

121 JOHNSON ROAD TOWN OF CHESTER, 10918 COUNTY OF ORANGE STATE OF NEW YORK

BULK TABLE REQUIREMEN		HESTER	BULK REQUIR TOWN OF CI AR-3 DIST		
MINIMUM REQUIRED PROVIDED V.		TÜRE USE)	JTILÍTY STRÚCT	(1	
BULK ITEM	<u>VTS</u>	<u>EQUIREME</u>	ABLE RE	$K T_{A}$	BULI
LOT AREA (AC) * 83.80 LOT WIDTH (FI) * 1580± LOT DEPTH (FI) * 2650± FRONT SETBACK (FI) * - REAR SETBACK (FI) * - BOTH SIDE (FI) * - BOTH SIDES (FI) * - BOTH SIDES (FI) * - BULK ITEM PERMITTED BUILDING COVERAGE (%) * - BUILDING HEIGHT (FI) * - * AS REQUIRED BY THE APPROPRIATE REGULATORY AGENCY PROPERTY ADDRESS 121 JOHNSON ROAD CHESTER, NEW YORK 10918 TAX MAP SECTION 1, BLOCK 1, LOT 4 OWNER JOHNSON REALTY 112 JOHNSON ROAD CHESTER, NEW YORK 10918 DEVELOPER SIEMENS INDUSTRY, INC 8 FERNWOOD ROAD FLORHAM PARK, NEW JERSEY 07932 EXISTING USE		<u>EQUIRED</u>	MINIMUM RE		
LOT WIDTH (FT) * 1580± LOT DEPTH (FT) * 2650± FRONT SETBACK (FT) * - REAR SETBACK (FT) * - ONE SIDE (FT) * - BOTH SIDES (FT) * - FLOOR AREA (FT) * - MAXIMUM PERMITTED BULK ITEM PERMITTED PROVIDED V. BUILDING COVERAGE (%) * - BUILDING HEIGHT (FT) * - * AS REQUIRED BY THE APPROPRIATE REGULATORY AGENCY PROPERTY ADDRESS 121 JOHNSON ROAD CHESTER, NEW YORK 10918 TAX MAP SECTION 1, BLOCK 1, LOT 4 OWNER JOHNSON REALTY 112 JOHNSON ROAD CHESTER, NEW YORK 10918 DEVELOPER SIEMENS INDUSTRY, INC 8 FERNWOOD ROAD FLORHAM PARK, NEW JERSEY 07932 EXISTING USE	ARIAN	<u>PROVIDED</u>	<u>REQUIRED</u>		BULK ITEM
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ONE SIDE (FT) * - BOTH SIDES (FT) * - FLOOR AREA (FT) * - FLOOR AREA (FT) * - MAXIMUM PERMITTED BULK ITEM PERMITTED PROVIDED Y BUILDING COVERAGE (%) * - BUILDING HEIGHT (FT) * - * AS REQUIRED BY THE APPROPRIATE REGULATORY AGENCY PROPERTY ADDRESS 121 JOHNSON ROAD CHESTER, NEW YORK 10918 TAX MAP SECTION 1, BLOCK 1, LOT 4 OWNER JOHNSON REALTY 112 JOHNSON ROAD CHESTER, NEW YORK 10918 DEVELOPER SIEMENS INDUSTRY, INC 8 FERNWOOD ROAD FLORHAM PARK, NEW JERSEY 07932 EXISTING USE	_	_	*		
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COMMERCIAL AGRICULTURAL OPERATION		USE	EXISTING		
		URAL OPERATION	CIAL AGRICULT	OMMER	C
PROPOSED USE		USE	PROPOSED		

SCHEDULE OF DRAWINGS:

	SHEET NO.	DRAWING NO.	TITLE
	1	C - 000	TITLE SHEET
	2	C - 101	SITE PLAN
C-000)	3	C - 102	EXTENDED TOPOGRAPHY MAP
(Layout: C	4	C - 800	3 LINE SCHEMATIC DIAGRAM
	5	C - 901	DETAILS
-000.dw	6	C - 902	RACK DETAILS
8992\C	7	C - 903	RACK DETAILS
ublish_	8	C - 904	LATERAL & METER POLE DETAILS
mp\AcF	9	C - 905	RECLOSER POLE DETAILS
local\te M (Na	10	C - 906	GROUNDING & TRENCH DETAILS
ne: C:\Users\sar\appdata\local\temp\AcPublish_8992\C-000.dwg 'ed, Mar 23, 2016 - 9:21 AM (Name: sar)			
rs\sar\a 3, 2016 -			
: C:\Use , Mar 23			
ne: C /ed, M			

1	3/23/16	PER COMMENTS/ FOR APPROVAL									
REV#	DATE	REMARKS:	ISSUE #	DATE	ISSUED FOR:						
	%" ¼" ½" 0 1" 2" REFERENCE SCALE										
	UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.										

TOWN OF CHESTER PLANNING BOARD APPROVAL

ENGINEERING LLP 22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481 fx 845-343-4986 **JOHNSON FARM** PHOTOVOLTAIC ARRAY

