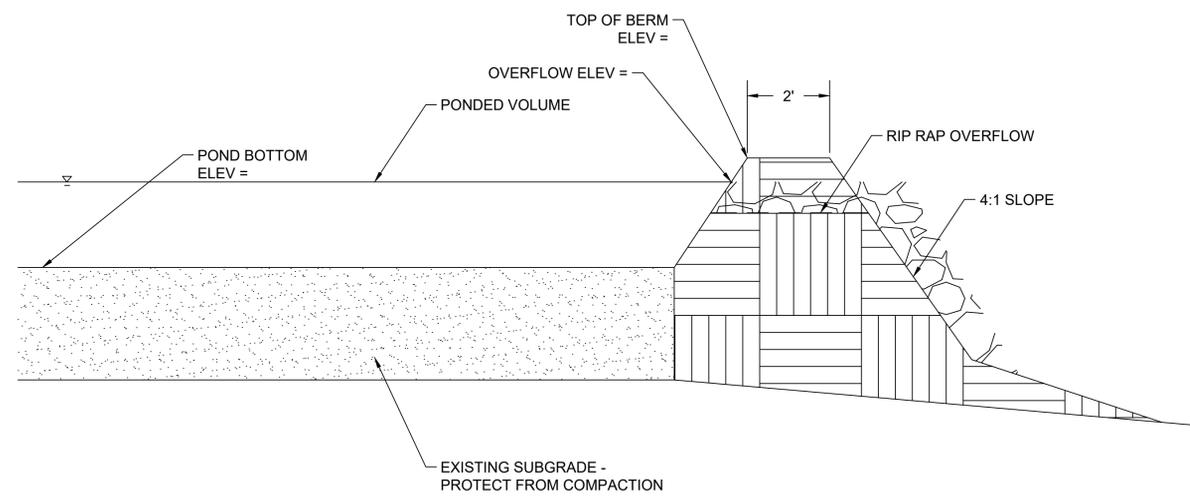
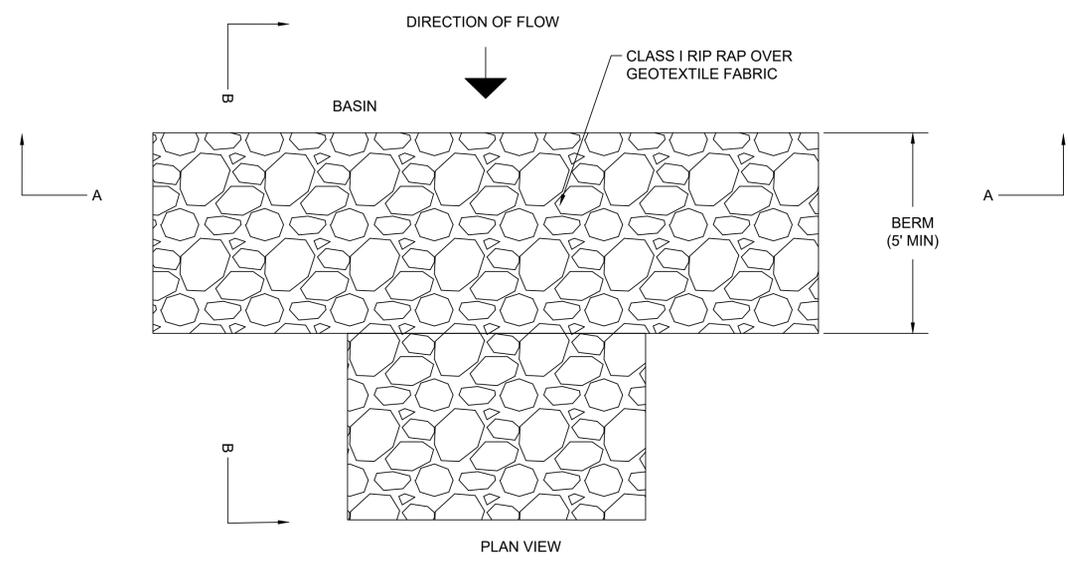
**DRAWN BY**  
JOSE TAVARES

**PROJECT NAME**  
DEVNEY CSG

**DRAWING TITLE**  
INFILTRATION BASIN DETAIL

**SCALE**<sup>1</sup>  
NTS 0 1" 2"

**SHEET**  
**PV4**



**1** INFILTRATION BASIN NTS

**2** RIP RAP OVERFLOW NTS

<sup>1</sup>DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.



