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PREPARED FOR:



700 Universe Blvd,
Juno Beach, FL 33408

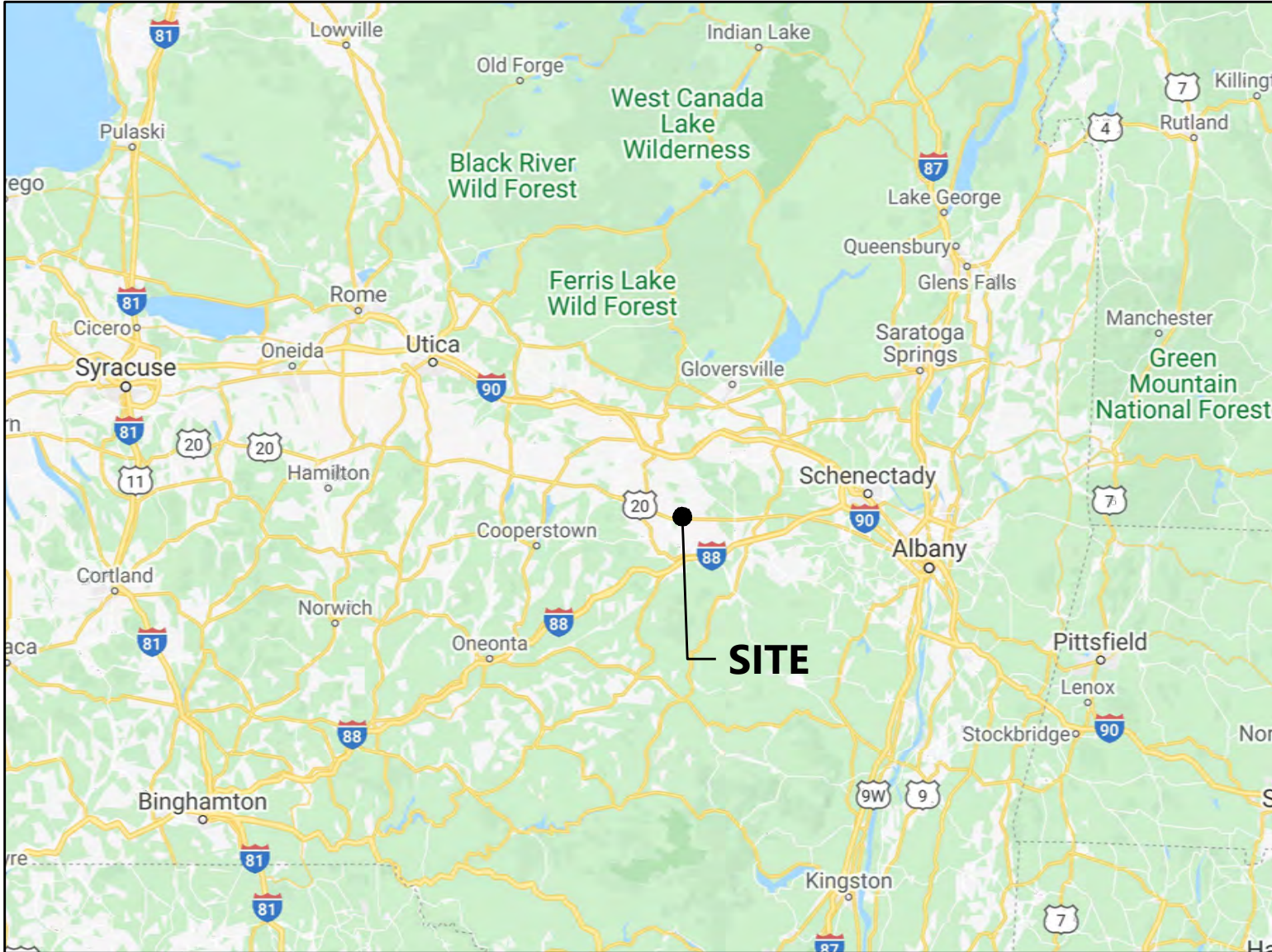
REVISIONS:		
#	DATE	COMMENT
0	06/26/24	ISSUED FOR RECORD

East Point Energy Center

Schoharie County, NY

Issued For Construction

REGIONAL MAP



SOURCE: MAP DATA © 2021 GOOGLE (NOT TO SCALE)

APPLICABLE ORGANIZATIONS & AUTHORITIES

ACI -	AMERICAN CONCRETE INSTITUTE
AISI -	AMERICAN IRON AND STEEL INSTITUTE
AISC -	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI -	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE -	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE -	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME -	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM -	AMERICAN SOCIETY OF TESTING AND MATERIALS
ETL -	ELECTRICAL TESTING LABORATORIES
IAEI -	INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS
IEEE -	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS ICC INTERNATIONAL CODE COUNCIL
ICEA -	INSULATED CABLE ENGINEERS ASSOCIATION
IEC -	INTERNATIONAL ELECTRO-TECHNICAL COMMISSION
IPMVP -	INTERNATIONAL PERFORMANCE MEASUREMENTS AND VERIFICATION PROTOCOL
ISA -	INTERNATIONAL SOCIETY OF AUTOMATION
NEC -	NATIONAL ELECTRICAL CODE (2017)
NEMA -	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC -	NATIONAL ELECTRICAL SAFETY CODE
NFPA -	NATIONAL FIRE PROTECTION ASSOCIATION
NIST -	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
OSHA -	OCCUPATIONAL SAFETY HEALTH ADMINISTRATION
UL -	UNDERWRITERS LABORATORIES

CONTACT INFORMATION			
CONSULTANT	COMPANY	NAME	PHONE NUMBER
PROJECT MANAGER	WESTWOOD	JACK HAYS	972-265-4871
ENGINEER OF RECORD	WESTWOOD	DOUGLAS MUTCHERS	952-697-5709
CLIENT	NEXTERA	JOE CARTAYA	561-604-4529
ENVIRONMENTAL CONSULTANT	TRC	SAMANTHA KRANES	315-362-2415

VICINITY MAP



SOURCE: MAP DATA © 2021 GOOGLE (NOT TO SCALE)

APPLICABLE CODES & STANDARDS

NFPA 70, THE NATIONAL ELECTRIC CODE AS ADOPTED AND AMENDED BY THE AHJ (2017)
NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE (2021)
ANSI C2, THE NATIONAL ELECTRICAL SAFETY CODE (2017)
IEC 61215 CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES - DESIGN QUALIFICATION AND TYPE APPROVAL (2005)
UL 1741 INVERTERS, CONVERTERS, CONTROLLERS AND INTERCONNECTION SYSTEM EQUIPMENT FOR USE WITH DISTRIBUTED ENERGY RESOURCES (2010)
IEEE 1547 STANDARD FOR INTERCONNECTING DISTRIBUTED RESOURCES WITH ELECTRIC POWER SYSTEMS (2018)
ANSI C57.12.00 GENERAL REQUIREMENTS FOR LIQUID-IMMERSED DISTRIBUTION, POWER, AND REGULATING TRANSFORMERS (2010)
IBC INTERNATIONAL BUILDING CODE, AS ADOPTED AND AMENDED BY THE AHJ (2012)

PROJECT SITE INFORMATION	
SITE ADDRESS	SHARON SPRING, NY
GPS COORDINATES	LAT/LONG: 42.7786/-74.5661
SITE ELEVATION	427m OR 1400.9FT
PROJECT SIZE	83.26 MVdc/50MVAac (AT POI)

RECORD DRAWINGS

INFORMATION SHOWN ON THESE PLANS CONFORMS
TO CONSTRUCTION RECORDS PROVIDED BY:
NextEra Energy Inc. 2024-06-19
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East Point Energy Center

Schoharie County, New York

Cover

DATE: 06/26/2024

SHEET: E.100

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E.900	Trina Module Datasheet
E.901	JA Module Datasheet
E.902	Inverter Datasheet
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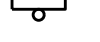
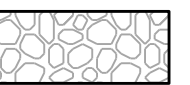
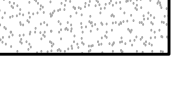
Schoharie County, New York

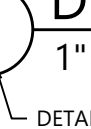
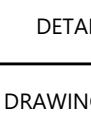
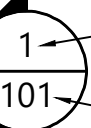
Sheet Index

DATE: 06/26/2024

SHEET: E.101

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ELECTRICAL SYMBOLOGY		ELECTRICAL SYMBOLOGY		ABBREVIATIONS								MATERIALS IN PLAN/SECTION		NOTES: 1. THIS IS A STANDARD SET OF ELECTRICAL SYMBOLS USED ON THIS PROJECT. 2. THESE SYMBOLS ARE BASED ON THE 2018 NATIONAL ELECTRICAL CODE (NEC). 3. SCREENING OF EXISTING CONDITIONS SHALL BE REFERRED TO CONTRACTOR WITH AHI W/18-001.
	MOTOR		COMBINER BOX	A, AMP	AMPERAGE	EL	ELEVATION	PH,Φ	PHASE		RIPRAP (PLAN AND/OR SECTION)			
	FUSE		MET STATION AT INVERTER SKID	A/E	ARCHITECT/ENGINEER	ELEC	ELECTRIC/ELECTRICAL	PIL	SUPPORT PILE		CONCRETE (PLAN AND/OR SECTION)			
	SWITCH/DISCONNECT		SOILING STATION AT INVERTER SKID	AAT	AMBIENT AIR TEMPERATURE SENSOR	EMT	ELECTRICAL METAL TUBING	PL	PROPERTY LINE		GRANULAR FILL (SECTION)			
	FUSED SWITCH/DISCONNECT		MV JUNCTION/SPLICER BOX	ABAN	ABANDON	ENGR	ENGINEER	PLC	PROGRAMMABLE LOGIC CONTROLLER		UNDISTURBED EARTH (SECTION)			
	BREAKER			ABC	AGGREGATE BASE COURSE	EOP	EDGE OF PAVEMENT	PLS	POLE - STEEL		COMPACTED EARTH (SECTION)			
	GANG-OPERATED AIRBREAK SWITCH			AC	ALTERNATING CURRENT	EQ	EQUAL	PLW	POLE - WOOD		SAND (SECTION)			
	TRANSFORMER			ACC	ASPHALTIC CONCRETE PAVEMENT	EQUIP	EQUIPMENT	PNL	PANEL					
	SURGE ARRESTOR			ADDL	ADDITIONAL	EST	ESTIMATE	PROP	PROPERTY/PROPOSED					
	NON-LOAD BREAK ELBOW			ADJ	ADJUSTABLE/ADJACENT	EXC	EXCAVATION	PVC	POLYVINYL CHLORIDE					
	LOAD BREAK ELBOW			ARCI	ARC FAULT CIRCUIT INTERRUPTER	EXIST	EXISTING	PVMT	PAVEMENT					
	DRAW OUT MV CIRCUIT BREAKER			AF	ABOVE FINISH FLOOR	F	FUSE	PWR	POWER					
	FAULT INDICATOR			AFG	ABOVE FINISH GRADE	FBO	FURNISHED BY OTHERS	QTY	QUANTITY					
	3-PHASE: GROUNDED WYE			AGGR	AGGREGATE	FG	FINISHED GRADE	R	RADIUS					
	3-PHASE: UNGROUNDED WYE			AIC	AMPS INTERRUPTING CAPACITY	FLR	FLOOR	R&R	REMOVE AND REPLACE					
	3-PHASE: DELTA			AL	ALUMINUM	FLUOR	FLUORESCENT	R&S	REMOVE AND SALVAGE					
	3-PHASE: CORNER GROUNDED DELTA			ALIG	ALIGNMENT	FOC	FACE OF CONCRETE/CURB	RCB	RECOMBINER BOX					
	3-PHASE: CENTER GROUNDED DELTA			ALT	ALTERNATE	FOPP	FIBER OPTIC PATCH PANEL	RCPT	RECEPTACLE					
	HANDHOLE			ANE	ANEMOMETER	FT	FEET/FOOT	RCT	REACTOR					
	POWER METER			ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FUT	FUTURE	REF	REFERENCE					
	PV MODULE SERIES STRING			APRX	APPROXIMATE	GEN	GENERAL	REL	RELAY					
	INVERTER			APVD	APPROVED	GFI	GROUND FAULT INTERRUPTER	REQD	REQUIRED					
	CURRENT TRANSFORMER			ARCH	ARCHITECTURAL	GRND	GROUND CONDUCTOR	RET	RETAINING					
	POTENTIAL TRANSFORMER			ASSY	ASSEMBLY	GR	GRADE	REV	REVISION					
	IDENTIFIER FOR # OF DC CIRCUITS			ATS	AUTOMATIC TRANSFER SWITCH	GSW	GANG-OPERATED SWITCH	RGH	ROUGH					
				AUTO	AUTOMATIC	GVL	GRAVEL	RM	ROOM					
				AUX	AUXILIARY	HORIZ	HORIZONTAL	RMT	REVENUE METER					
				AWG	AMERICAN WIRE GAUGE	HP	HORSE POWER	RTU	SURGE ARRESTOR					
				BAT	BATTERY	HPY	HORIZONTAL PYRANOMETER	SA	SANITARY					
				BITUM	BITUMINOUS	HT	HEIGHT	SAN	SANITARY					
				BKR	BREAKER	HZ	HERTZ	SC	SEPARABLE CONNECTOR					
				BL	BASE LINE	INV	INVERTER	SCHED	SCHEDULE					
				BLDG	BUILDING	ID	INSIDE DIAMETER	SD	STORM DRAIN					
				BMP	BEST MANAGEMENT PRACTICE	IE	INVERT ELEVATION	SECT	SECTIONALIZER					
				BOC	BACK OF CURB	IMC	INTERMEDIATE METALLIC CONDUIT	SHT	SHEET					
				BRD	BOARD	IN	INCH	SL	SLOPE					
				BUS	BUS CONDUCTOR	INS	INSULATOR	SOG	SLAB ON GRADE					
				C	CONDUIT	ISA	INTERNATIONAL SOCIETY OF AUTOMATION	SPD	SURGE PROTECTOR DEVICE					
				C&G	CURB AND GUTTER	JB	JUNCTION BOX (J-BOX)	SPEC	SPECIFICATION					
				CAB	CABINET	JBM	JUNCTION BOX - MEDIUM VOLTAGE	SQ	SQUARE					
				CB	CIRCUIT BREAKER	JMP	JUMPER CONDUCTOR	SQ FT	SQUARE FEET					
				CBL	CABLE	KO	KNOCKOUT	STA	STATION					
				CCB	CONCRETE BLOCK	KV	KILOVOLT	STD	STANDARD					
				CCTV	CLOSED CIRCUIT TELEVISION	kVA	KILOVOLT AMPERE	STL	STRUCTURAL STEEL					
				CE	CONCRETE EDGE	kVAR	KILOVOLT AMPERE REACTIVE	SW	SWITCH					
				CF	CUBIC FOOT/FEET	kW	KILOWATT	SWBD	SWITCHBOARD					
				CHGR	BATTERY CHARGER	kWH	KILOWATT HOUR	SWF	SWITCH - FUSED					
				CIP	CAST-IN-PLACE	LAR	LIGHTNING ARRESTOR	SWG	MEDIUM VOLTAGE SWITCHGEAR					
				CL	CENTERLINE	LATL	LATERAL	SY	SQUARE YARD					
				CLM	CELLULAR MODEM	LBS	POUNDS	SYS	SYSTEM					
				CLR	CLEAR, CLEARANCE	LP	LOWPOINT	T&B	TOP AND BOTTOM					
				CBX	COMBINER BOX	LT	LIGHT	TB	TAP BOX					
				CMP	CORRUGATED METAL PIPE	LTG	LIGHTING	TC	TRACKER CONTROLLER					
				CMT	CHECK METER	LV	LOW VOLTAGE	TEL	TELEPHONE					
				CMU	CONCRETE MASONRY UNIT	MA	MILLIAMPERE	THS	THERMAL SENSOR					
				CNT	CONDUIT	MATL	MATERIAL	TM	TRACKER MOTOR					
				CO	CLEANOUT	MAX	MAXIMUM	TOB	TOP OF BERM					
				CONC	CONCRETE	MBR	MAIN BREAKER	TOC	TOP OF CURB					
				CONN	CONNECTION	MCB	MAIN CIRCUIT BREAKER	TOPO	TOPOGRAPHY					
				CONST	CONSTRUCTION	MCC	MOTOR CONTROL CENTER	TOS	TOP OF SLAB/TOE OF SLOPE					
				CONTR	CONTRACTOR	MET	METERING STATION	TT	TORQUE TUBE					
				CPC	CAPACITOR BANK	MFR	MANUFACTURER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR					
				CTR	CURRENT TRANSFORMER	MIN	MINIMUM	TYP	TYPICAL					
				CTRL	CONTROL	MLO	MAIN LUG ONLY	UCT	UNDERGROUND CABLE TERMINATION					
				CU	COPPER	MON	MONUMENT	UG	UNDERGROUND					
				DAM	DATA ACQUISITION MODULE	MPNL	METER PANEL	UNO	UNLESS NOTED OTHERWISE					
				DAS	DATA ACQUISITION SYSTEM	MTD	MOUNTED	UPS	UNINTERRUPTIBLE POWER SUPPLY					
				DC	DIRECT CURRENT	MTR	METER	UTIL	UTILITY					
				DCA	DISCONNECT - AC	NA	NOT APPLICABLE	V	VOLT					
				DCD	DISCONNECT - DC	NC	NORMALLY CLOSED	VA	VOLT AMPERE					
				DCF	DISCONNECT - FUSED	NDS	NIGHTTIME DISCONNECT SWITCH	VT	VOLTAGE TRANSFORMER					
				DCH	DISCONNECT - HIGH VOLTAGE	NO	NORMALLY OPEN	W	WATT					
				DCM	DISCONNECT - MEDIUM VOLTAGE	NTS	NOT TO SCALE	W/	WITH					
				DCI	COMBINER INPUT AT INVERTER	OC	ON CENTER	W/O	WITHOUT					
				DEMO	DEMOLITION	OHC	OVERHEAD CONDUCTOR	WP	WEATHERPROOF					
				DIA	DIAMETER	PAP	PLANE OF ARRAY PYRANOMETER	WS	WEATHER STATION					
				DISC	DISCONNECT	PB	PUSHBUTTON	WSS	WIND STOW SWITCHES					
				DTL	DETAIL	PCC	PORTLAND CONCRETE PAVEMENT	WVA	WEATHER VANE					
				DWG	DRAWING	PEN	ROOF PENETRATION	XFMR	TRANSFORMER					
				EA	EACH	PED	PEDESTAL	XSECT	CROSS SECTION					
						PF	POWER FACTOR							

GENERAL SYMBOLOGY	
	NORTH ARROW
	KEYNOTE
	CONDUCTOR ID
DETAIL TITLE	
	Drawing Title 1"=20' SCALE DETAIL NUMBER
DETAIL CALLOUT	
	DETAIL NUMBER DRAWING NUMBER
SECTION CALLOUT	
	DETAIL NUMBER DRAWING NUMBER
ELEVATION CALLOUT	
	DETAIL NUMBER DRAWING NUMBER

A, AMP
A/E
AAT
ABAN
ABC
AC
ACC
ADDL
ADJ
AFCI
AFF
AFG
AGGR
AIC
AL
ALIG
ALT
ANE
ANSI
APRX
APVD
ARCH
ASSY
ATS
AUTO
AUX
AWG
BAT
BITUM
BKR
BL
BLDG
BMP
BOC
BRD
BUS
C
C&G
CAB
CB, CBK
CBL
CCB
CCTV
CE
CF
CHGR
CIP
CL
CLM
CLR
CBX
CMP
CMT
CMU
CNT
CO
CONC
CONN
CONST
CONTR
CPC
CT
CTR
CTRL
CU
DAM
DAS
DC
DCA
DCD
DCF
DCH
DCM
DCI
DEMO
DIA
DISC
DTL
DWG
EA

AMPERAGE
ARCHITECT/ENGINEER
AMBIENT AIR TEMPERATURE SENSOR
ABANDON
AGGREGATE BASE COURSE
ALTERNATING CURRENT
ASPHALTIC CONCRETE PAVEMENT
ADDITIONAL
ADJUSTABLE/ADJACENT
ARC FAULT CIRCUIT INTERRUPTER
ABOVE FINISH FLOOR
ABOVE FINISH GRADE
AGGREGATE
AMPS INTERRUPTING CAPACITY
ALUMINUM
ALIGNMENT
ALTERNATE
ANEMOMETER
AMERICAN NATIONAL STANDARDS INSTITUTE
APPROXIMATE
APPROVED
ARCHITECTURAL
ASSEMBLY
AUTOMATIC TRANSFER SWITCH
AUTOMATIC
AUXILIARY
AMERICAN WIRE GAUGE
BATTERY
BITUMINOUS
BREAKER
BASE LINE
BUILDING
BEST MANAGEMENT PRACTICE
BACK OF CURB
BOARD
BUS CONDUCTOR
CONDUIT
CURB AND GUTTER
CABINET
CIRCUIT BREAKER
CABLE
CONCRETE BLOCK
CLOSED CIRCUIT TELEVISION
CONCRETE EDGE
CUBIC FOOT/FEET
BATTERY CHARGER
CAST-IN-PLACE
CENTERLINE
CELLULAR MODEM
CLEAR, CLEARANCE
COMBINER BOX
CORRUGATED METAL PIPE
CHECK METER
CONCRETE MASONRY UNIT
CONDUIT
CLEANOUT
CONCRETE
CONNECTION
CONSTRUCTION
CONTRACTOR
CAPACITOR BANK
CURRENT TRANSFORMER
CENTER
CONTROL
COPPER
DATA ACQUISITION MODULE
DATA ACQUISITION SYSTEM
DIRECT CURRENT
DISCONNECT - AC
DISCONNECT - DC
DISCONNECT - FUSED
DISCONNECT - HIGH VOLTAGE
DISCONNECT - MEDIUM VOLTAGE
COMBINER INPUT AT INVERTER
DEMOLITION
DIAMETER
DISCONNECT
DETAIL
DRAWING
EACH

EL
ELEC
EMT
ENGR
EOP
EQ
EQUIP
EST
EXC
EXIST
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FBO
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FLR
FLUOR
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FOPP
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LTG
LV
MA
MATL
MAX
MBR
MCB
MCC
MET
MFR
MIN
MLO
MON
MPNL
MTD
MTR
NA
NC
NDS
NO
NTS
OC
OHC
PAP
PB
PCC
PEN
PED
PF

ELEVATION
ELECTRIC/ELECTRICAL
ELECTRICAL METAL TUBING
ENGINEER
EDGE OF PAVEMENT
EQUAL
EQUIPMENT
ESTIMATE
EXCAVATION
EXISTING
FUSE
FURNISHED BY OTHERS
FINISHED GRADE
FLOOR
FLUORESCENT
FACE OF CONCRETE/CURB
FIBER OPTIC PATCH PANEL
FEET/FOOT
FUTURE
GENERAL
GROUND FAULT INTERRUPTER
GROUND CONDUCTOR
GRADE
GANG-OPERATED SWITCH
GRAVEL
HORIZONTAL
HORSE POWER
HORIZONTAL PYRANOMETER
HEIGHT
HERTZ
INVERTER
INSIDE DIAMETER
INVERT ELEVATION
INTERMEDIATE METALLIC CONDUIT
INCH
INSULATOR
INTERNATIONAL SOCIETY OF AUTOMATION
JUNCTION BOX (J-BOX)
JUNCTION BOX - MEDIUM VOLTAGE
JUMPER CONDUCTOR
KNOCKOUT
KILOVOLT
KILOVOLT AMPERE
KILOVOLT AMPERE REACTIVE
KILOWATT
KILOWATT HOUR
LIGHTNING ARRESTOR
LATERAL
POUNDS
LOWPOINT
LIGHT
LIGHTING
LOW VOLTAGE
MILLIAMPERE
MATERIAL
MAXIMUM
MAIN BREAKER
MAIN CIRCUIT BREAKER
MOTOR CONTROL CENTER
METERING STATION
MANUFACTURER
MINIMUM
MAIN LUG ONLY
MONUMENT
METER PANEL
MOUNTED
METER
NOT APPLICABLE
NORMALLY CLOSED
NIGHTTIME DISCONNECT SWITCH
NORMALLY OPEN
NOT TO SCALE
ON CENTER
OVERHEAD CONDUCTOR
PLANE OF ARRAY PYRANOMETER
PUSHBUTTON
PORTLAND CONCRETE PAVEMENT
ROOF PENETRATION
PEDESTAL
POWER FACTOR

PH,Φ
PIL
PL
PLC
PLS
PLW
PNL
PROP
PVC
PVMT
PWR
QTY
R
R&R
R&S
RCB
RCPT
RCT
REF
REL
REQD
RET
REV
RGH
RM
RMT
RTU
SA
SAN
SC
SCHED
SD
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SOG
SPD
SPEC
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SQ FT
STA
STD
STL
SW
SWBD
SWF
SWG
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TEL
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TM
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TOC
TOPO
TOS
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TVSS
TYP
UCT
UG
UNO
UPS
UTIL
V
VA
VT
W
W/
W/O
WP
WS
WSS
WVA
XFMR
XSECT

PHASE
SUPPORT PILE
PROPERTY LINE
PROGRAMMABLE LOGIC CONTROLLER
POLE - STEEL
POLE - WOOD
PANEL
PROPERTY/PROPOSED
POLYVINYL CHLORIDE
PAVEMENT
POWER
QUANTITY
RADIUS
REMOVE AND REPLACE
REMOVE AND SALVAGE
RECOMBINER BOX
RECEPTACLE
REACTOR
REFERENCE
RELAY
REQUIRED
RETAINING
REVISION
ROUGH
ROOM
REVENUE METER
RTU
SURGE ARRESTOR
SANITARY
SEPARABLE CONNECTOR
SCHEDULE
STORM DRAIN
SECTIONALIZER
SHEET
SLOPE
SLAB ON GRADE
SURGE PROTECTOR DEVICE
SPECIFICATION
SQUARE
SQUARE FEET
STATION
STANDARD
STRUCTURAL STEEL
SWITCH
SWITCHBOARD
SWITCH - FUSED
MEDIUM VOLTAGE SWITCHGEAR
SQUARE YARD
SYSTEM
TOP AND BOTTOM
TAP BOX
TRACKER CONTROLLER
TELEPHONE
THERMAL SENSOR
TRACKER MOTOR
TOP OF BERM
TOP OF CURB
TOPOGRAPHY
TOP OF SLAB/TOE OF SLOPE
TORQUE TUBE
TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYPICAL
UNDERGROUND CABLE TERMINATION
UNDERGROUND
UNLESS NOTED OTHERWISE
UNINTERRUPTIBLE POWER SUPPLY
UTILITY
VOLT
VOLT AMPERE
VOLTAGE TRANSFORMER
WATT
WITH
WITHOUT
WEATHERPROOF
WEATHER STATION
WIND STOW SWITCHES
WEATHER VANE
TRANSFORMER
CROSS SECTION

RIPRAP (PLAN AND/OR SECTION)

CONCRETE (PLAN AND/OR SECTION)

GRANULAR FILL (SECTION)

UNDISTURBED EARTH (SECTION)

COMPACTED EARTH (SECTION)

SAND (SECTION)