SITE PLAN ACL

121 JOHNSON ROAD, CHESTER, NY 10918

AS SHOWN

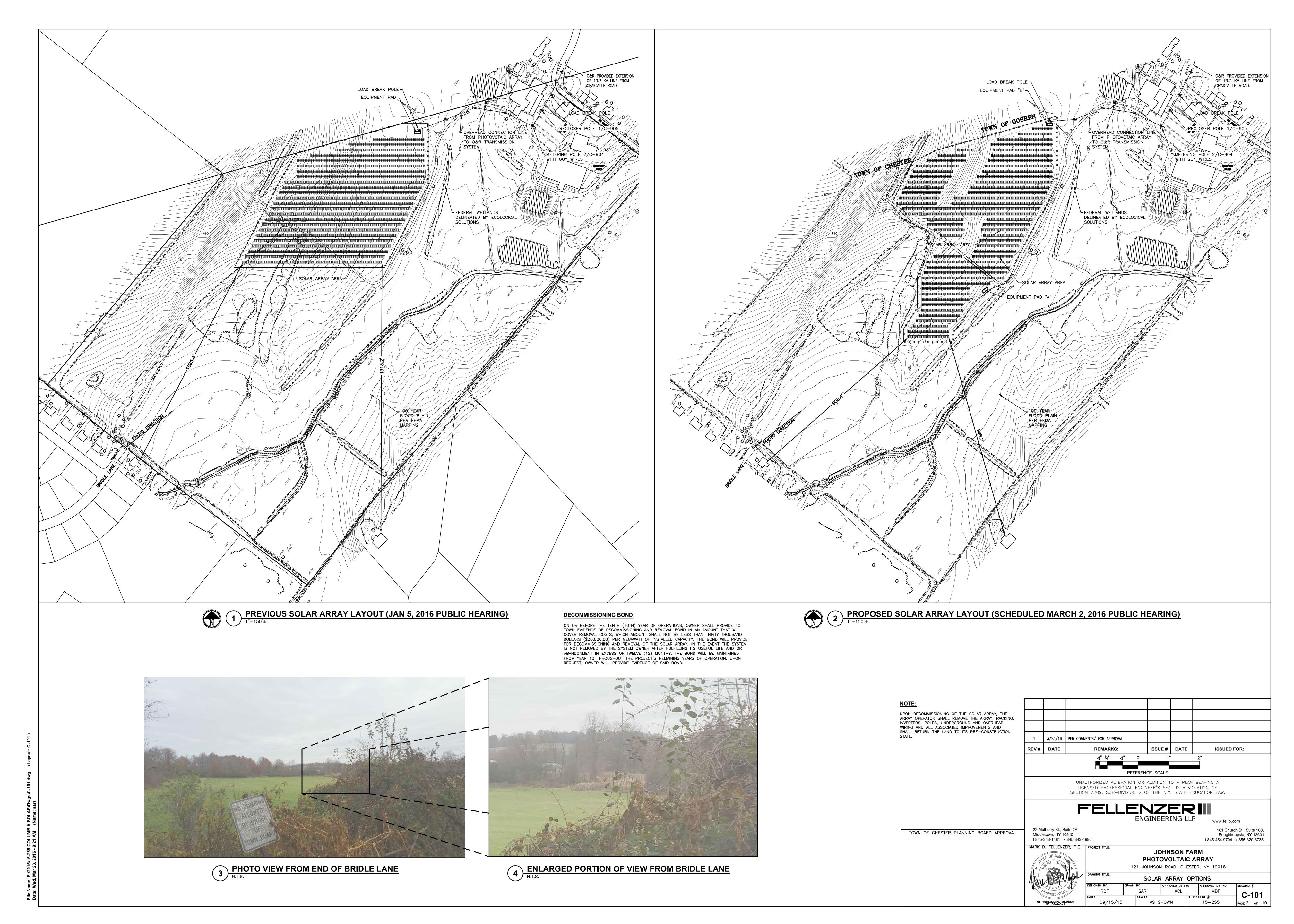
www.fellp.com

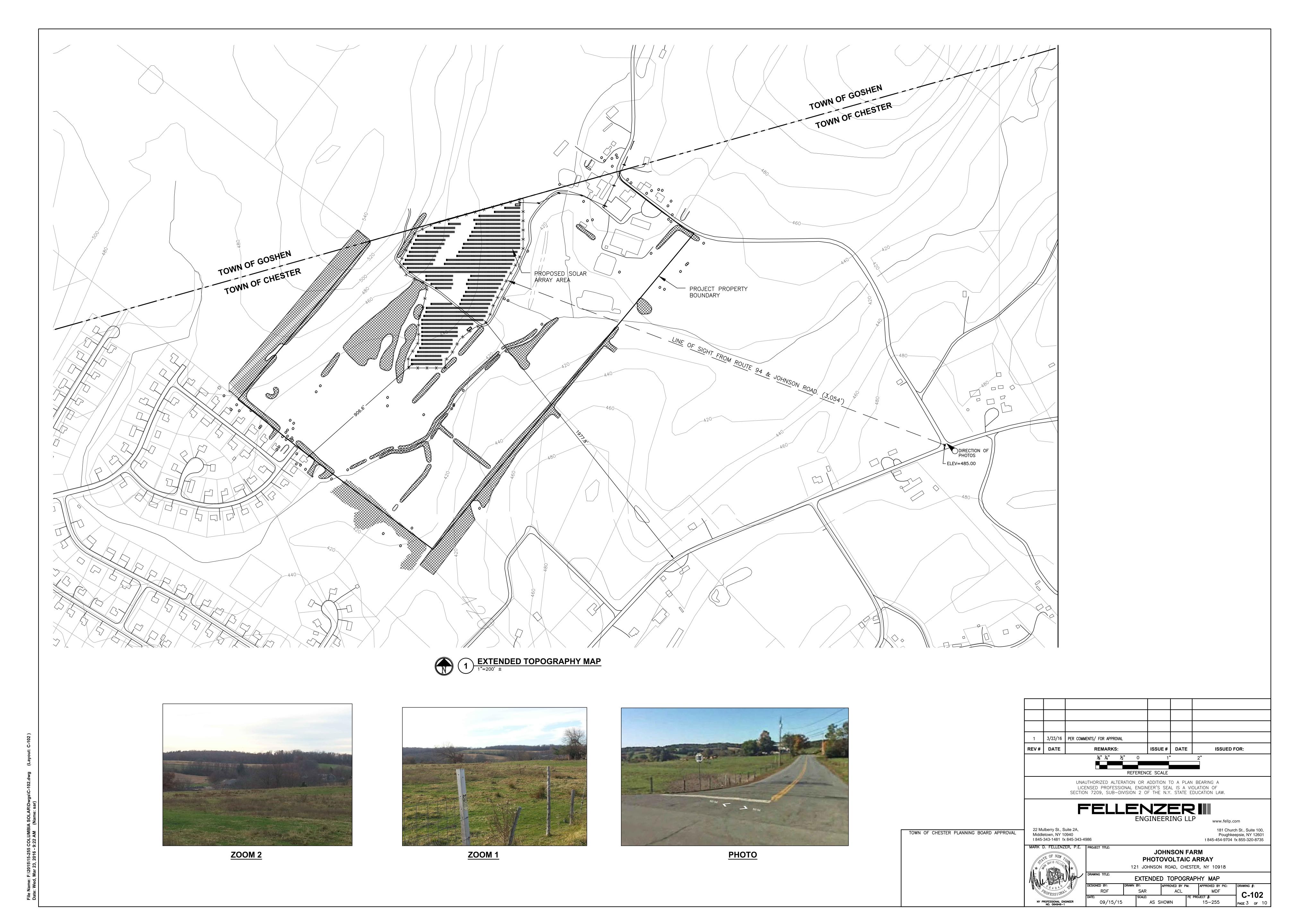
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181 Church St., Suite 100,

Poughkeepsie, NY 12601

t 845-454-9704 fx 855-320-8735





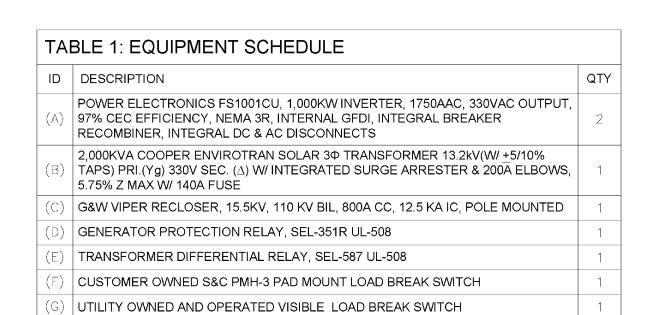
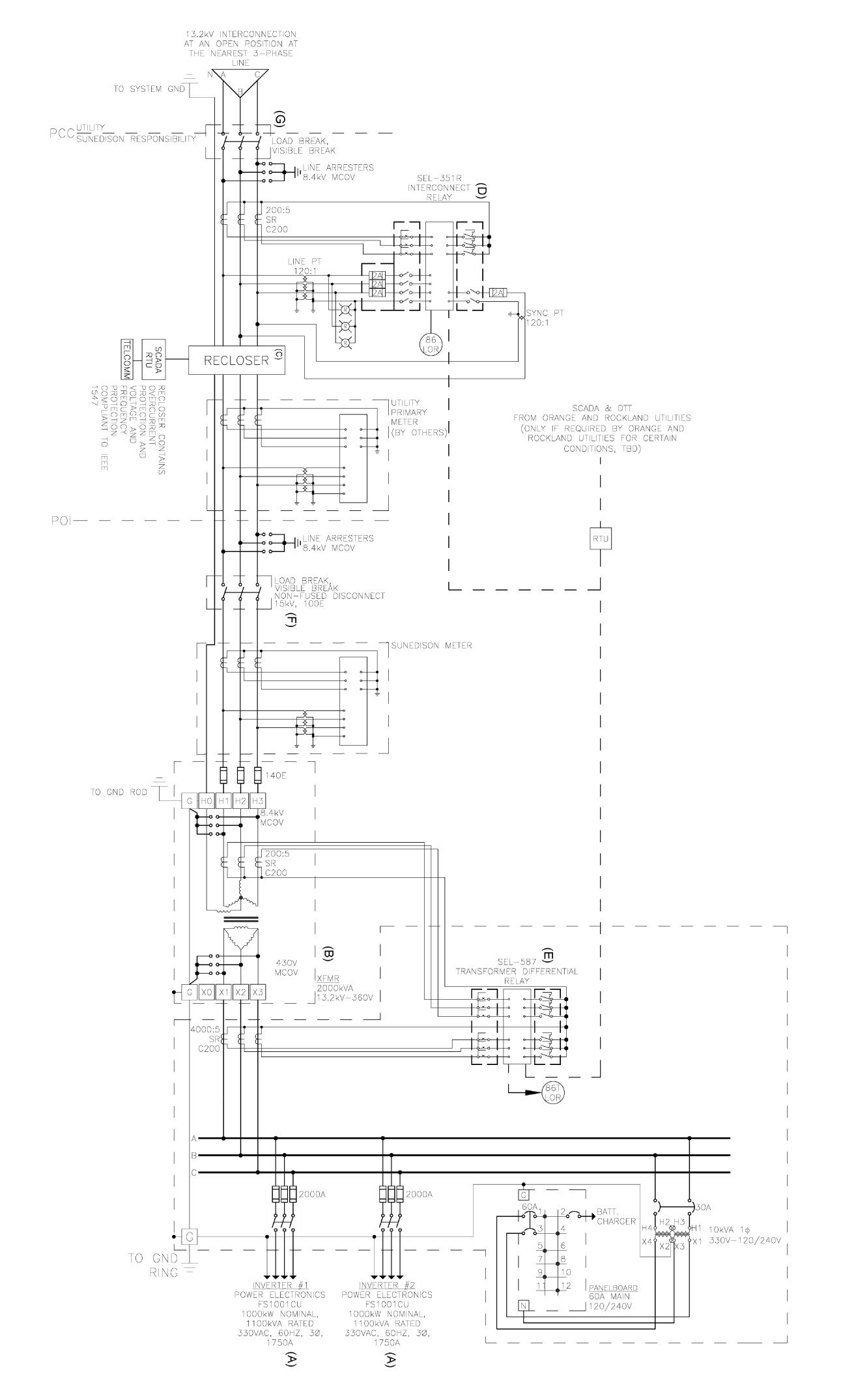
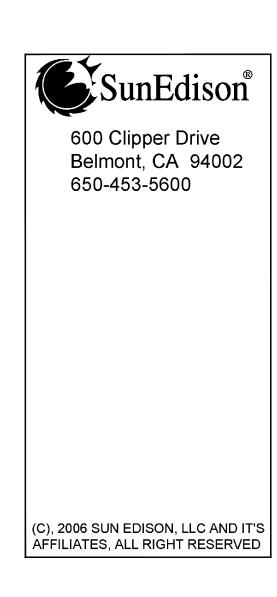


