Site Plans

Issued for Construction Date Issued July 23, 2021 Latest Issue April 6, 2025

Photovoltaic Installation

Mulnite Farms East Windsor, Connecticut

Applicant

Greenskies Clean Energy, LLC 127 Washington Ave West Building, Garden Level North Haven, CT 06473

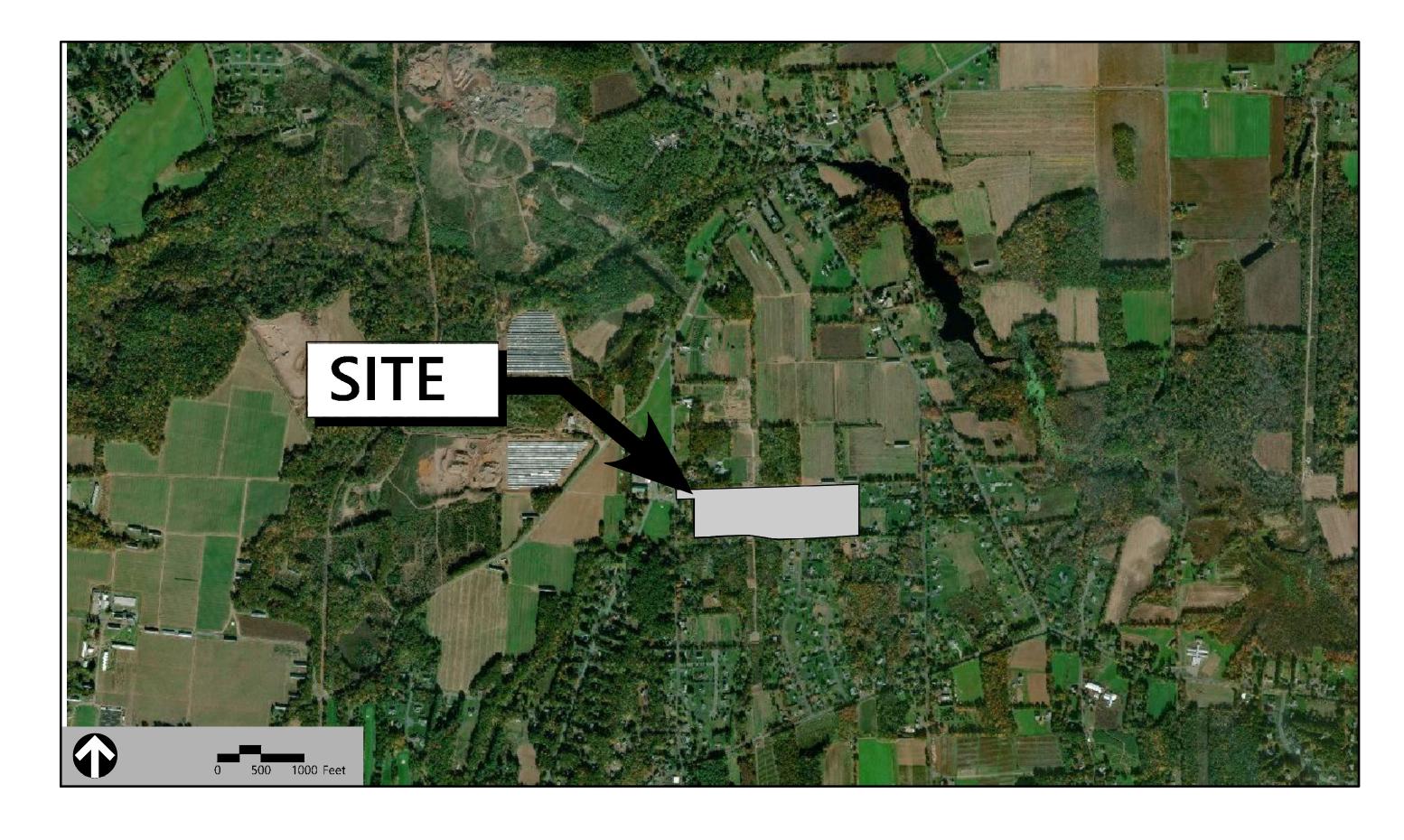
Map / Block / Lot:

038 / 68 / 030 028 / 68 / 023

Owner

Mulnite Farms, Inc. 28 Miller Road Broad Brook, CT 06016

Leonard A. Mulnite Revocable Trust Agreement & Donna L. Mulnite Revocable Trust Agreement 28 Miller Road Broad Brook, CT 06016



Reference Drawings

Drawing Title

Plan of Land in East Windsor, CT

Plan of Land in East Windsor, CT

Plan of Land in East Windsor, CT

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C-4.0	Grading and Drainage Plan - Overall	April 6, 2025		
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C-7.0	Landscape Plan	April 6, 2025		



Licensed Land Surveyor

Northeast Survey Consultants 116 Pleasant St. Suite 302 P.O. Box 109 Easthampton, MA 01027 413-203-5144

Latest Issue

March 15, 2021

March 12, 2021

March 15, 2021

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Exist.	Prop.		Exist.	Prop.	
		DDODEDTV LINE			CONCRETE
		PROPERTY LINE	[1] 1 [1] [1] [1] [1] [1] [1] [1] [1] [1		HEAVY DUTY PAVEMENT
		PROJECT LIMIT LINE			BUILDINGS
		RIGHT-OF-WAY/PROPERTY LINE			RIPRAP
		EASEMENT			
		BUILDING SETBACK		///// 	CONSTRUCTION EXIT
10 <u>+</u> 00	10+00	PARKING SETBACK	27.35 TC×	27.35 TC×	TOP OF CURB ELEVATION
		BASELINE	26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
		CONSTRUCTION LAYOUT	132.75 ×	132.75 ×	SPOT ELEVATION
		ZONING LINE	45.0 TW × 38.5 BW	45.0 TW × 38.5 BW	TOP & BOTTOM OF WALL ELEVATION
		TÓWN LINE	_ 36.5 BW	36.5 BW	BORING LOCATION
		LIMIT OF DISTURBANCE			TEST PIT LOCATION
<u>&</u>		WETLAND LINE WITH FLAG	→ MW	→ MW	MONITORING WELL
		FLOODPLAIN			WOMIONING WEEL
		100-YEAR FLOOD LIMITS	UD	——UD ——	UNDERDRAIN
		100-TEAR LEGOD EIMITS	12"D	12″D—►	DRAIN
		GRAVEL ROAD	6"RD	6"RD►	ROOF DRAIN
EOP	EOP		12"S	12 " S	SEWER
BB	BB	EDGE OF PAVEMENT	FM	<u>FM</u>	FORCE MAIN
	BC	BITUMINOUS BERM	——ОНW——	——OHW——	OVERHEAD WIRE
BC CC		BITUMINOUS CURB	6"W	6*W	WATER
CC	CC CG	CONCRETE CURB	4"FP	4"FP	FIRE PROTECTION
		CURB AND GUTTER		2*DW	DOMESTIC WATER
CC	ECC	EXTRUDED CONCRETE CURB	3"G	——-G——	GAS
CC	MCC	MONOLITHIC CONCRETE CURB	———E———	——Е—	ELECTRIC
CC	PCC	PRECAST CONC. CURB	STM	STM	STEAM
SGE	SGE	SLOPED GRAN, EDGING	——Т——	T	TELEPHONE
VGC	VGC	VERT. GRAN. CURB	FA	FA	FIRE ALARM
		LIMIT OF CURB TYPE		—— CATV——	
		SAWCUT		VAIV	CABLE TV
(//////					CATCH BASIN
		BUILDING			DOUBLE CATCH BASIN
](] ⊲EN	BUILDING ENTRANCE		===	GUTTER INLET
](LOADING DOCK	(1)	•	DRAIN MANHOLE
¥	•	BOLLARD	=TD=		TRENCH DRAIN
D	D	DUMPSTER PAD	Γ	r	PLUG OR CAP
-	•	SIGN	CO	co	CLEANOUT
<u> </u>	3 E	DOUBLE SIGN	>	>	FLARED END SECTION
			-	<u></u>	HEADWALL
7 7		STEEL GUARDRAIL			
<u> </u>		WOOD GUARDRAIL	<u> </u>	•	SEWER MANHOLE
			_ CS ⊚	CS ●	CURB STOP & BOX
	====	PATH	₩V	₩V •	WATER VALVE & BOX
		TREE LINE	TSV	T\$V —◆►	TAPPING SLEEVE, VALVE & BOX
×	-××	WIRE FENCE	art.	*	SIAMESE CONNECTION
o	•	FENCE	HYD	HYD ©	FIRE HYDRANT
		STOCKADE FENCE	WM	WM ⊡	WATER METER
00000	-0000000-	STONE WALL	PIV	PIV ●	POST INDICATOR VALVE
		RETAINING WALL	(()	®	WATER WELL
		STREAM / POND / WATER COURSE			
		DETENTION BASIN	GG O	GG O	GAS GATE
			GM ⊡	GM ⊡	GAS METER
		HAY BALES			
		HAY BALES SILT FENCE	Ē	● ^{EMH}	ELECTRIC MANHOLE
××			EN	⊕ ^{EMH} EM ⊡	
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	— X — X — X —	SILT FENCE SILT SOCK / STRAW WATTLE MINOR CONTOUR MAJOR CONTOUR PARKING COUNT COMPACT PARKING STALLS DOUBLE YELLOW LINE			ELECTRIC METER LIGHT POLE TELEPHONE MANHOLE TRANSFORMER PAD UTILITY POLE GUY POLE GUY WIRE & ANCHOR HAND HOLE
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VAN-ACCESSIBLE PARKING