**PLANTING SCHEDULE**

TYPE : BLACK HILLS SPRUCE

HEIGHT : 6' MIN WITHIN 3 YEARS OF PLANTING

NUMBER OF ROWS: 1

SPACING: 16' O.C.



NEW ENERGY EQUITY, LLC  
2530 RIVA ROAD, SUITE 200  
ANNAPOLIS, MD 21041  
NEWENERGYEQUITY.COM  
443-267-5012

PROJECT ADDRESS  
3869-3999 MN-19  
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LAT: 44.4737619461  
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**SYSTEM SPECIFICATIONS**

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MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

**DESIGN CRITERIA**

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EXPOSURE CATEGORY	C
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**OTHER NOTES**

CASE NUMBER 04124406

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INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

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7			

**DRAWN BY**

JOSE TAVARES

**PROJECT NAME**

DEVNEY CSG

**DRAWING TITLE**

TREE PLAN

**SCALE**<sup>1</sup>

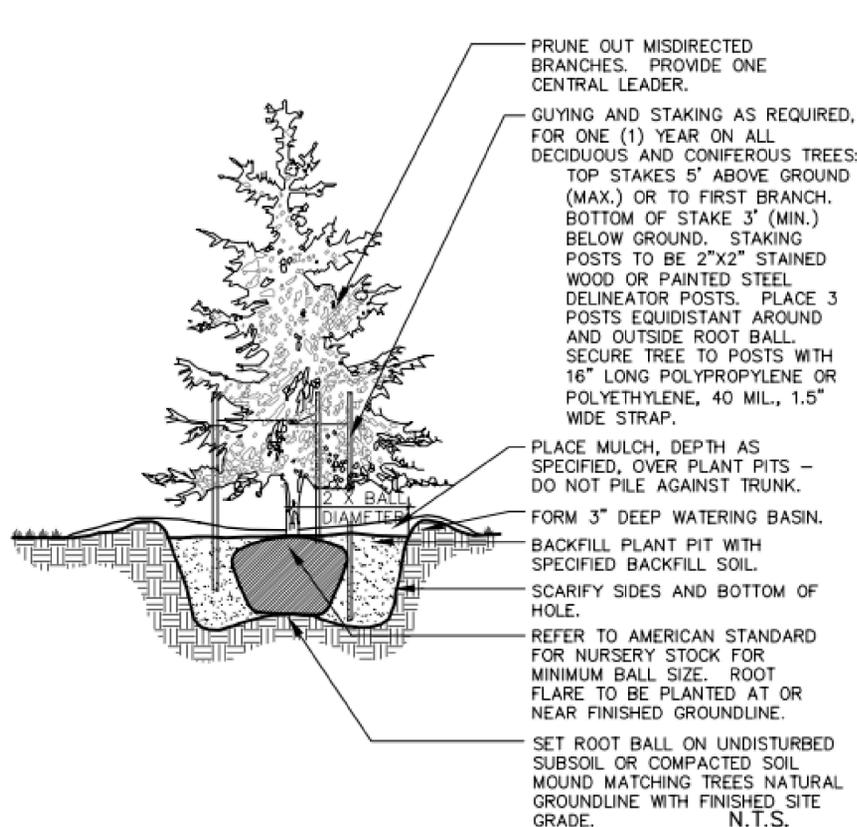
NTS 0 1" 2"

**SHEET**

PV5

**1 BLACK HILLS SPRUCE SCREENING**

Scale: N.T.S.



**3 PLAN VIEW**

Scale: N.T.S.

**2 EVERGREEN PLANTING DETAIL**

Scale: N.T.S.

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.

**SYSTEM SPECIFICATIONS**

SYSTEM SIZE DC	1.454 MW
SYSTEM SIZE AC	1.000 MW
DC/AC RATIO	1.454
AZIMUTH	180°
TILT	+/- 52°
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MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