TABLE 2: SEL-351R RELAY SETTINGS NOMINAL VOLTAGE:13.2KV							
ELEMENT	PICKUP RANGE	TIME DELAY (SECONDS)					
UNDERVOLTAGE (27)	50% OF NOMINAL	0.16					
UNDERVOLTAGE (27)	88% OF NOMINAL	2.00					
OVERVOLTAGE (59)	110% OF NOMINAL	1.00					
OVERVOLTAGE (59)	120% OF NOMINAL	0.16					
UNDERFREQUENCY (81U)	57.0 Hz	0.16					
UNDERFREQUENCY (81U)	57.5 Hz	1.50					
UNDERFREQUENCY (81U)	58.5 Hz	100.00					
OVERFREQUENCY (810)	60.5 Hz	0.16					
OVERCURRENT (51C)	4000 A	PER IEC CURVE					

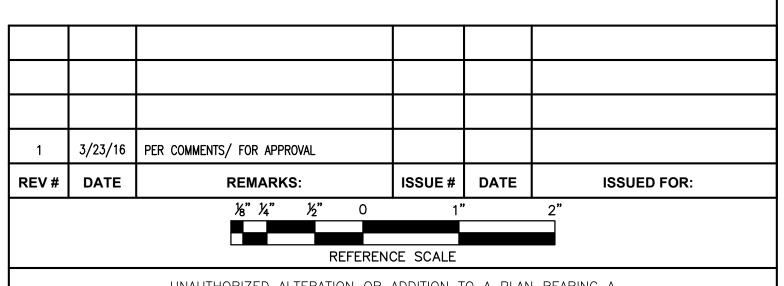




NOTES:

- 1. POINT OF INTERCONNECTION VOLTAGE AND LOCATION SUBJECT TO INPUT FROM ORANGE AND ROCKLAND UTILITES.
- 2. INVERTER DC INSTALLATION DESIGNED IN ACCORDANCE WITH ORANGE & ROCKLAND UTILITIES NY INTERCONNECTION STANDARDS FOR LOCATIONS LESS THAN 2MW.
- 3. ISOLATION TRANSFORMER GROUNDED WYE MAY BE INSTALLED WITH A CURRENT LIMITING REACTOR IF REQUIRED BY ORANGE AND ROCKLAND UTILITIES.
- 4. SCADA RTU, IF REQUIRED WILL BE PROVIDED BY ORANGE AND ROCKLAND UTILITIES, BUT PURCHASED BY SUNEDISON.
- 5. SCADA SHALL BE ABLE TO DTT MAIN RECLOSER, IF REQUIRED.
- 6. SEL-351R RELAY ALARM SHALL TRIP 86 LOCKOUT RELAY AND TRIP/BLOCK CLOSE THE RECLOSER.
- 7. INSTALL DC BATTERY SYSTEM TO POWER RELAY, RTU AND RECLOSER TRIP/CLOSE. BATTERY SHALL BE SIZED TO AN 8 HOUR DUTY CYCLE PÉR IEE 485-1983.
- 8. CT'S SHALL HAVE A MINIMUM ACCURACY RATING OF C200.
- 9. ALL EQUIPMENT BETWEEN INVERTER TERMINALS AND POINT OF INTERCONNECTION ASSUSMED TO BE INSTALLED ABOVE GROUND AND WITH AN OVERHEAD INTERCONNECTION.

NOT FOR CONSTRUCTION FOR CONCEPTUAL PURPOSES ONLY



UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

FELLENZER III
ENGINEERING LLP

22 Mulberry St., Suite 2A, Middletown, NY 10940

181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735

t 845-343-1481 fx 845-343-4986

TOWN OF CHESTER PLANNING BOARD APPROVAL

JOHNSON FARM PHOTOVOLTAIC ARRAY 121 JOHNSON ROAD, CHESTER, NY 10918 **DETAILS** SAR MDF ACL 09/15/15 AS SHOWN 15-255

PRELIMINARY THREE LINE SCHEMATIC

(FOR CONCEPTUAL PURPOSES ONLY - NOT FOR CONSTRUCTION)



SunEdison

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OHA /A NITI	00	OFF	SIEC	00	1011	- TO	OFF IA				
SILVANTI	SK	-SEI	KIES	: 33	SU VV		355 W				
PHYSICAL PARAME	TERS						R-SERIES SOLAR MODULE DIMENSIONS mm [inch]				
Module Dimensions			1,9	76 mm x 9	990 mm x	50 mm	A				
Module Weight			22		845818 N 97 N 77572		F				
Cell-Type			PEI	RC on CCz	monocry	stalline					
Number of Cells			72	VANOL SEVAVAVAVAREDEE	and the second second	MANAGEM AND	JUNCTION - D-				
Frame Material			And	odized alu	minum all	oy frame	SECTION J-J SIDE FRAME PROFILE				
Tempered ARC Glass	Thickness		3.2	mm		*					
Connector Types (indi	cated in m	nodel #)		phenol Ha link S418			I G PRATE				
TEMPERATURE COE	FFICIEN	TS AND	PARAME	TERS1							
Nominal Operating Ce				C ± 2 C			SECTION K-K END FRAME PROFILE				
Temperature Coefficie	STATE OF THE PARTY OF	X	200	44 %/C			-connections j j				
Temperature Coefficie			1900	30 %/C		1	e				
Temperature Coefficie				.04 %/C							
Operating Temperatur	100			C to +85							
Maximum System Vol			202000	1000 V (UL & IEC)							
Limiting Reverse Curre			9.1				20.0				
Maximum Series Fuse			15				107.0004.000				
Power Selection (Test	v. Namep	iate)		MOUNTING H							
Junction Box Rating				IP67							
Application Class				Class A 20 modules per pallet							
гаскаўніў эресінсацо	Packaging Specifications				20 modules per pallet 440 modules per 40' high-cube container K+						
Wind and Snow Front	Load			to 5,400 F	^o a		L DETAIL-L				
Wind Back Load	100000000000000000000000000000000000000		2,4	00 Pa	201802		K- WEEP CUTOUT				
Reduction of STC effic to 200 W/m² (Relative)		n 1000 W/	m ² < 4	✓ 4% Module Dimensions A = 0.976 [39.0] B = 1,976 [77.8] C = 50 [2.0] D = 30 [1.2] E = 22 [0.9] Mounting Hole Spacing							
STC ELECTRICAL CH	HARACT	ERISTICS	S ²				F – 950 [37.4] G – 1,188 [46.8] P – 400 [15.7] Cable Length				
Model #3	R330BzC	R335BzC	R340BzC	R345BzC	R350BzC	R355BzC	*H – 1,300 [51.2] Junction Box Dimensions				
Rated Maximum Power Pmax (W)	330	335	340	345	350	355	101.5 x 60.0 x 25.5 [3.99 x 2.36 x 1.0] *H – Other options available upon request: please contact your local sales representative				
Open-Circuit Voltage Voc (V)	46.2	46.4	46.5	46.6	46.7	46.8	for more information.				
Short-Circuit Current Isc (A)	9.28	9.29	9.40	9.48	9.56	9,64	10 CURVES AT MULTIPLE IRRADIANCES [25 C]				
Module Efficiency (%) Maximum Power Point	16.9 37.7	17.1 37.9	17.4 38.0	17.7 38.1	17.9 38.2	18.2 38.3					
Voltage Vmpp (V)	and the same of th	***************************************					8				
Maximum Power Point Current Impp (A)	8.77	8.85	8.95	9.06	9.16	9,27	3 6 6 600W/m² 400W/m²				
NOCT ELECTRICAL	CHARAC	TERISTI	CS ⁴				— 400 W/m² — 200 W/m²				
Model #3		THE RESERVE AND ADDRESS OF THE PARTY OF THE	a process of the contract of	The state of the s	20 Charles Control of the Control of	R355BzC	2				
Rated Maximum Power Pmax (W)	235.0	238.0	242.0	245.6	249.0	252.6					
Open-Circuit Voltage Voc (V)	42.7	42.8	42.9	43.0	43.1	43.2	0 5 10 15 20 25 30 35 40 45 50 Voltage (V)				
Short-Circuit Current Isc (A)	7.60	7.65	7.70	7.75	7.80	7.85	IV CURVES AT MULTIPLE TEMPERATURES [1000 W/m²]				
Maximum Power Point Voltage Vmpp (V)	33.4	33.6	33.8	34.0	34.2	34.4	10				

For more information about SunEdison's Silvantis modules, please visit www.sunedison.com

LWI-19086 R72_DS_Vega_51_50mm_v13 09 2014

0 5 10 15 20 25 30 35 40 45

----- 45 C

SOLAR MODULES

Current Impp (A)