	Abbreviations
Genera	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT TO SCALE
NTS PERF	NOT TO SCALE PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL
Utility	
СВ	CATCH BASIN
СМР	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
Gl	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PIV	POST INDICATOR VALVE
PWW	PAVED WATER WAY
PVC RCP	POLYVINYLCHLORIDE PIPE REINFORCED CONCRETE PIPE
RE	RIM ELEVATION
k= SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
▼	SEELVE, VALVE AND DOA

UNDERGRÖUND

UTILITY POLE

Notes

General

- CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (811 OR 1-800-922-4455) AT LEAST 72 HOURS BEFORE EXCAVATING.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES
- 3. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.

SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

- 4. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- 5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE
- 6. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 7. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 9. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 10. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND WILL REQUIRE ADHERENCE TO AND REGISTRATION FOR THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES, EFFECTIVE DECEMBER 31, 2020 AS AMENDED.
- 11. STAGING AND STOCKPILE AREAS SHALL NOT BE LOCATED WITHIN ANY WETLAND AND ABUTTING RESOURCE AREA AND SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE.

Hillities

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- 4. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 5. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.

Layout and Materials

- 1. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- 2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- 3. FINAL LAYOUT SUBJECT TO CONDITIONS ENCOUNTERED IN THE FIELD.

<u>Demolition</u>

- 1. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- 2. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION, THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK
- 3. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

Erosion Control

- 1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- 2. CONTRACTOR OR QUALIFIED INSPECTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS OR MORE FREQUENTLY AS NEEDED, (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.
- 6. VEGETATIVE SLOPE STABILIZATION WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. VEGETATIVE SLOPE

STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR STEEPER. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

Existing Conditions Information

- BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY PLANS AND DEEDS OF RECORD AND MONUMENTS FOUND IN A FIELD SURVEY CONDUCTED BY NORTHWEST SURVEY CONSULTANTS. THE TOPOGRAPHY IS BASED ON A DIGITAL ELEVATION MODELS OF THE 2016 CRCOG LIDAR DATA DISTRIBUTED BY NOAA.
- 2. DATUMS: THE HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM GPS OBSERVATIONS TAKEN ON SITE.

Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.



100 Great Meadow Road Suite 200 Wethersfield, CT 06109 860.807.4300

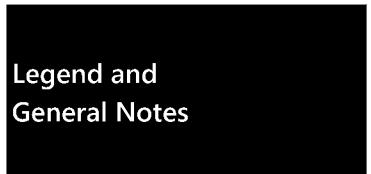
Photovoltaic Installation

Mulnite Farms
East Windsor, Connecticut

No.	Revision	Date	Арри
1	CSC Comments	11/4/2021	SJI
2	Revised Swale 4	12/28/2021	SJ
3	Revised for Construction	5/12/2022	SJ
4	Revised Panel Layout	5/22/2024	SJ
5	Revised Electrical Layout	4/6/2025	SJI
	·		