PLAN WIRE SYMBOLOGY

CHAIN LINK SECURITY FENCE

INVERTER BLOCK BOUNDARY

COMBINER BOX BOUNDARY

DC WIRING

COMMUNICATION CABLE

(#3 AWG) GROUND CONDUCTOR FOR MEDIUM VOLTAGE

(#3 AWG) GROUND CONDUCTOR FOR DC HOMERUNS

(#6 AWG) GROUND CONDUCTOR FOR TRACKERS

(4/0) GROUND CONDUCTOR FOR GROUND RING

UNDERGROUND MVAC CIRCUIT 11

UNDERGROUND MVAC CIRCUIT 12

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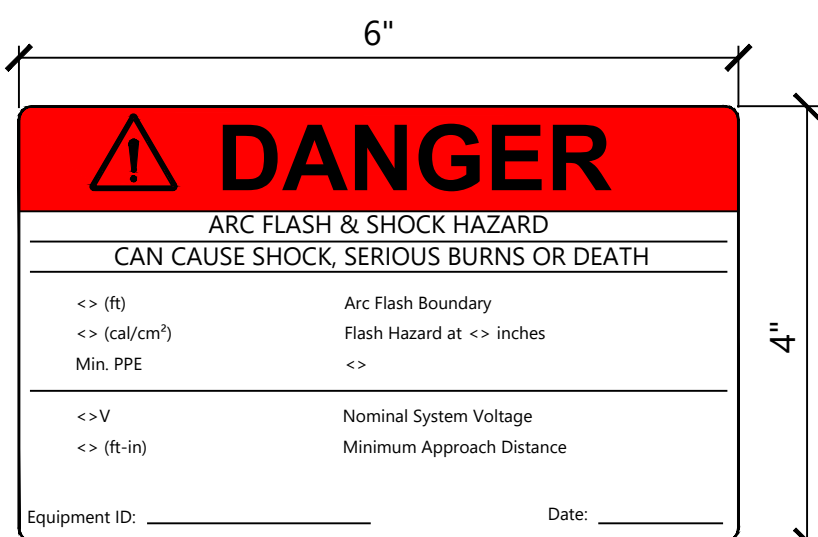
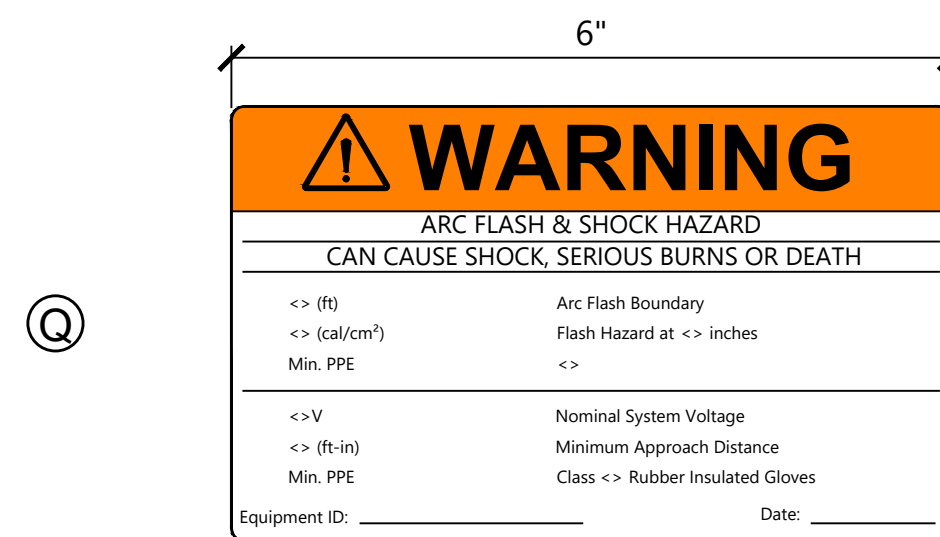
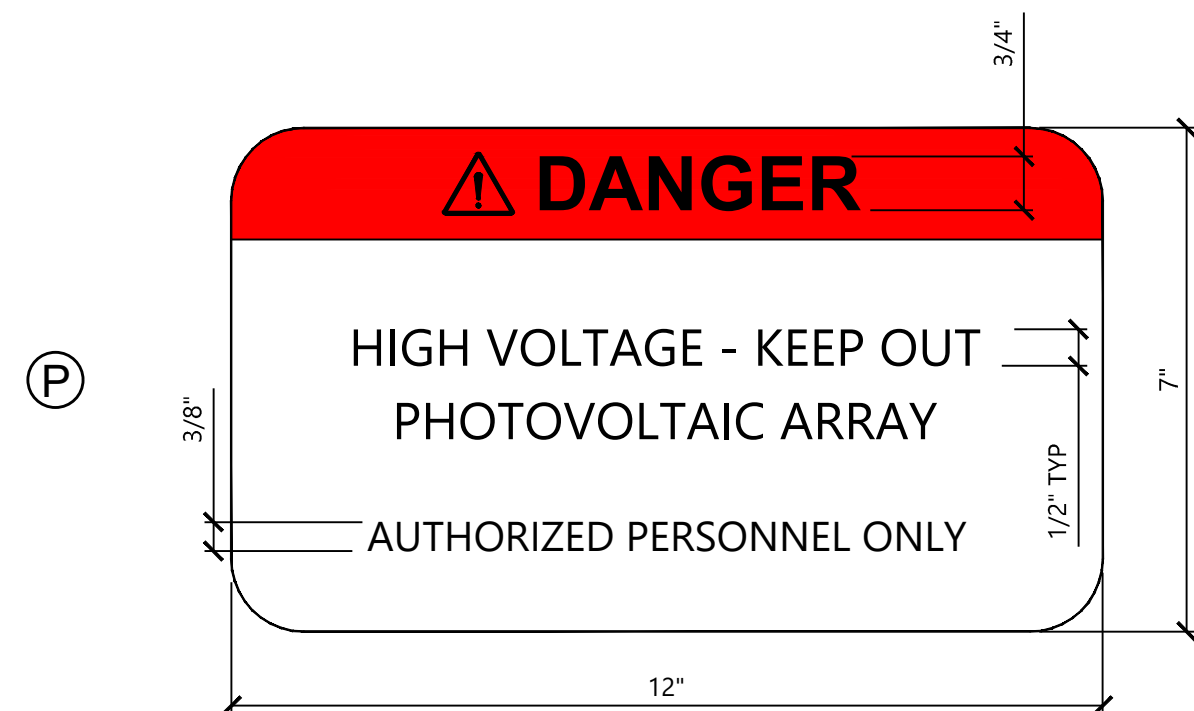
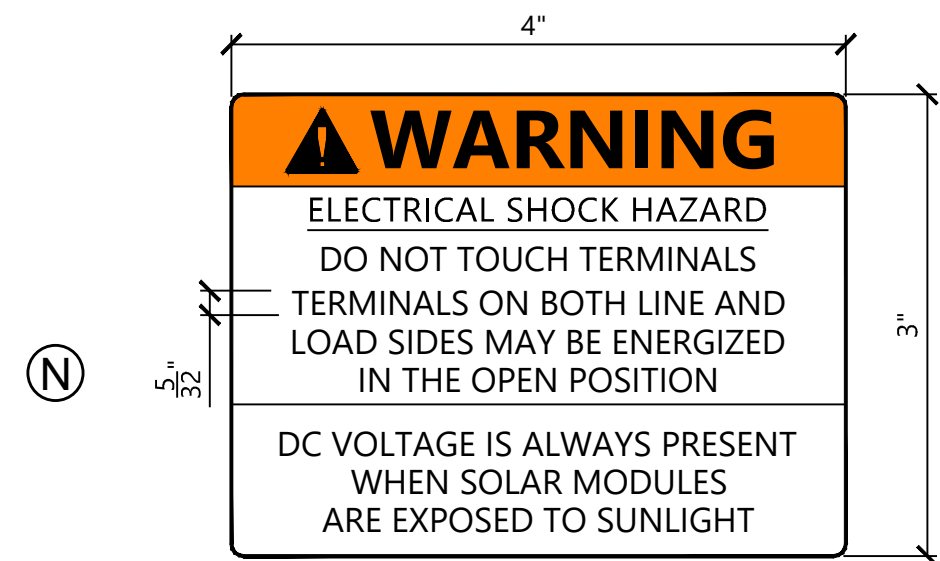
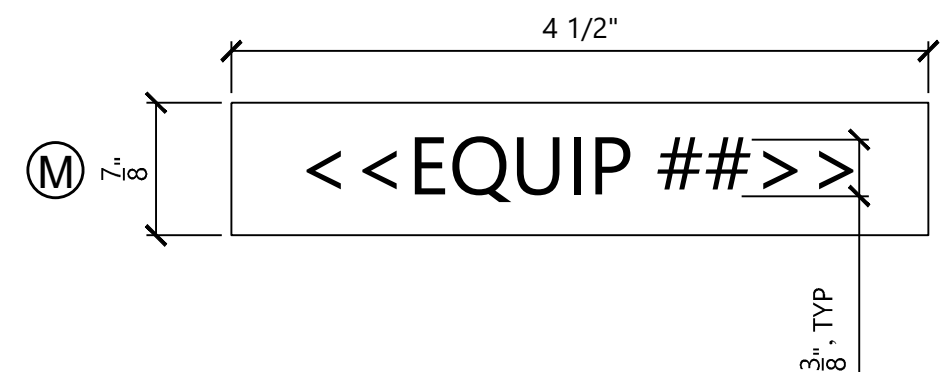
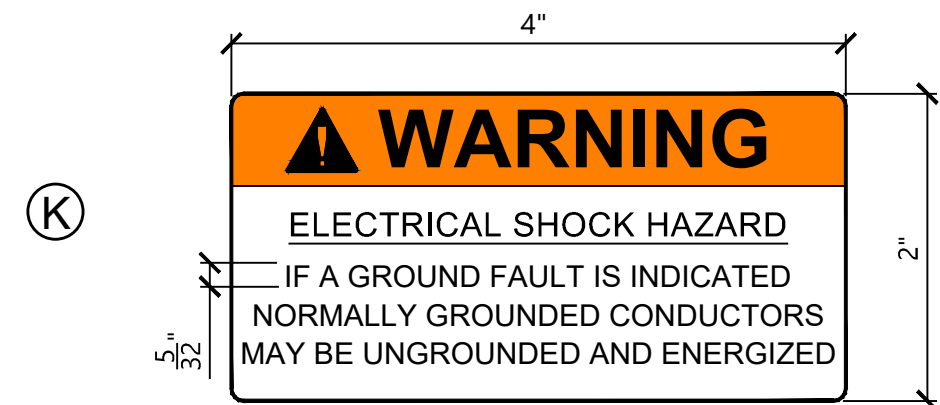
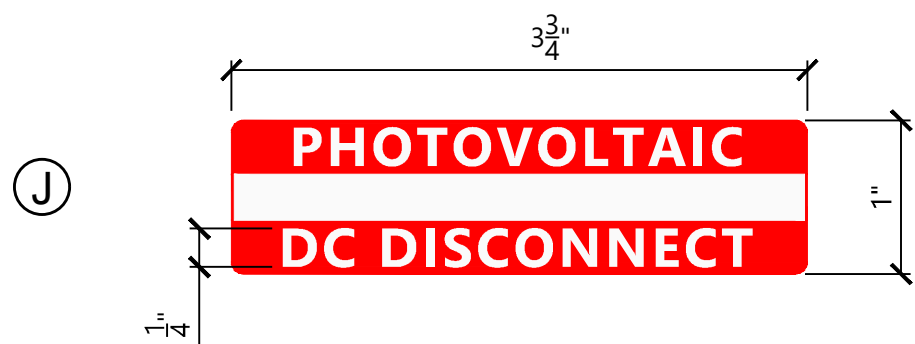
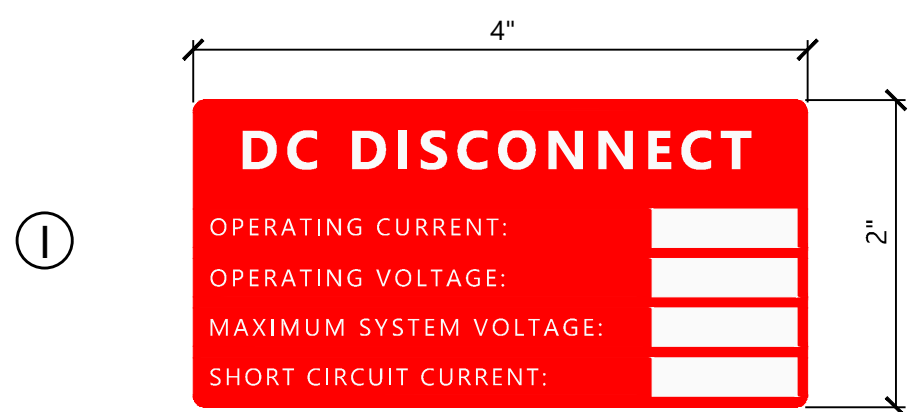
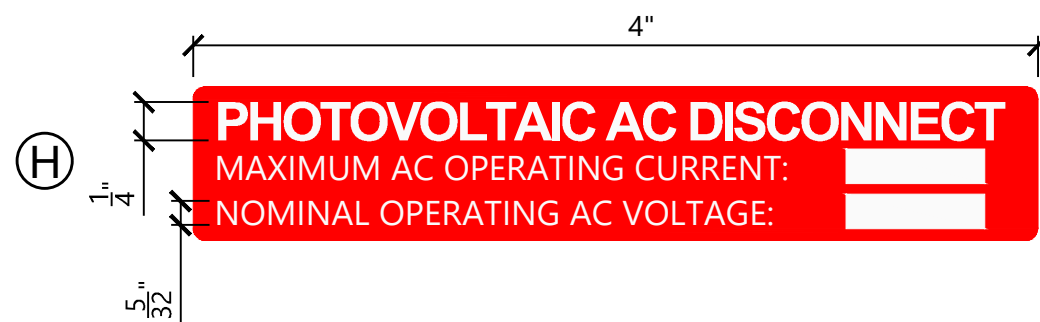
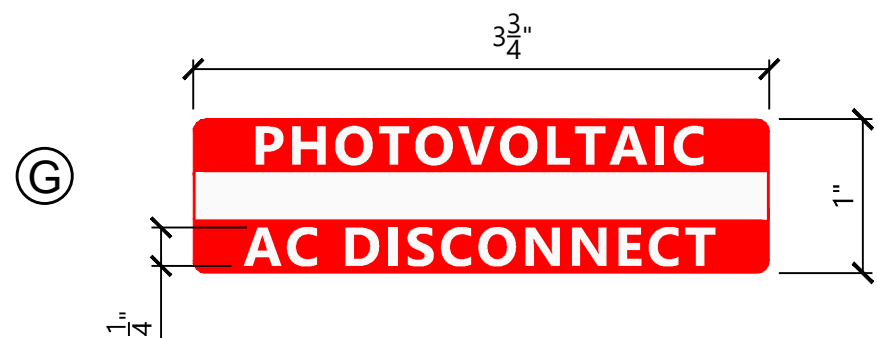
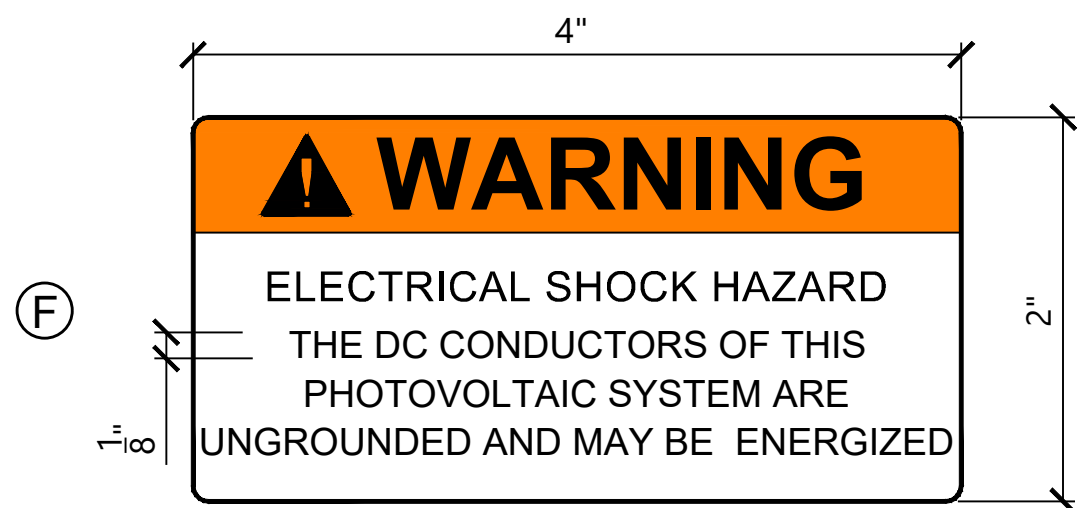
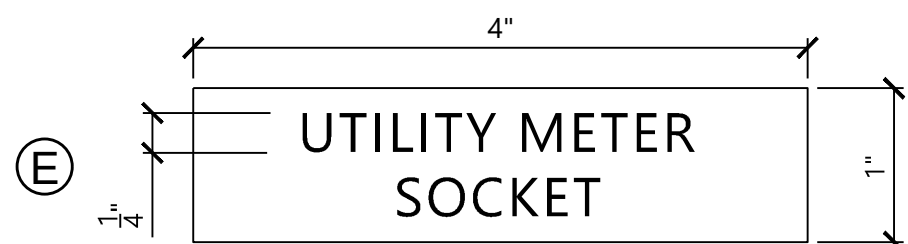
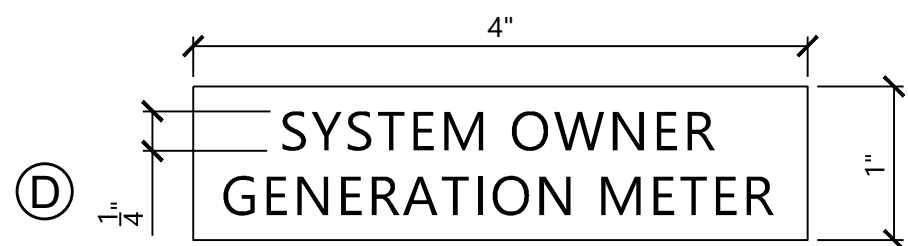
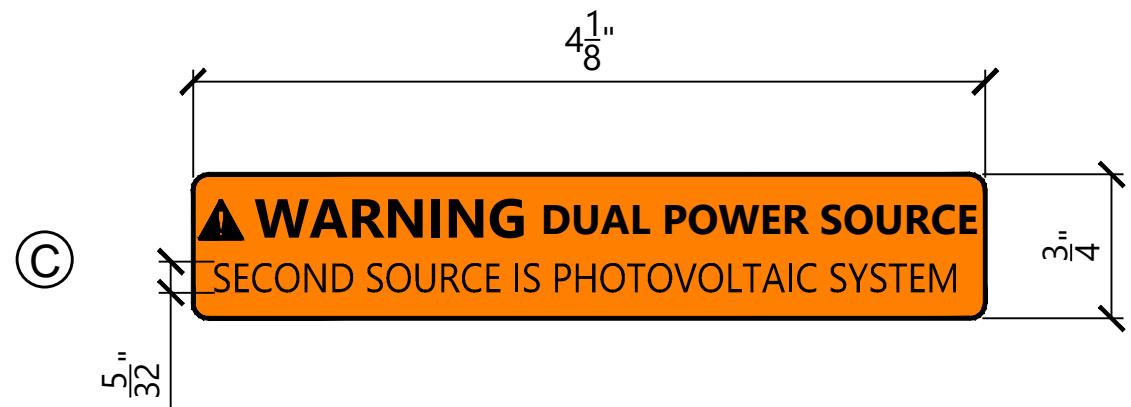
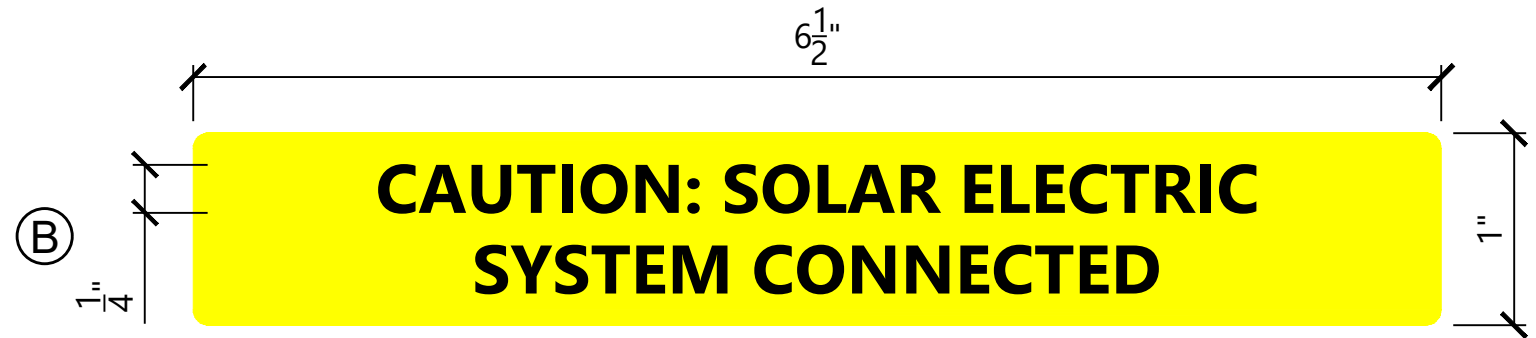
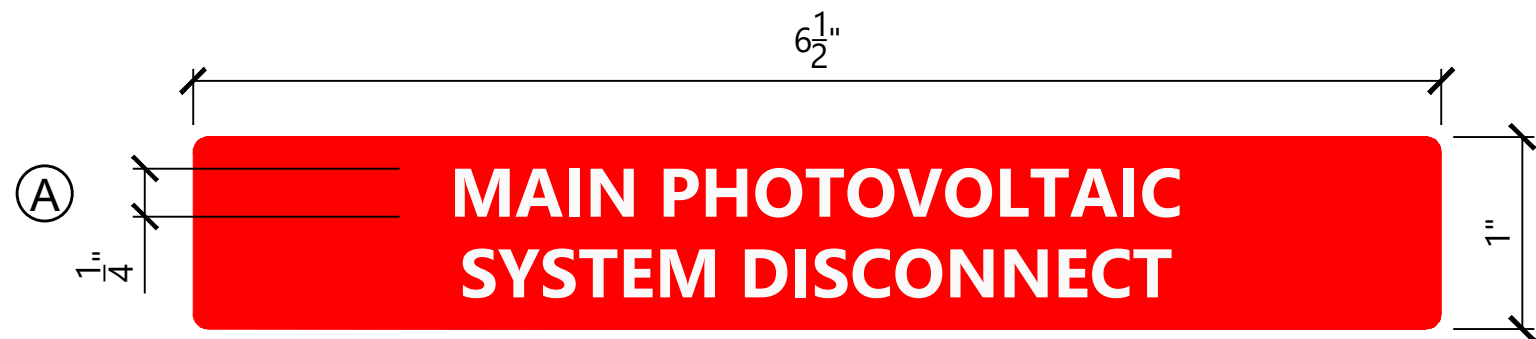
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Symbology, Abbreviations & Equipment Labeling

DATE: 06/26/2024

SHEET: E.103

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LABELS AND MARKINGS LEGEND:

- (A) LABEL FOR UTILITY MAIN AC DISCONNECT. APPLIED TO SERVICE DISCONNECTING MEANS AND PHOTOVOLTAIC DISCONNECTING MEANS AT SUBSTATION. LABEL WITH RED BACKGROUND AND WHITE LETTERS.
- (B) CAUTION LABEL FOR PHOTOVOLTAIC SYSTEM CONNECTED. APPLIED TO ALL PHOTOVOLTAIC DISCONNECTING MEANS AND PRODUCTION METERS. APPLY TO SUBSTATION MAIN SERVICE DISCONNECT, FEEDER BREAKERS, UTILITY PRODUCTION METER AND CUSTOMER METER. LABEL WITH YELLOW BACKGROUND AND BLACK LETTERS.
- (C) WARNING LABEL FOR DUAL POWER SOURCE PRESENT. APPLY TO UTILITY PRODUCTION METER, CUSTOMER METER AND PULL BOXES.
- (D) SYSTEM OWNER'S GENERATION METER LABEL. LABEL WITH RED BACKGROUND AND WHITE LETTERS.
- (E) LABEL FOR REQUIRED UTILITY (PRODUCTION) METER SOCKET. LABEL WITH RED BACKGROUND AND WHITE LETTERS.
- (F) WARNING LABEL FOR DISCONNECTING MEANS WHERE BOTH SIDES MAY BE ENERGIZED IN THE OPEN POSITION. APPLY TO MAIN SERVICE DISCONNECT, ALL AC PHOTOVOLTAIC DISCONNECTS, AND PULL BOXES.
- (G) LABEL FOR AC DISCONNECTS IDENTIFICATION. LOCATED AT INVERTER STATIONS. LABEL WITH RED BACKGROUND AND WHITE LETTERS. LABEL WITH WHITE STRIPE ALONG CENTER.
- (H) LABEL FOR AC DISCONNECT INFORMATION. LOCATED AT INVERTER STATIONS. LABEL WITH RED BACKGROUND AND WHITE LETTERS. INFORMATION IN BLACK LETTERS WITHIN WHITE BOXES.
- (I) LABEL FOR DC DISCONNECT INFORMATION. APPLY TO ALL COMBINER BOXES AND RE-COMBINERS. LABEL WITH RED BACKGROUND AND WHITE LETTERS. INFORMATION IN BLACK LETTERS WITHIN WHITE BOXES.
- (J) LABEL FOR DC DISCONNECT IDENTIFICATION. APPLY TO ALL COMBINER BOXES AND RE-COMBINERS. LABEL WITH RED BACKGROUND AND WHITE LETTERS. INFORMATION IN BLACK LETTERS WITHIN WHITE BOXES.
- (K) LABEL FOR AC DISCONNECT INFORMATION. LOCATED AT INVERTER STATIONS. LABEL WITH RED BACKGROUND AND WHITE LETTERS. INFORMATION IN BLACK LETTERS WITHIN WHITE BOXES.
- (L) CONDUIT RUN FROM PANELBOARD TO STEP-UP TRANSFORMER. COORDINATE WITH TRANSFORMER STATION MANUFACTURER. (AS NEEDED)
- (M) GENERIC EQUIPMENT NUMBERING LABEL; ONE PER SWITCHBOARD, ONE PER PANELBOARD, ONE PER INVERTER AND ONE PER TRANSFORMER
- (N) WARNING LABEL FOR DC DISCONNECTS. APPLY TO ALL COMBINER BOXES AND RE-COMBINERS.
- (O) CONDUIT RUN FROM COMBINER TO INVERTER. (AS NEEDED)
- (P) DANGER LABEL FOR CHAIN LINK SECURITY FENCE; SPACED EVERY 200 FEET AROUND PERIMETER OF ARRAY. SIGNS SHALL BE AT LEAST 14 GAUGE GALVANIZED STEEL OR ALUMINUM OR MINIMUM 3/32" THICK UV STABILIZED POLYCARBONATE OR PLEXIGLASS WITH 20 YEAR MINIMUM LIFE UV RESISTANT PAINT/LAMINATE FINISH. FASTEN TO FENCE WITH A MINIMUM OF (4) GALVANIZED STEEL OR 1/4" NOMINAL HEAVY DUTY UV STABILIZED ZIP TIES
- (Q) ARC FLASH WARNING LABEL SHALL BE PLACED ON ALL EQUIPMENT AS REQUIRED BY NEC 110.16 INCLUDING, BUT NOT LIMITED TO, COMBINER BOXES, DISCONNECTS, INVERTERS, PANEL BOARDS AND SWITCHBOARDS. TOTAL QUANTITY TO BE DETERMINED BY CONTRACTOR. LABEL SHOWN IS AN EXAMPLE - VALUES WILL VARY BETWEEN EQUIPMENT. CHOOSE APPROPRIATE LABEL FOR APPROPRIATE HAZARD CONDITION. WARNING LABEL DESIGNATES INCIDENT ENERGY < 40 CAL/CM^2 AND DANGER LABEL DESIGNATES INCIDENT ENERGY >= 40 CAL/CM^2.

NOTES:

- SOLAR MODULES SHALL BE SUPPLIED FROM THE MANUFACTURER WITH MARKINGS PRE-APPLIED TO MEET THE REQUIREMENTS OF THE NEC.
- INVERTERS SHALL BE SUPPLIED FROM THE MANUFACTURER WITH THE APPROPRIATE LABELS AND MARKINGS TO MEET THE REQUIREMENTS OF THE NEC.
- FINAL LABEL QUANTITIES, TEXT, AND LOCATIONS TO BE DETERMINED BY CONTRACTOR.
- THE LABELING, MARKING, IDENTIFICATION, AND GROUPING REQUIREMENTS OF THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE SHALL BE APPLICABLE TO THIS PHOTOVOLTAIC PROJECT.
- IN ADDITION TO NEC-REQUIRED LABELING, ALL MAJOR ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED PER SPECIFICATIONS IN THIS PLAN SET. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
- INTERCONNECTION EQUIPMENT AND MATERIALS, INCLUDING SHARED EQUIPMENT WITH THE UTILITY, SHALL BE LABELED PER UTILITY SPECIFICATIONS.
- ALL WARNING, CAUTION AND/OR DANGER LABELS TO COMPLY WITH ANSI Z535.4-2011 STANDARD FOR PROPER TEXT SIZE, DESIGN, ETC.
- BELOW IS A LIST OF MAJOR SECTIONS OF ARTICLE 690 OF THE NEC WHICH OUTLINE PV LABELING AND MARKING. THIS LIST, NOR THE EXAMPLES SHOWN ON THIS SHEET, SHOULD NOT BE CONSIDERED EXHAUSTIVE. CONTRACTOR IS REQUIRED TO UNDERSTAND THE NEC LABELING REQUIREMENTS AND APPLY THESE REQUIREMENTS TO PROJECT AS REQUIRED. SECTIONS IN ITALICS ARE DIRECT QUOTES FROM NEC.

NEC 690.13(B)
DISCONNECTING MEANS IDENTIFICATION.

NEC 690.15
EQUIPMENT ENERGIZED BY MORE THAN ONE SOURCE.

NEC 690.17(E)
WHEN BOTH TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED.

NEC 690.31(G)(3)
MARKING AND LABELING REQUIRED.

NEC 690.31(G)(4)
MARKING AND LABELING METHODS AND LOCATIONS.

NEC 690.35(F)
PHOTOVOLTAIC POWER SOURCE LABELED AT J-BOXES, COMBINER BOXES, DEVICES.

NEC 690.53
LABEL FOR DC PV POWER SOURCE AT PV DISCONNECTING MEANS.

NEC 690.54
LABEL FOR INTERACTIVE SYSTEM POINTS OF INTERCONNECTION WOTH OTHER SOURCES.