¹Temperature coefficients may vary by ±10%

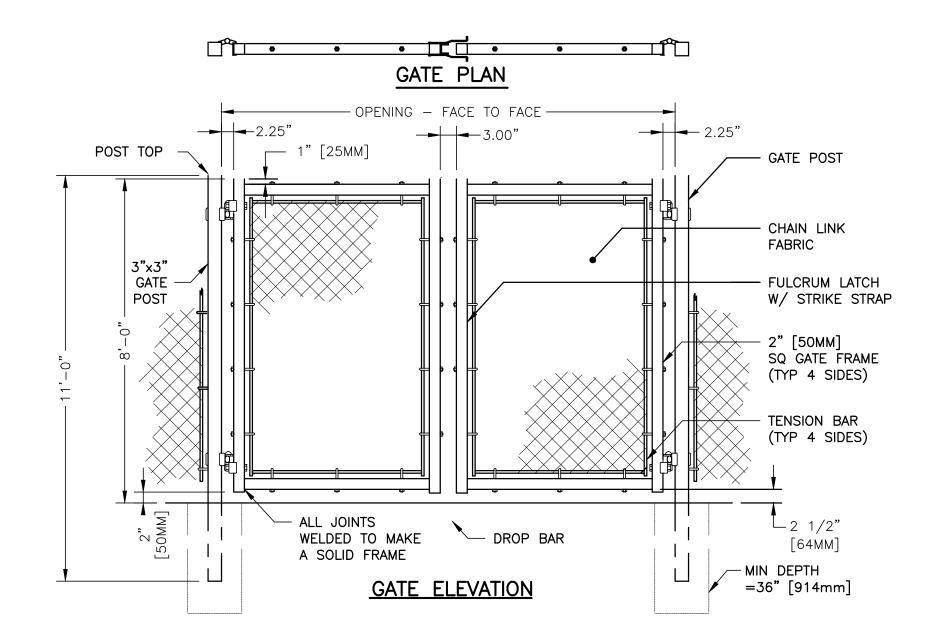
20 C ambient temperature, AM 1.5, wind speed 1 m/s

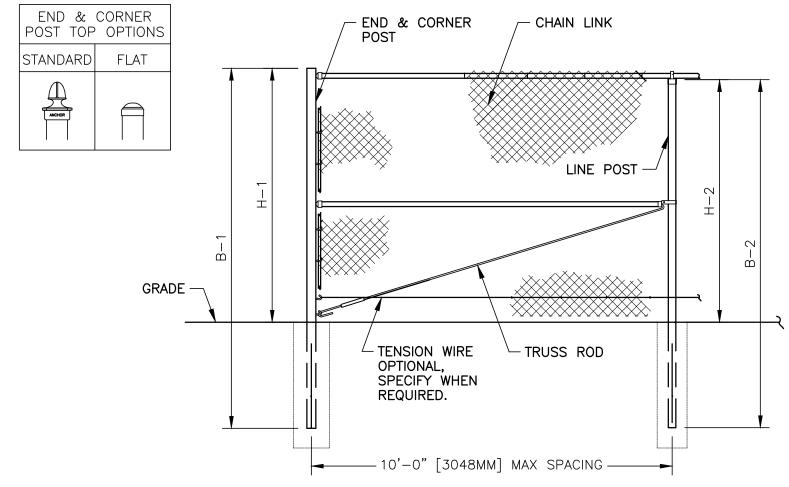
Listed specifications are subject to change without prior notice.

² All electrical data at standard test conditions (STC): 1000 W/m², 25 C module temperature,

⁴Electrical characteristics measured under normal operating conditions of cells: 800/m²,

AM 1.5; electrical characteristics may vary by $\pm 5\%$ and power by -0% to +3%. 3z indicates manufacturing location: M=Malaysia, X=Mexico, P=China, T=Taiwan





TYPICAL FENCE SECTION ELEVATION

FENCE HEIGHT	END & CO	DRNER POSTS	LINE POSTS		
NOMINAL B-1 HEIGHT BAR LENGTH		H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE	
8'-0" [2438MM]	11'-0" [3353MM]	8'-0 5/8" [2454MM]	10'-8" [3251MM]	7'-8 7/8" [2359MM]	

1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.

FOOTING WIDTH TO BE (4)X POST WIDTH. GATES MAY BE MANUALLY OR ELECTRICALLY OPERATED. HARDWARE WILL VARY FOR ELECTRICALLY OPERATED GATES. 4. ALL POSTS AND CHAINLINK FABRIC SHALL BE BLACK VINYL COATED.



TYPICAL NOTES

GOVERNING CODE:

INTERNATIONAL BUILDING CODE (XXX 200X)

DESIGN LOADS:

- 1. DEAD LOADS:
 - STRUCTURE: X.0 PSF • GLAZING: $\frac{X.0 \text{ PSF}}{\Sigma = X.0 \text{ PSF}}$
- 2. ROOF LIVE LOAD = XX PSF

• ls

- 3. SNOW LOAD:
 - = XX PSF (GROUND SNOW) • Pg Pf = XX PSF (FLAT ROOF SNOW)
 - Ce = XX• Ct = XX
- 4. WIND LOAD: (MAIN WIND FORCE RESISTING SYSTEM)

= XX

- V = XX MPH EXPOSURE: C OCCUPANCY CATEGORY: X
- Sds = 0.XXX5. SEISMIC: Ss = 0.XXX
- Sd1 = 0.XXXS1 = 0.XXX
- OCCUPANCY CATEGORY: X I~ea~ = XX
- SITE CLASS: D
- DESIGN CATEGORY: • SEISMIC FORCE RESISTING SYSTEM = BRACED FRAME DESIGN BASE SHEAR: V = XX W
- R = XXEQUIVALENT LATERAL FORCE ANALYSIS

CONSTRUCTION AND SAFETY:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CONSTRUCTION CODE AND THE PROJECT SPECIFICATIONS.

Cs = XX

- 2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- 3. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ANY UNEXPECTED CONDITIONS OR DISCREPANCIES WITH THE DESIGN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO INSTALLATION OR ERECTION OF MATERIALS.
- 4. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITION AT THE SITE.

GENERAL NOTES:

1. THIS SUBMITTAL/CONSTRUCTION SET WAS PRODUCED FROM DRAWINGS RECEIVED FROM CUSTOMER ON X/X/XX. RBI SOLAR IS NOT RESPONSIBLE FOR DISCREPANCIES FROM ACTUAL FIELD DIMENSIONS.

SPECIAL FIELD INSPECTION:

- 1. ALL SPECIAL INSPECTORS SHALL BE RETAINED BY OWNER/CUSTOMER. THE EXTENT OF THE INSPECTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE REQUIREMENTS AND LOCAL JURISDICTION. IT IS THE OWNER/CUSTOMER'S RESPONSIBILITY TO GIVE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE WORK ONLY AFTER THE SPECIAL INSPECTOR'S APPROVAL.
- 2. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN OWNER/CUSTOMER HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE OWNER/CUSTOMER'S EXPENSE.
- 3. PREMATURE NOTIFICATION FOR INSPECTION WILL RESULT IN AN ADDITIONAL INSPECTION WITH ALL EXPENSES AND FEES PAID BY THE OWNER/CUSTOMER.
- 4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. RECORDS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD AND LOCAL JURISDICTION AS REQUIRED. ANY AND ALL DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR. CORRECTIONS SHALL BE MADE AND AND A FINAL REPORT OF INSPECTIONS SHALL BE PROVIDED NOTING COMPLETION OF INSPECTIONS AND CORRECTIONS OF DISCREPANCIES. FAILURE TO CORRECT DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD AND THE LOCAL JURISDICTION AND MAY RESULT IN REMOVAL OF COMPLETED WORK AND ADDITIONAL WORK TO CORRECT DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- MINIMUM REQUIRED INSPECTIONS:
- 5.1 STRUCTURAL STEEL/ALUMINUM
- A. FABRICATION
- MATERIAL IDENTIFICATION HIGH STRENGTH BOLTS — MATERIAL IDENTIFICATION OF BOLTS, NUTS AND
- WELD FILLER MATERIALS IDENTIFICATION AND CONFIRMATION OF COMPLIANCE WITH DESIGN DOCUMENTS
- B. ERECTION
- MATERIAL IDENTIFICATION INSTALLATION OF HIGH STRENGTH BOLTS
- WELDED CONNECTIONS MEMBER SIZES AND PLACEMENT
- GENERAL CONFORMANCE WITH DESIGN DOCUMENTS
- 5.2 CONCRETE CONSTRUCTION
 - MATERIAL IDENTIFICATION
 - MIX DESIGN VERIFICATION
 - SIZE AND PLACEMENT OF REINFORCING STEEL PLACEMENT OF CONCRETE USING PROPER TECHNIQUES
 - CONCRETE SAMPLES FOR SLUMP, AIR CONTENT, TEMPERATURE, STRENGTH TESTS, ETC. IN ACCORDANCE WITH ACI 318 PROPER MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES
- 5.3 FOUNDATIONS
 - SIZE AND LOCATION OF FOUNDATION EXCAVATIONS PLACEMENT OF REINFORCING STEEL AS REQUIRED

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF AISC "MANUAL OF STEEL CONSTRUCTION." LIGHT GAGE COLD-FORMED SECTIONS SHALL CONFORM TO LATEST VERSION OF AISI SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.