Designed by DRB	Checked by SJK
Issued for	Date
Construction	July 23, 2021

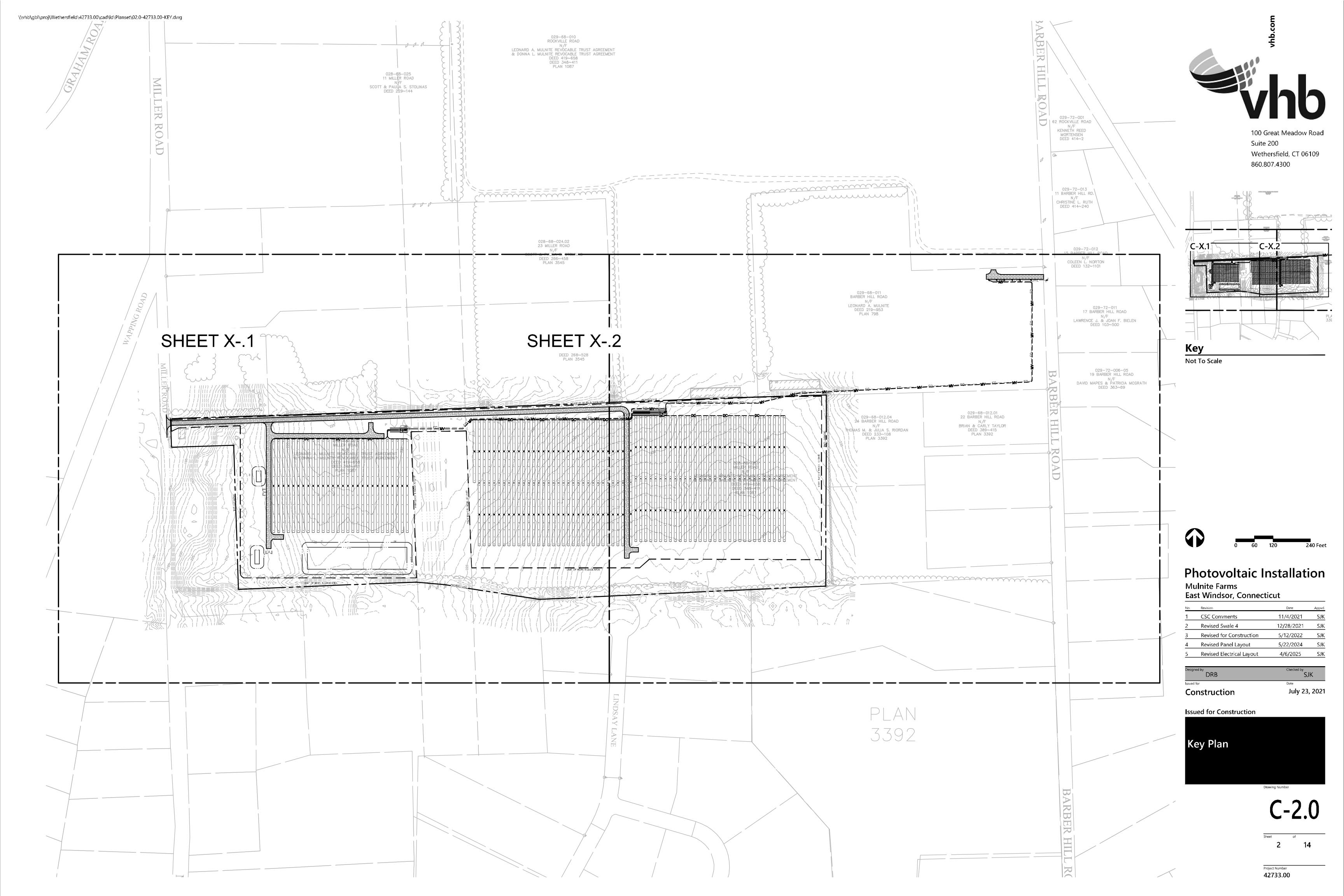
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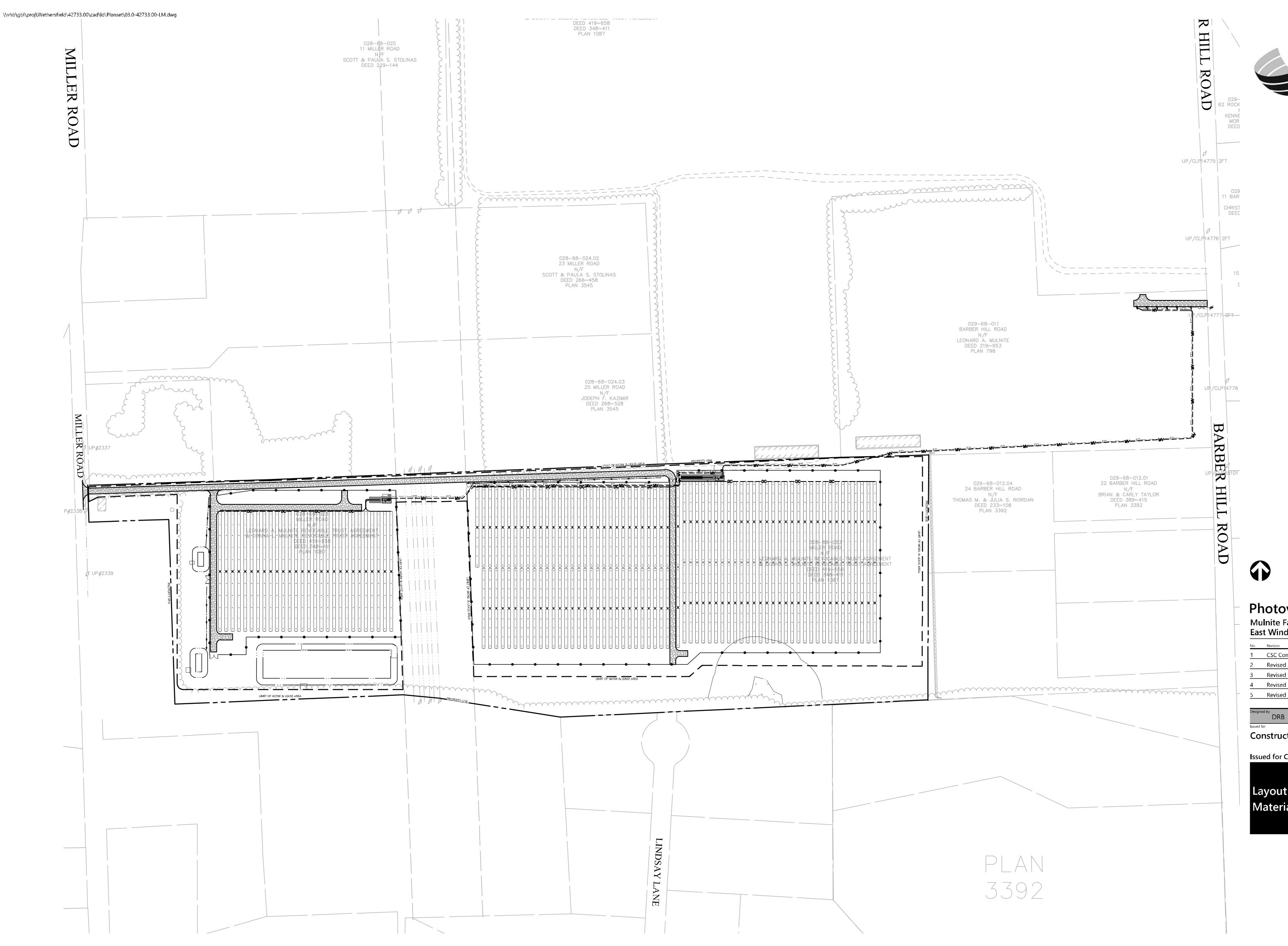


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Project Number 42733.00







Photovoltaic Installation

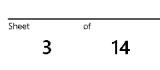
Mulnite Farms East Windsor, Connecticut

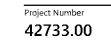
1	CSC Comments	11/4/2021	SJK
2	Revised Swale 4	12/28/2021	SJK
3	Revised for Construction	5/12/2022	SJK
4	Revised Panel Layout	5/22/2024	SJK
5	Revised Electrical Layout	4/6/2025	SJK