NEC 690.56(B)
FACILITIES WITH UTILITY SERVICE AND PV SYSTEMS.

NEC 690.64
POINTS OF CONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12.

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Schoharie County, New York

Labels & Markings

DATE: 06/26/2024

SHEET: E.104

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EAST POINT SOLAR DESIGN SUMMARY																														
		Inverter					Transformer			Tracker			Module			Block Characteristics														
Block	Circuit	Inverter Name	Make	Model	KVA @ 25C *	Quantity	Type	Voltage	KVA @ 25C *	Make	Model	Pitch (FT)	Make	Model	Wattage (W)	Quantity of Modules per String	Quantity of Strings	Quantity of Modules	104-Module Trackers	102-Module Trackers	78-Module Trackers	68-Module Trackers	52-Module Trackers	Quantity of Combiner Boxes	Capacity (kW-AC@25C)	Capacity @ POI (kW-AC)**	DC Nameplate Capacity (kW-DC)	DC:AC Ratio	DC:AC Ratio @ POI	
01	11A	INV11A01	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	282	9588	0	78	0	24	0	25	4200	3333.33	5273.40	1.256	1.582	
02	11A	INV11A02	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	298	10132	0	78	0	32	0	26	4200	3333.33	5572.60	1.327	1.672	
03	11A	INV11A03	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	299	10166	0	83	0	25	0	26	4200	3333.33	5591.30	1.331	1.677	
04	11A	INV11A04	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	285	9690	0	87	0	12	0	25	4200	3333.33	5329.50	1.269	1.599	
05	11A	INV11A05	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	258	8772	0	56	0	45	0	23	4200	3333.33	4824.60	1.149	1.447	
06	11A	INV11A06	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	247	8398	0	37	0	68	0	21	4200	3333.33	4618.90	1.100	1.386	
07	12A	INV12A07	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	309	10506	0	83	0	30	0	27	4200	3333.33	5778.30	1.376	1.733	
08	12A	INV12A08	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	301	10234	0	73	0	41	0	26	4200	3333.33	5628.70	1.340	1.689	
09	12A	INV12A09	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	303	10302	0	69	0	48	0	27	4200	3333.33	5666.10	1.349	1.700	
10	11A	INV11A10	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	550	34	319	10846	0	89	0	26	0	28	4200	3333.33	5965.30	1.420	1.790	
11	12A	INV12A11	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	545	34	311	10574	0	89	0	22	0	27	4200	3333.33	5762.83	1.372	1.729	
12	12A	INV12A12	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	545	34	290	9860	0	74	0	34	0	27	4200	3333.33	5373.70	1.279	1.612	
13	12A	INV12A13	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	38.5	JA Solar	JAM72S09	385	26	575	14950	125	0	11	0	21	24	4200	3333.33	5755.75	1.370	1.727	
14	12A	INV12A14	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	545	34	332	11288	0	102	0	13	0	28	4200	3333.33	6151.96	1.465	1.846	
15	12A	INV12A15	SMA	SC-4200-UP	4200	1	STEP-UP	630VAC Wye - 34.5KVAC Delta	4200	TerraSmart	TerraTalk	46.3	Trina	TSM-DEG19C.20	545	34	322	10948	0	92	0	23	0	28	4200	3333.33	5966.66	1.421	1.790	
					Total	15										Total	4731	156254	125	1090	11	443	21	388	63000	50000	83259.6	1.322	1.665	

*INVERTERS AND INVERTER TRANSFORMERS ARE DERATED TO 4000 KVA FOR ELECTRICAL STUDIES

**ESTIMATED BASED ON RATED POWER AT POI OF 50MW

NOTE:
1. THE INVERTERS NAMEPLATE IS 4200KVA BUT IS LIMITED TO 4000KVA WITH SOFTWARE CONTROLS.

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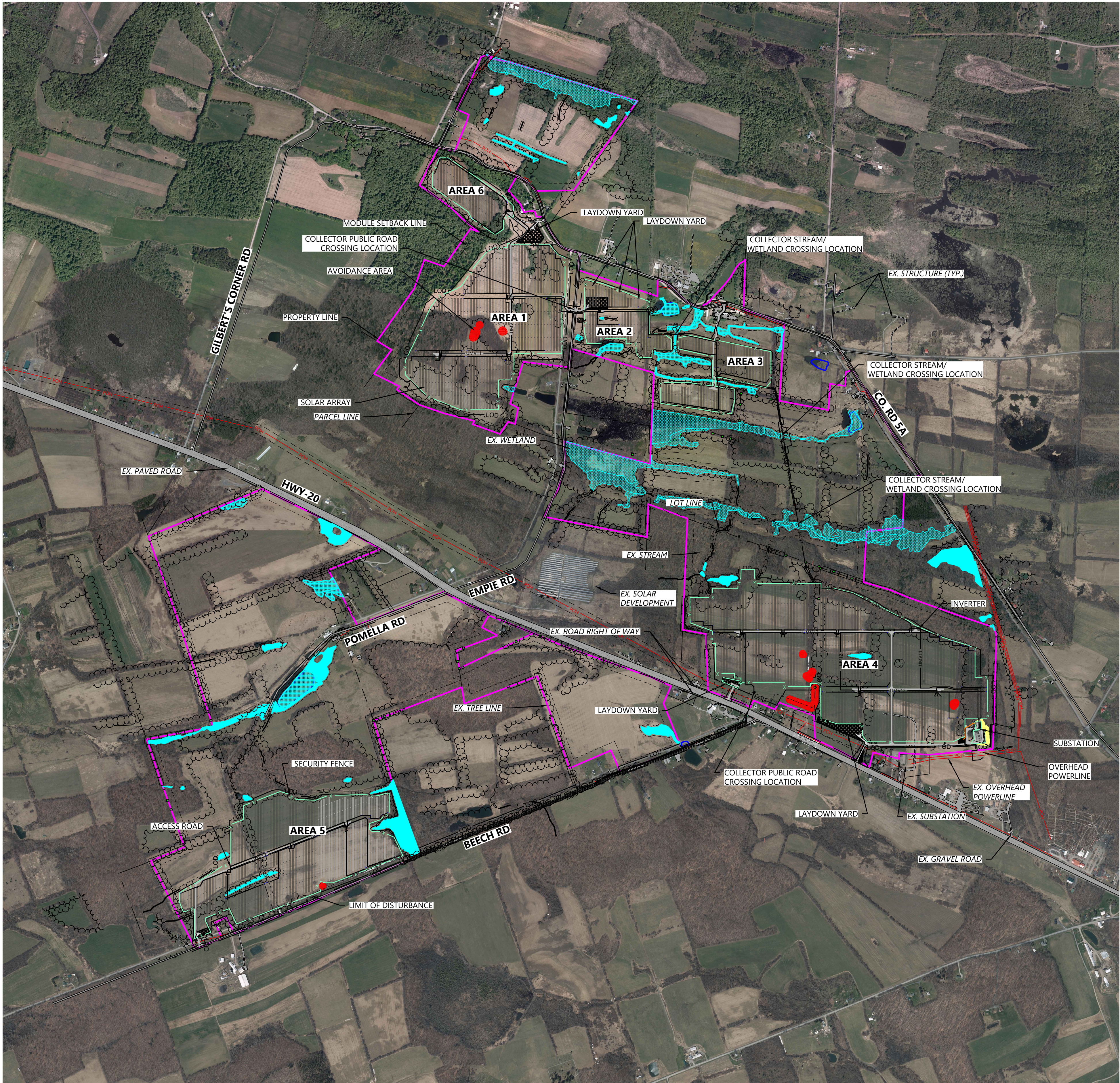
East Point Energy Center

Schoharie County, New York

Project Design Summary

DATE: 06/26/2024

SHEET: E.105



LEGEND:

- PROJECT BOUNDARY
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. FENCE
- EX. OVERHEAD POWER
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. BUILDING
- EX. TREELINE
- EX. WATER EDGE LINE
- EX. STREAM CHANNEL
- EX. DELINEATED WETLAND
- EX. DELINEATED WETLAND
- APPROXIMATE WELL LOCATION
- SOLAR ARRAY
- ELECTRICAL EQUIPMENT
- ACCESS ROAD
- SECURITY FENCE

PROJECT SUMMARY	
ELECTRICAL CODE APPLIED	2017 NEC
FIRE CODE APPLIED	2020 NYS Code
SYSTEM DESIGN VOLTAGE	1,500V
ASHRAE LOCATION	ALBANY INTL, NY, USA
ASHRAE MINIMUM MEAN TEMP (DRY BULB)	-21.9°C
ASHRAE MAXIMUM MEAN TEMP (DRY BULB)	34.5°C
DC/AC RATIO	1.665
MODULE MANUFACTURER	TRINA SOLAR / JA SOLAR
MODULE MODEL	TSM-DEG19C.20 / JAM72S09
MODULE POWER	550W/545W/385W
CELLS	110 / 72
INVERTER MANUFACTURER	SMA
INVERTER MODEL	SC 4200 UP-US
CEC EFFICIENCY	98.50%
MAX. INPUT VOLTAGE	1,500V
MAX. POWER OPERATING RANGE VOLTAGE	880 to 1,350V
NOMINAL AC CURRENT (AT 25°C/AT 50°C)	3,850A / 3,273A
NOMINAL AC POWER OUTPUT (PF = 1) (AT 25°C/AT 50°C)	4,200kVA / 3,400kVA
NOMINAL AC POWER OUTPUT (PF = 0.8) (AT 25°C/AT 50°C)	3,200kW / 2,720kW
AC OUTPUT VOLTAGE	600V
TRACKER MANUFACTURER	TerraSmart
MODEL	TerraTrak
102 MODULE TRACKER QUANTITY	733 (550W), 357 (545W)
68 MODULE TRACKER QUANTITY	351 (550W), 92 (545W)
104MODULE TRACKER QUANTITY	125
78 MODULE TRACKER QUANTITY	11
52 MODULE TRACKER QUANTITY	21
MODULE ORIENTATION	Portrait
TILT ANGLE	+/- 50°
AZIMUTH	180°
(EAST/WEST) AISLE SPACING (TRINA/JA)	30.48FT/25.39FT
GROUND COVER RATIO	34%
NO. OF INVERTERS	15
STRING LENGTH (TRINA / JA)	34/26
MODULE QUANTITY (TRINA / JA)	98634 (550W) & 42670 (545W) / 14950
STRING QUANTITY (TRINA / JA)	2901 (550W) & 1255 (545W) / 575
MAX. CIRCUIT CURRENT PER 690.8(A)(1)(2)	22.65A/12.71A
MAX. FUSE CURRENT PER 690.9(B)(1)	28.32A/15.89A
MAX. OPEN CIRCUIT VOLTAGE PER 690.7(A)(3)	42.12V/49.04V



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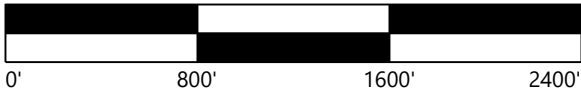
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East Point Energy Center

Schoharie County, New York

Overall Site Plan

DATE: 06/26/2024

SHEET: E.110



- LEGEND:**
- CIRCUIT 11 AREA
 - CIRCUIT 12 AREA
 - ACCESS ROAD
 - SECURITY FENCE



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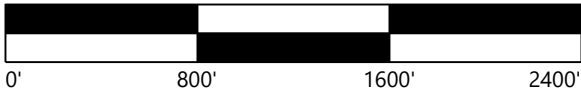
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East Point Energy Center

Schoharie County, New York

Overall Circuit Plan

DATE: 06/26/2024

SHEET: E.111



LEGEND:

	550W MODULE
	545W MODULE
	385W MODULE



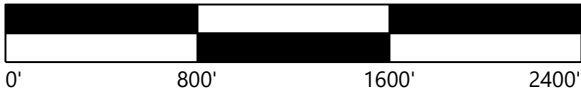
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ENERGY

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Juno Beach, FL 33408

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East Point Energy Center

Schoharie County, New York

Module Allocation Plan

DATE: 06/26/2024
SHEET: E.112



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REVISIONS:		
#	DATE	COMMENT
0	06/26/24	ISSUED FOR RECORD

East Point Energy Center

Schoharie County, New York

MVAC Single Line Diagram

DATE: 06/26/2024

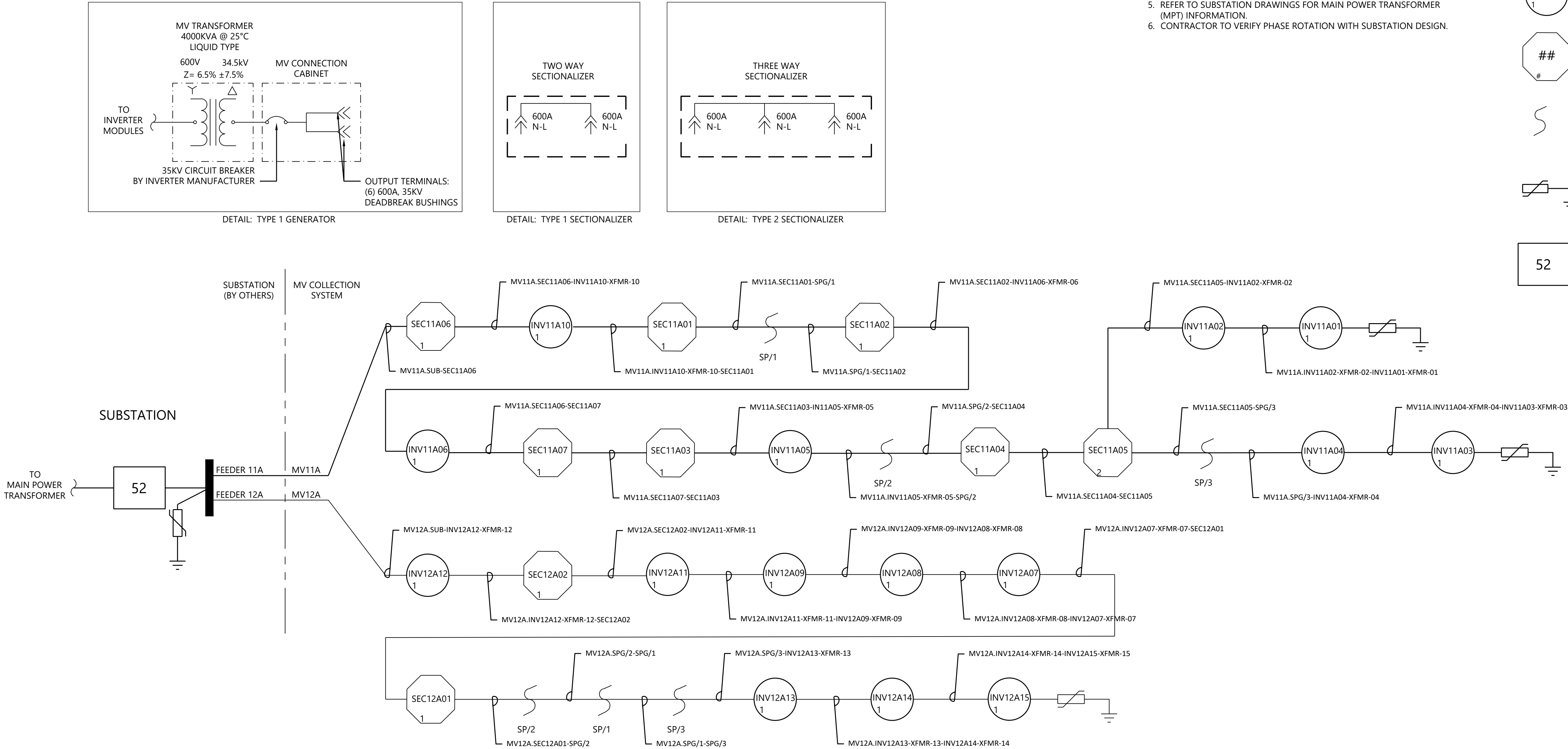
SHEET: E.200

NOTES:

- SEE SHEETS E.103 FOR SYMBOLOGY AND ABBREVIATIONS
- SEE MVAC SCHEDULE THIS SHEET
- WESTWOOD PROFESSIONAL SERVICE IS NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
- CONTRACTOR TO PROVIDED ALL INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
- REFER TO SUBSTATION DRAWINGS FOR MAIN POWER TRANSFORMER (MPT) INFORMATION.
- CONTRACTOR TO VERIFY PHASE ROTATION WITH SUBSTATION DESIGN.

LEGEND:

-
- 34.5kV UNDERGROUND CABLE
-
- DEMARICATION LINE
-
- INVERTER STATION (TYPE)
-
- 34.5kV, 600A. SECTIONALIZER (TYPE)
-
- SPLICE
-
- 24.4 kV MCOV SURGE ARRESTER
-
- 52 SUBSTATION BREAKER



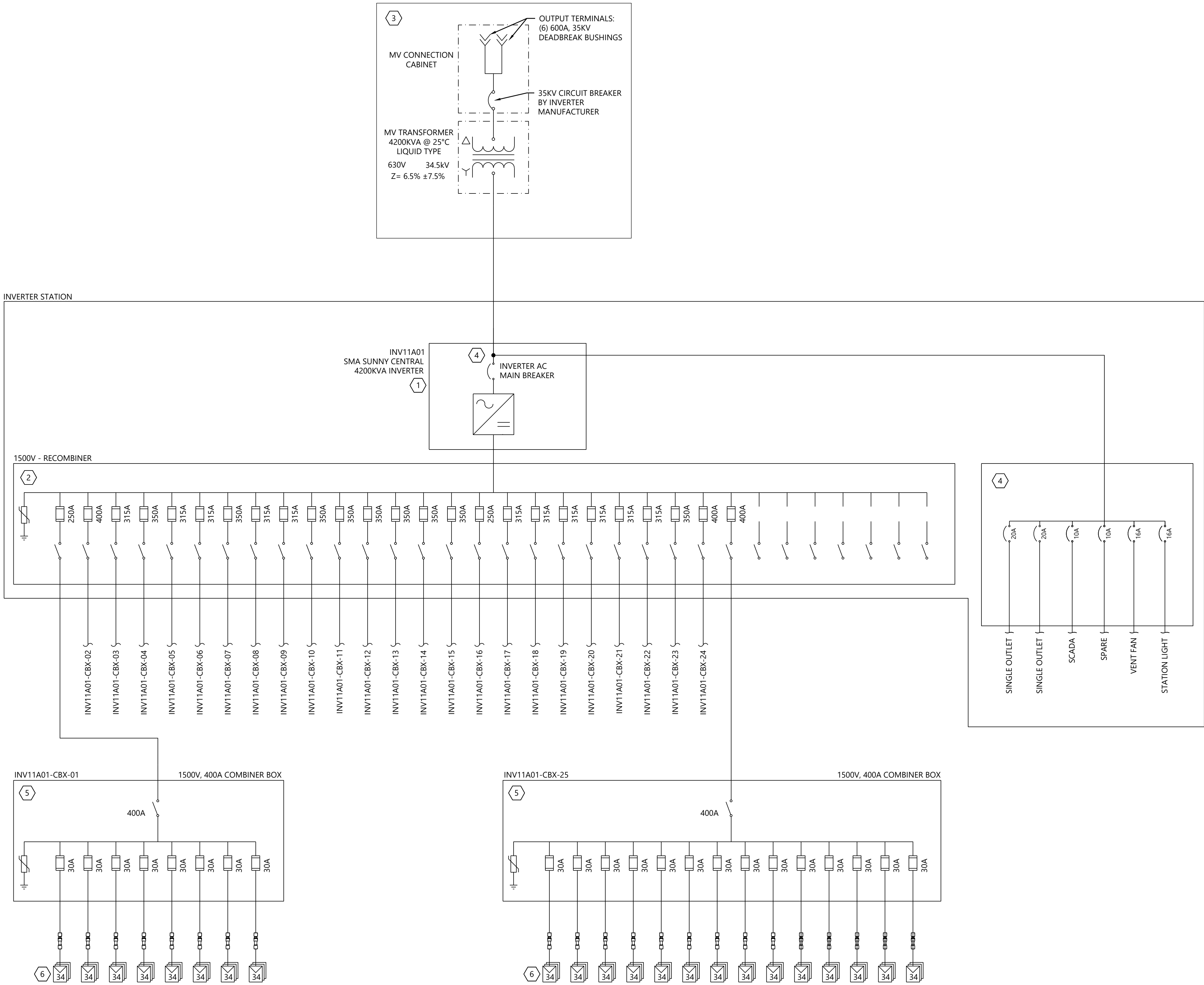
MVAC WIRING SCHEDULE

CONDUCTOR LOCATION CODE	ORIGINATING EQUIPMENT	TERMINATING EQUIPMENT	RATED Vac (kV)	Iac (A)	ONE-WAY LENGTH (FT)	CONDUCTOR SIZE	CONDUCTOR MATERIAL	# OF PARALLEL CONDUCTORS	GROUND CONDUCTOR SIZE	GROUND CONDUCTOR MATERIAL	END OF CABLE Vac (kV)	VOLTAGE DROP %	CONDUCTOR SPECIFICS
MV11A.SUB - SEC11A06	SUB	SEC11A06	34.5	468.57	605	3#1000 KCMIL	AL	1	1#1 AWG	Bare Copper	34.455	0.0360	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.SEC11A06 - INV11A10-XFMR-10	SEC11A06	INV11A10-XFMR-10	34.5	468.57	1,887	3#1000 KCMIL	AL	1	1#1 AWG	Bare Copper	34.455	0.1123	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.INV11A10-XFMR-10 - SEC11A01	INV11A10-XFMR-10	SEC11A01	34.5	468.57	1,902	3#750 KCMIL	AL	1	1#1 AWG	Bare Copper	34.458	0.1472	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.SEC11A01 - SP-11A01	SEC11A01	SP-11A01	34.5	468.57	944	3#750 KCMIL	AL	1	1#1 AWG	Bare Copper	34.458	0.0731	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.SP-11A01 - SEC11A02	SP-11A01	SEC11A02	34.5	401.63	830	3#750 KCMIL	AL	1	1#1 AWG	Bare Copper	34.466	0.0551	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.SEC11A02 - INV11A06-XFMR-06	SEC11A02	INV11A06-XFMR-06	34.5	401.63	1,770	3#750 KCMIL	AL	1	1#1 AWG	Bare Copper	34.466	0.1174	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV11A.INV11A06-XFMR-06 - SEC11A07	INV11A06-XFMR-06	SEC11A07	34.5	334.70	297	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.477	0.0241	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.SEC11A07 - SEC11A03	SEC11A07	SEC11A03	34.5	334.70	686	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.477	0.0557	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.SEC11A03 - SP-11A02	SEC11A03	SP-11A02	34.5	334.70	275	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.463	0.0258	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.SP-11A02 - INV11A05-XFMR-05	SP-11A02	INV11A05-XFMR-05	34.5	267.76	1,305	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.494	0.0847	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.INV11A05-XFMR-05 - SEC11A04	INV11A05-XFMR-05	SEC11A04	34.5	267.76	328	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.494	0.0213	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.SEC11A04 - SEC11A05	SEC11A04	SEC11A05	34.5	267.76	1,120	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.479	0.0727	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV11A.SEC11A05 - INV11A02-XFMR-02	SEC11A05	INV11A02-XFMR-02	34.5	133.88	100	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.477	0.0802	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV11A.INV11A02-XFMR-02 - INV11A01-XFMR-01	INV11A02-XFMR-02	INV11A01-XFMR-01	34.5	66.94	1,595	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.460	0.1402	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV11A.SEC11A05 - SP-11A03	SEC11A05	SP-11A03	34.5	133.88	798	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.459	0.1327	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV11A.SP-11A03 - INV11A04-XFMR-04	SP-11A03	INV11A04-XFMR-04	34.5	133.88	110	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.459	0.1409	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV11A.INV11A04-XFMR-04 - INV11A03-XFMR-03	INV11A04-XFMR-04	INV11A03-XFMR-03	34.5	66.94	1,037	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.448	0.1799	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.SUB - INV12A12-XFMR-12	SUB	INV12A12-XFMR-12	34.5	535.51	1,212	3#1250 KCMIL	AL	1	1#1 AWG	Bare Copper	34.478	0.0681	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV12A.INV12A12-XFMR-12 - SEC12A02	INV12A12-XFMR-12	SEC12A02	34.5	468.57	1,013	3#1000 KCMIL	AL	1	1#1 AWG	Bare Copper	34.458	0.1284	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV12A.SEC12A02 - INV12A11-XFMR-11	SEC12A02	INV12A11-XFMR-11	34.5	468.57	114	3#1000 KCMIL	AL	1	1#1 AWG	Bare Copper	34.458	0.1352	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV12A.INV12A11-XFMR-11 - INV12A09-XFMR-09	INV12A11-XFMR-11	INV12A09-XFMR-09	34.5	401.63	1,168	3#750 KCMIL	AL	1	1#1 AWG	Bare Copper	34.436	0.2127	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/12 Concentric Neutral
MV12A.INV12A09-XFMR-09 - INV12A08-XFMR-08	INV12A09-XFMR-09	INV12A08-XFMR-08	34.5	334.70	814	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.417	0.2787	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV12A.INV12A08-XFMR-08 - INV12A07-XFMR-07	INV12A08-XFMR-08	INV12A07-XFMR-07	34.5	267.76	630	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.405	0.3196	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV12A.INV12A07-XFMR-07 - SEC12A01	INV12A07-XFMR-07	SEC12A01	34.5	267.76	1,009	3#500 KCMIL	AL	1	1#1 AWG	Bare Copper	34.386	0.3851	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/9 Concentric Neutral
MV12A.SEC12A01 - SP-12A02	SEC12A01	SP-12A02	34.5	200.82	2,174	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.195	0.6302	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.SP-12A02 - SP-12A01	SP-12A02	SP-12A01	34.5	200.82	617	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.195	0.6997	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.SP-12A01 - SP-12A03	SP-12A01	SP-12A03	34.5	200.82	3,044	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.195	1.0428	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.SP-12A03 - INV12A13-XFMR-13	SP-12A03	INV12A13-XFMR-13	34.5	200.82	1,672	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.141	1.2313	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.INV12A13-XFMR-13 - INV12A14-XFMR-14	INV12A13-XFMR-13	INV12A14-XFMR-14	34.5	133.88	885	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.121	1.2978	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral
MV12A.INV12A14-XFMR-14 - INV12A15-XFMR-15	INV12A14-XFMR-14	INV12A15-XFMR-15	34.5	66.94	1,026	3#4/0 AWG	AL	1	1#1 AWG	Bare Copper	34.110	1.3363	35KV, 1/C, Trefoil, 100% Insulation, Type MV-105, 1/4 Concentric Neutral

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1

Inverter Station 11A01



NOTES:

1. SEE SHEET E.103 FOR SYMBOLGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #8AWG CU COPPER 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.
5. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUNDED, PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. HARNESS SHALL BE FUSED AT THE COMBINER BOX WITH 30A FUSES AS SHOWN. PROVIDED WITH SURGE ARRESTORS.
6. MODULES SUPPLIED BY OWNER. SEE DC LEVEL 1 SCHEDULES FOR MODULE DISTRIBUTION. INCLUDE 2000V OUTDOOR RATED CONNECTORS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. MATCH MODULE MANUFACTURER PROVIDED CONNECTOR. INSTALL CONNECTOR WITH APPROVED TOOLS AND ASSEMBLY PROCESS TO MAINTAIN CONNECTOR LISTING. MODULE IS UL-LISTED FOR 1500V OPERATION.