2. MATERIALS:

ASTM A992 OR A572 GRADE 50, $F \sim \gamma'' = 50$ KSI MINIMUM A. ROLLED SHAPES:

B. PLATES: ASTM A36

ASTM A500 GRADE B C. TUBULAR SHAPES: FY = 50 KSI MINIMUM

D. FIELD BOLTS: SAE J429 GRADE 5 (TYP. U.N.O)

E. SCREWS: SHEET METAL SCREWS, #8 & #10 TEKS - STAINLESS STEEL #12 TEKS - GALVANIZED

3. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS. ALL BOLTED CONNECTIONS SHALL BE INSTALLED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE FULL EFFORT OF A MAN USING A NORMAL SPUD WRENCH OR A FEW IMPACTS OF AN IMPACT WRENCH. THE "SNUG TIGHT" CONDITION WILL ENSURE THE PLIES OF CONNECTED MATERIAL ARE IN FIRM CONTACT.

- 4. ALL WELDING OF STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELD SOCIETY'S SPECIFICATIONS - AWS D1.1. ELECTRODES SHALL BE E70 SERIES UNLESS NOTED OTHERWISE.
- 5. GALVANIZING SHALL BE G90 MINIMUM OR EQUIVALENT.

ALUMINUM:

1. ALL STRUCTURAL ALUMINUM SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF THE SPECIFICATIONS AND GUIDELINES FOR ALUMINUM STRUCTURES.

MATERIALS:

A. ALUMINUM SHAPES: ALLOY 6063-T6, 6061-T6 & 6005-T6 B. ALUMINUM SHEET: ALLOY 5005-H34 & 5052-H3 STAINLESS STEEL (TYP. U.N.O.) C. FIELD BOLTS: D. SCREWS: #12 TEKS - GALVANIZED

MISCELLANEOUS FASTENER NOTES:

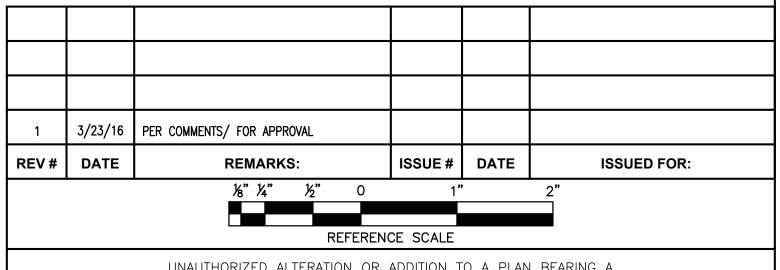
- 1. ALL BOLTS SHALL BE THE TYPE AND SIZE INDICATED ON DRAWINGS. ALL HOLES SHALL BE BOLT DIAMETER + '1|16'" MAX.
- ALL HARDWARE USED FOR MOUNTING MODULES SHALL BE STAINLESS STEEL.

WORK BY OTHERS:

- SITE WORK AND DEVELOPMENT.
- 2. ALL ELECTRICAL WORK INCLUDING WIRING, CONDUIT, PANELS AND LIGHTS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 3. GROUNDING REQUIREMENTS.
- 4. ALL SHADING ANALYSIS AND/OR PRODUCTION ANALYSIS SHALL BE PERFORMED AND VERIFIED BY OTHERS. RBI IS NOT RESPONSIBLE FOR PV SYSTEM DESIGN AS IT PERTAINS TO ELECTRICAL OR PV SYSTEM PRODUCTION.

FOUNDATION/CONCRETE NOTES:

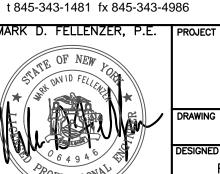
- 1. THE FOUNDATION DESIGN IS BASED ON ASSUMED VALUES OR BASED ON GEOTECHNICAL REPORT PREPARED BY X DATED:X-X-20XX (REPORT # X).
- 2. CUSTOMER IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS ARE CONSISTENT WITH FINDINGS INCLUDED IN GEOTECH REPORT. VARIATIONS IN SOIL CONDITIONS SHALL BE REPORTED TO GEOTECH ENGINEER AND ENGINEER OF RECORD RESPONSIBLE FOR FOUNDATION DESIGN PRIOR TO INSTALLATION OF ANY FOUNDATION MATERIALS.
- 3. CUSTOMER IS RESPONSIBLE FOR VERIFYING CORROSION COMPATIBILITY WITH FOUNDATIONS AND /OR DRIVEN POSTS.
- 4. INSTALLER/CONTRACTOR SHALL COORDINATE PLACEMENT OF FOUNDATIONS AND/OR ANCHOR BOLTS PER DESIGN DRAWINGS.