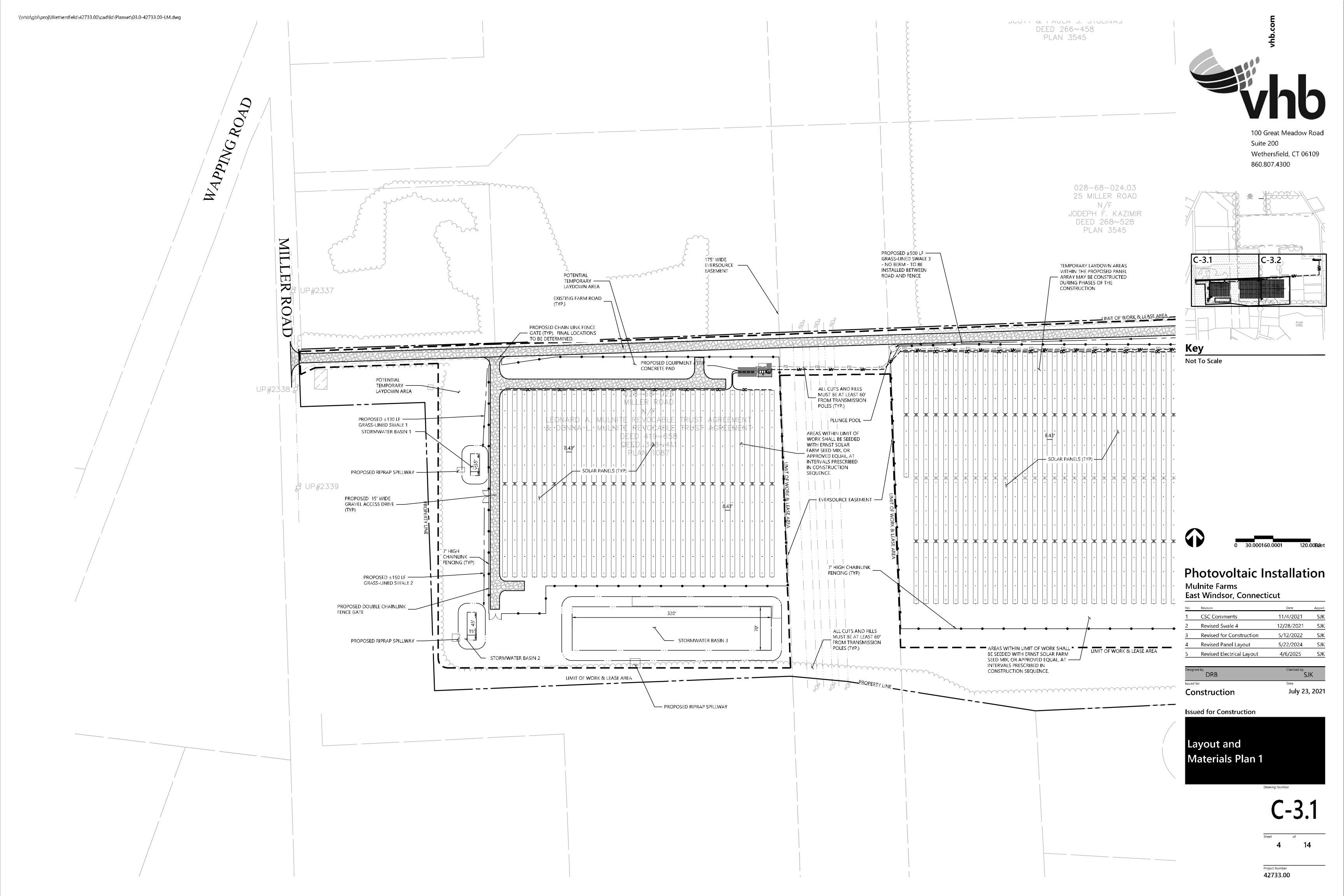
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ls	sued for	Date
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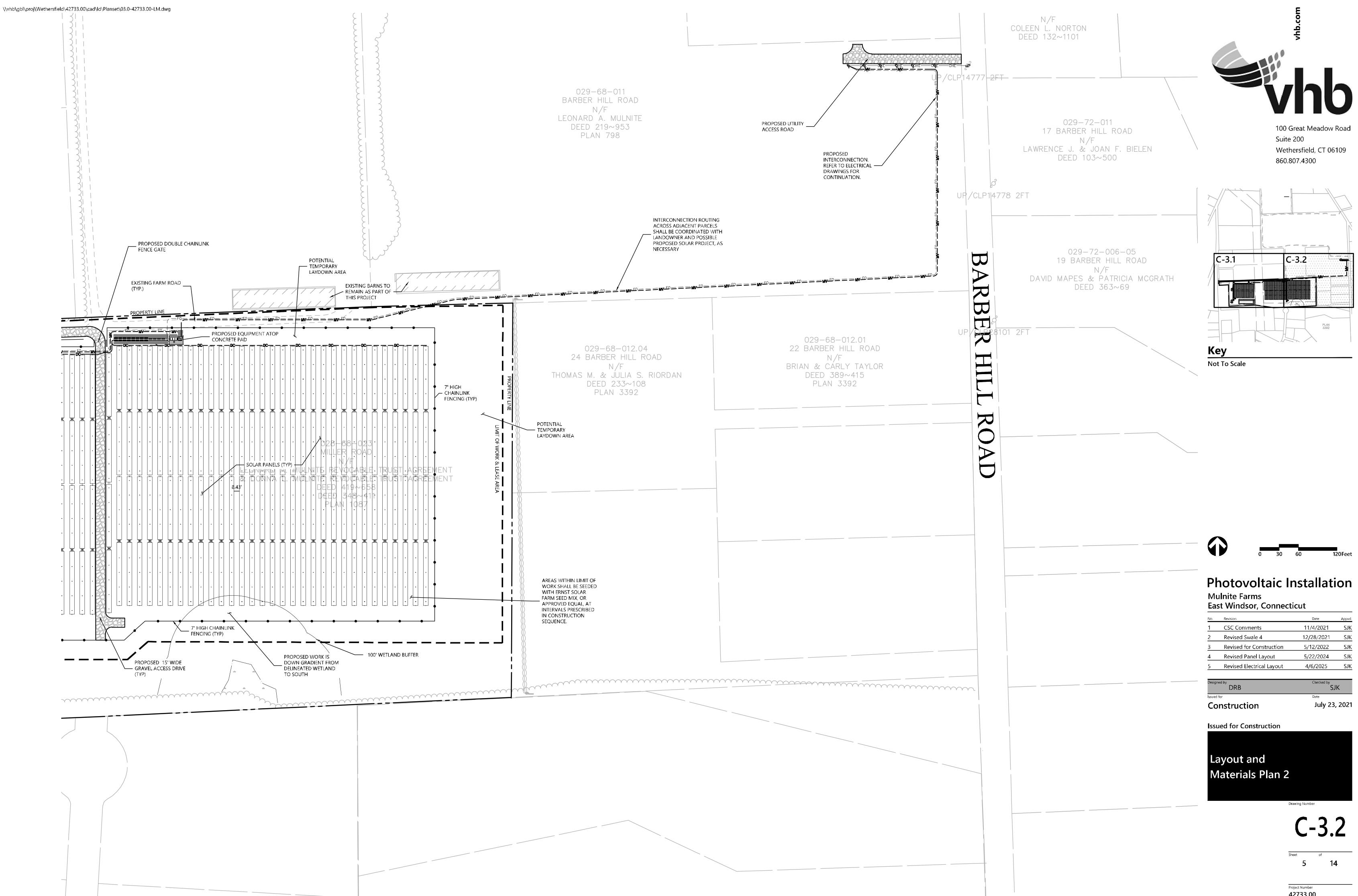
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Layout and Materials Plan - Overall