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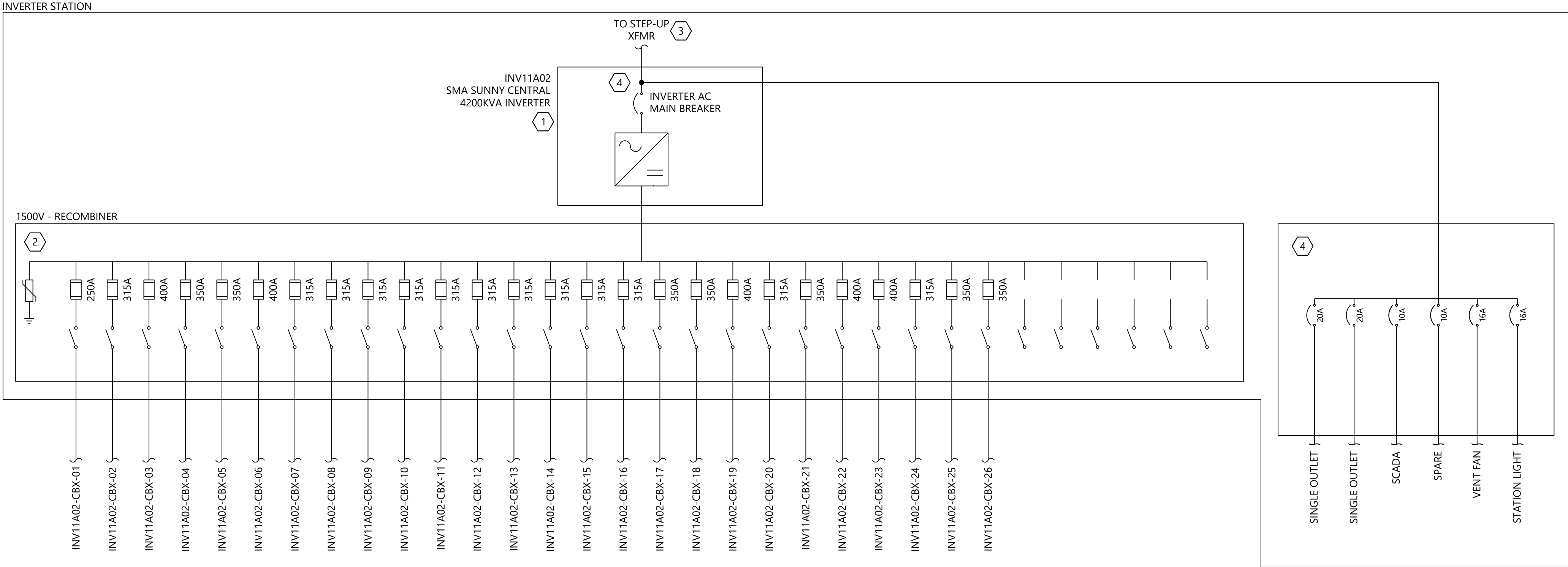
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Schoharie County, New York

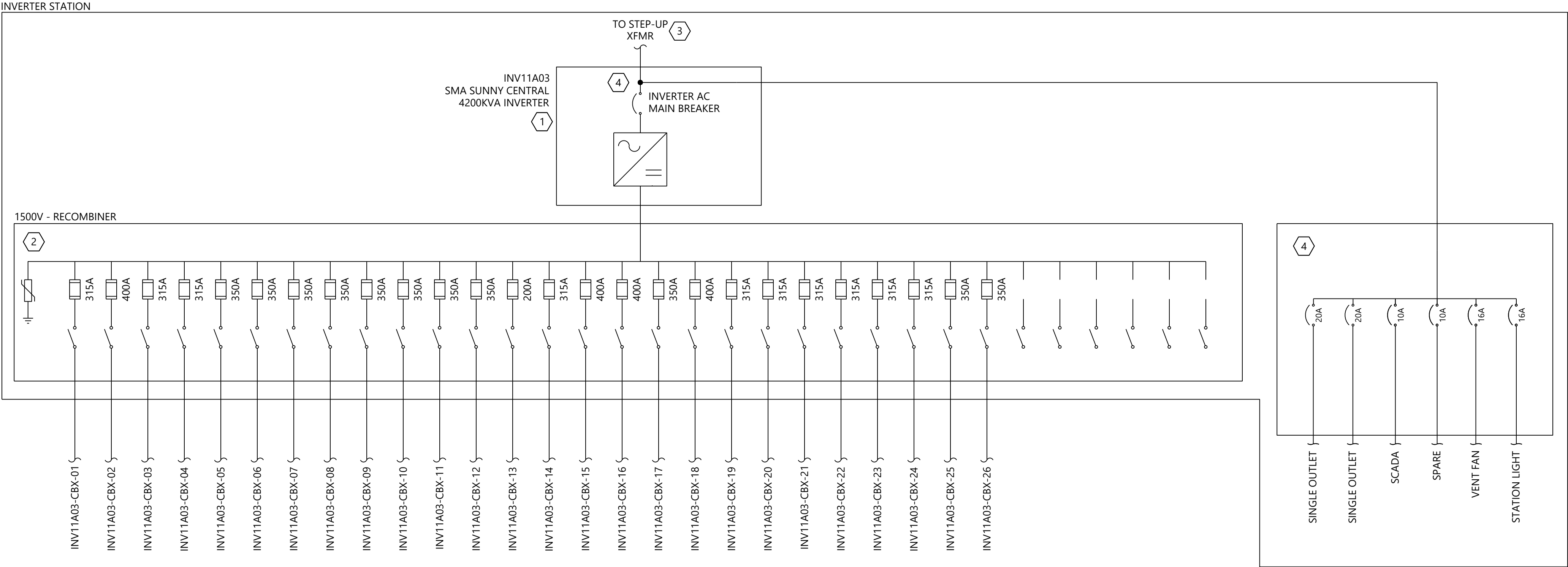
DC Level 2 Single Line
Diagrams

DATE: 06/26/2024

SHEET: E.210



1 Inverter Station 11A02



2 Inverter Station 11A03

NOTES:

1. SEE SHEET E.103 FOR SYMOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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East Point Energy Center

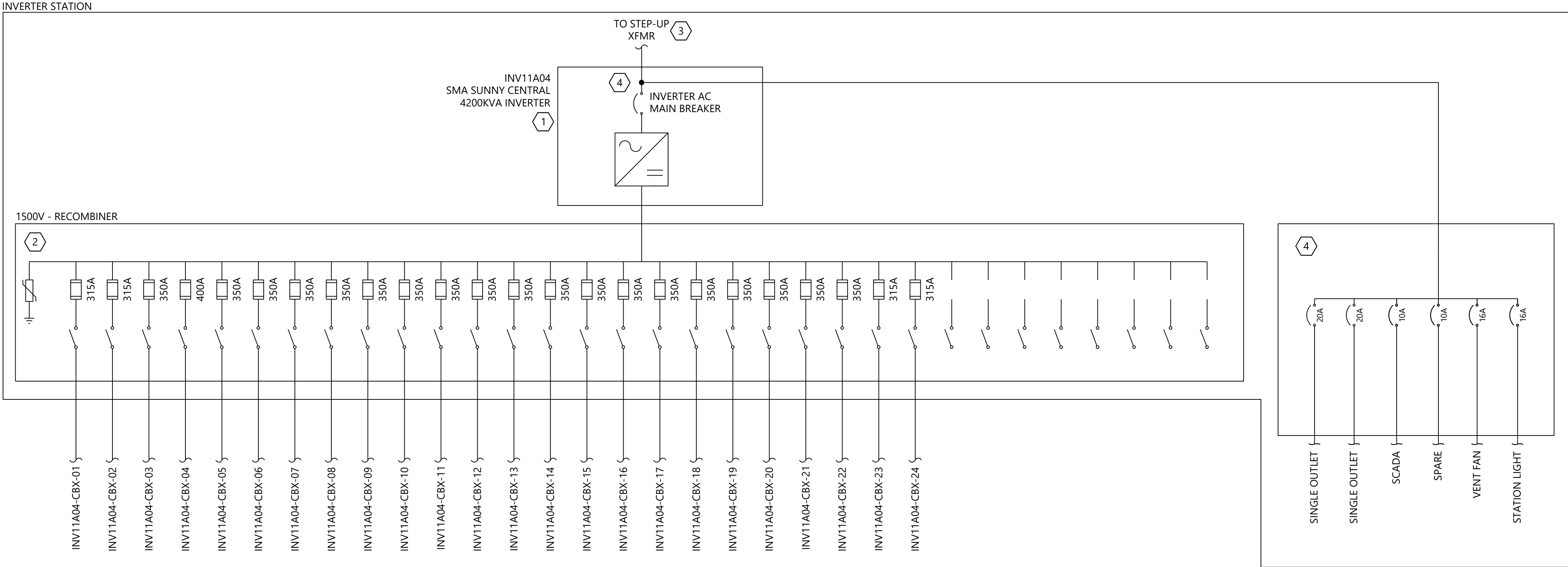
Schoharie County, New York

DC Level 2 Single Line Diagrams

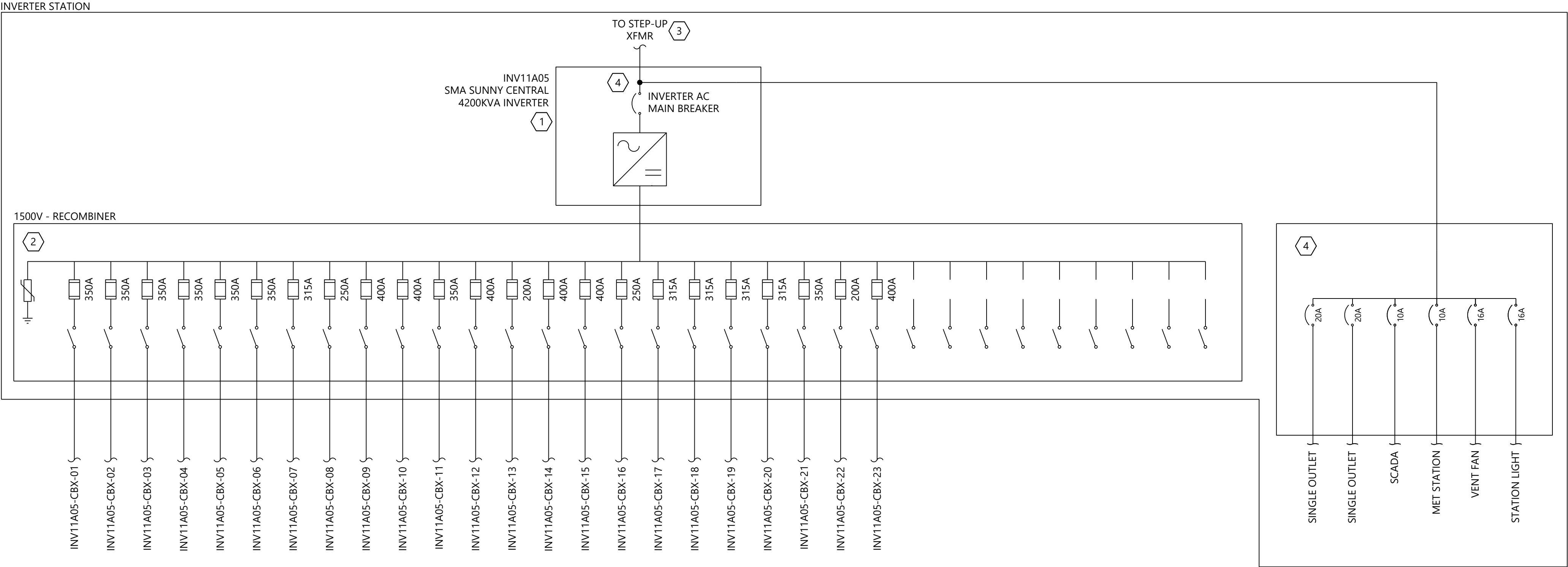
DATE: 06/26/2024

SHEET: E.211

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1 Inverter Station 11A04



2 Inverter Station 11A05

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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PREPARED FOR:



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REVISIONS:

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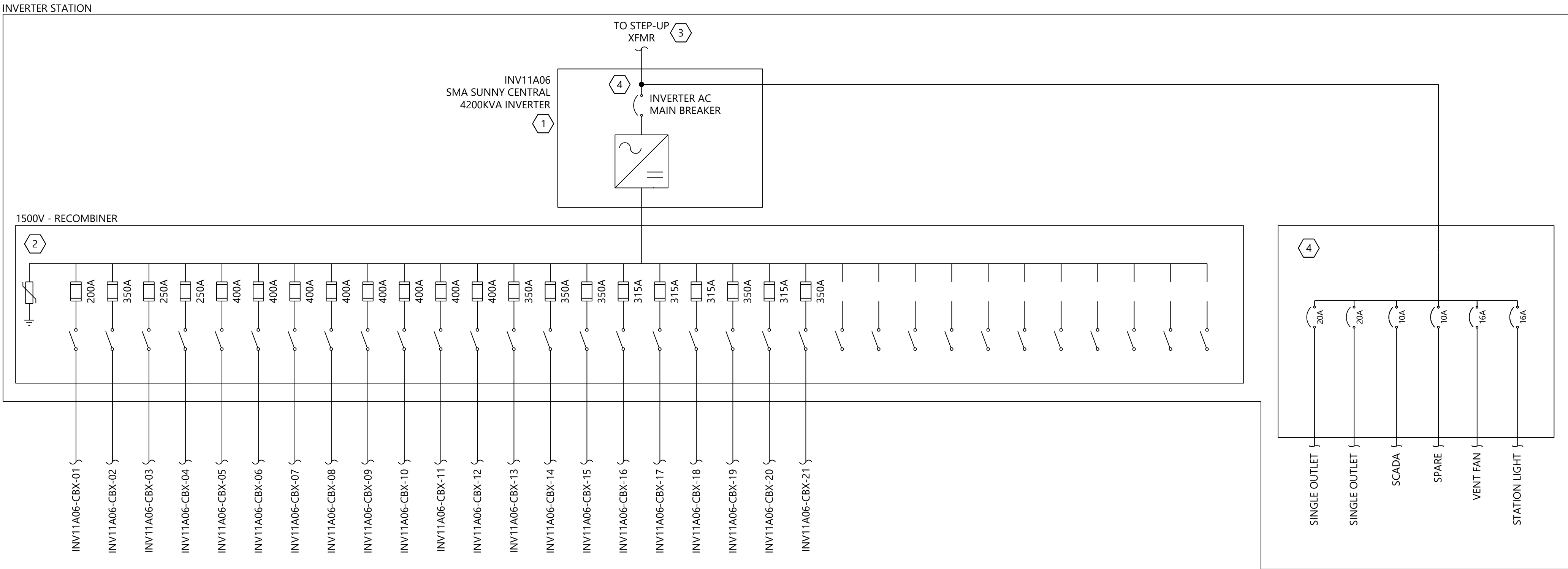
East Point Energy Center

Schoharie County, New York

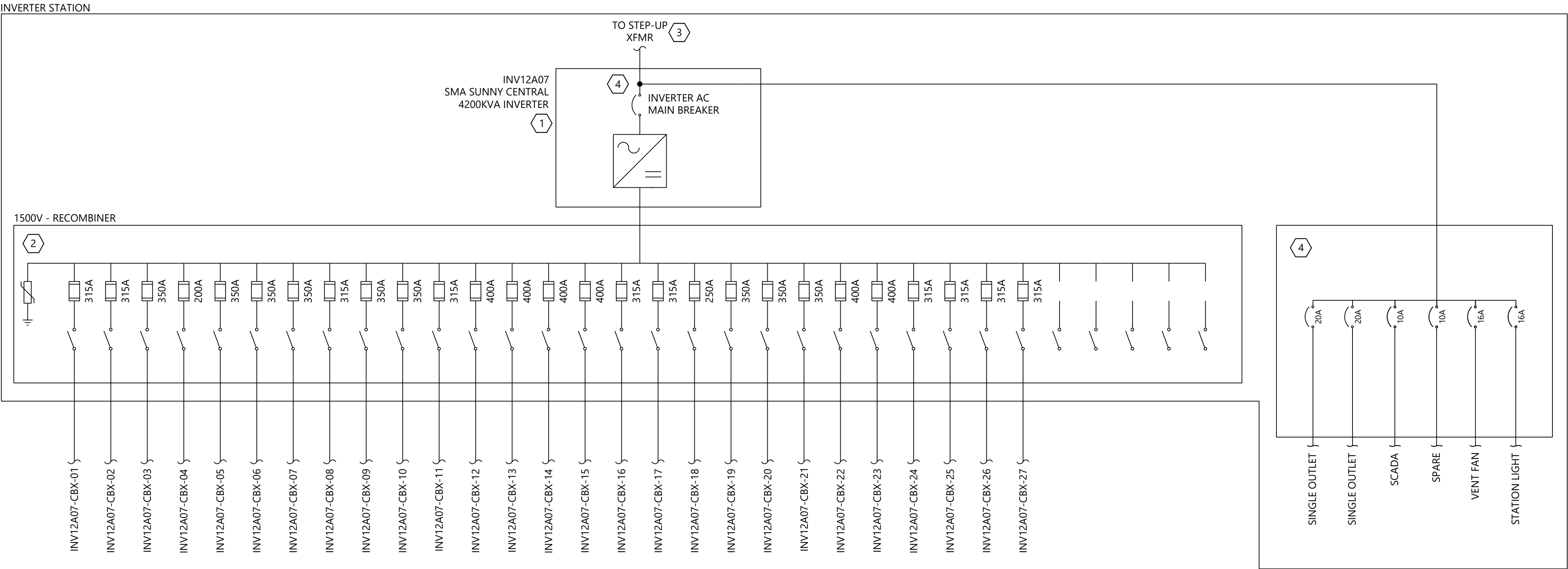
DC Level 2 Single Line Diagrams

DATE: 06/26/2024

SHEET: E.212



1 Inverter Station 11A06



2 Inverter Station 12A07

NOTES:

1. SEE SHEET E.103 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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Center

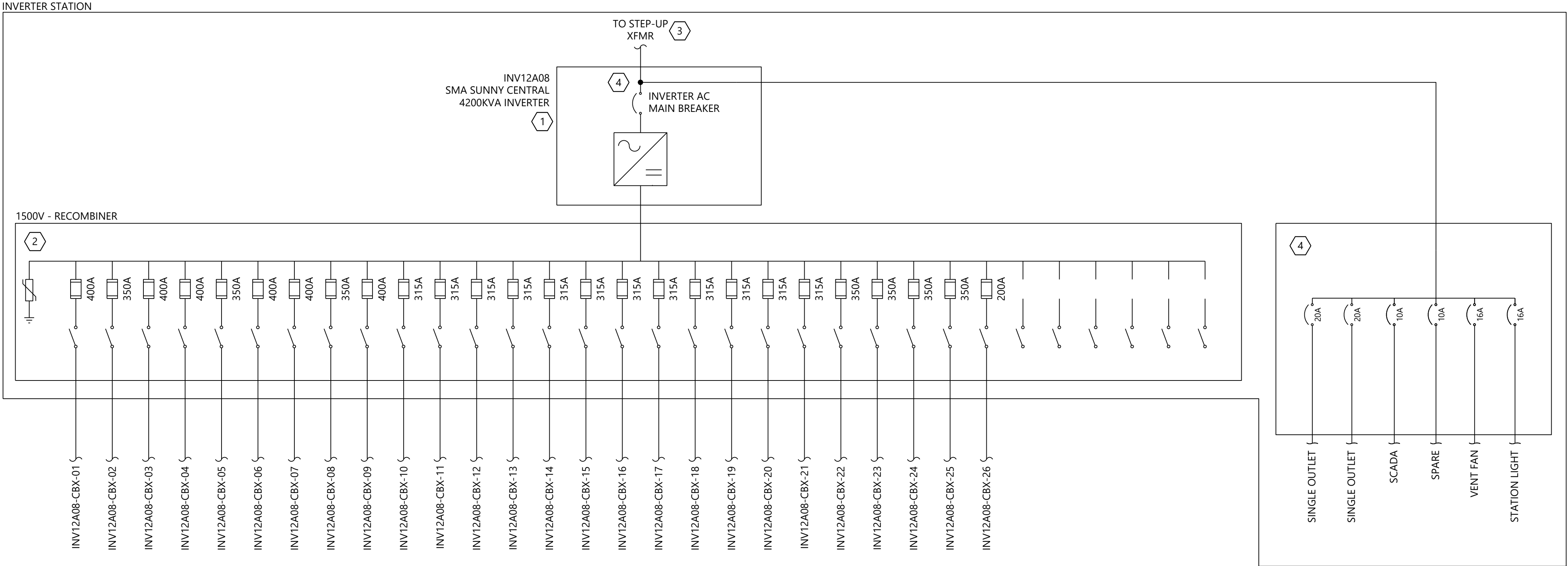
Schoharie County, New York

DC Level 2 Single Line
Diagrams

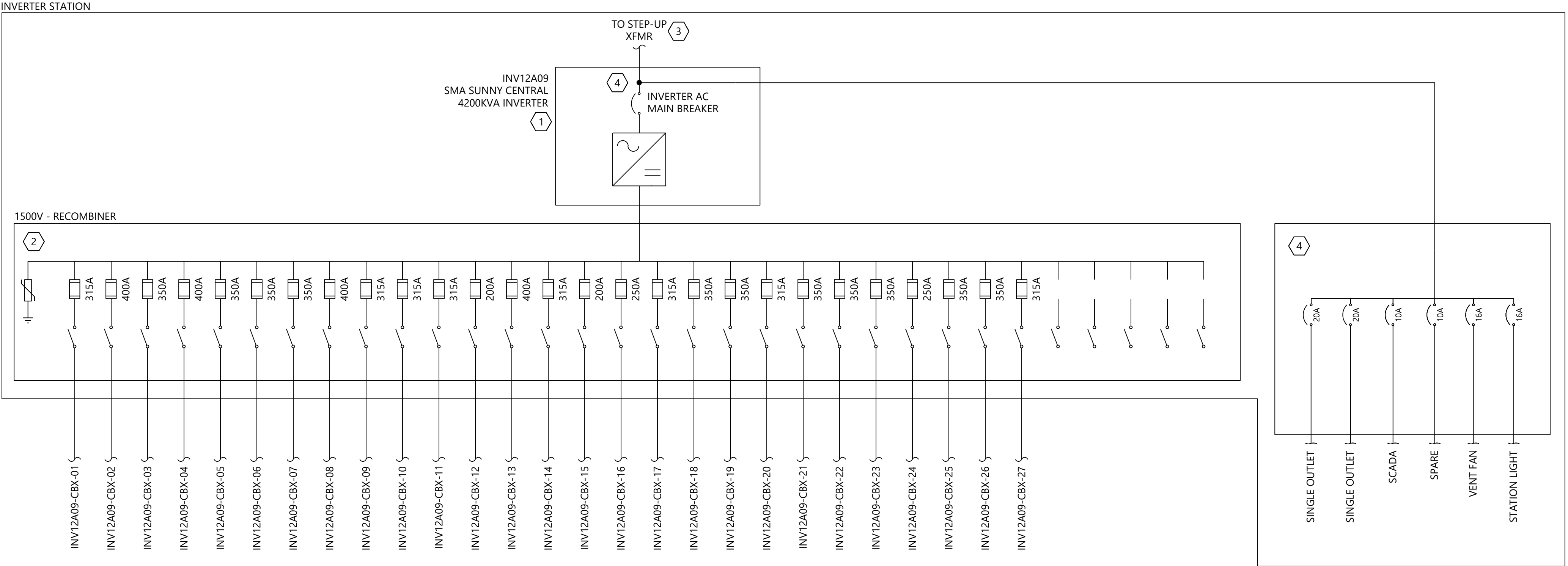
DATE: 06/26/2024

SHEET: E.213

06/26/24 1:41 PM Electrical\00254101 E.214 DC Center Diagram.dwg 06/26/2024 1:50 PM Austin Kennedy



1 Inverter Station 12A08



2 Inverter Station 12A09

NOTES:

1. SEE SHEET E.103 FOR SYMOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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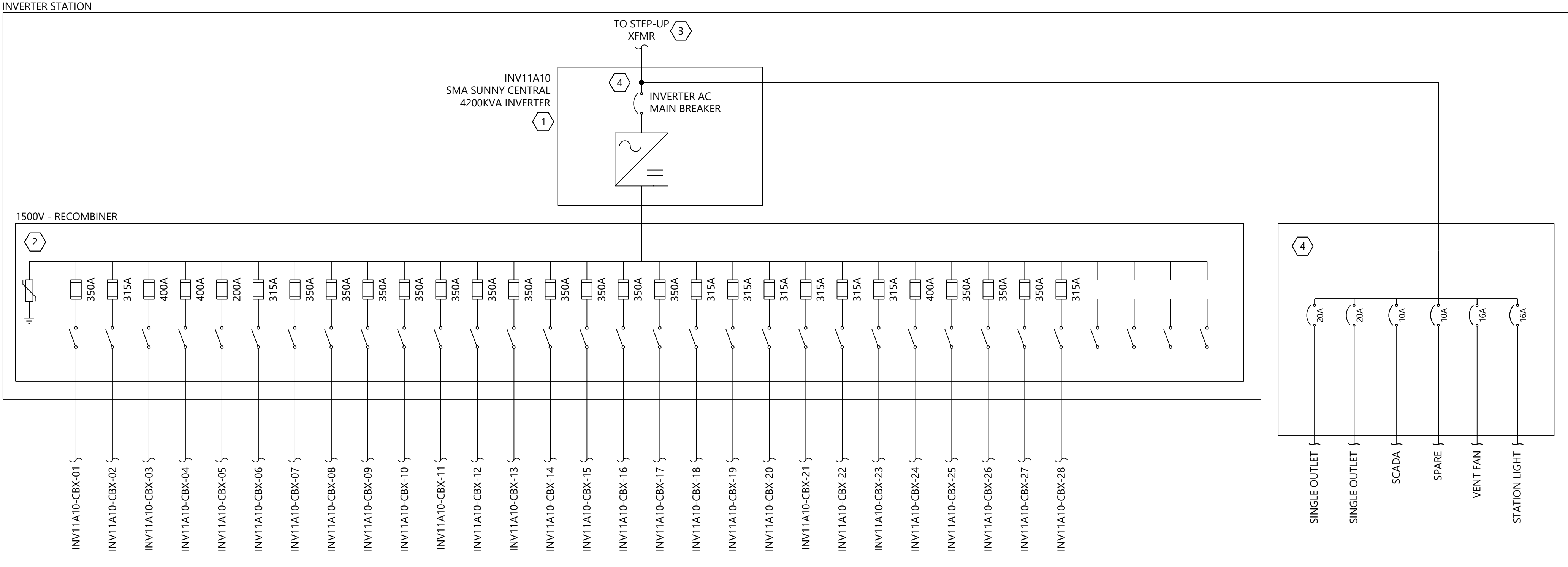
East Point Energy Center

Schoharie County, New York

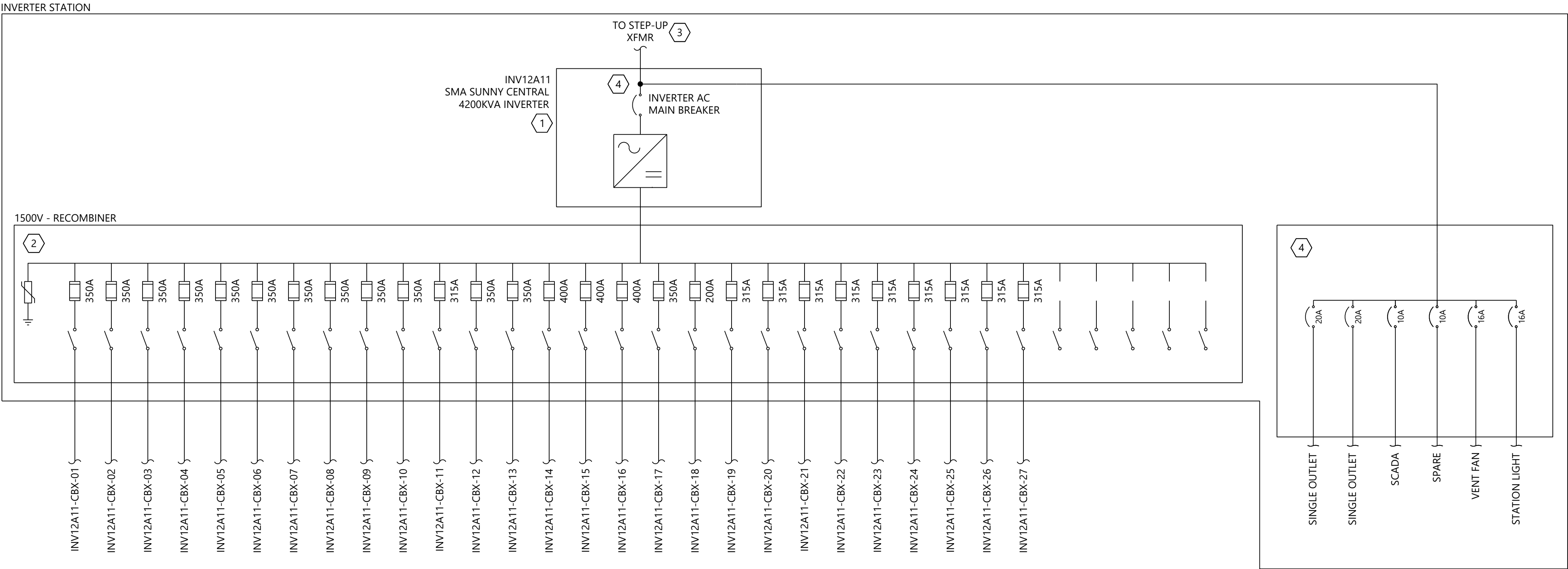
DC Level 2 Single Line Diagrams

DATE: 06/26/2024

SHEET: E.214



1 Inverter Station 11A10



2 Inverter Station 12A11

NOTES:

1. SEE SHEET E.103 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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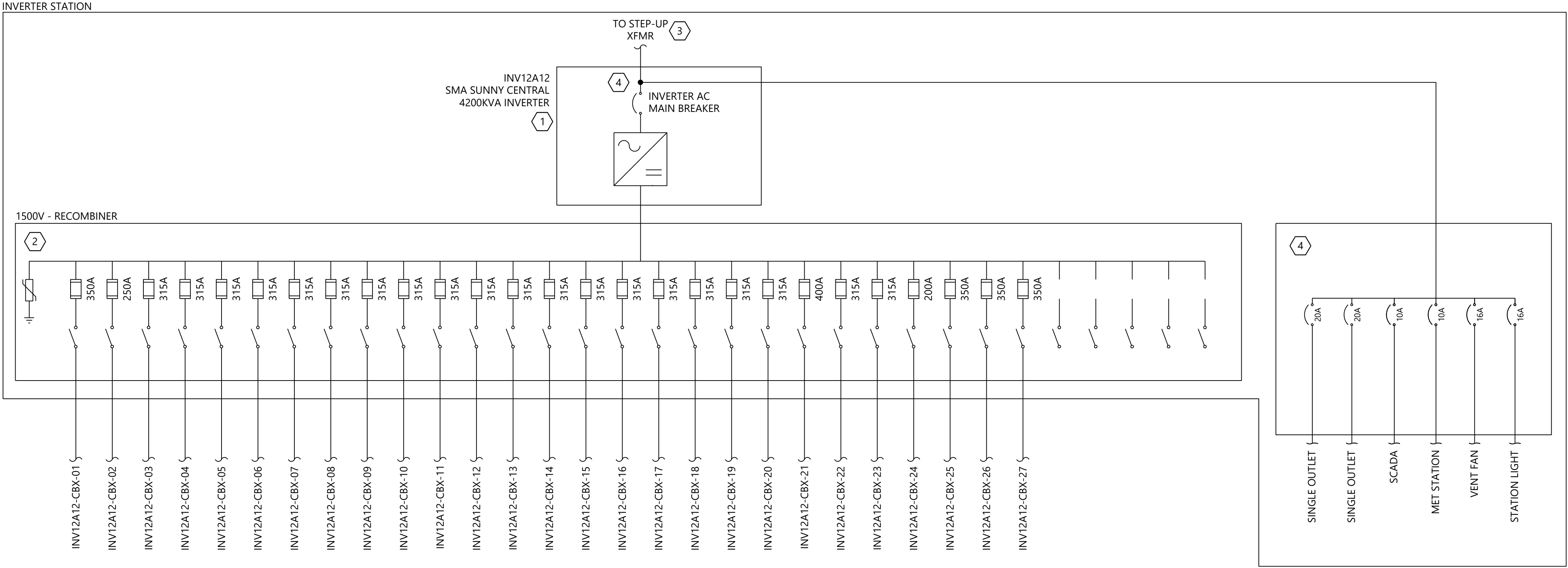
Schoharie County, New York

DC Level 2 Single Line Diagrams

DATE: 06/26/2024

SHEET: E.215

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1 Inverter Station 12A12

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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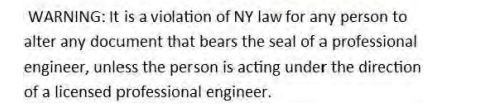
East Point Energy Center

Schoharie County, New York

DC Level 2 Single Line
Diagrams

DATE: 06/26/2024

SHEET: E.216

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Schoharie County, New York

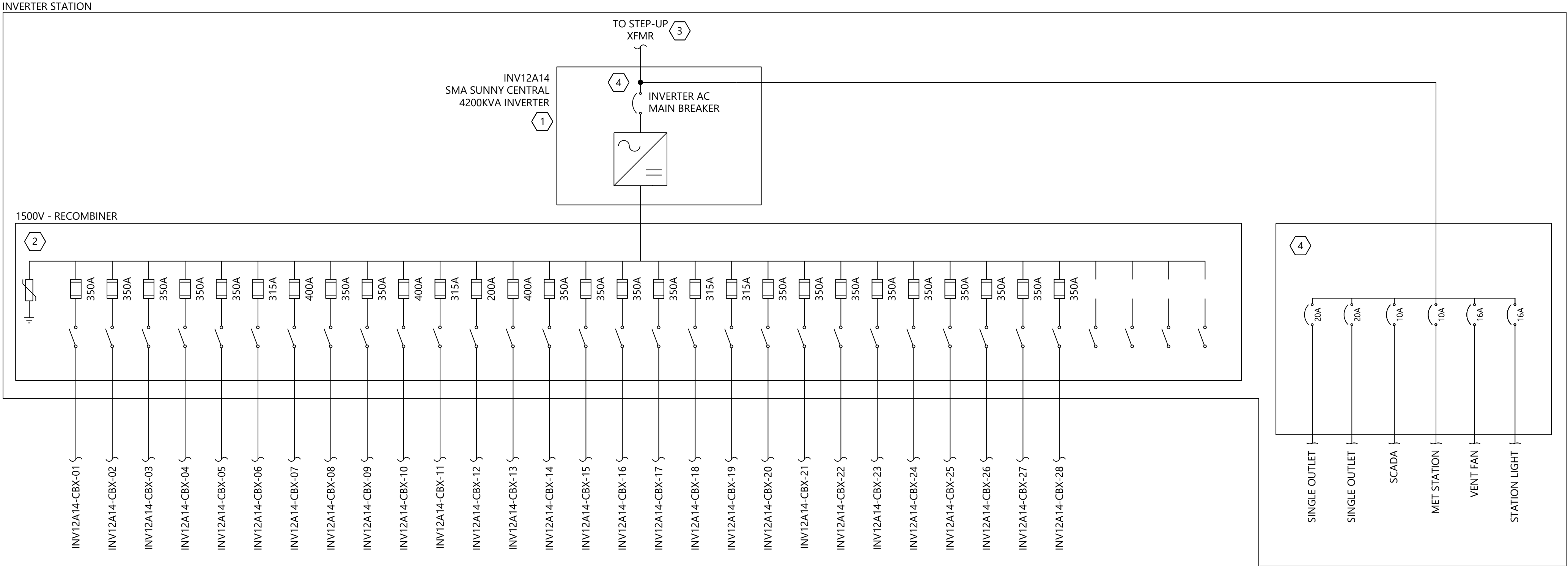
SHEET: E.217

1. SEE SHEET E.103 FOR SYMBOLLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL. NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1392.23V.
11. NREL SAM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 10.86A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

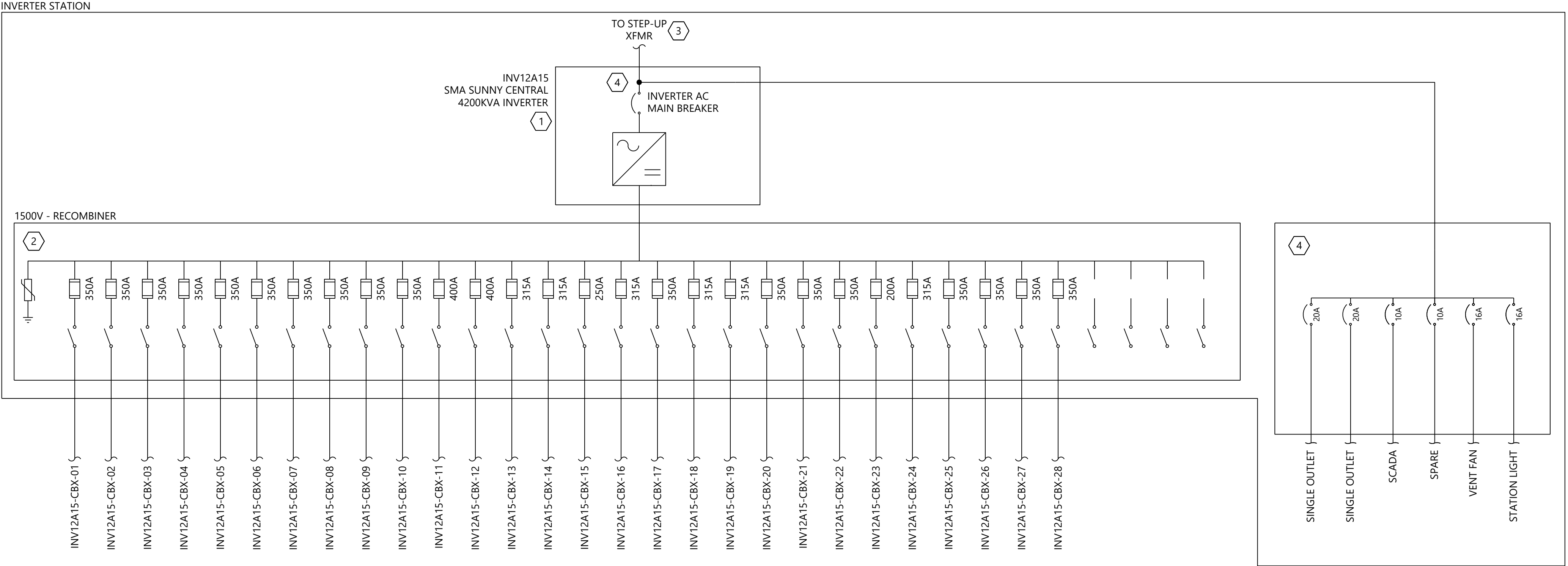
1. SUNNY CENTRAL 4200KVA INVERTER, MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.
5. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUNDED, PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. HARNESS SHALL BE FUSED AT THE COMBINER BOX WITH 25A FUSES AS SHOWN. PROVIDED WITH SURGE ARRESTORS.
6. MODULES SUPPLIED BY OWNER. SEE DC LEVEL 1 SCHEDULES FOR MODULE DISTRIBUTION. INCLUDE 2000V OUTDOOR RATED CONNECTORS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. MATCH MODULE MANUFACTURER PROVIDED CONNECTOR. INSTALL CONNECTOR WITH APPROVED TOOLS AND ASSEMBLY PROCESS TO MAINTAIN CONNECTOR LISTING. MODULE IS UL-LISTED FOR 1500V OPERATION.



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1 Inverter Station 12A14



2 Inverter Station 12A15

NOTES:

1. SEE SHEET E.103 FOR SYMBOLGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL ALUMINUM 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG CU 2000V PV WIRE.

KEYNOTES:

1. SUNNY CENTRAL 4200KVA INVERTER. MODEL SC 4200 UP-US DERATED TO 4000KVA BY INVERTER MANUFACTURER. INSTALLED BY INVERTER MANUFACTURER WITHIN INVERTER STATION. SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER DRAWINGS FOR MORE DETAILS.
2. DC INVERTER RECOMBINER BOX 1500VDC. SEE DC SCHEDULES FOR QUANTITY AND SIZE OF FEEDERS. FUSE SIZES PROVIDED BY INVERTER MANUFACTURER.
3. SEE SHEETS E.200 FOR CONTINUATION TO MVAC SINGLE LINE DIAGRAM.
4. AUXILIARY SYSTEM OVERCURRENT PROTECTION DETERMINED BY INVERTER STATION INTEGRATOR.



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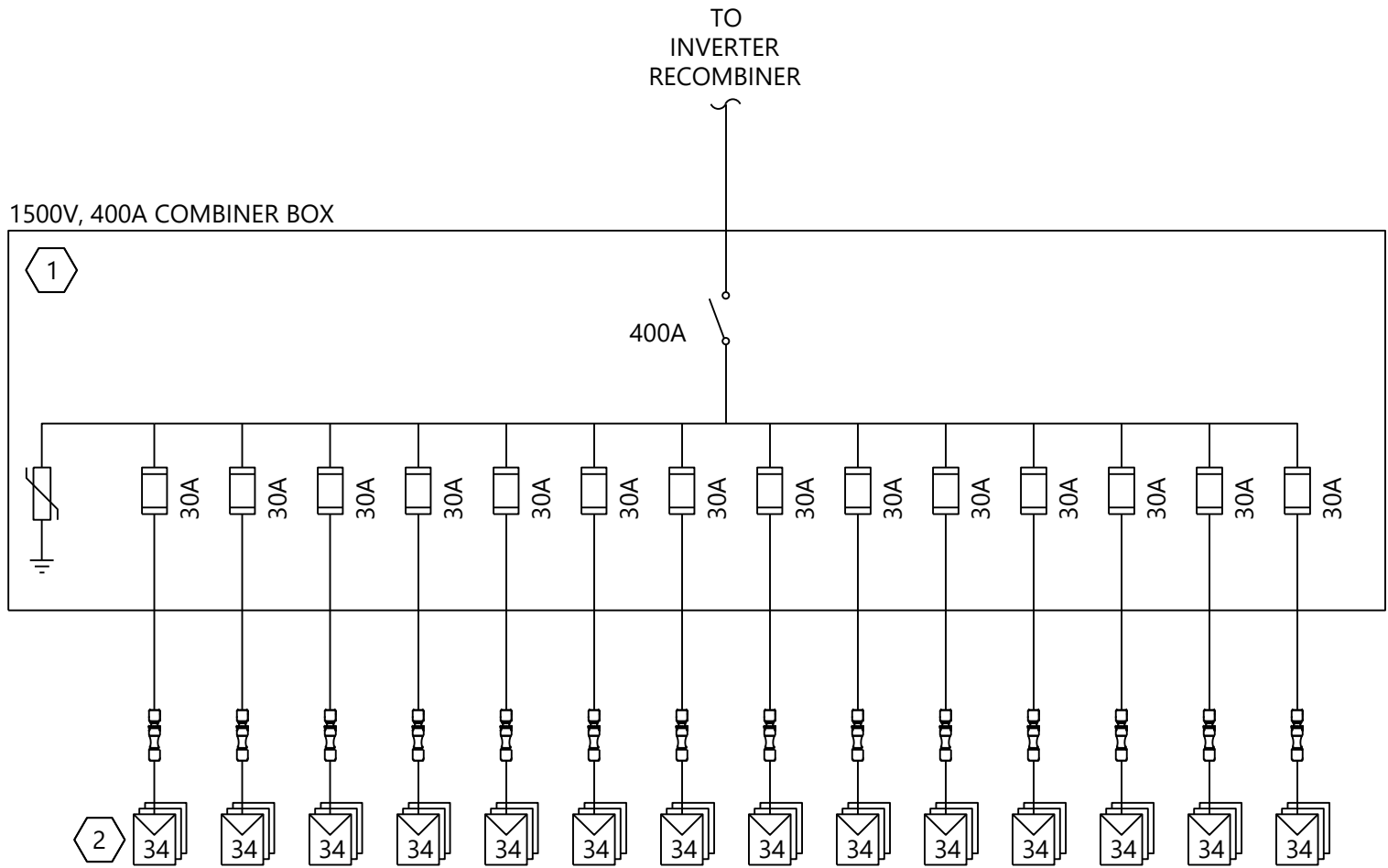
Schoharie County, New York

DC Level 2 Single Line Diagrams

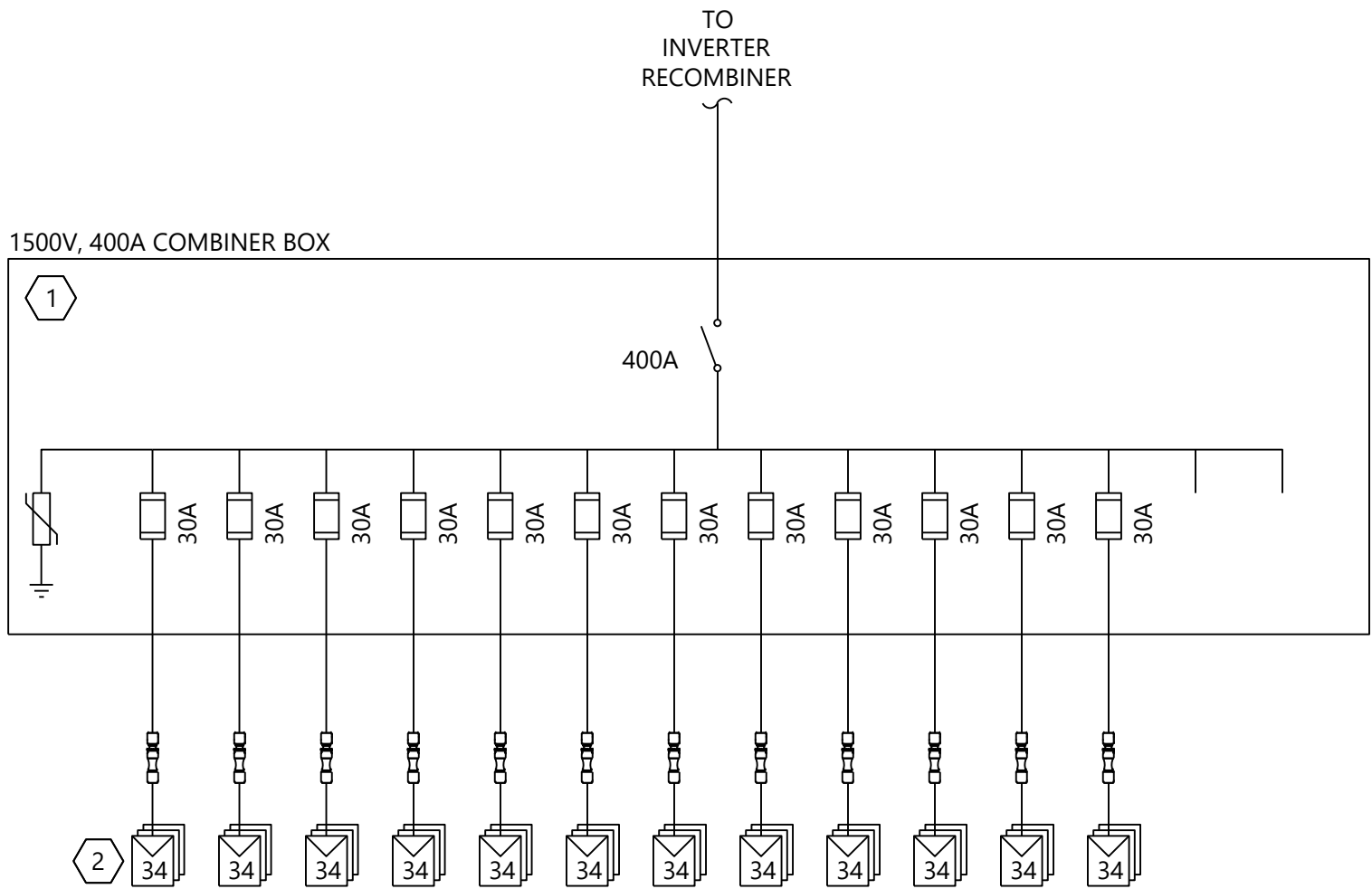
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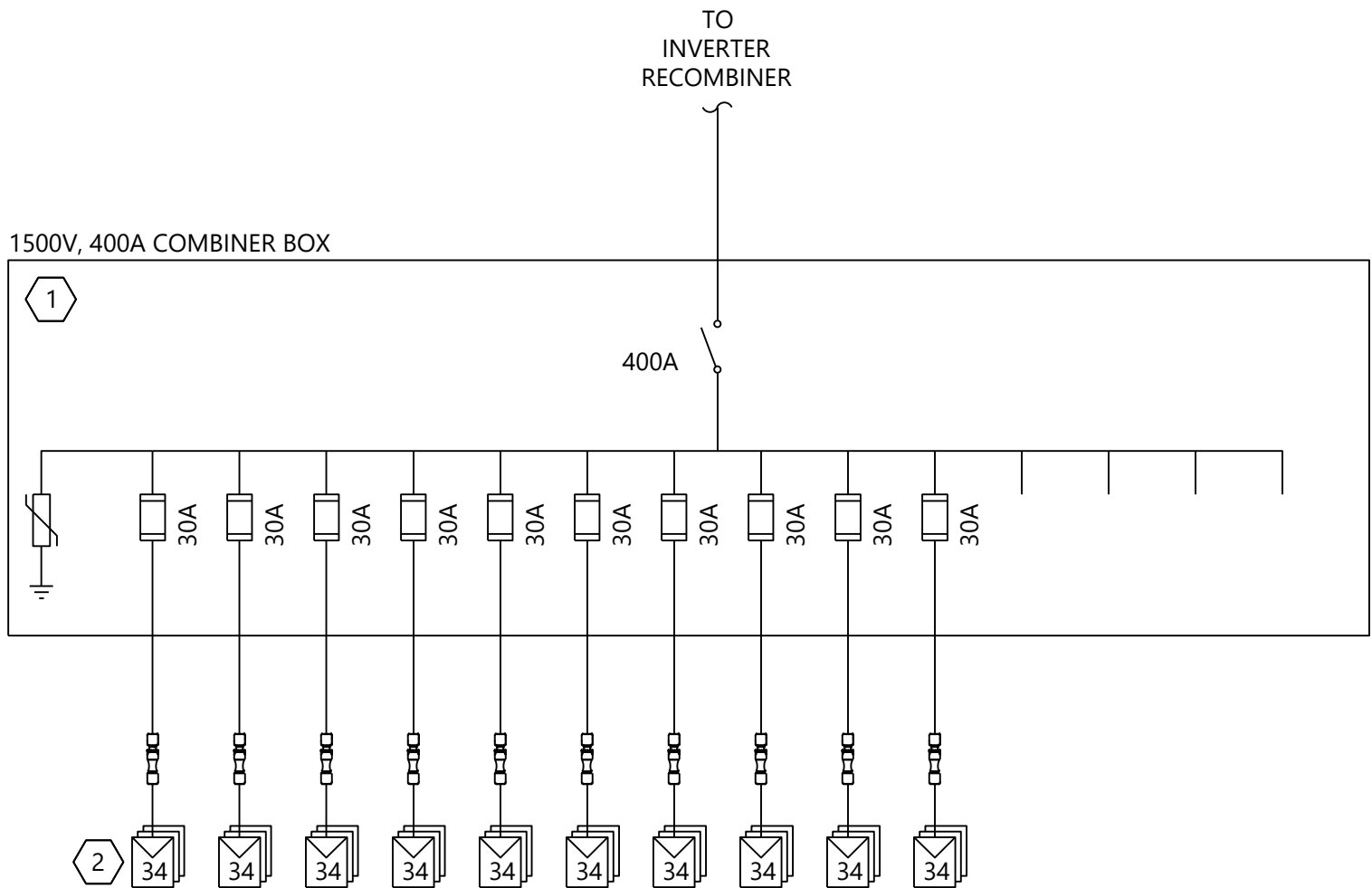
E:\2025\41\East Point Energy\025-41 E.220 - DC Level 1 Single Line Diagrams.dwg 6/26/2024 3:30 PM Austin Koenig



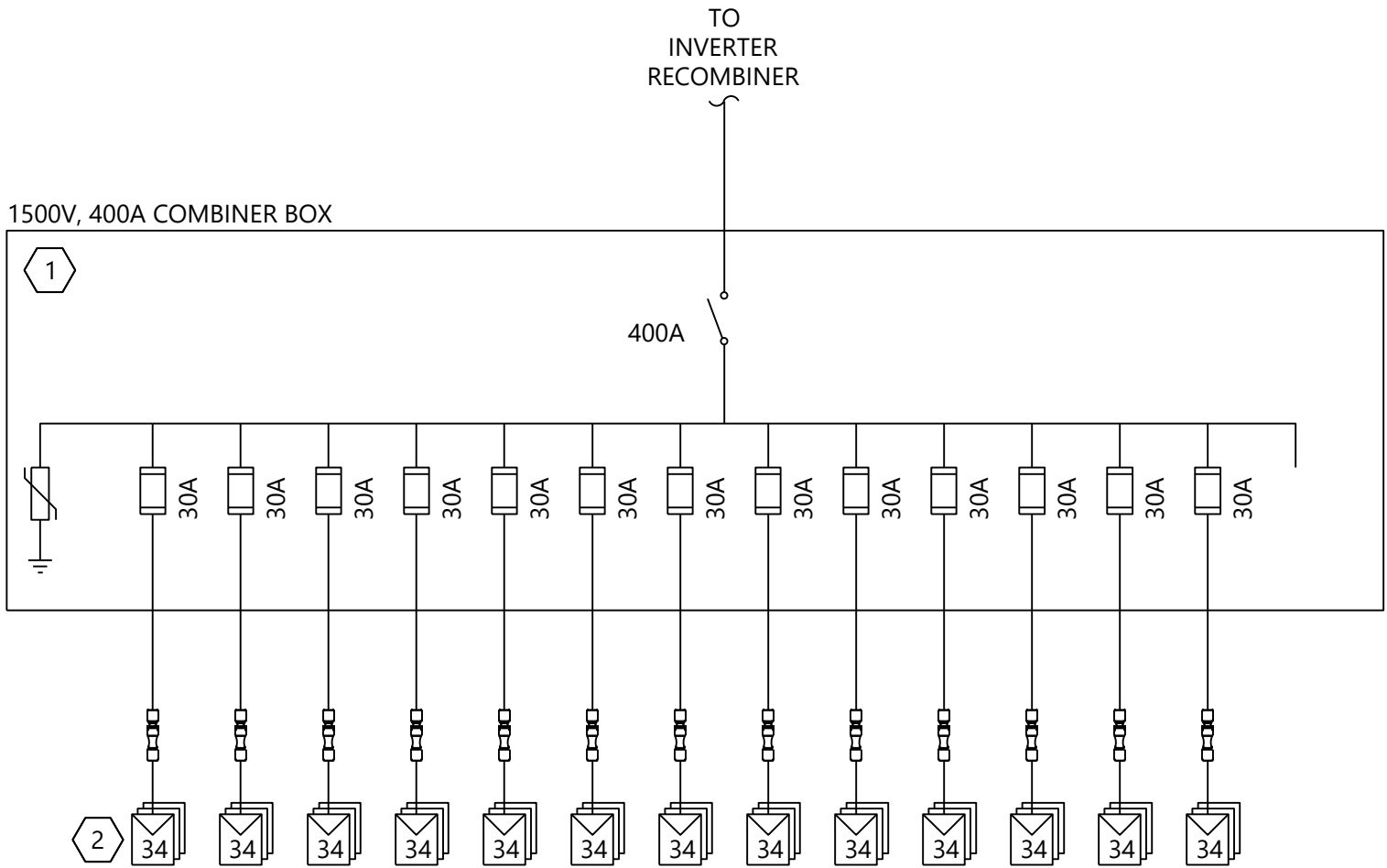
1 Combiner Box DC Single Line Diagram - 14 Strings



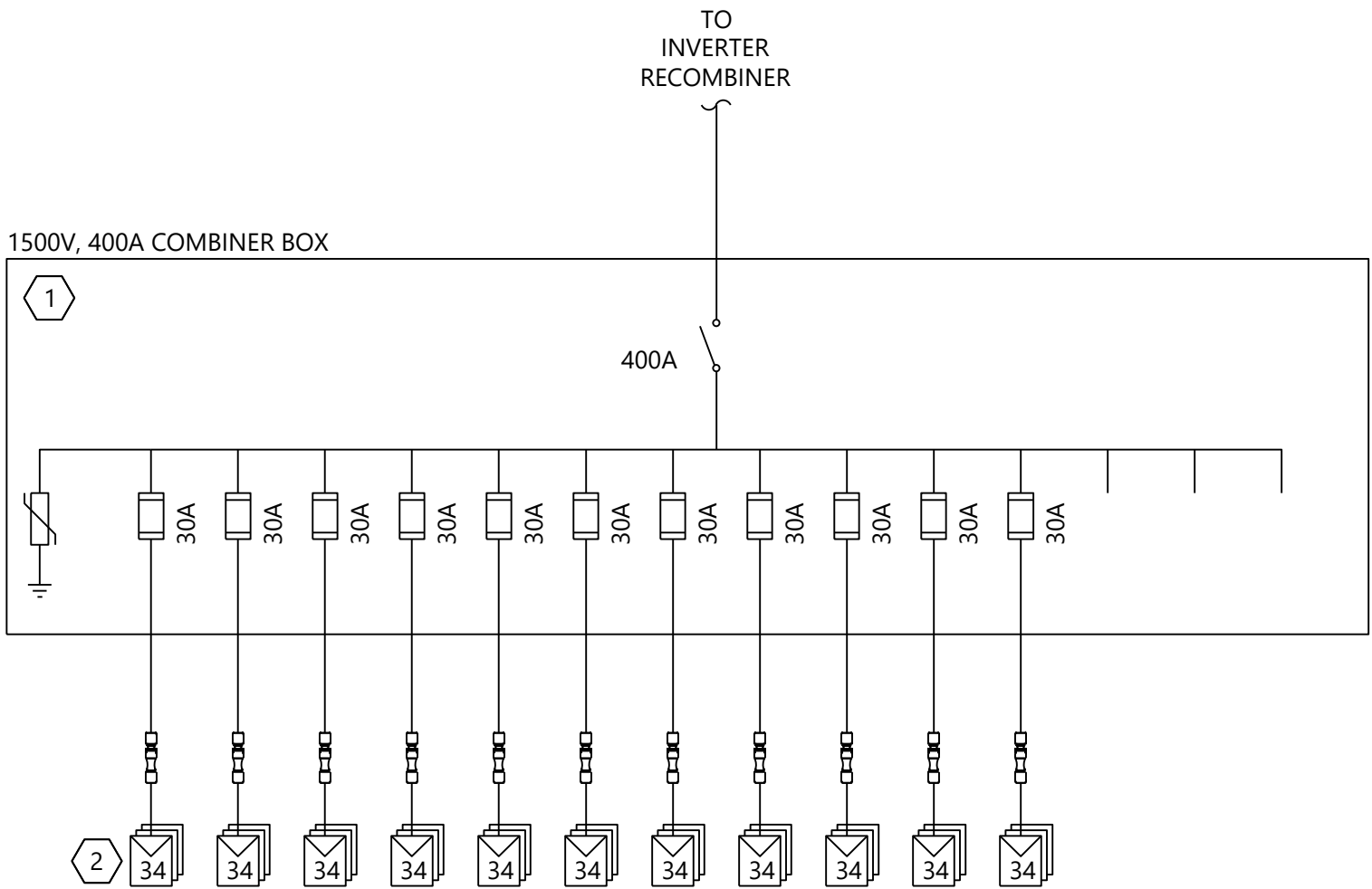
3 Combiner Box DC Single Line Diagram - 12 Strings



5 Combiner Box DC Single Line Diagram - 10 Strings



2 Combiner Box DC Single Line Diagram - 13 Strings



4 Combiner Box DC Single Line Diagram - 11 Strings

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL, ALUMINUM, 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10 AWG, COPPER, 2000V PV WIRE.