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JOHNSON FARM PHOTOVOLTAIC ARRAY 121 JOHNSON ROAD, CHESTER, NY 10918

DETAILS

22 Mulberry St., Suite 2A,

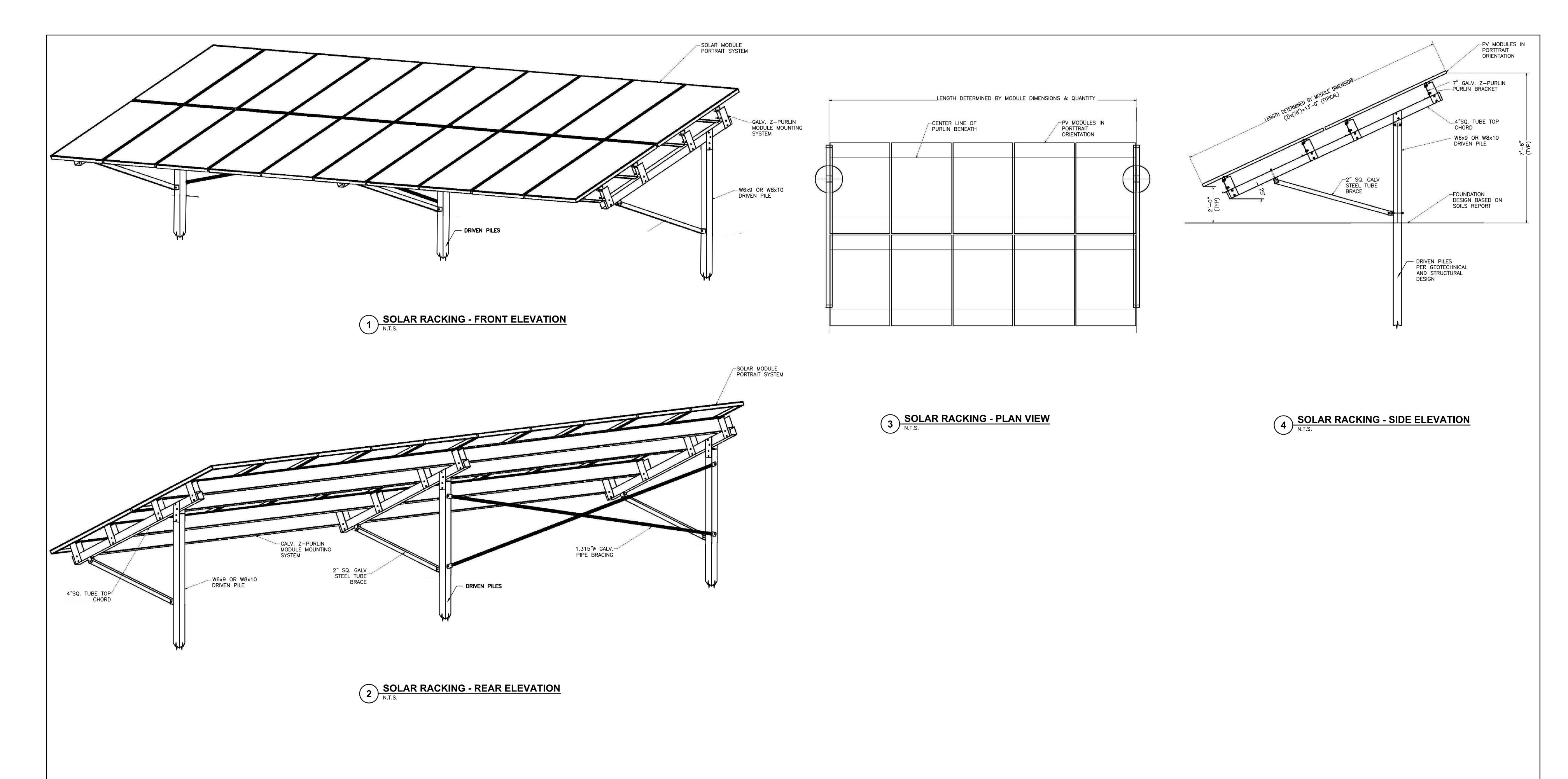
Middletown, NY 10940

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09/15/15

ACL 15-255 AS SHOWN

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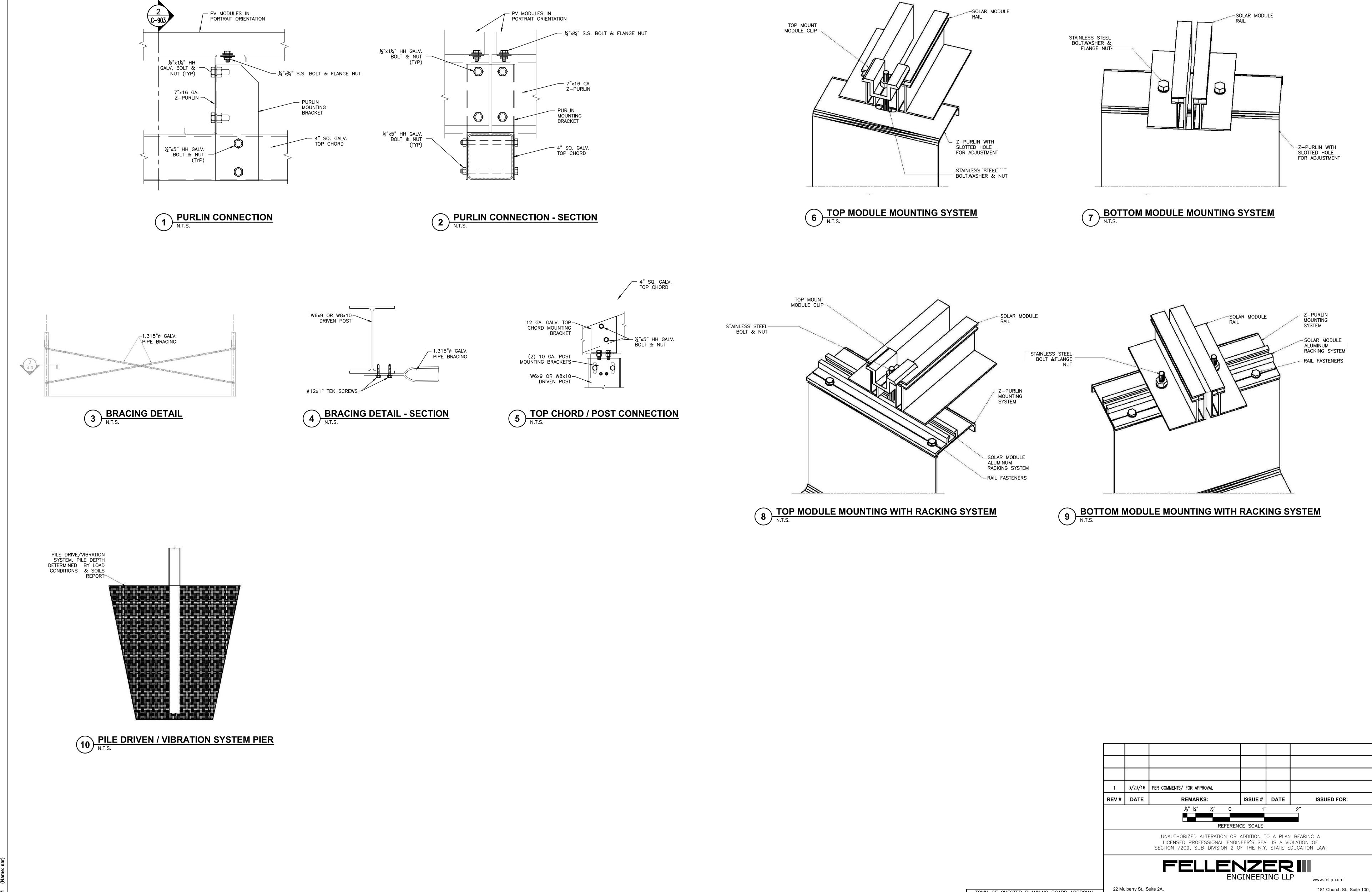


1 3/23/16 PER COMMENTS/ FOR APPROVAL **ISSUED FOR:** REFERENCE SCALE UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW. FELLENZER III ENGINEERING LLP 181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704 fx 855-320-8735 22 Mulberry St., Suite 2A, Middletown, NY 10940

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JOHNSON FARM PHOTOVOLTAIC ARRAY 121 JOHNSON ROAD, CHESTER, NY 10918 RACK DETAILS SAR AS SHOWN 09/15/15 15**–**255



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RACK DETAILS

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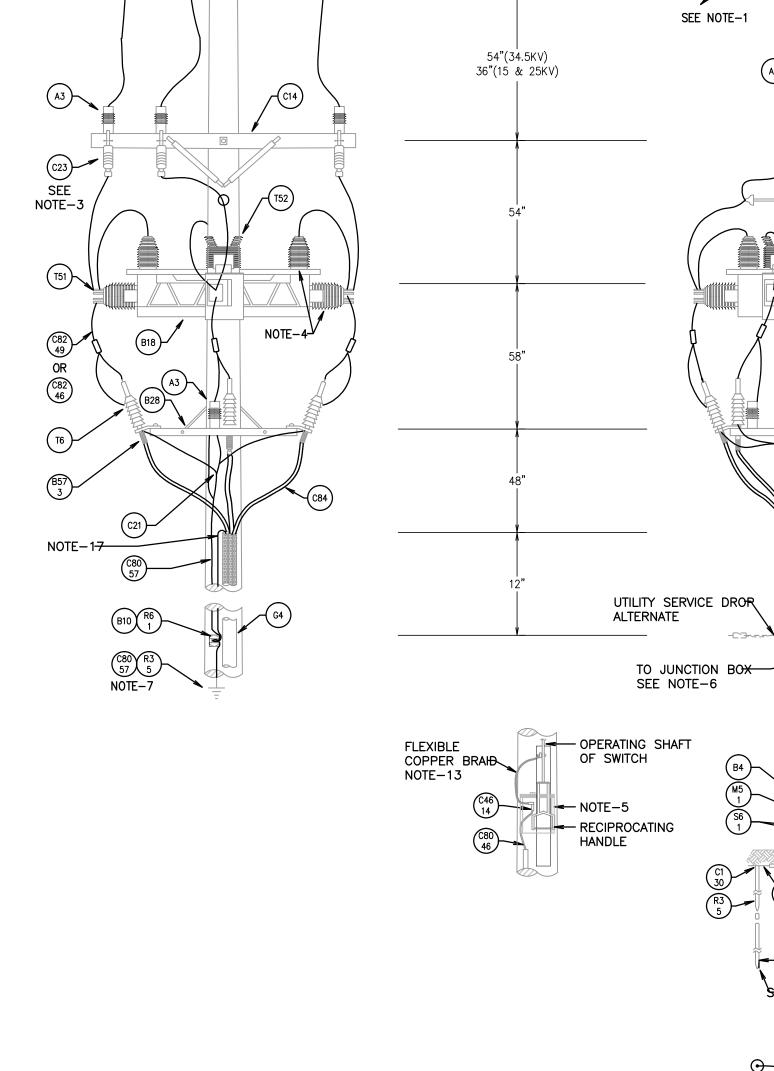
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- ① CLEVIS FOR NEUTRAL.
- (2) 3-1/4" "U" GUARD (CARLON) AND/OR CONDUIT.
- 7) PIN TYPE INSULATORS 15KV CLASS.
- $^{f 8)}$ #1 ALUMINUM 133% INSULATION LEVEL OF EPR 15KV CLASS TAPE SHIELDED ANIXTER 3-FE-1011 OR EQUIVALENT WITH 1#1 INSULATED (600V) GROUND.
- 11) NEW POLE 40' CLASS 4 DOUGLAS FIR (PENTH CHLOR) TREATED.
- 12) TREATED CROSS ARM 3-1/4" X 4-1/4" X 8'-0" WITH 60" BRACES. (13) GROUND ROD 3/4"X10' LENGTH
- (4) SET POLE 6' DEEP
 - **TYPICAL PRIMARY MID SPAN LATERAL POLE**



36" (15 & 25 KV) 46" (34.5 KV)

GROUNDING DETAIL SCHEMATIC

LOAD SIDE VIEW SOURCE SIDE HANDLE VIEW

METER POLE DETAIL

N.T.S.