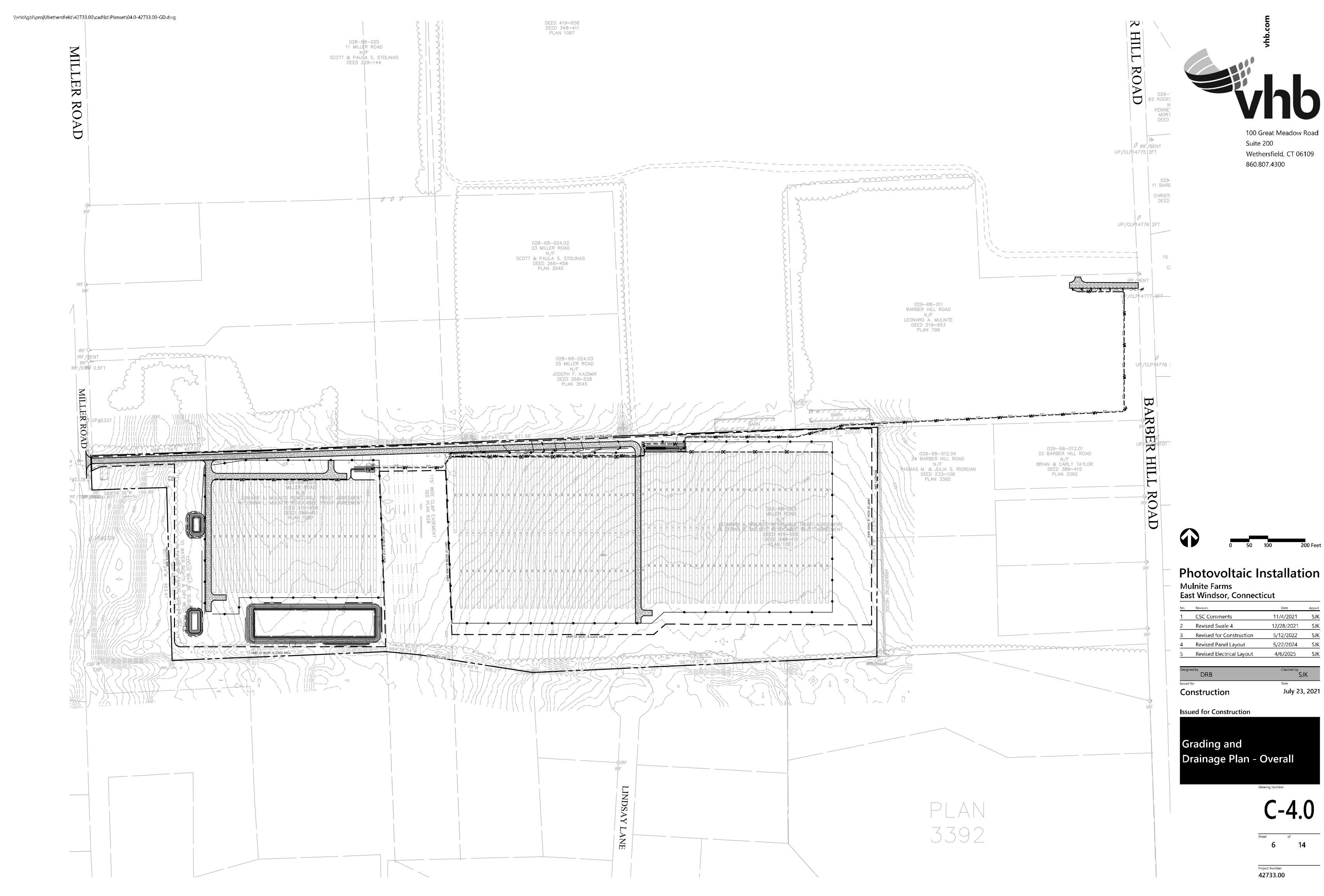






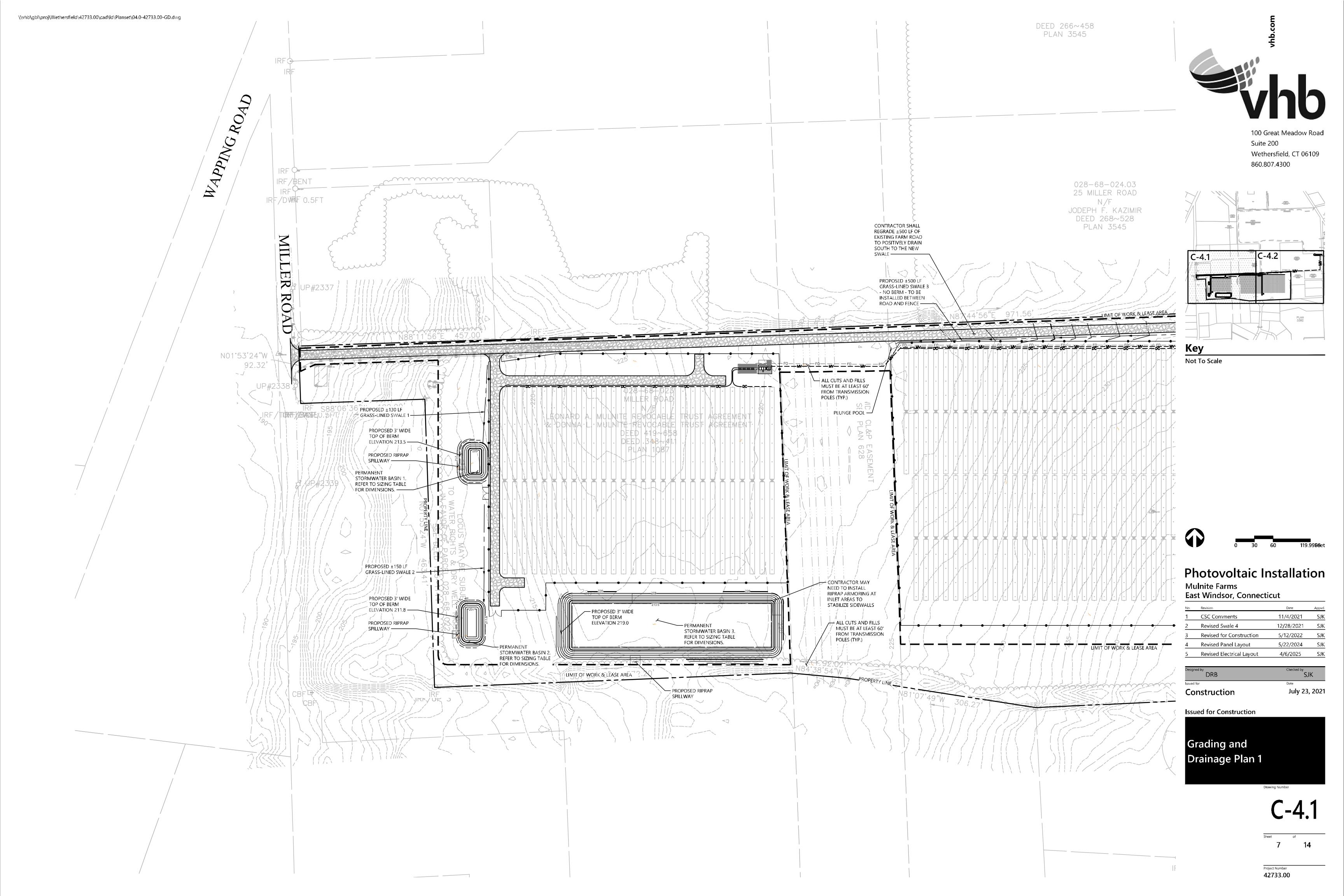


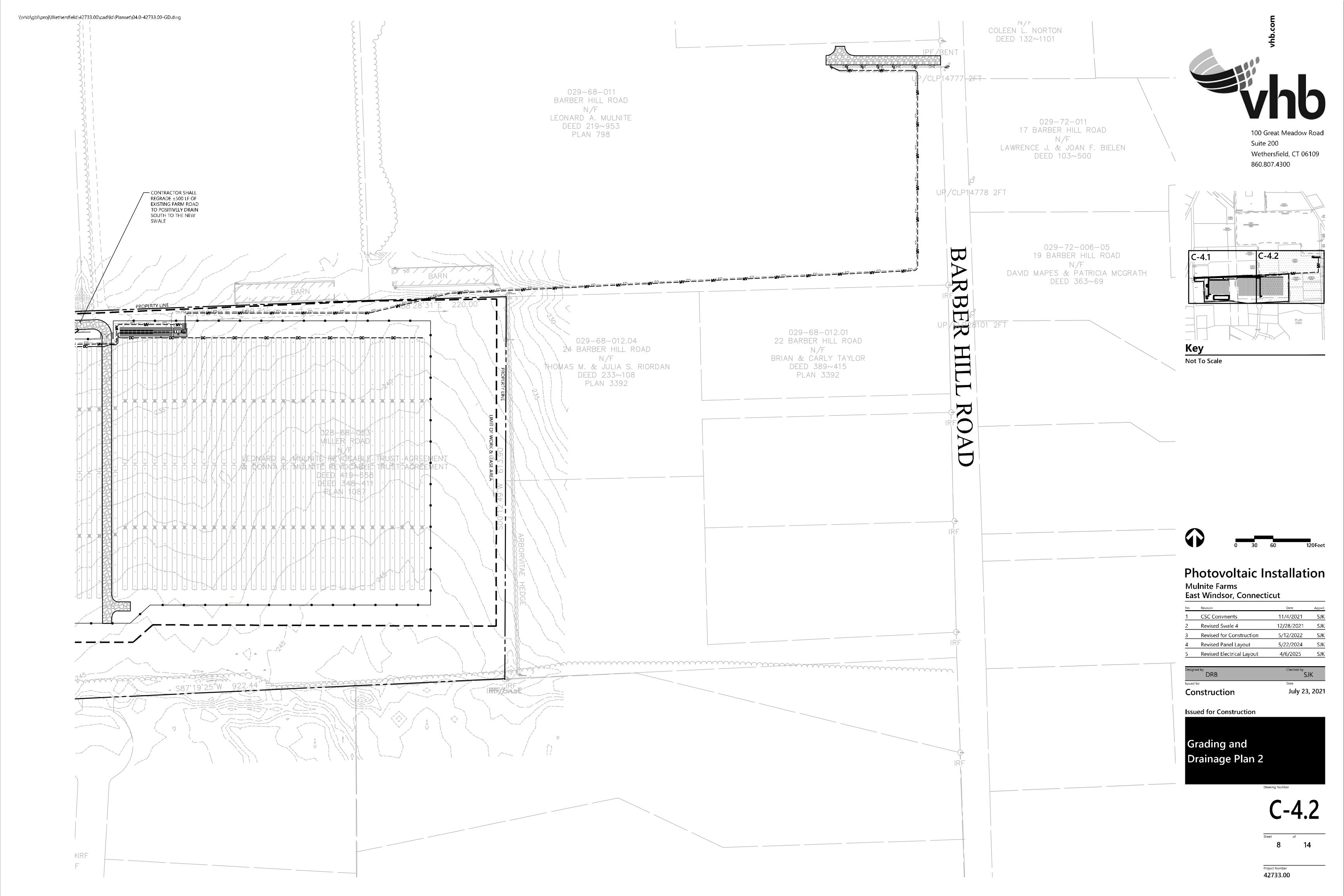
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Checked by SJK