KEY NOTES:

1. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUNDED. PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. INDIVIDUAL STRINGS SHALL BE FUSED AT THE COMBINER BOX WITH 30A FUSES AS SHOWN. SHALL BE PROVIDED WITH SURGE ARRESTORS.
2. MODULES SUPPLIED BY OWNER. SEE DC LEVEL 1 SCHEDULES FOR MODULE DISTRIBUTION. INCLUDE 2000V OUTDOOR RATED CONNECTORS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. MATCH MODULE MANUFACTURER PROVIDED CONNECTOR. INSTALL CONNECTOR WITH APPROVED TOOLS AND ASSEMBLY PROCESS TO MAINTAIN CONNECTOR LISTING. MODULE IS UL-LISTED FOR 1500V OPERATION.



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Juno Beach, FL 33408

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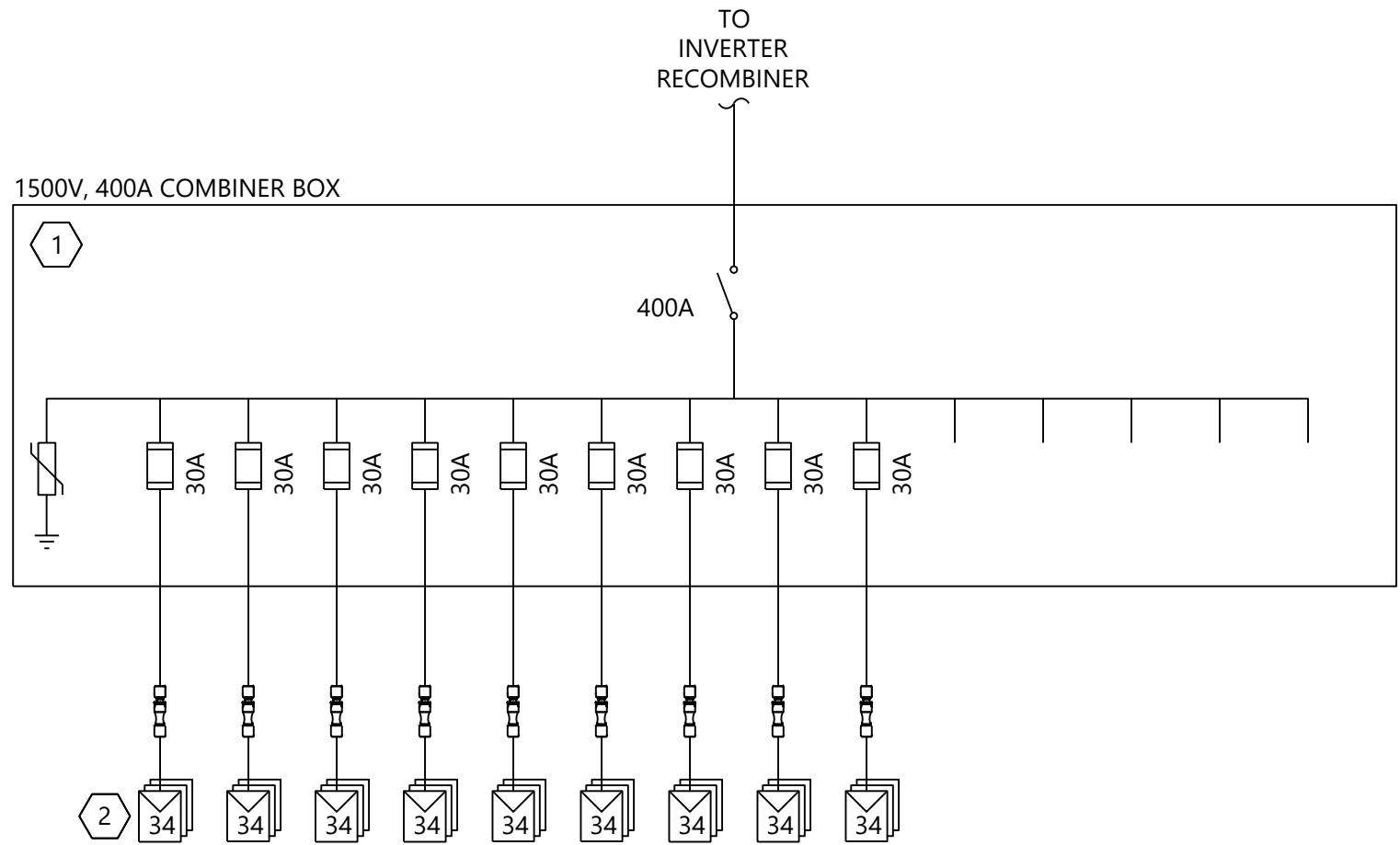
Schoharie County, New York

DC Level 1 Single Line
Diagrams - Trina

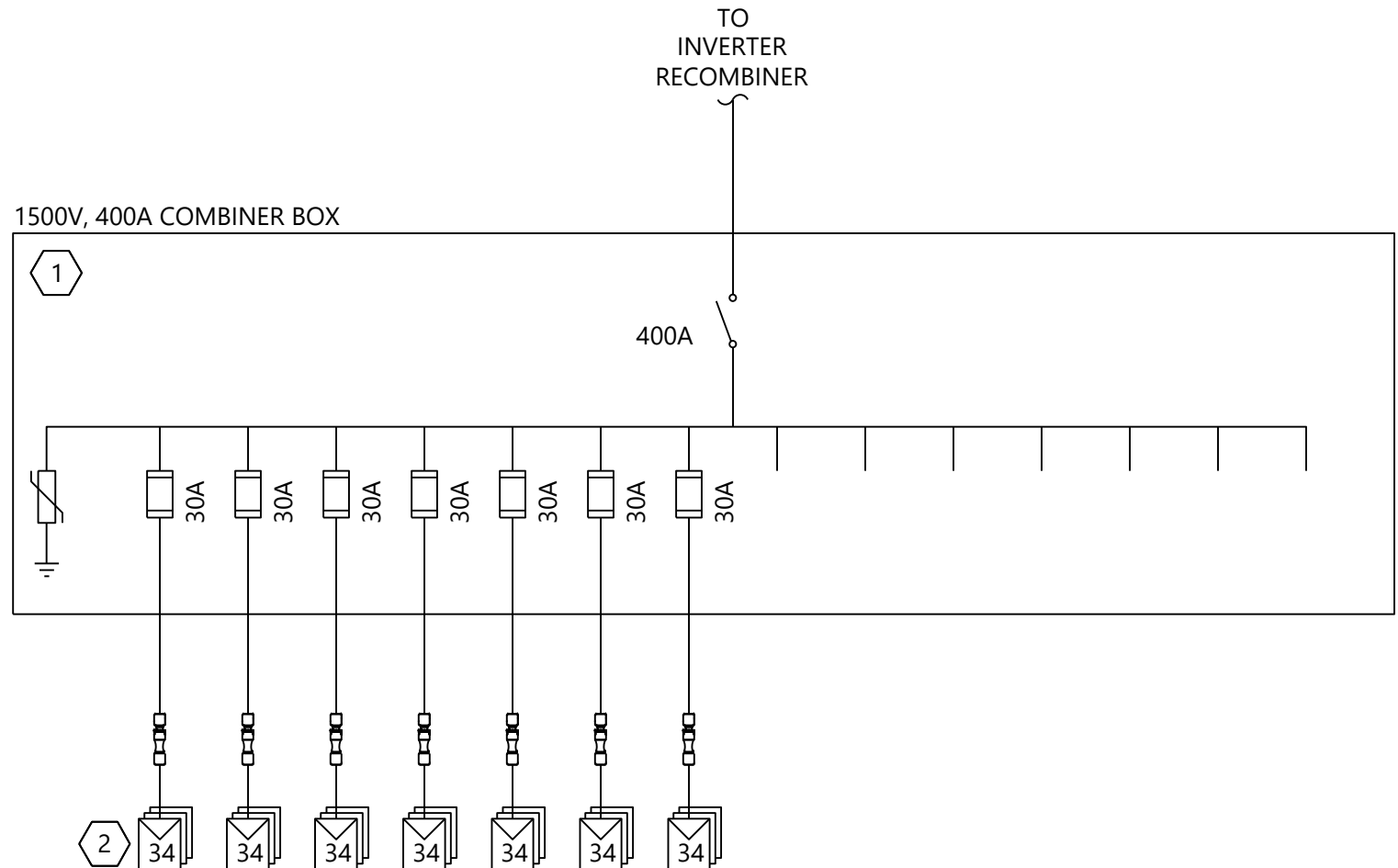
DATE: 06/26/2024

SHEET: E.220

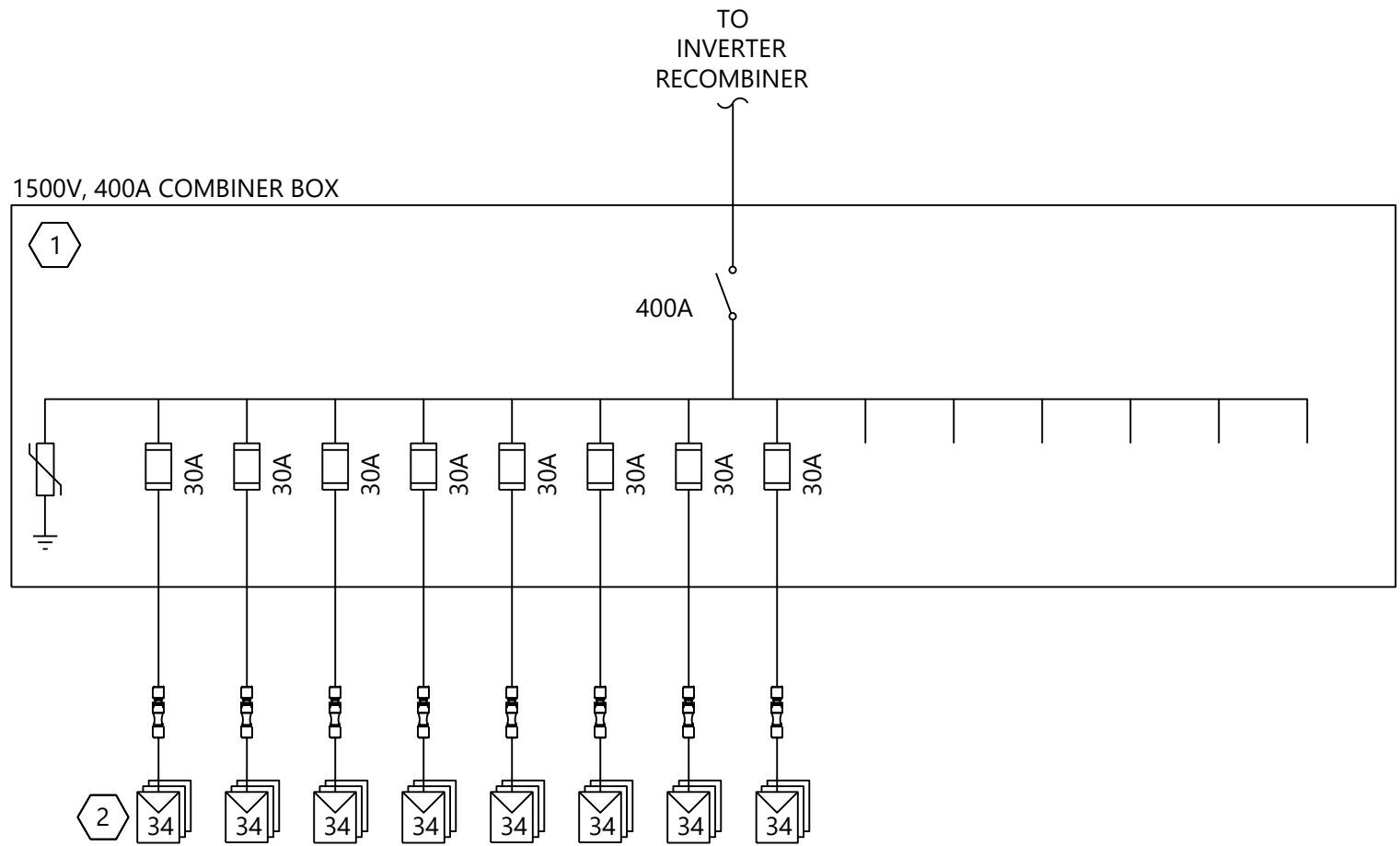
0020541401 East Point Energy 0020541401 E.221 - DC Level 1 Single Line Diagrams.dwg 6/26/2024 3:30 PM Austin Koenig



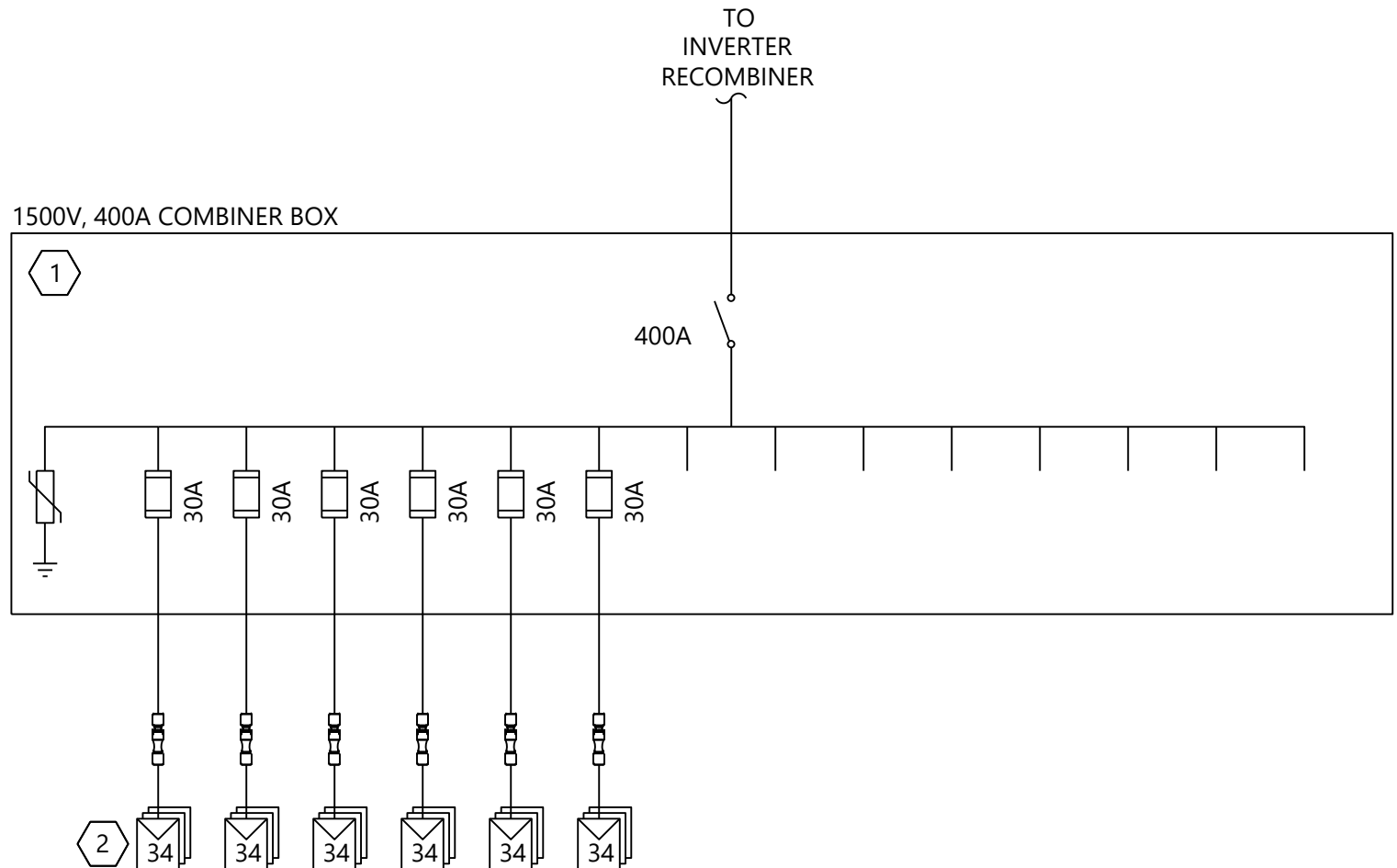
1 Combiner Box DC Single Line Diagram - 9 Strings



3 Combiner Box DC Single Line Diagram - 7 Strings



2 Combiner Box DC Single Line Diagram - 8 Strings



4 Combiner Box DC Single Line Diagram - 6 Strings

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1451.19V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 22.71A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL, ALUMINUM, 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10 AWG, COPPER, 2000V PV WIRE.

KEY NOTES:

1. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUNDED. PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. INDIVIDUAL STRINGS SHALL BE FUSED AT THE COMBINER BOX WITH 30A FUSES AS SHOWN. SHALL BE PROVIDED WITH SURGE ARRESTORS.
2. MODULES SUPPLIED BY OWNER. SEE DC LEVEL 1 SCHEDULES FOR MODULE DISTRIBUTION. INCLUDE 2000V OUTDOOR RATED CONNECTORS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. MATCH MODULE MANUFACTURER PROVIDED CONNECTOR. INSTALL CONNECTOR WITH APPROVED TOOLS AND ASSEMBLY PROCESS TO MAINTAIN CONNECTOR LISTING. MODULE IS UL-LISTED FOR 1500V OPERATION.



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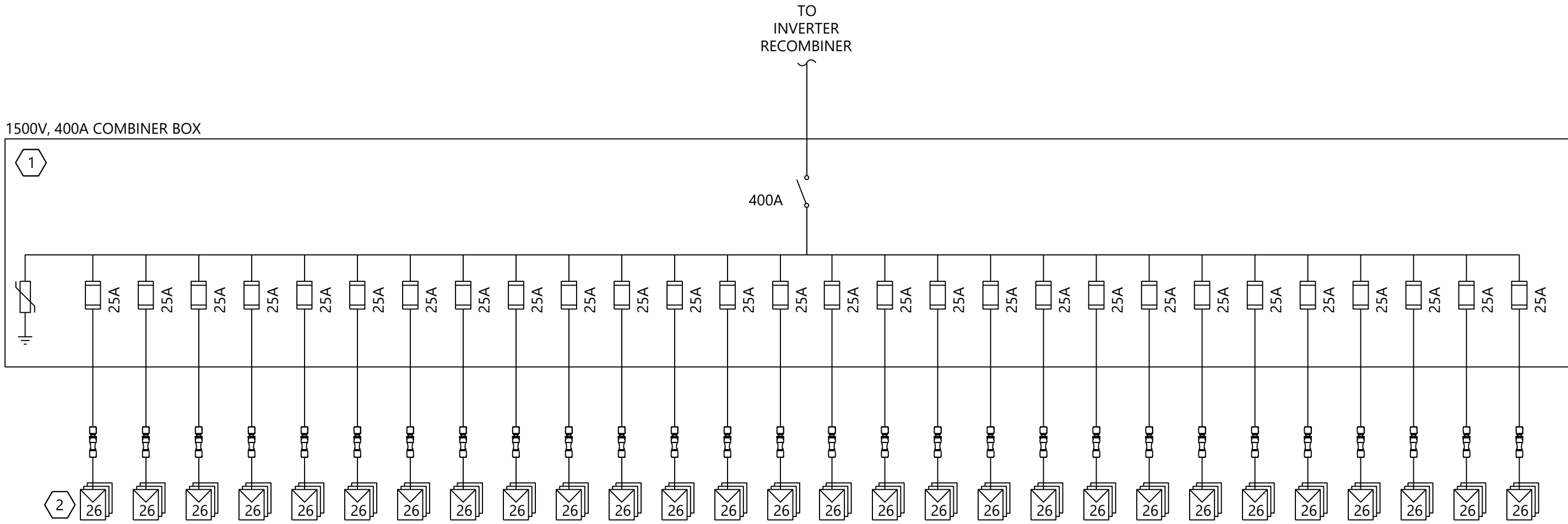
Schoharie County, New York

DC Level 1 Single Line
Diagrams - Trina

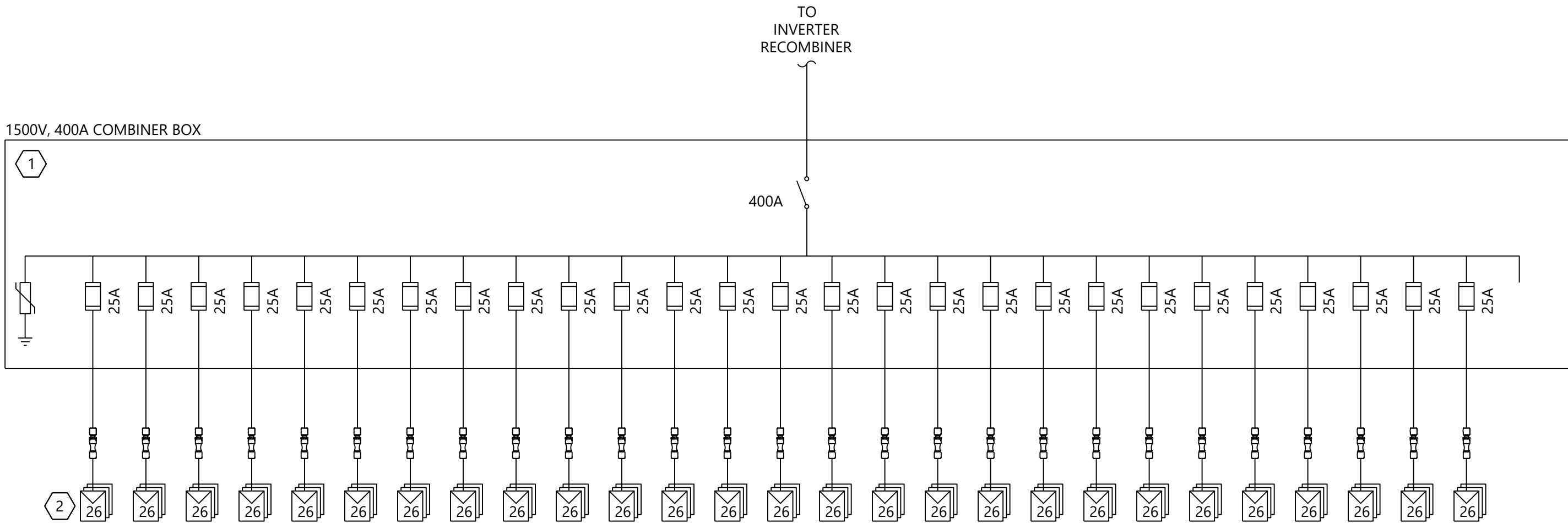
DATE: 06/26/2024

SHEET: E.221

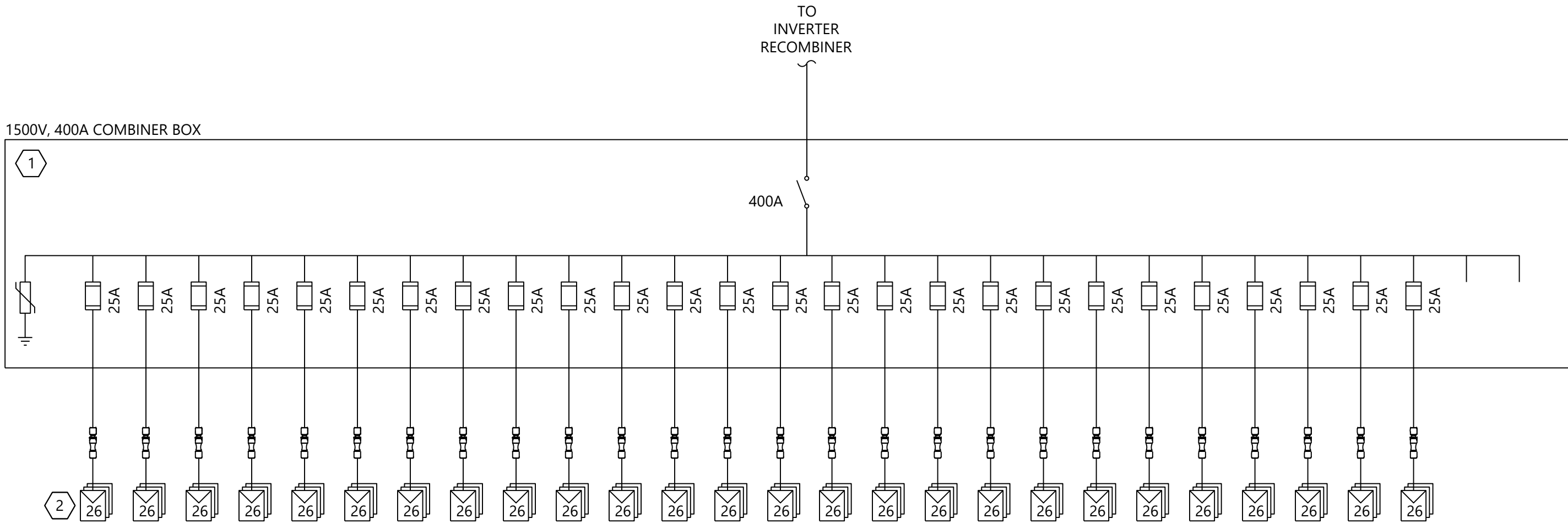
06/26/24 14:41 Westwood Electrical 00254101 E.222 - DC Level 1 Single Line Diagram.dwg 6/26/2024 3:30 PM Austin Kovacs



1 Combiner Box DC Single Line Diagram - 28 Strings



2 Combiner Box DC Single Line Diagram - 27 Strings



3 Combiner Box DC Single Line Diagram - 26 Strings

NOTES:

1. SEE SHEET E.103 FOR SYMBOLS AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
9. AMBIENT GROUND TEMPERATURE IS ASSUMED 25°C AT BURIAL DEPTH.
10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1392.23V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 10.86A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL, ALUMINUM, 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG, COPPER, 2000V PV WIRE.

KEY NOTES:

1. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUNDED. PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. INDIVIDUAL STRINGS SHALL BE FUSED AT THE COMBINER BOX WITH 25A FUSES AS SHOWN. SHALL BE PROVIDED WITH SURGE ARRESTORS.
2. MODULES SUPPLIED BY OWNER. SEE DC LEVEL 1 SCHEDULES FOR MODULE DISTRIBUTION. INCLUDE 2000V OUTDOOR RATED CONNECTORS FOR MODULE STRING CONNECTIONS. DO NOT REMOVE QUICK CONNECTS. MATCH MODULE MANUFACTURER PROVIDED CONNECTOR. INSTALL CONNECTOR WITH APPROVED TOOLS AND ASSEMBLY PROCESS TO MAINTAIN CONNECTOR LISTING. MODULE IS UL-LISTED FOR 1500V OPERATION.