UTILITY SERVICE DROP

→ NOTE-4,5

PREFERRED

DO NOT GROUND SWITCH BASE

➤ SEE NOTE-4

∦ NOTE-5

— NOTE-7,11

NOTE-2 (C82)

- 1. GUY AS REQUIRED. PROVIDE 3/8" EHS PRIMARY GALVANIZED DOWN GUY, WITH 54" FIBERGLASS STRAIN INSULATOR GRIPS AND 8" SCREW ANCHOR WITH GALVANIZED THIMBLE EYE BOLTS 2" SQ. FLAT OR CURVED CAST WASHER, SQUARE NUT AND GRIPS OR GUY CLAMPS AND GUY MARKERS (CHANCE, JOSLYN, OR MACLEAN). PROVIDE 1/4" EHS GALVANIZED SECONDARY DOWN GUY WITH GUY GRIPS OR CLAMPS (FOR NEUTRAL) TO 8" SCREW ANCHOR AND GUY MARKERS (CHANCE, JOSLYN, OR MACLEAN).
- 2. DOUBLE DEAD END 8'-0" OR 10'-0" CROSS ARM CONSTRUCTION TO BE LIMITED TO 2000 LBS. PER PHASE. 3. CUSTOMER CUTOUT FUSES TO BE SIZED PER UTILITY Co., CUTOUTS MUST HAVE LOADBREAK CAPABILITIES.
- 4. CUSTOMER OWNED METERING EQUIPMENT, OVERHEAD SOURCE SIDE CONDUCTORS, AND HARDWARE INCLUDING
- POLE, SWITCHES, CUTOUTS, AND TRANSFORMER BRACKET. 5. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS ON ADJACENT SOURCE SIDE OWNER OWNED POLE.
- 6. PROVIDE JUNCTION BOX NO HIGHER THAN 15'-0", JUNCTION BOX PER UTILITY Co. SHALL BE GROUNDED.
- 7. STANDARD GROUNDING METHODS. SEE GROUNDING DETAILS ON SHEET E4.02.
- 9. SEE GROUNDING DETAIL FOR PRIMARY AND GROUNDING SCHEMATIC.
- 10. CONTRACTOR SHALL VERIFY IF STANDARD IS CURRENT AND COORDINATE ALL WORK WITH UTILITY OBTAIN LATEST DETAILS FROM LOCAL UTILITY AND PERFORM ALL WORK PER UTILITY CURRENT STANDARDS.
- 11. GROUND RODS SHALL BE PROVIDED ON A LINE PARALLEL TO THE PHASE CONDUCTORS.
- 12. GROUND RESISTANCE OF 10 OHMS OR LESS SHALL BE OBTAINED. USE 3 POINT TEST FOR MEASURING GROUND RESISTANCE.
- 13. FLEXIBLE BRAID TO BE SUPPLIED BY SWITCH MANUFACTURER, FROM SHAFT TO HANDLE BASE GROUND CONNECTION.
- 14. USE COMPRESSION CONNECTORS IN PREFERENCE TO BOLTED CONNECTORS. <u>DO NOT COIL A WIRE UNDER A BOLT.</u>
- TERMINATE IT IN A LUG BEFORE BOLTING IT DOWN.
- 15. IF EQUIPMENT GROUND IS REQUIRED, IT SHALL BE BONDED TO GROUND GRID BELOW GRADE.
- 16. IF METER POLE FOLLOWS CUSTOMER OWNED RECLOSURE; A SOLID BLADE CUT OUT IS REQUIRED. S&C #15932(200A) 15KV, 89053R10-P 25/34.5KV
- 17. CONNECT CABLE GROUNDED NEUTRAL TO UTILITY AERIAL GROUNDED NEUTRAL.
- 18. ALL POLES, CROSS ARMS, AERIAL CABLES, ETC. SHALL CONFORM TO ORANGE & ROCKLAND UTILITIES SPECIFICATIONS.

UTILITY POLE DETAIL:

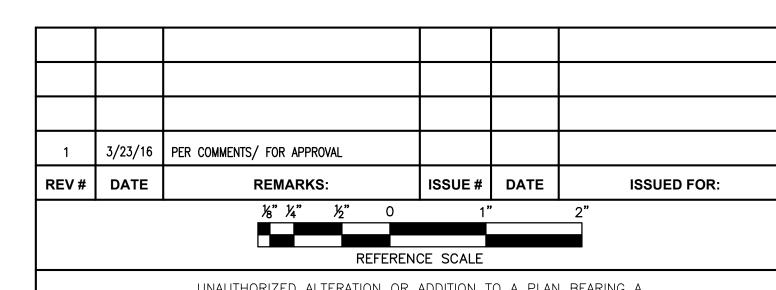
DESCRIPTION

<u>MARK</u>

- PROVIDE 10KV MCOV NON GAPPED POLYMER SURGE ARRESTOR 15KV CLASS OB PDV65 #217560. 35KV CLASS OB PDV65 #213279, 29MCOV (OR EQUAL BY COOPER)
- B10 BOLTS AS REQUIRED WITH SQUARE CURVED WASHERS AND SQUARE NUTS GALVANIZED.
- B18 PROVIDE BRACKET FOR METERING ALUMAFORM PMM-6 3 POSITION FOR INSTRUMENT TRANSFORMERS.
- TERMINATION MOUNTING BRACKET WITH TIES OR STRAPS AND GUIDES AS REQUIRED. CHANCE CTB-EMB SERIES, JOSLYN J9203 SERIES OR EQUAL BY ALUMA FORM, KELLUMS, OR ELASTIMOLD 16TB-5 (PTC).
- PROVIDE TREATED CROSS ARM 3-1/4" x 4-1/4" x 8'-0" (OR 10'-0" PER UTILITY Co. REQUIREMENTS) WITH 60" SPAN BRACES AND 30" DROP, WITH GALVANIZED CAST IRON GAIN (JOSLYN, HUGHES OR EQUAL). GALVANIZED HARDWARE AND BRACKETS: SQUARE HEAD BOLTS OR EYELETS, 2" SQUARE CAST FLAT OR CURVED WASHER AND SQUARE NUT.

C21,C46 COMPRESSION CONNECTORS AS REQUIRED.

- PROVIDE S & C CUT OUT SMD-20, #92122R3-D WITH LOAD BREAK HORNS WITH 100 "E" FUSE. 34.5KV, 150KV BIL CHANCE #(C720613, S&C #89053R10-D-P (OR EQUAL BY COOPER). NOTES-3,16
- PROVIDE INSULATED #2 SOLID CU DOWN GROUND STAPLED EVERY 5' WITH GROUND RODS PER DETAIL. NOTE-11
- PROVIDE 1/O ACSR-RAVEN OR (MEDUIM-HARD DRAWN TEMPER) COPPER AND COMPRESSION CONNECTORS WITH INHIBITOR (OR
- MATCH ELECTRIC UTILITY CONDUCTOR IF LARGER).
- PROVIDE 1/0 COPPER 133% INSULATION LEVEL OF 133% EPR 15KV CLASS TAPE SHIELDED PER SPEC, 16121 MV 105 MIN. 1#2 INSULATED (600V) GROUNDED NEUTRAL. (OKONITE SOUTHWIRE).
- PIN INSULATORS TANGENT TYPE 15KV & 95KV BIL PP366-S PP2045-S 34.5KV 125KV BIL (VICTOR OR EQUAL).
- PROVIDE 3-1/2" I.D. GALVANIZED STEEL "U" GUARD WITH COVER BOOT OR 4" RGS CONDUIT ON STAND OFFS. (CHANCE OR EQUAL) OR PVC(80) 3.2" I.D. (MIN.) "U" GUARD (CARLON OR EQUAL)
- PROVIDE DEAD END (POLYMER) STRAIN TYPE INSULATOR & O-B; PDI +15(KV)#4010150215 OR PDI-35(KV) #4010350215 (OR EQUAL) GALVANIZED CLEVÍS BOLT, EYELET SHACKLE OR DEAD END CLEVIS, ÜNLESS PROVIDED BY UTILITÝ Co.
- PROVIDE 45'-0" CLASS 4 PENTACHLOROPHENOL/CWA TREATED POLE, SET 6'-6" DEEP; PROVIDE 50'-0" CLASS 4 POLE SET 7' DEEP FOR 34.5KV AS REQUIRED. VERIFY PÓLE HEIGHT & ARM SPACING WITH LOCAL UTILITY Co.
- COPPER GROUND RODS 3/4" DIAMETER, 10'-0" LENGTH.
- PROVIDE INSULATED CLEVIS FOR NEUTRAL: (CHANCE OR JOSLYN)
- STAPLE 1/2" RGS CONDUIT TO POLE, FOR GROUND WIRE PROTECTION.
- PROVIDE OUTDOOR TERMINATOR 15KV JOSLYN JPT15W/K1 BRACKET 3M 5630 SERIES W/BRACKET OR EQUAL BY CHANCE, WITH CABLE GUIDE AND TAPE SHIELDED ADAPTER AS REQUIRED. 34.5KV JOSLYN #E5203/K1 BRACKET (OR EQUAL BY 3M OR CHANCE)
- CT BY ELECTRICAL CONTRACTOR.
- PT BY ELECTRICAL CONTRACTOR.