July 23, 2021





CONSTRUCTION SEQUENCING

THE CONSTRUCTION PERIOD IS ANTICIPATED TO BE APPROXIMATELY 6 MONTHS UNTIL FINAL STABILIZATION. THE GENERAL CONSTRUCTION NOTES ARE AS FOLLOWS:

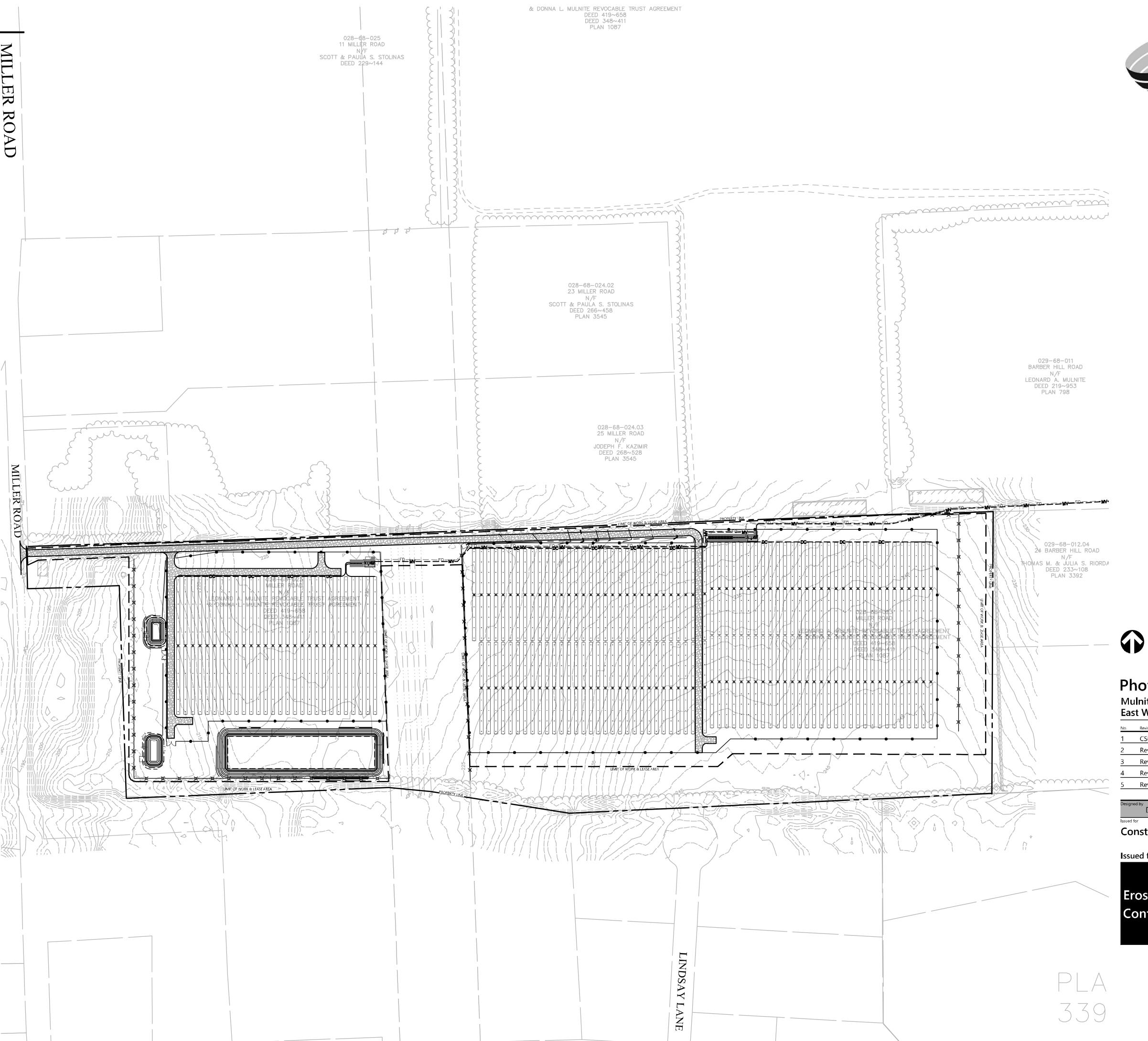
- 1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, WETLANDS AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. DESIGNATED ACCESS DRIVES MUST BE USED TO THE MAXIMUM EXTENTS POSSIBLE. IT IS REQUIRED THAT THE SITE CONTRACTOR PERFORM A DAILY INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES EMPLOYED AT THE SITE.
- A CTDEEP-APPROVED QUALIFIED INSPECTOR SHALL BE ASSIGNED TO BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND PREPARING REPORTS IN ACCORDANCE WITH SECTION 5(B)(4)(B) OF THE CONSTRUCTION GENERAL PERMIT. THESE INSPECTIONS SHALL TAKE PLACE WEEKLY, AT A MINIMUM, AND SHALL BE REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT EXCEEDING 0.5 INCHES. THE ENGINEER OF RECORD SHALL BE REQUIRED TO REVIEW AND COUNTER-SIGN THE PREPARED WEEKLY REPORTS. IT IS ALSO ANTICIPATED THAT REPRESENTATIVES FROM CTDEEP AND/OR THE STATE CONSERVATION DISTRICT WILL PERFORM PERIODIC INSPECTIONS.
- ENGINEER OF RECORD WILL PERFORM MONTHLY PLAN IMPLEMENTATION INSPECTIONS AND PREPARE REPORTS OF THE FINDINGS. THESE INSPECTIONS SHALL LAST A MINIMUM OF THREE (3) MONTHS OR UNTIL THE COMPLETION AND STABILIZATION OF ALL EROSION CONTROL MEASURES AT THE SITE,
- 4. THROUGHOUT THE COURSE OF THE CONSTRUCTION PROJECT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE WARRANTED AT THE DISCRETION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER. THESE IMPROVEMENTS MUST BE IMPLEMENTED IN A TIMELY FASHION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT. ADDITIONALLY, AREAS OF PROPOSED COMPACTED NATIVE SOIL ROADS SHALL BE CONVERTED TO STABLE GRAVEL ROADS IF/AS DETERMINED BY THE QUALIFIED INSPECTOR OR
- PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF EAST WINDSOR WITH THE NAME OF CONTACT AND 24-HOUR CONTACT INFORMATION.
- CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.
- 7. THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING(S). ATTENDEES SHALL INCLUDE. BUT NOT BE LIMITED TO, REPRESENTATIVES OF THE GENERAL CONTRACTOR, SITE CONTRACTOR, CTDEEP, TOWN OF EAST WINDSOR, ENGINEER OF RECORD, AND QUALIFIED SWPPP INSPECTOR.
- 8. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) PRIOR TO ENGAGING IN ANY EXCAVATION ACTIVITIES AT THE SITE.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF EAST WINDSOR AGENT, ZONING ENFORCEMENT OFFICER, AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
- 10. NO CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN UNTIL THE PROPER EROSION CONTROL MEASURES SERVING THE AREA TO BE DISTURBED ARE IN PLACE.
- 11. ANTICIPATED WORK HOURS WILL BE BETWEEN 6:30 AM AND 5:00 PM.