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4			
5			
6			
7			

**DRAWN BY**

JOSE TAVARES

**PROJECT NAME**

DEVNEY CSG

**DRAWING TITLE**

ELECTRICAL DETAILS

**SCALE<sup>1</sup>**

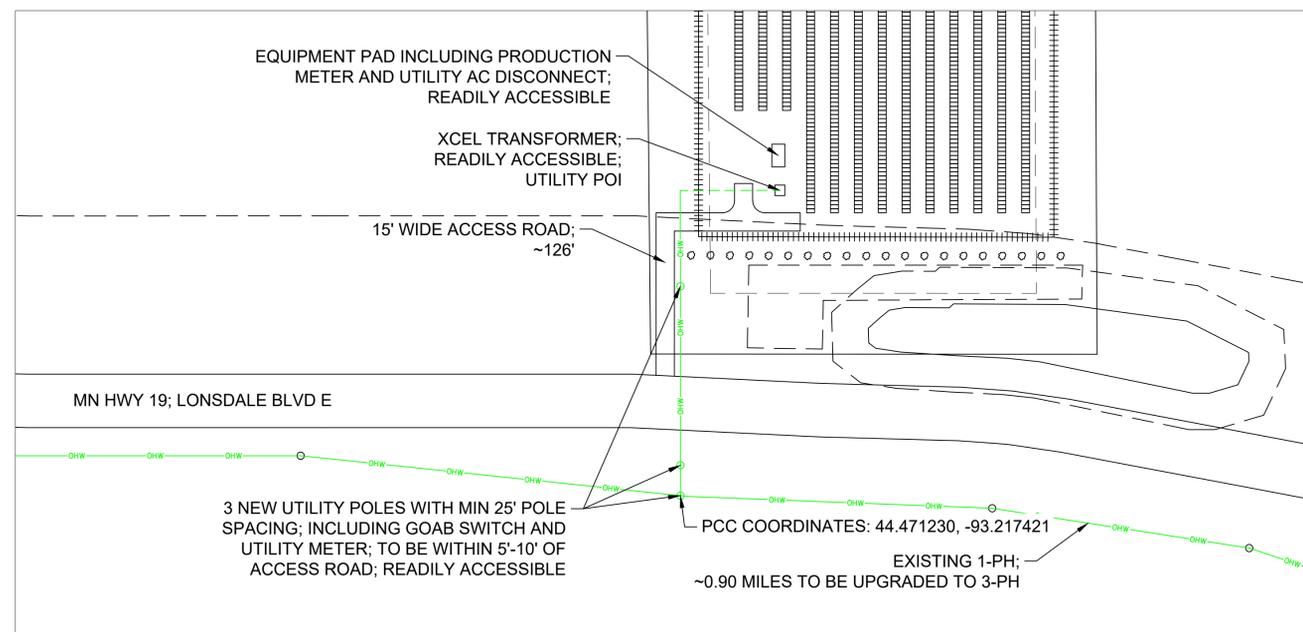
AS NOTED 0 1" 2"

**SHEET**

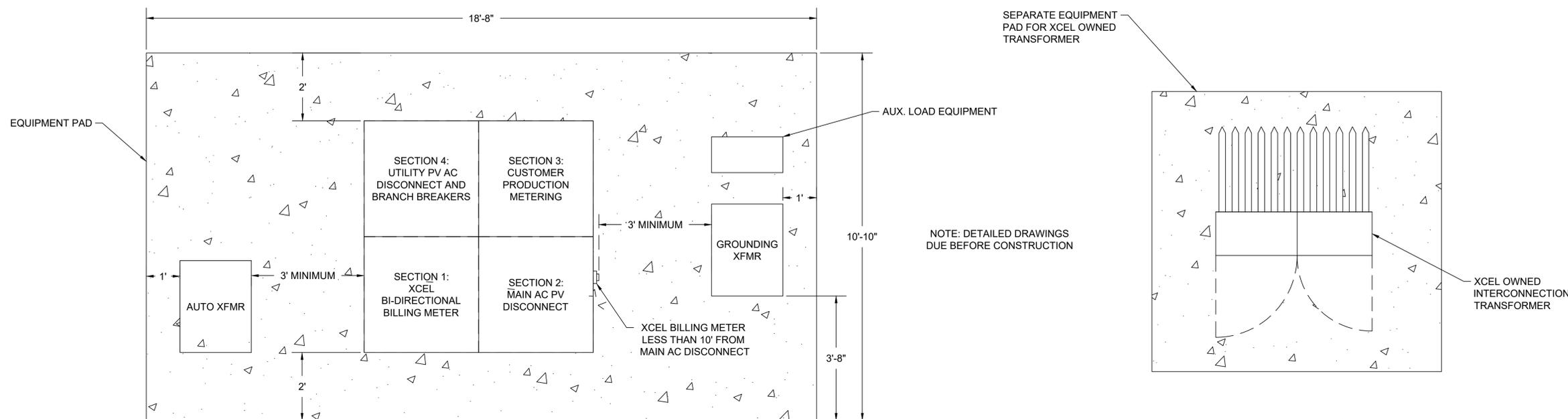
**E3**

**SHEET NOTES:**

- Overhead line to underground service conductors detail - provided by utility
- Fence Detail and Fence Grounding - provided in the civil engineering drawings