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AS SHOWN

LATERAL & METER POLE DETAILS SAR ACL

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15-255

— (6) 15KV DEADEND; SUSPENSION INSULATOR AND STRAIN CLAMP

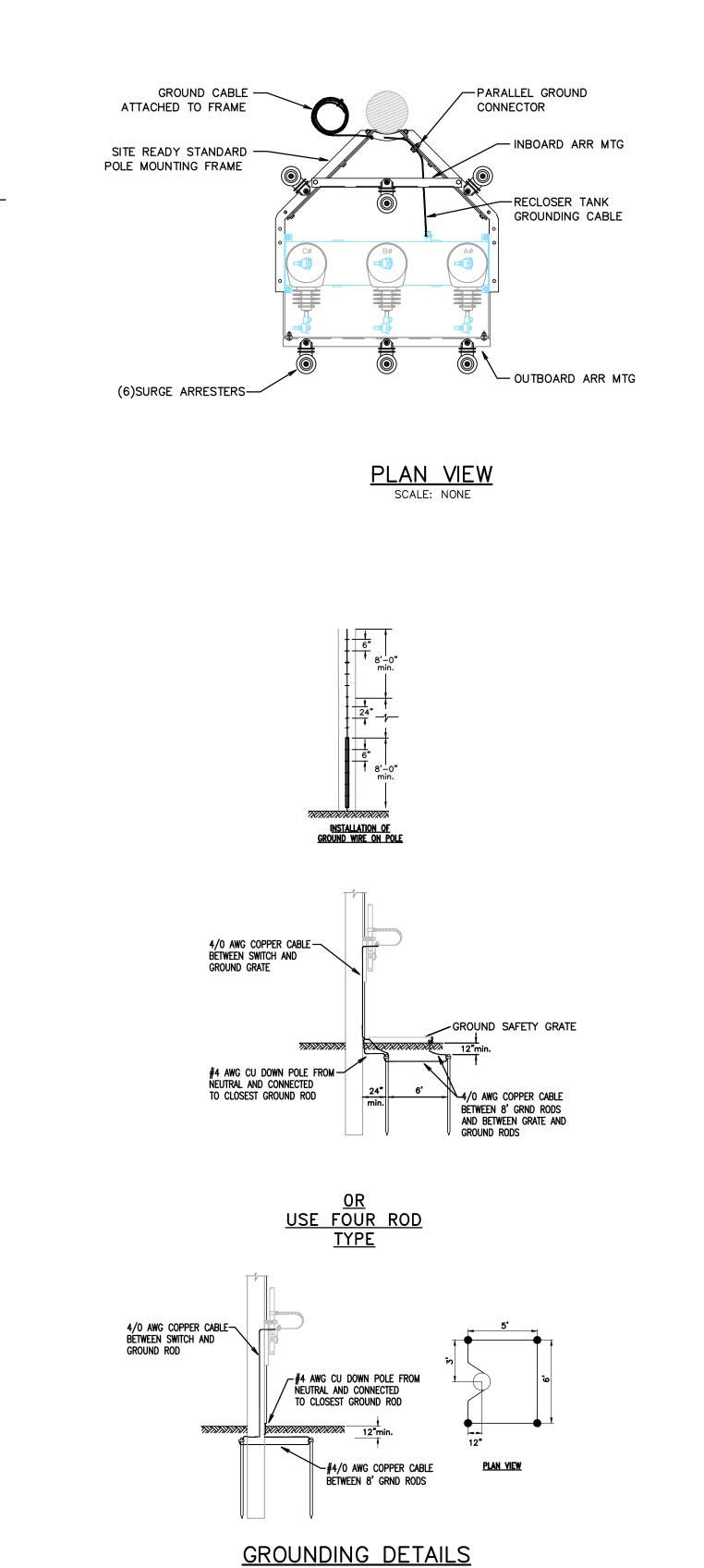
——CHANCE AR INVERTED MOUNTED SWITCH

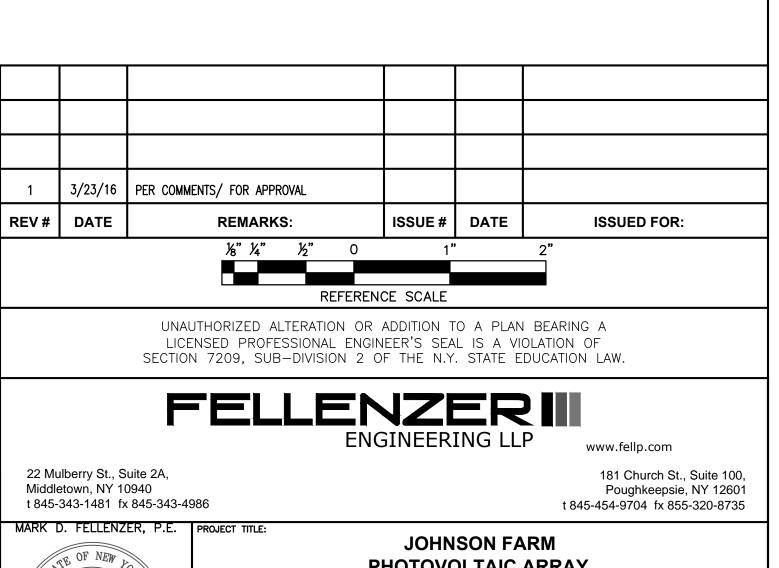
FOR ALL SPANS

(3) 26" FIBERGLASS — INSULATOR

4'-6" - 1'-3"

1'-3"-> -

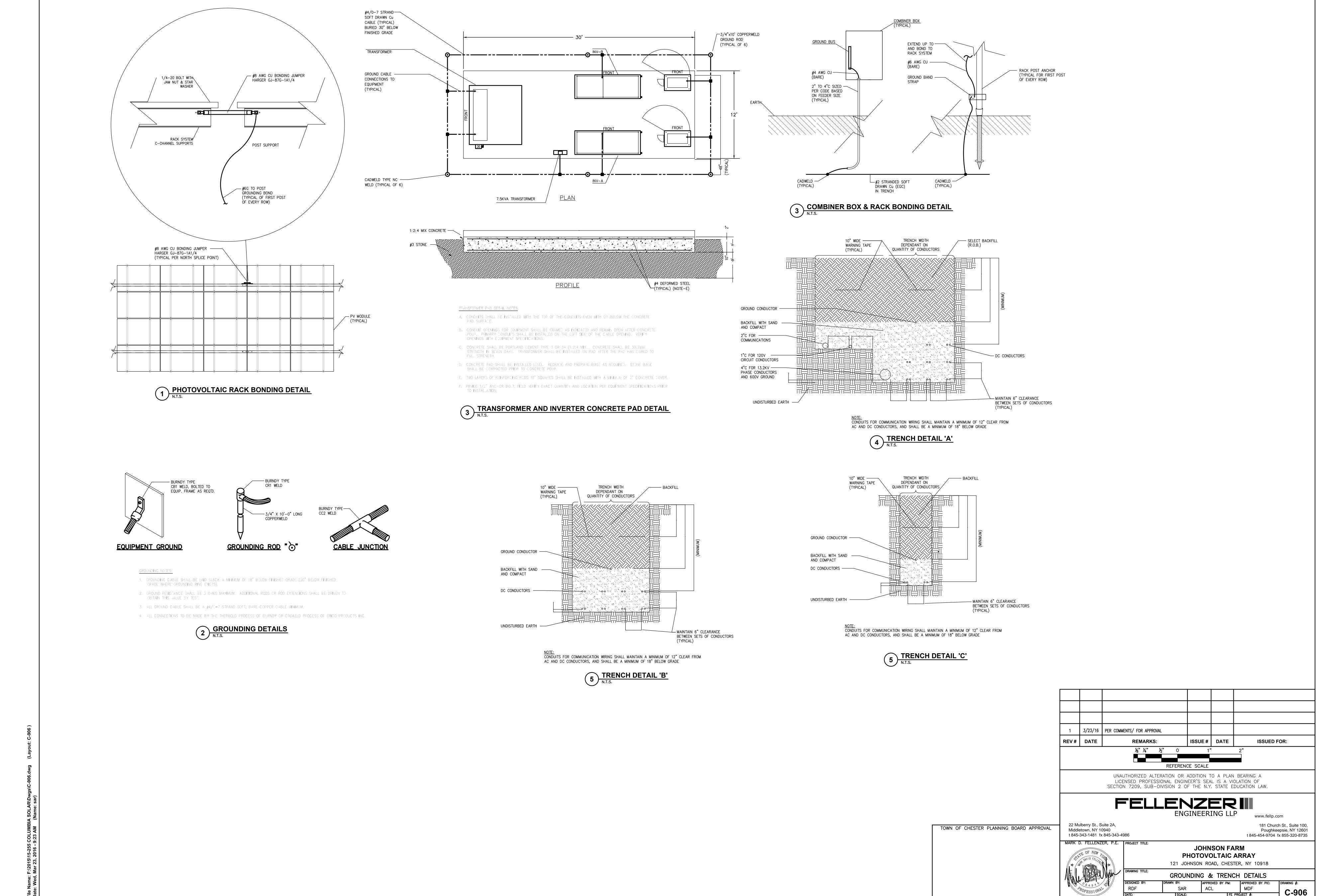




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PHOTOVOLTAIC ARRAY 121 JOHNSON ROAD, CHESTER, NY 10918 RECLOSURE POLE DETAILS SAR

ACL 15-255 AS SHOWN



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