PRE-CONSTRUCTION SITE PROTECTION SEQUENCE

- 1. ACCESS ROADS SHALL BE DESIGNATED AS EARLY AS FEASIBLE AND USED PRIMARILY FOR CONSTRUCTION TRAFFIC.
- INSTALL EROSION AND SEDIMENT CONTROLS FOLLOWING THE CT GUIDELINES AND MANUFACTURER'S DIRECTIONS. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MEASURES AS REQUIRED BY THE ENGINEER OF RECORD OR QUALIFIED INSPECTOR, TO PREVENT SEDIMENT-LADEN RUNOFF FROM REACHING WETLANDS OR DISCHARGING OFFSITE.
- INSTALL STORMWATER BASINS AND SEDIMENT TRAPS IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC SWPCP AND CT GUIDELINES. THE ENGINEER OF RECORD SHALL INSPECT FEATURES TO CONFIRM REQUIRED STORAGE CAPACITIES ARE PROVIDED AND THAT OUTLETS AND/OR SPILLWAYS ARE CONSTRUCTED CORRECTLY. DISCHARGE AREAS BELOW OUTFALLS MUST BE INSPECTED TO CONFIRM FLOW WILL BE OVER STABLE GROUND AND SHEET FLOW IS ENCOURAGED. IF DISTURBED SOILS ARE PRESENT, THE ENGINEER OF RECORD TO PROVIDE CORRECT MEASURES TO ADDRESS CONDITION.
- SEED AND PROTECT DISTURBED SOILS AROUND SEDIMENT TRAPS AND BASINS WITHIN 14 DAYS OF COMPLETION. SECURE SEED WITH A THERMALLY-TREATED BONDED FIBER MATRIX (BFM) APPLIED FOLLOWING MANUFACTURER'S SPECIFICATIONS FOR USE AT SPECIFIED APPLICATION RATES. AN ANIONIC POLYACRYLAMIDE PRODUCT MAY BE INCLUDED WITH THE TACKIFIER TO PROMOTE SOIL STABILITY. ALL OTHER AMENDMENTS SHOULD BE PRESCRIBED BASED ON THE RESULT OF SOIL TESTS.
- PERFORM MASS EARTHWORK ON THE SITE. MASS EARTHWORK SHALL ONLY MEAN REGRADING TO MEET THE PROPOSED GRADING DEPICTED ON THE PLANS. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM AREAS PROPOSED FOR REGRADING. EXCESS SOIL WHICH IS NOT REUSED IN PROPOSED SITE GRADING AS DEPICTED ON PLANS SHALL BE HANDLED PER THE OWNER.
- TOPSOIL SHALL BE REPLACED TO 3" MINIMUM DEPTH OVER REGRADED AREAS UPON COMPLETION OF MASS EARTHWORK ACTIVITIES AND AREAS WHICH WERE DISTURBED BY MASS EARTHWORK OPERATIONS SHALL BE RESEEDED WITHIN 14 DAYS OF COMPLETION,
- THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ADDRESS ONGOING EROSION PROBLEMS USING TEMPORARY DIVERSIONS AND FILLING AND GRADING GULLIES. TRACK GULLIES UP AND DOWN SLOPE AND HYDROSEED WITH A THERMALLY-TREATED WOOD BONDED FIBER MATRIX (BFM) MULCH WITH TACKIFIER. A STAPLED BIODEGRADABLE EROSION CONTROL BLANKET WITHOUT MONOFILAMENT MESH IS AN ACCEPTABLE ALTERNATIVE FOR HYDROSEED AND BFM.
- UPON COMPLETION OF THIS CONSTRUCTION PHASE, ALL DISTURBED AREAS SHALL BE SEEDED WITH TACKIFIER AND CONSTRUCTION SEQUENCE MAY ONLY BEGIN IN AREAS DISPLAYING ADEQUATE VEGETATION WITHIN PROPOSED ARRAY AREA.

INSTALL PILES AND/OR GROUND SCREWS FOR SOLAR PANEL RACKING.

- 2. THE INSTALLATION OF RACKING SHALL FOLLOW THE FOUNDATION INSTALLATION BY ROUGHLY ONE WEEK STARTING FROM THE SAME POINT. RESEED AND REGRADE ALL AREAS DISTURBED BY CONSTRUCTION TRAFFIC WITHIN THE ARRAYS
- WHERE RACKS ARE INSTALLED AS EARLY AS POSSIBLE, RUTS AND RILLS SHALL BE SMOOTHED 4. INSTALL SOLAR PANEL MODULES IN THE RACKING. MUCH OF THIS WORK IS ANTICIPATED TO BE
- PERFORMED BY HAND AND LIGHT CONSTRUCTION EQUIPMENT WHICH WILL CAUSE MINIMAL DISTURBANCE COMPARED TO THE USE OF HEAVY EQUIPMENT. DESIGNATED ACCESS ROADS SHALL STILL BE USED TO THE MAXIMUM EXTENTS POSSIBLE.
- UPON COMPLETION OF CONSTRUCTION, RE-SEED ALL DISTURBED AREAS WITHIN 14 DAYS AND PREVENT VEHICULAR TRAFFICKING OVER THESE AREAS. INSTALL FINAL LANDSCAPING.
- AFTER SITE IS STABILIZED, AND AFTER INSPECTION BY DESIGN ENGINEER, OR OTHER OWNER'S REPRESENTATIVE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. ENTIRE SITE SHALL BE CHECKED FOR AND CLEANED OF SEDIMENT AS NEEDED.

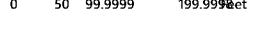




Suite 200 Wethersfield, CT 06109 860.807.4300

100 Great Meadow Road





Photovoltaic Installation Mulnite Farms

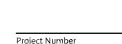
East Windsor, Connecticut

		=	- 10-10-1-12-1
	CSC Comments	11/4/2021	SJK
<u> </u>	Revised Swale 4	12/28/2021	SJK
}	Revised for Construction	5/12/2022	SJK
ļ.	Revised Panel Layout	5/22/2024	SJK
,	Revised Electrical Layout	4/6/2025	SJK

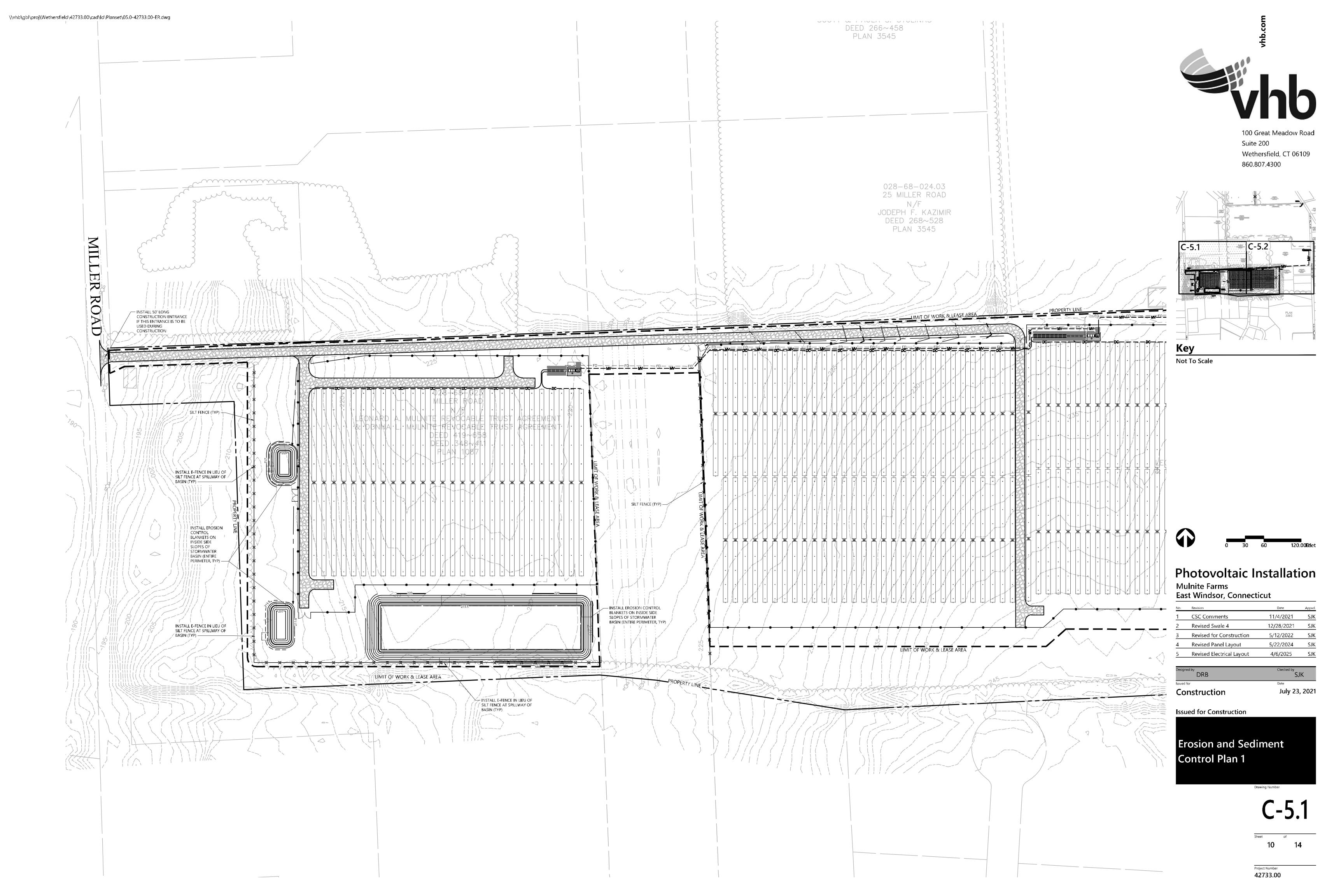
Designed by DRB	Checked by SJK	
Issued for	Date	
Construction	July 23, 2021	