**1 INTERCONNECTION PLAN**  
Scale: 1" = 70'



**2 EQUIPMENT PAD PLAN**  
Scale: 3/4" = 1'

SPACE FOR PE STAMP:





### 100/125kW, 1500Vdc String Inverters for North America



CPS SCH100/125KTL-DO/US-600

The 100 & 125kW high power CPS three phase string inverters are designed for ground mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 99.1% peak and 98.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 100/125kW products ship with the Standard or Centralized Wire-box, each fully integrated and separable with AC and DC disconnect switches. The Standard Wire-box includes touch safe fusing for up to 20 strings. The CPS Flex Gateway enables communication, controls and remote product upgrades.

#### Key Features

- NFPA 70, NEC 2014 and 2017 compliant
- Touch safe DC Fuse holders adds convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 certified)
- kVA Headroom yields 100kW @ 0.9PF and 125kW @ 0.95PF
- Generous 1.87 and 1.5 DC/AC Inverter Load Ratios
- Separable wire-box design for fast service
- Standard 5 year warranty with extensions to 20 years



100/125KTL Standard Wire-box



100/125KTL Centralized Wire-box



© CHINT POWER SYSTEMS AMERICA 2020/01-MKT-NA

Chint Power Systems America  
6800 Kohl Center Parkway, Suite 232 Pleasanton, CA 94566  
Tel: 855-584-7168 Mail: AmericaSales@chintpowersys.com Web: www.chintpowersys.com



Technical Data

Model Name	CPS SCH100KTL-DO/US-600	CPS SCH125KTL-DO/US-600
DC Input		
Max. PV Power	187.5kW	
Max. DC Input Voltage	1500V	
Operating DC Input Voltage Range	860-1450Vdc	
Start-up DC Input Voltage / Power	900V / 250W	
Number of MPPT Trackers	1	
MPPT Voltage Range <sup>1</sup>	870-1300Vdc	
Max. PV Input Current (Isc x1.25)	275A	
Number of DC Inputs	20 PV source circuits, pos. & neg. fused (Standard Wire-box) 1 PV output circuit, 1-2 terminations per pole, non-fused (Centralized Wire-box)	
DC Disconnection Type	Load-rated DC switch	
DC Surge Protection	Type II MOV (with indicator/remote signaling), Up=2.5kV, In=20kA (8/20s)	
AC Output		
Rated AC Output Power	100kW	125kW
Max. AC Output Power <sup>2</sup>	100kVA (111kVA @ PF=0.9)	125kVA (132kVA @ PF=0.95)
Rated Output Voltage	600Vac	
Output Voltage Range <sup>3</sup>	528-660Vac	
Grid Connection Type <sup>4</sup>	3Ø / PE / N (Neutral optional)	
Max. AC Output Current @600Vac	96.2/106.8A	120.3/127.2A
Rated Output Frequency	60Hz	
Output Frequency Range <sup>5</sup>	57-63Hz	
Power Factor	>0.99 (±0.8 adjustable)	>0.99 (±0.8 adjustable)
Current THD	<3%	
Max. Peak Current Contribution (1-cycle RMS)	41.47A	175A
Max. OCPD Rating	150A	
AC Disconnection Type	Load-rated AC switch	
AC Surge Protection	Type II MOV (with indicator/remote signaling), Up=2.5kV, In=20kA (8/20s)	
System		
Topology	Transformerless	
Max. Efficiency	99.1%	
CEC Efficiency	98.5%	
Stand-by / Night Consumption	<4W	
Environment		
Enclosure Protection Degree	NEMA Type 4X	
Cooling Method	Variable speed cooling fans	
Operating Temperature Range	-22°F to +142°F / -30°C to +60°C (operating from +113°F / +45°C)	
Non-Operating Temperature Range <sup>6</sup>	-40°F to +158°F / -40°C to +70°C maximum	
Operating Humidity	0-100%	
Operating Altitude	6200ft (2000m) (see derating)	
Audible Noise	<65dB(A)@1m and 25°C	
Display and Communication		
User Interface and Display	LED Indicators, WiFi + APP	
Inverter Monitoring	Modbus RS485	
Site Level Monitoring	CPS Flex Gateway (1 per 32 inverters)	
Modbus Data Mapping	SunSpec/CPS	
Remote Diagnostics / FW Upgrade Functions	Standard / (with Flex Gateway)	
Mechanical		
Dimensions (WxHxD)	45.28x24.25x9.84in (1150x616x250mm) with Standard Wire-box 39.37x24.25x9.84in (1000x616x250mm) with Centralized Wire-box	
Weight	Inverter: 121lbs / 55kg; Wire-box: 52lbs / 23kg (Standard Wire-box); 33lbs / 15kg (Centralized Wire-box)	
Mounting / Installation Angle	15 - 90 degrees from horizontal (vertical or angled)	
AC Termination	M10 Stud Type Terminal Block (3Ø) (Wire range: 10AWG - 500kcmil CU/AL, Lugs not supplied) Screw Clamp Terminal Block (N) (#12 - 10AWG CU/AL)	
DC Termination	Screw Clamp Fuse Holder (Wire range: #12 - #6AWG CU) - Standard Wire-box Busbar, M8 PEMscrews (Wire range: #1AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box	
Fused String Inputs	15A or 20A fuses provided (Determined by product SKU)	
Safety	UL1741-SA-2016, CSA-C22.2 NO.107.1-01, EEE1567a-2014, FCC PART15	
Safety and EMC Standard	IEEE 1547a-2014, CA Rule 21, ISO-9E	
Sustainable Grid Standard	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt	
Smart-Grid Features		
Warranty	5 years	
Standard <sup>7</sup>	10, 15 and 20 years	
Extended Terms		