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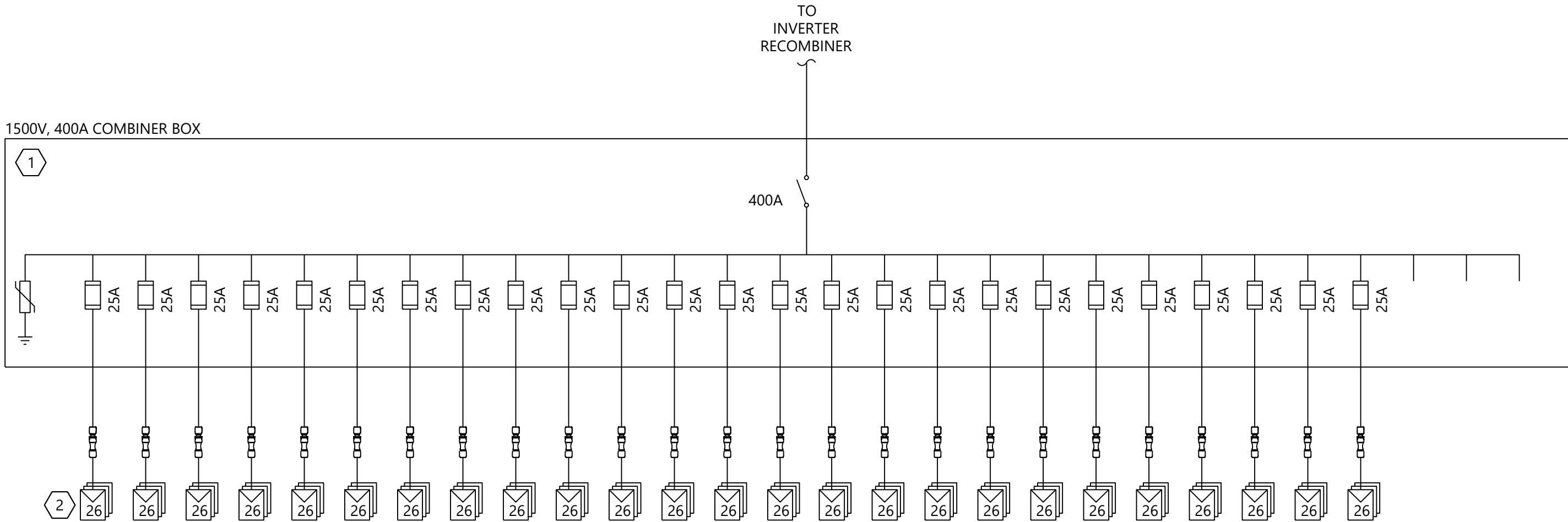
Schoharie County, New York

DC Level 1 Single Line
Diagrams - JA Solar

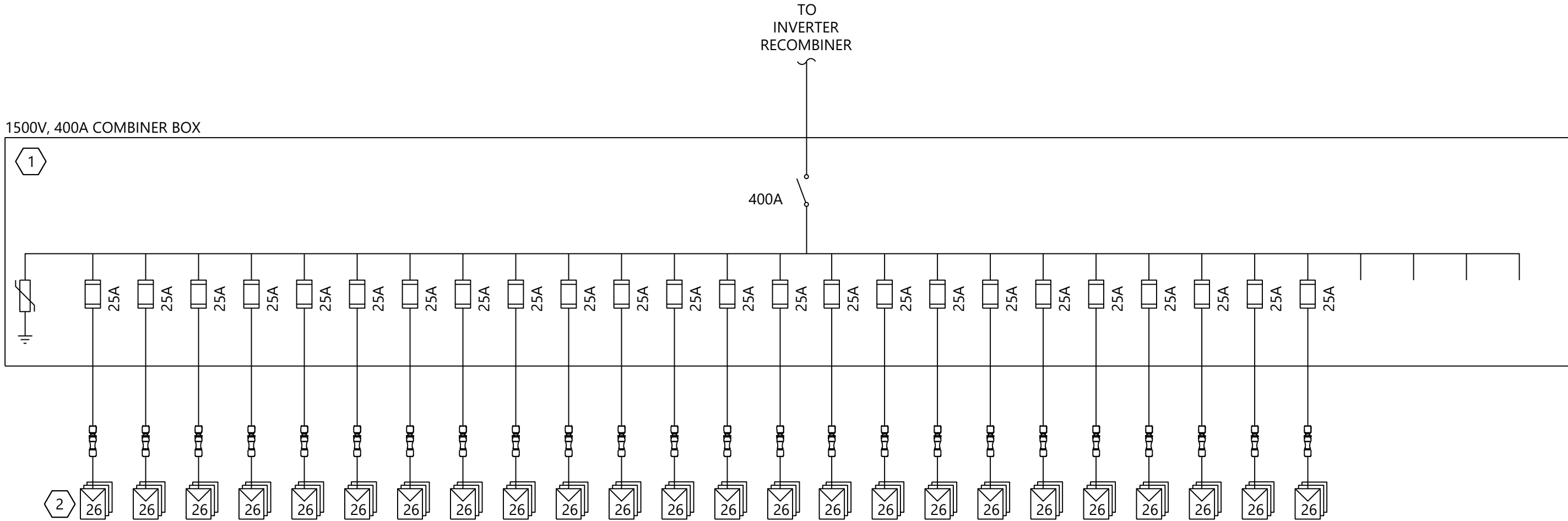
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SHEET: E.222

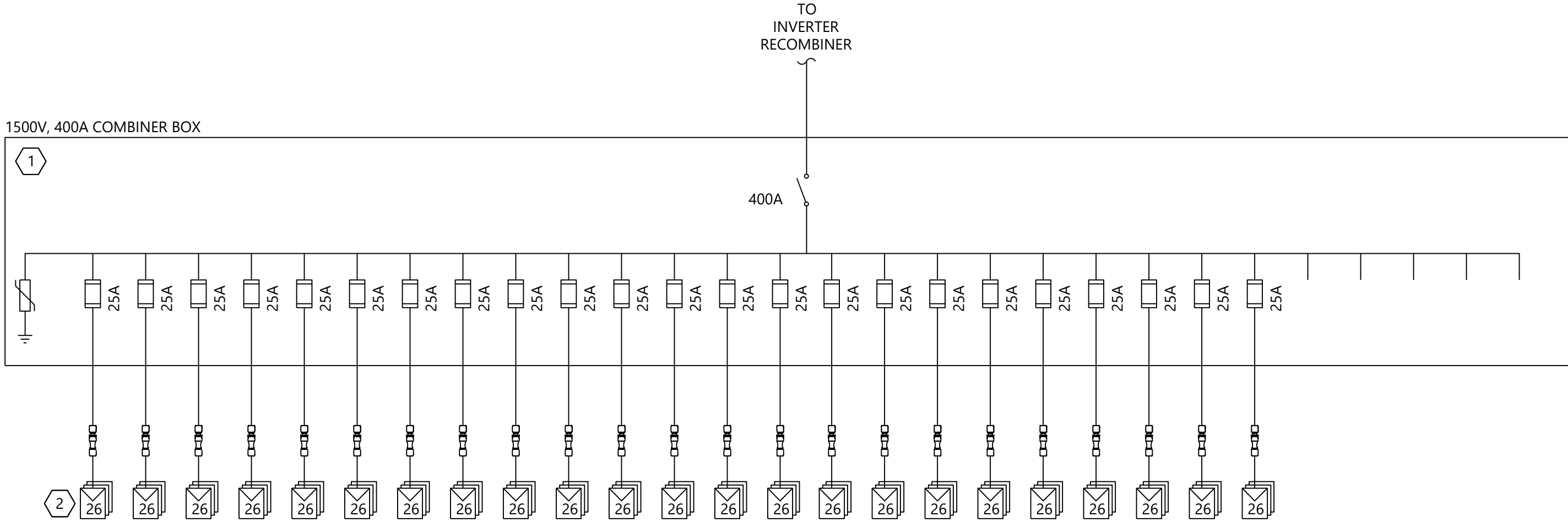
06/26/24 14:01 Westwood Electrical 002541-01 E.223 - DC Level 1 Single Line Diagrams.dwg 6/26/2024 3:30 PM Austin Kovacs



1 Combiner Box DC Single Line Diagram - 25 Strings



2 Combiner Box DC Single Line Diagram - 24 Strings



3 Combiner Box DC Single Line Diagram - 23 Strings

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
8. AMBIENT AIR TEMPERATURE IS ASSUMED 34.1°C PER ASHRAE 2017 ALBANY INTL, NY, USA (WMO: 725180) AS THE MAXIMUM MEAN DRY BULB TEMPERATURE.
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10. MAXIMUM VOLTAGE DETERMINED PER 690.7(A)(3) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM VOLTAGE WAS DETERMINED TO BE 1392.23V.
11. MAXIMUM CIRCUIT CURRENT WAS DETERMINED PER 690.8(A)(1)(2) USING NREL SAM ANALYSIS FOR 20 YEARS OF HISTORICAL DATA FOR THE LOCATION. MAXIMUM CIRCUIT CURRENT FOR THE MODULE WAS DETERMINED TO BE 10.86A.
12. DC FEEDERS FROM THE INVERTER RECOMBINER TO THE COMBINER BOX SHALL BE 750KCMIL, ALUMINUM, 2000V PV WIRE.
13. DC STRING CONDUCTORS FROM THE COMBINER BOX TO THE MODULE WHIPS SHALL BE #10AWG, COPPER, 2000V PV WIRE.

KEY NOTES:

1. FUSED COMBINER BOX INTEGRATED DISCONNECT RATED FOR 1500VDC. SYSTEM IS NEGATIVE (FUNCTIONALLY) GROUND. PROVIDED COMBINER BOX THAT DISCONNECTS BOTH POSITIVE AND NEGATIVE LEGS. INDIVIDUAL STRINGS SHALL BE FUSED AT THE COMBINER BOX WITH 25A FUSES AS SHOWN. SHALL BE PROVIDED WITH SURGE ARRESTORS.
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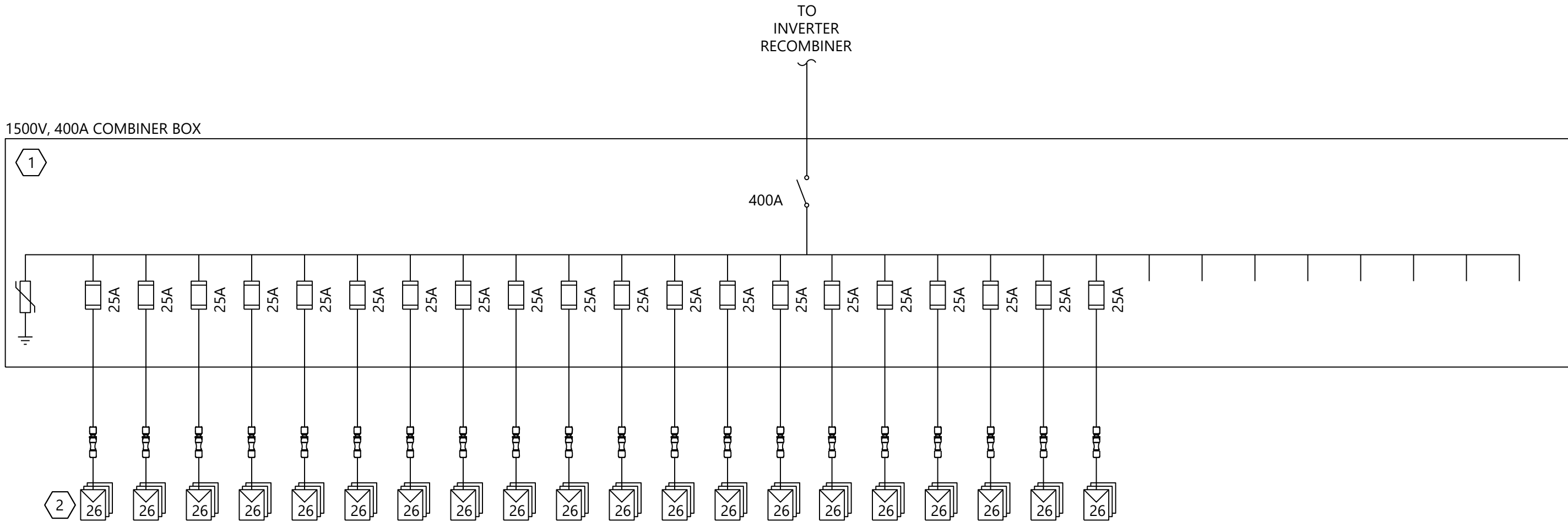
Schoharie County, New York

DC Level 1 Single Line
Diagrams - JA Solar

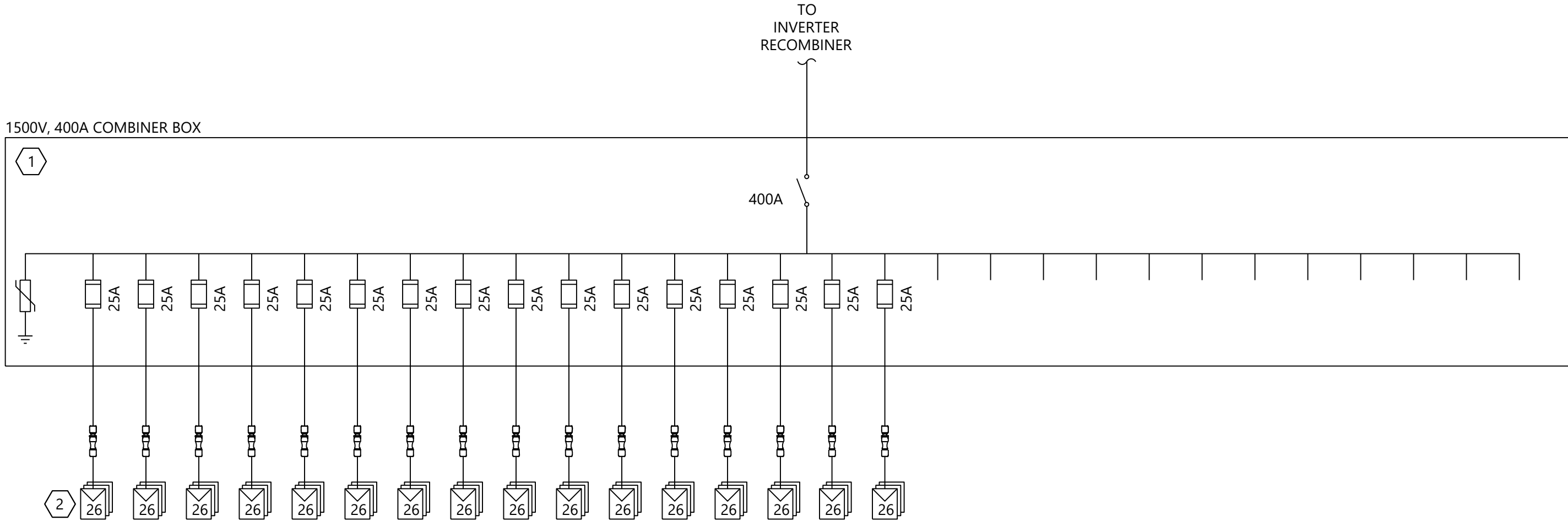
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SHEET: E.223

06/26/24 14:41 West Electric 002541-01 E.224 - DC Level 1 Single Line Diagram.dwg 6/26/2024 3:50 PM Austin Koenig



1 Combiner Box DC Single Line Diagram - 20 Strings



2 Combiner Box DC Single Line Diagram - 16 Strings

NOTES:

1. SEE SHEET E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
2. SEE SHEETS E.401 THRU E.415 FOR DC LEVEL 2 SCHEDULES.
3. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR INVERTER STATION DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
4. CONTRACTOR TO PROVIDE AND INSTALL WIRING AND EQUIPMENT EXTERNAL TO THE INVERTER STATION AS SHOWN.
5. SEE SHEETS E.401 THRU E.415 FOR DC SITE PLANS.
6. CABLES ARE SIZED PER NEC 690.8(B).
7. FUSES ARE SIZED PER NEC 690.8(A)(2) AND 690.9(B).
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KEY NOTES:

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DC Level 1 Single Line
Diagrams - JA Solar

DATE: 06/26/2024

SHEET: E.224



- NOTES:
1. SEE SHEETS E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
 2. SEE SHEET E.200 FOR MVAC SINGLE LINE DIAGRAM.
 3. SEE SHEET E.200 FOR MVAC SCHEDULES.
 4. SEE SHEETS E.350 THRU E.351 FOR MVAC DETAILS.
 5. SEE SHEET E.650 FOR MV/FO TRENCH DETAILS.
 6. PROVIDE CONDUIT FOR ALL DC,FO, & MV ROAD CROSSINGS. CONDUITS SHALL EXTEND 4'-0" FROM BEYOND EACH ROAD EDGE. SEE SHEETS E.650 & E.651 FOR MORE INFORMATION
 7. EACH GROUP OF MV FEEDERS NEEDS TO BE GPS LOCATED AND FLAGGED ON SITE.

- LEGEND:
- X— SECURITY FENCE
 - UMV11— UNDERGROUND MEDIUM VOLTAGE CIRCUIT 11
 - UMV12— UNDERGROUND MEDIUM VOLTAGE CIRCUIT 12
 - INVERTER STATION
 - ROAD
 - POND

- KEYNOTES:
- ① PULL BOX

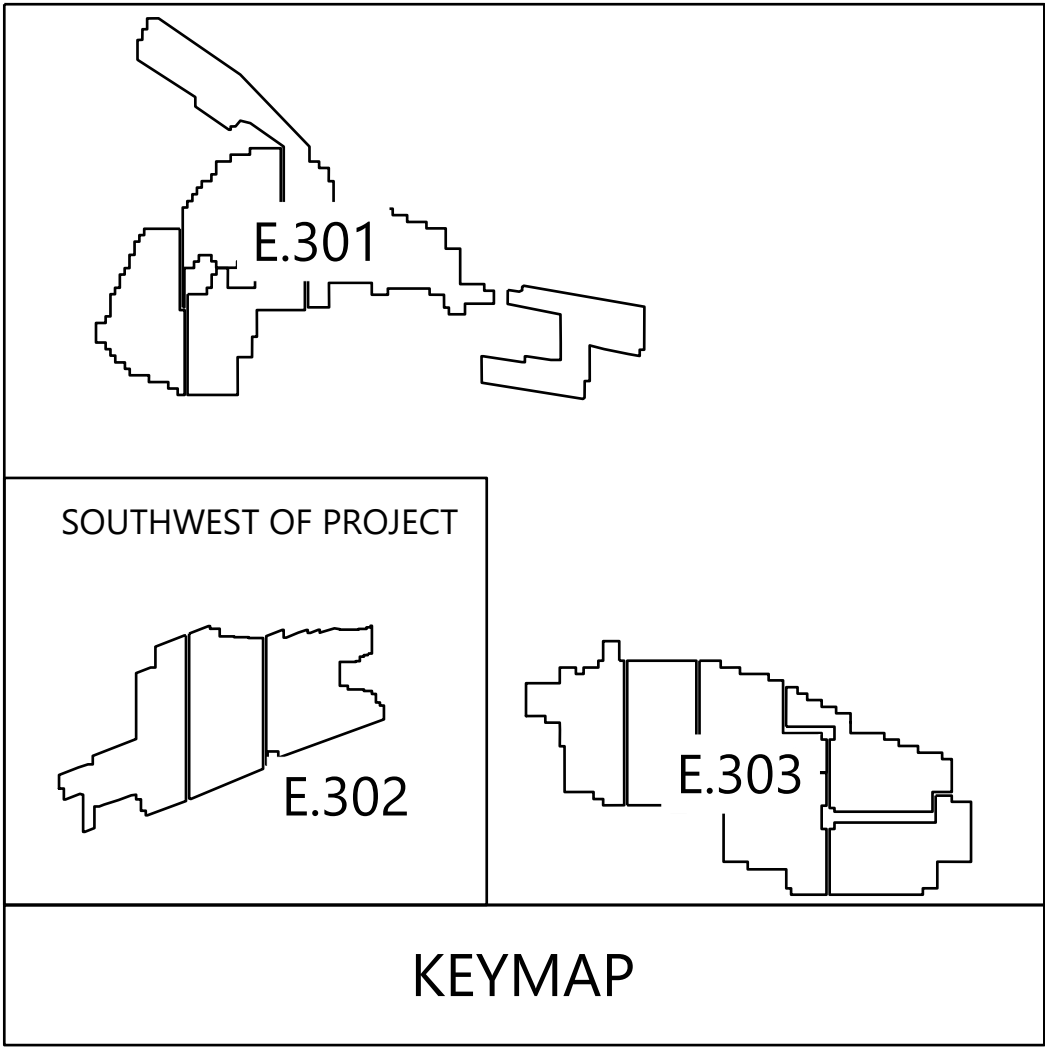
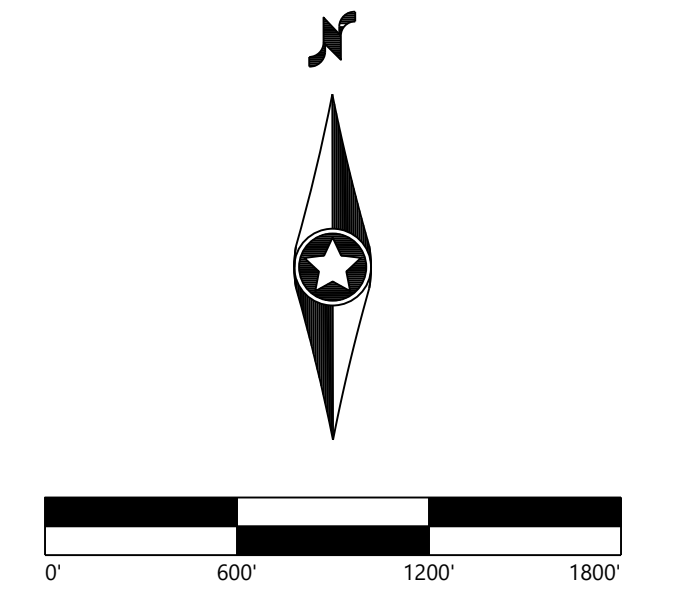


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East Point Energy Center

Schoharie County, New York

MVAC Overall Site Plan

DATE: 06/26/2024

SHEET: E.300



- NOTES:
1. SEE SHEETS E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
 2. SEE SHEET E.200 FOR MVAC SINGLE LINE DIAGRAM.
 3. SEE SHEET E.200 FOR MVAC SCHEDULES
 4. SEE SHEETS E.350 THRU E.351 FOR MVAC DETAILS.
 5. SEE SHEET E.650 FOR MV/FO TRENCH DETAILS.
 6. PROVIDE CONDUIT FOR ALL DC,FO, & MV ROAD CROSSINGS. CONDUITS SHALL EXTEND 4'-0" FROM BEYOND EACH ROAD EDGE. SEE SHEETS E.650 & E.651 FOR MORE INFORMATION
 7. EACH GROUP OF MV FEEDERS NEEDS TO BE GPS LOCATED AND FLAGGED ON SITE.

- LEGEND:
- x — SECURITY FENCE
 - UMV11 — UNDERGROUND MEDIUM VOLTAGE CIRCUIT 11
 - UMV12 — UNDERGROUND MEDIUM VOLTAGE CIRCUIT 12
 - DRAINAGE CROSSING
 - INVERTER STATION
 - ROAD

- KEYNOTES:
- 1 BORE PIT LOCATION.

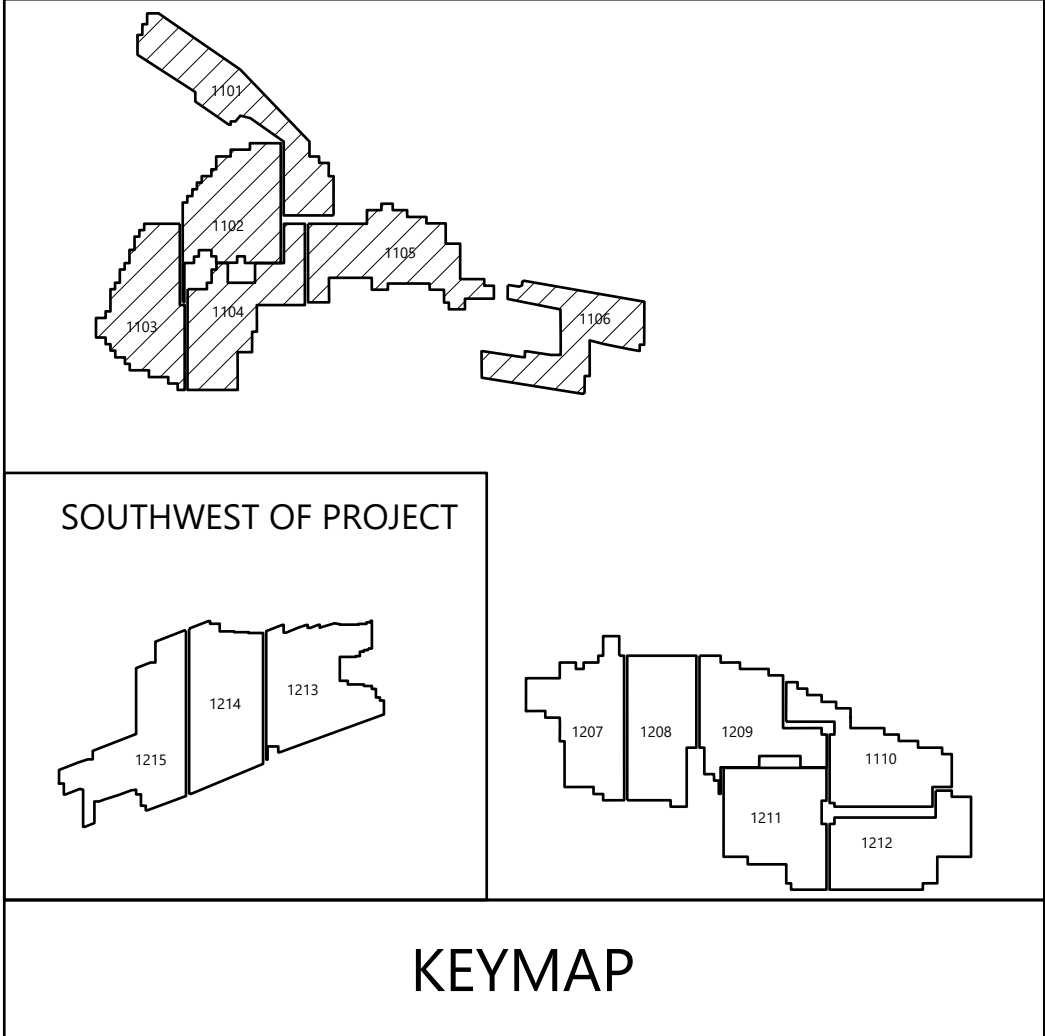
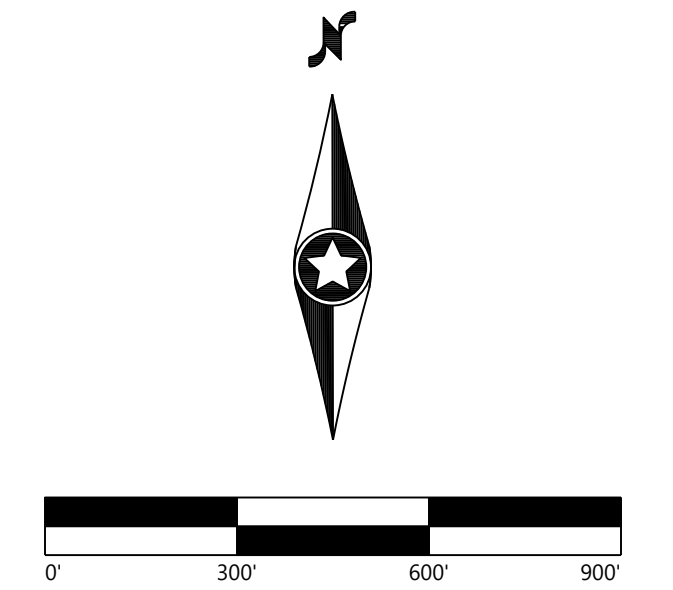


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MATCHLINE - SEE SHEET E.301 FOR CONTINUATION

MATCHLINE - SEE SHEET E.303 FOR CONTINUATION

- NOTES:
1. SEE SHEETS E.103 FOR SYMBOLS AND ABBREVIATIONS.
 2. SEE SHEET E.200 FOR MVAC SINGLE LINE DIAGRAM.
 3. SEE SHEET E.200 FOR MVAC SCHEDULES.
 4. SEE SHEETS E.350 THRU E.351 FOR MVAC DETAILS.
 5. SEE SHEET E.650 FOR MV/FO TRENCH DETAILS.
 6. PROVIDE CONDUIT FOR ALL DC, FO, & MV ROAD CROSSINGS. CONDUITS SHALL EXTEND 4'-0" FROM BEYOND EACH ROAD EDGE. SEE SHEETS E.650 & E.651 FOR MORE INFORMATION.
 7. EACH GROUP OF MV FEEDERS NEEDS TO BE GPS LOCATED AND FLAGGED ON SITE.

- LEGEND:
- x — SECURITY FENCE
 - U/MV11 — UNDERGROUND MEDIUM VOLTAGE CIRCUIT 11
 - U/MV12 — UNDERGROUND MEDIUM VOLTAGE CIRCUIT 12
 - ▨ DRAINAGE CROSSING
 - INVERTER STATION
 - ROAD

- KEYNOTES:
- ① BORE PIT LOCATION
 - ② PULL BOX LOCATION

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Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 www.pc.com
Westwood Surveying and Engineering, P.C.