<sup>1</sup> See user manual for further information regarding MPPT Voltage Range when operating at non-unity PF  
<sup>2</sup> The "All-Apparent Power" rating refers to the MPPT voltage range and temperature range of 30°C to +40°C (20°F to +104°F) for 100kW PF 28 and 125kW PF 28.8  
<sup>3</sup> The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.  
<sup>4</sup> PE and N are optional.  
<sup>5</sup> See user manual for further requirements regarding non-operating conditions.  
<sup>6</sup> 5 year warranty effective for units purchased after October 1st, 2019.



NEW ENERGY EQUITY, LLC  
2530 RIVA ROAD, SUITE 200  
ANNAPOLIS, MD 21041  
NEWENERGYEQUITY.COM  
443-267-5012

PROJECT ADDRESS  
3869-3999 MN-19  
NORTHFIELD, MN 55057

LAT: 44.4737619461  
LONG: -93.2188576538

#### SYSTEM SPECIFICATIONS

SYSTEM SIZE DC	1.454 MW
SYSTEM SIZE AC	1,000 MW
DC/AC RATIO	1.454
AZIMUTH	180°
TILT	+/- 52°
MODULE COUNT	3825
MODULE TYPE	REC 380TP2SM 72
MODULE STC RATING	380 W
INVERTER COUNT	8
INVERTER TYPE	CPS SCA125KTL-DO/US
INVERTER POWER	125kW
RACKING	TBD
MONITORING	ALSO ENERGY

#### DESIGN CRITERIA

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BUILDING CATEGORY	I
EXPOSURE CATEGORY	C
GROUND SNOW LOAD	50 PSF
BUILDING HEIGHT	0'-0"

#### OTHER NOTES

CASE NUMBER 04124406

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INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

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#### DRAWN BY

JOSE TAVARES

#### PROJECT NAME

DEVNEY CSG

#### DRAWING TITLE

EQUIPMENT DOCUMENTS

#### SCALE<sup>1</sup>

NTS 0 1" 2"

#### SHEET

E4

SPACE FOR PE STAMP:

## REC TWINPEAK 25 MONO 72 SERIES

PREMIUM SOLAR PANELS  
100% MADE IN SINGAPORE

REC TwinPeak 25 Mono 72 Series solar panels feature an innovative design with high efficiency and an industry-leading light weight, yet robust construction, enabling customers to get the most out of the installation area.

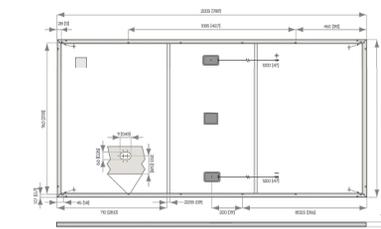
Combined with the product quality and reliability of a strong and established European brand, REC TwinPeak 25 Mono 72 Series panels are ideal for all types of commercial rooftop and utility installations worldwide.



#### INTEGRATED MANUFACTURING IN SINGAPORE



## REC TWINPEAK 25 MONO 72 SERIES



All measurements in mm [in]

Electrical Data @ STC	Product Code: RECxxxTP25M 72				
Nominal Power - P <sub>max</sub> (Wp)	360	365	370	375	380
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V <sub>mp</sub> (V)	39.4	39.6	39.8	40.1	40.3
Nominal Power Current - I <sub>mp</sub> (A)	9.14	9.22	9.30	9.36	9.43
Open Circuit Voltage - V <sub>oc</sub> (V)	47.4	47.6	47.8	48.0	48.2
Short Circuit Current - I <sub>sc</sub> (A)	9.74	9.82	9.85	9.96	10.05
Panel Efficiency (%)	17.9	18.2	18.4	18.7	18.9

Values at standard test conditions STC (airmass AM 1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 77°F (25°C). All test irradiance at 200 W/m<sup>2</sup> (AM 1.5) and cell temperature 77.23°C (at least 95% of the STC module efficiency will be achieved). \* Indicates the nominal power class P<sub>max</sub> at STC, and can be followed by the suffix XV for modules with a 500V maximum system rating.

Electrical Data @ NOCT	Product Code: RECxxxTP25M 72				
Nominal Power - P <sub>max</sub> (Wp)	271	274	278	282	286
Nominal Power Voltage - V <sub>mp</sub> (V)	36.6	36.8	37.0	37.3	37.5
Nominal Power Current - I <sub>mp</sub> (A)	7.39	7.45	7.51	7.56	7.62
Open Circuit Voltage - V <sub>oc</sub> (V)	44.1	44.3	44.4	44.6	44.8
Short Circuit Current - I <sub>sc</sub> (A)	7.87	7.93	7.96	8.05	8.12

Nominal cell operating temperature NOCT (NOCT: AM 1.5, irradiance 1000 W/m<sup>2</sup>, ambient temperature 45°C/109°F). \* Indicates the nominal power class P<sub>max</sub> at NOCT, and can be followed by the suffix XV for modules with a 500V maximum system rating.

CERTIFICATION	WARRANTY
UL 1703, Fire classification: Type 1 (2000 XXV, Type 2) 1000V, IEC 62109, IEC 62109, IEC 62109 (P2), IEC 62746 (Ammonia), IEC 62746 (Salt Mist Test), ISO 9001, ISO 14001, ISO 45001, CEHSES 18000, 2007	20 year product warranty 25 year linear power output warranty Max. performance degradation of 0.5% p.a. from 97.5% to year 1 See warranty conditions for further details.

18.9% EFFICIENCY

20 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY

TEMPERATURE RATINGS	
Nominal Operating Cell Temperature (NOCT)	44.9°C (112°F)
Temperature Coefficient of P <sub>max</sub>	-0.37%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.28%/°C
Temperature Coefficient of I <sub>sc</sub>	0.04%/°C

#### GENERAL DATA

Cell type:	144 half-cut monocrystalline PERC cells
Stringing:	Stringing of 24 cells in series
Glass:	0.13" (3.2mm) solar glass with anti-reflection surface treatment
Back Sheet:	Highly resistant polyester
Frame:	Anodized aluminum (silver)
Support bars:	Anodized aluminum (bonded to backsheet)
Junction Box:	IP67 rated with 3 bypass diodes
Connectors:	Tongjin TL-Cable Q15-F (4 mm <sup>2</sup> )
Drings:	Made in Singapore

#### MAXIMUM RATINGS

Operational Temperature:	-40 ~ +85°F (-40 ~ +80°C)
Maximum System Voltage:	1000 V / 1500 V*
Design Load:	(1) 75.2 lbs/ft <sup>2</sup> (3600 Pa)
Design Load:	(2) 33.4 lbs/ft <sup>2</sup> (1600 Pa)

\* Max Series Fuse Rating: 20A  
\* Max Reverse Current: 20A

#### MECHANICAL DATA

Dimensions:	763 x 394 x 1.2" (2005 x 1001 x 30mm)
Area:	216 ft <sup>2</sup> (20 m <sup>2</sup> )
Weight:	48.5 lbs (22 kg)

Note: Specifications subject to change without notice.



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