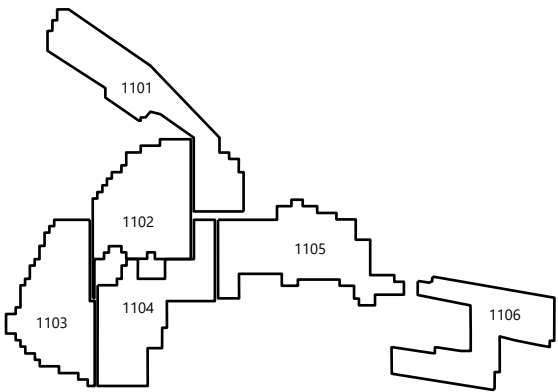
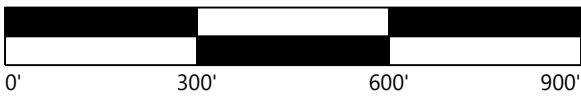


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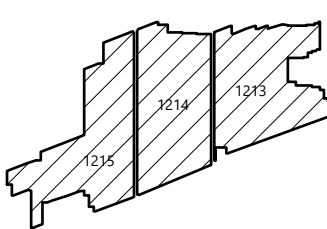


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SOUTHWEST OF PROJECT



KEYMAP

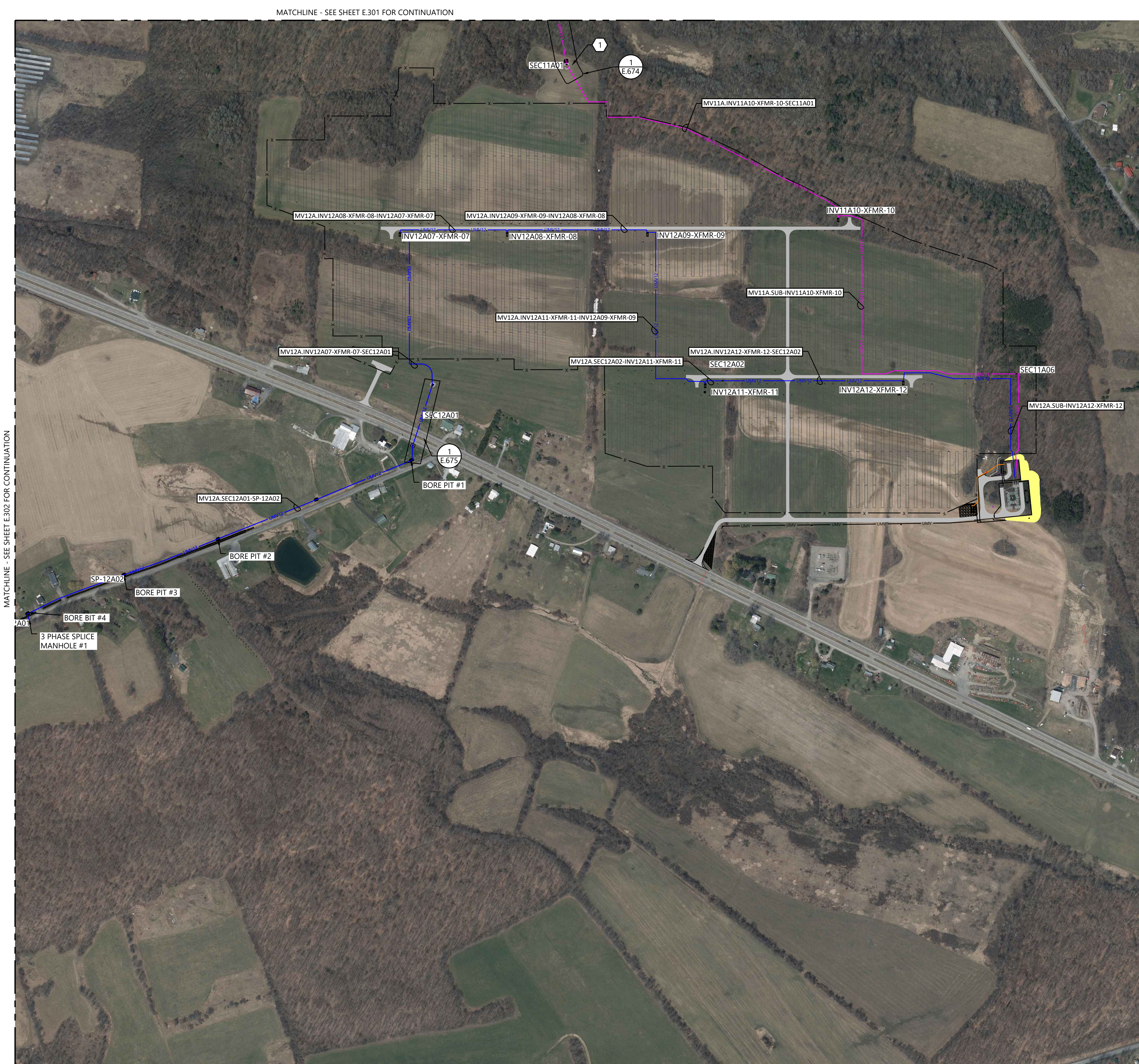
East Point Energy Center

Schoharie County, New York

MVAC Site Plan - Southwest

DATE: 06/26/2024

SHEET: E.302



- NOTES:
1. SEE SHEETS E.103 FOR SYMBOLOGY AND ABBREVIATIONS.
 2. SEE SHEET E.200 FOR MVAC SINGLE LINE DIAGRAM.
 3. SEE SHEET E.200 FOR MVAC SCHEDULES.
 4. SEE SHEETS E.350 THRU E.351 FOR MVAC DETAILS.
 5. SEE SHEET E.650 FOR MV/FO TRENCH DETAILS.
 6. PROVIDE CONDUIT FOR ALL DC,FO, & MV ROAD CROSSINGS. CONDUITS SHALL EXTEND 4'-0" FROM BEYOND EACH ROAD EDGE. SEE SHEETS E.650 & E.651 FOR MORE INFORMATION
 7. EACH GROUP OF MV FEEDERS NEEDS TO BE GPS LOCATED AND FLAGGED ON SITE.

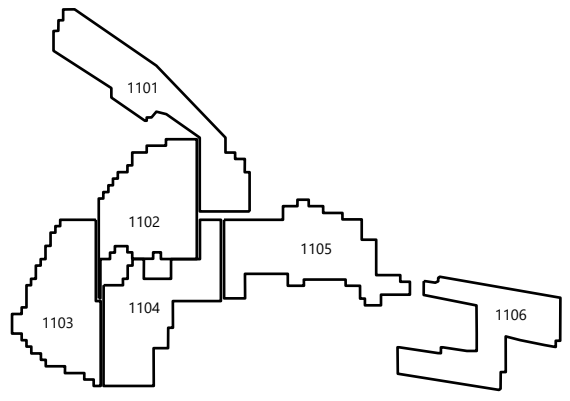
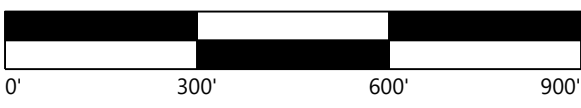
- LEGEND:
- X— SECURITY FENCE
 - UMV11— UNDERGROUND MEDIUM VOLTAGE CIRCUIT 11
 - UMV12— UNDERGROUND MEDIUM VOLTAGE CIRCUIT 12
 - ▨ DRAINAGE CROSSING
 - INVERTER STATION
 - ROAD

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Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 www.pc.com
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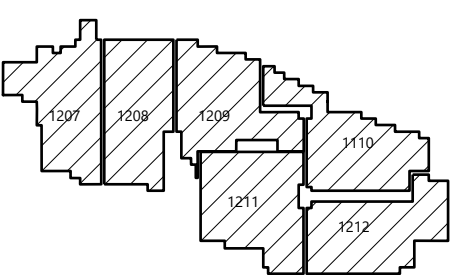
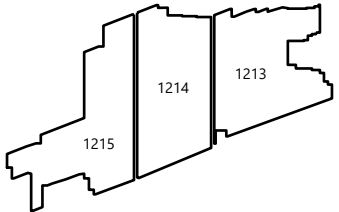


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SOUTHWEST OF PROJECT

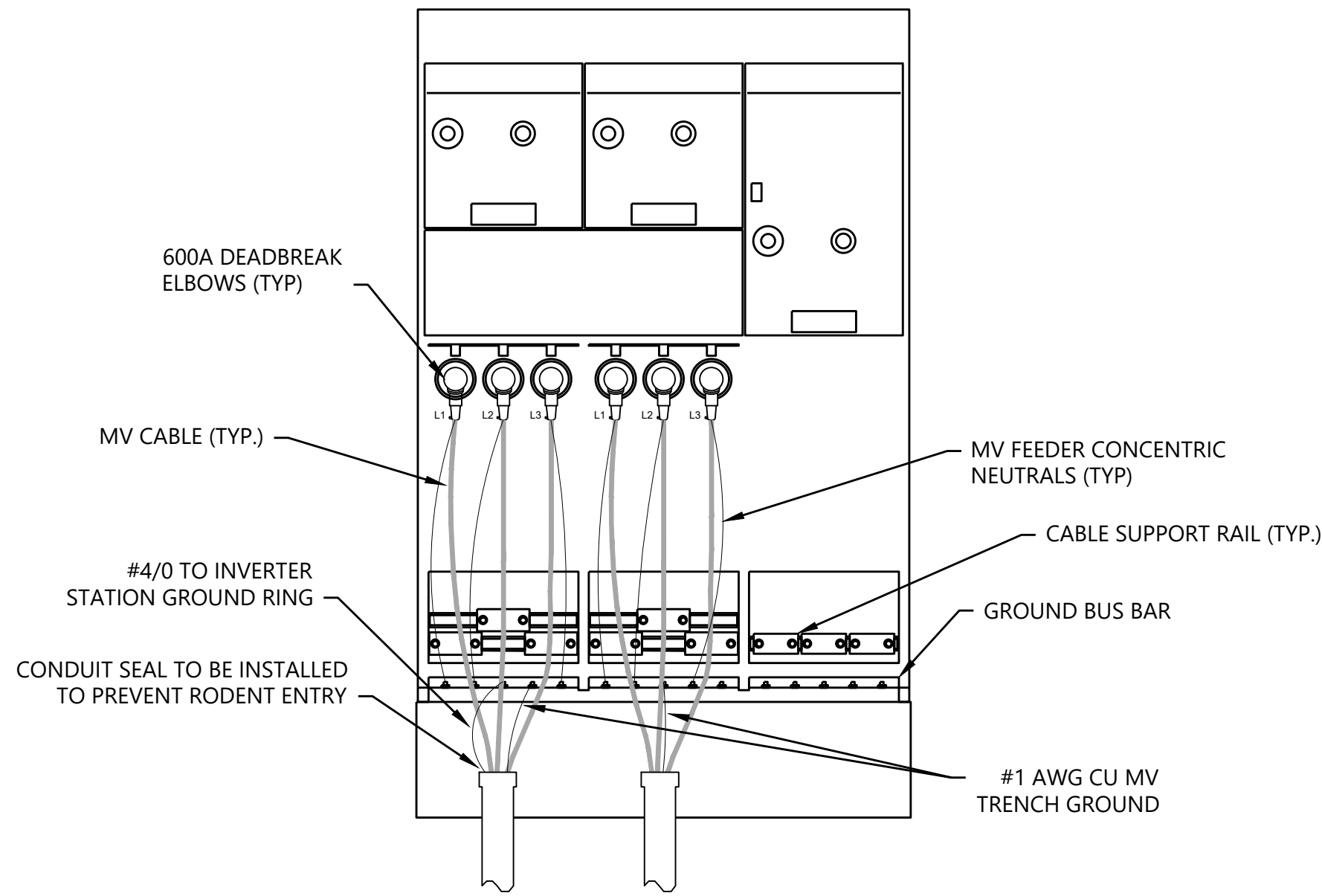


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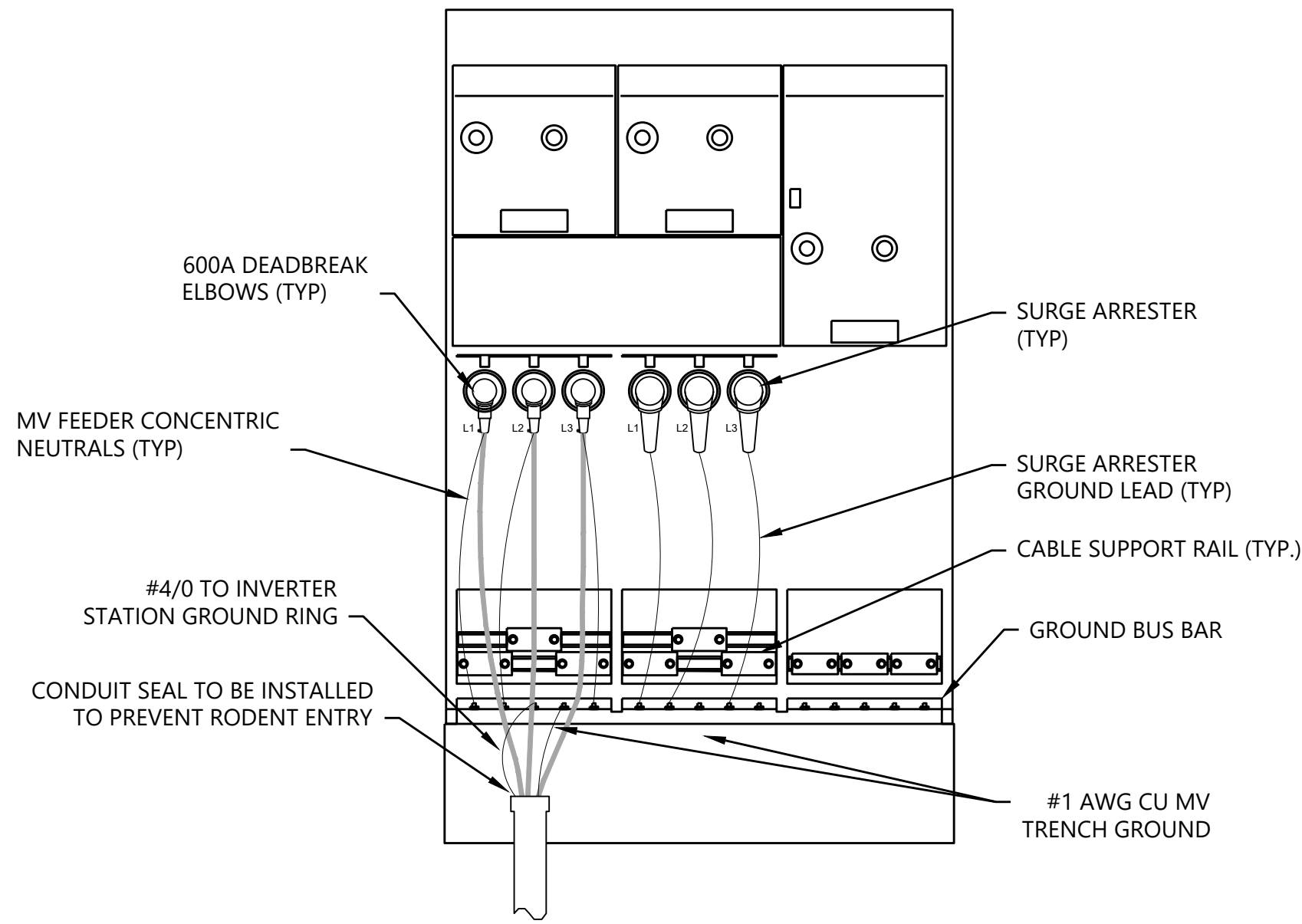
East Point Energy
Center
Schoharie County, New York

MVAC Site Plan -
Southeast

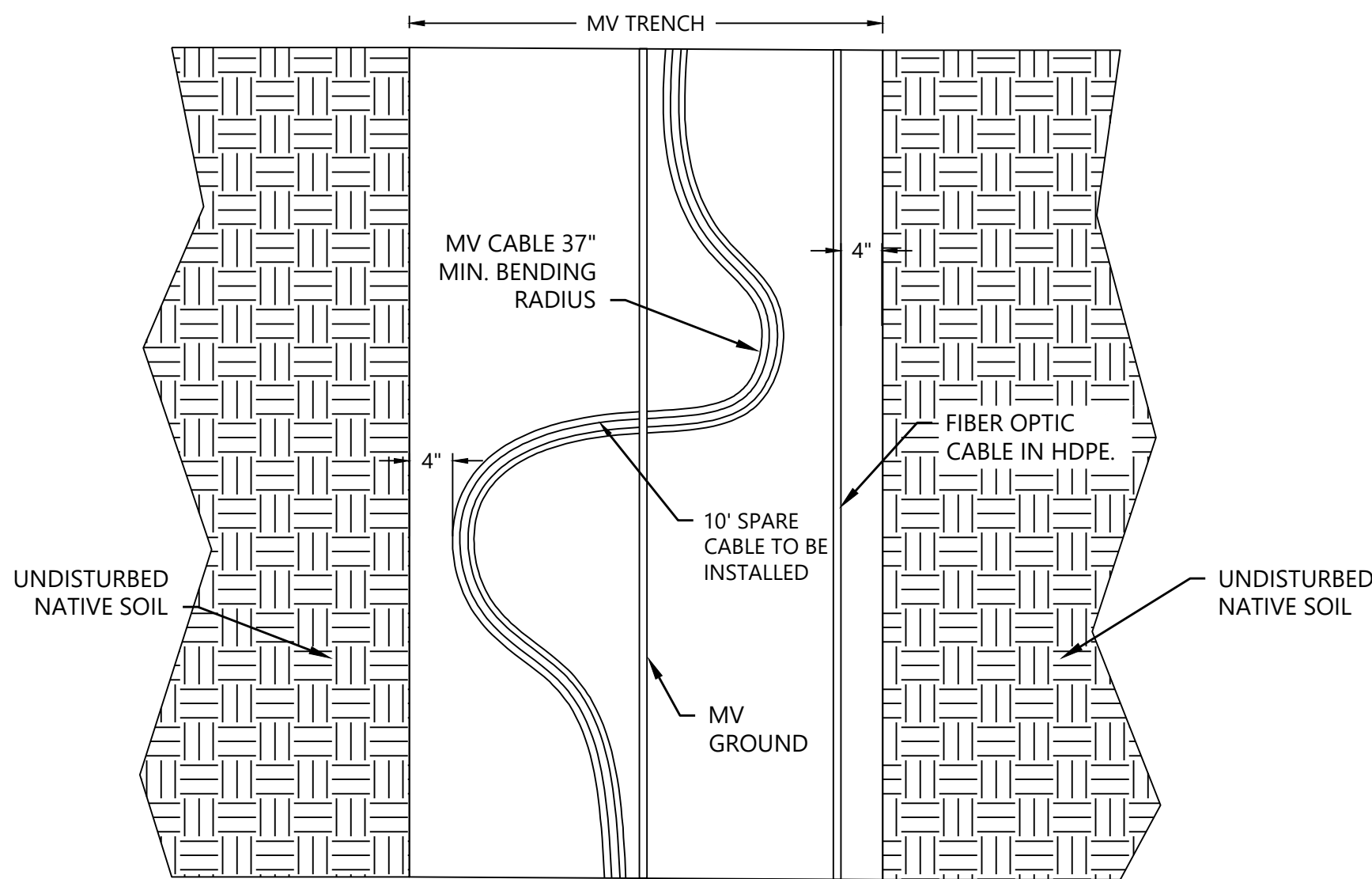
DATE: 06/26/2024
SHEET: E.303



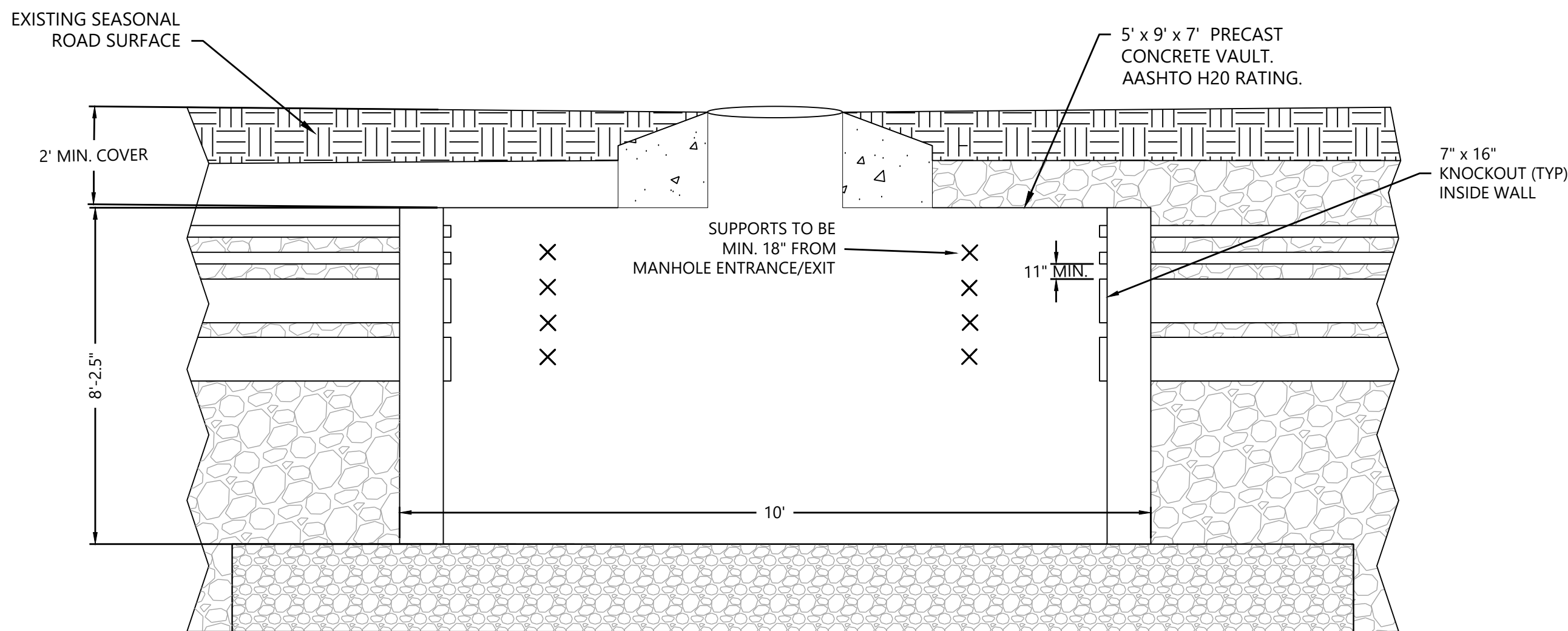
1 MVAC Switchgear Connection & Grounding
NTS



2 End of Circuit MVAC Switchgear Connection & Grounding
NTS



3 MV Cable S Bend Detail
NTS



4 MV Pull Box Detail
NTS

NOTES:

1. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
2. REFER TO SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
3. REFER TO SHEET E.200 FOR MVAC ONELINE DIAGRAM.
4. REFER TO SHEETS E.300 THRU E.303 FOR MVAC SITE PLANS & WIRE SCHEDULES.



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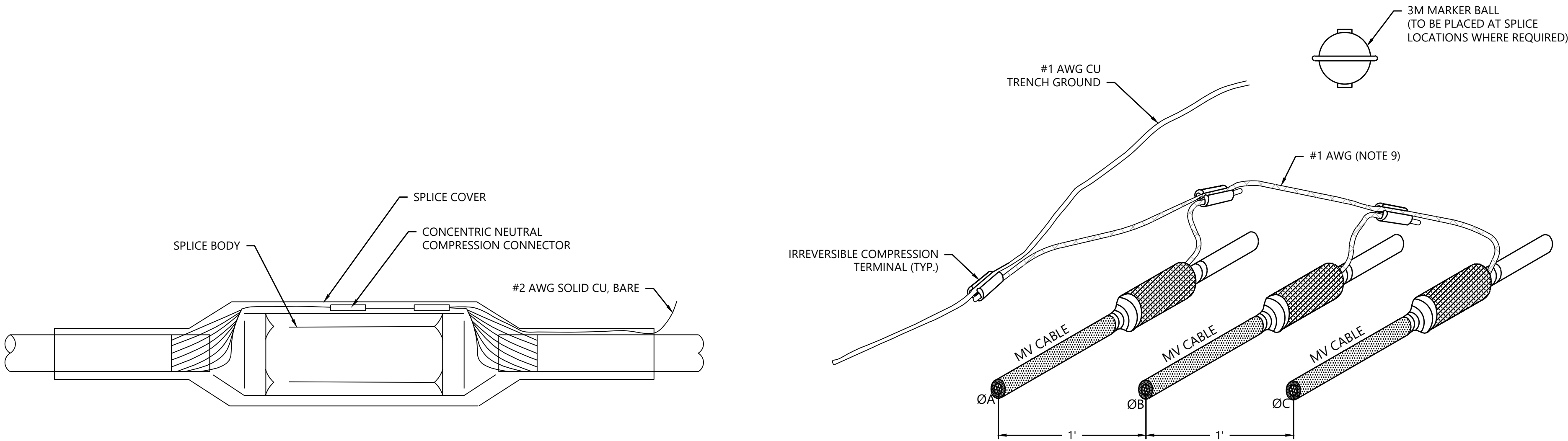
East Point Energy
Center

Schoharie County, New York

MVAC Details

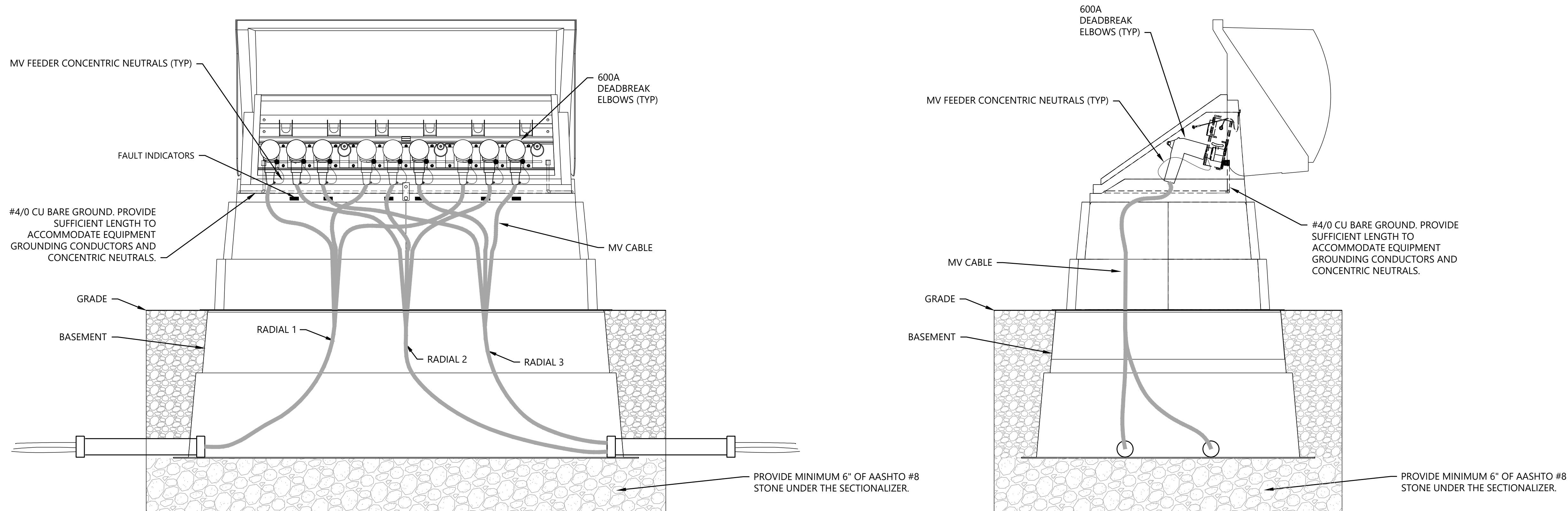
DATE: 06/26/2024

SHEET: E.350



1 Splice Detail
NTS

2 Splice Arrangement Detail
NTS



3 Sectionalizer Cabinet Detail
NTS

NOTES:

1. SEE SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
2. SEE SHEET E.200 FOR MVAC SINGLE LINE DIAGRAM.
3. SEE SHEETS E.300 THRU E.303 FOR MVAC SITE PLANS.
4. SEE SHEET E.200 FOR MVAC SCHEDULES.
5. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
6. SPLICE KIT INCLUDES SPLICE BODY, SPLICE COVER, AND COMPRESSION CONNECTOR.
7. PERFORM ALL SPLICES USING MANUFACTURER'S INSTRUCTION.
8. PLACE MARKER BALL ABOVE SPLICE AT 24" DEPTH.
9. SPLICE LOCATION TO BE COMPLETER PER GENERAL TRENCH COMPACTION SPEC.
10. SPLICES TO BE INSTALLED ONLY IF NECESSARY.
11. RFI MUST BE PERMITTED THROUGH UNIFIER PRIOR TO INSTALLATION OF SPLICE.
12. BOND COLLECTOR CABLE CONCENTRIC NEUTRALS AS SHOWN PER THIS SHEET.
13. CABLE GROUNDING REQUIREMENTS ARE IN ADDITION TO THE CABLE GROUNDING REQUIREMENTS AT THE INVERTER STATION LOCATIONS.
14. CONTRACTOR SHALL RECORD GPS LOCATIONS FOR GROUNDS AND SPLICES.
15. TAKE PHOTOS OF THE SPLICE AND UPLOAD INTO UNIFIER.
16. PROVIDE AN INDEPENDENT TEST REPORT AFTER THE INSTALLATION OF SPLICE.



WARNING: It is a violation of NY law for any person to alter any document that bears the seal of a professional engineer, unless the person is acting under the direction of a licensed professional engineer.

PREPARED FOR:



700 Universe Blvd,
Juno Beach, FL 33408

REVISIONS:

#	DATE	COMMENT
0	06/26/24	ISSUED FOR RECORD

East Point Energy Center

Schoharie County, New York

MVAC Details

DATE: 06/26/2024

SHEET: E.351