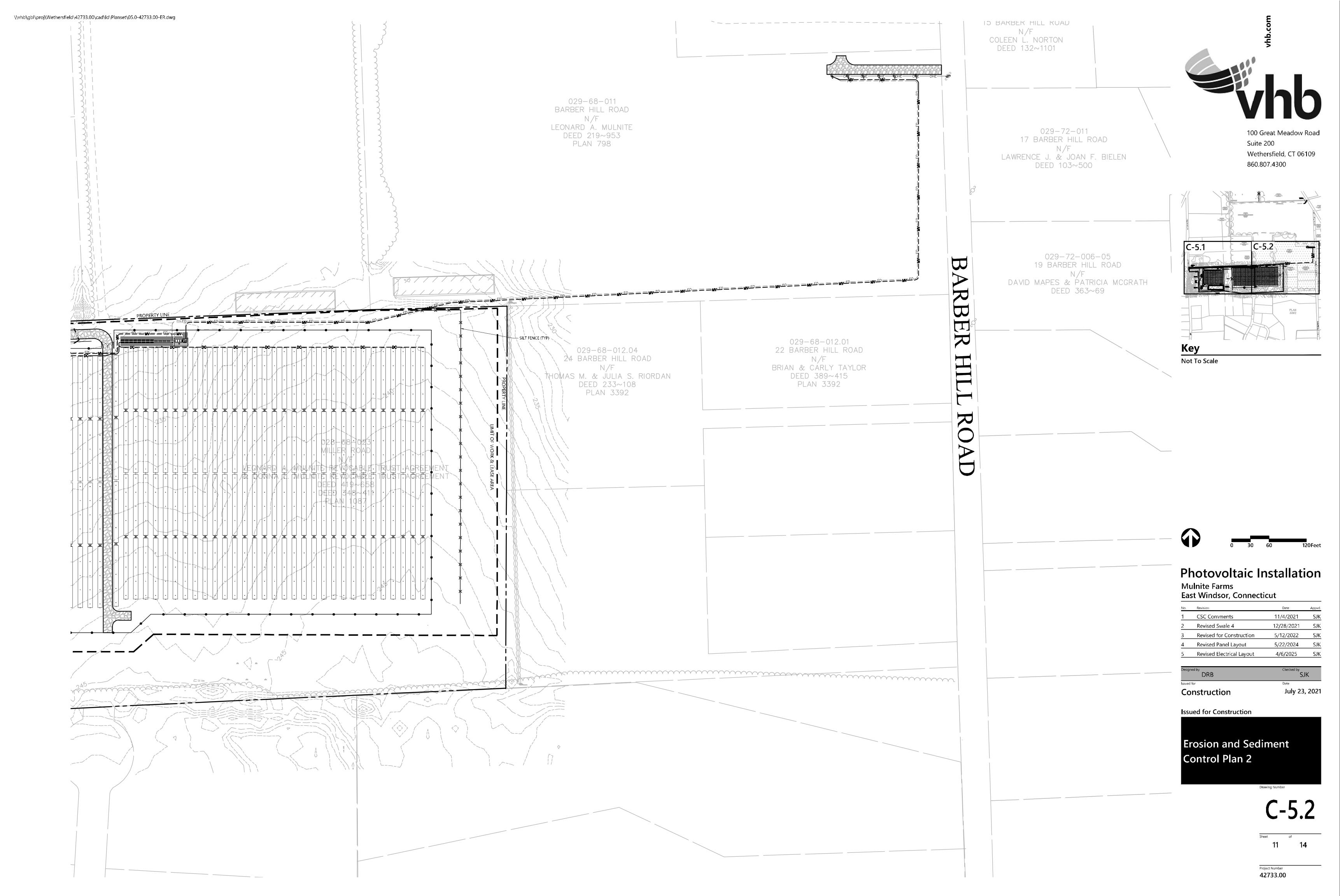
Issued for Construction

Erosion and Sediment Control Plan - Overall



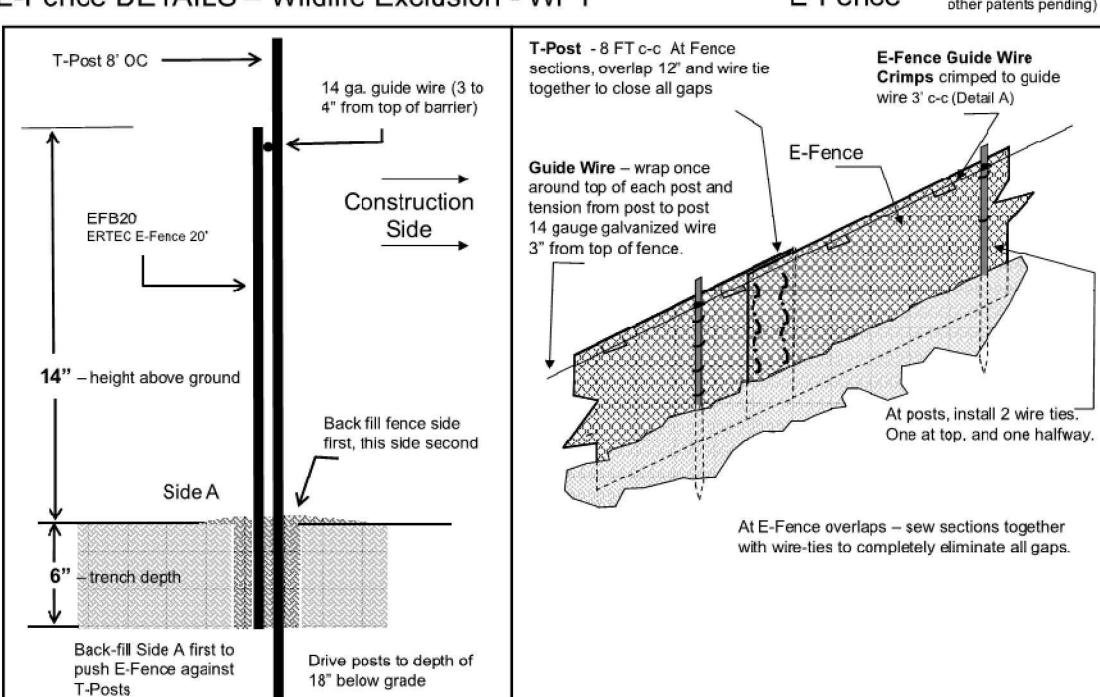
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E-Fence DETAILS – Wildlife Exclusion - WPT

other patents pending)

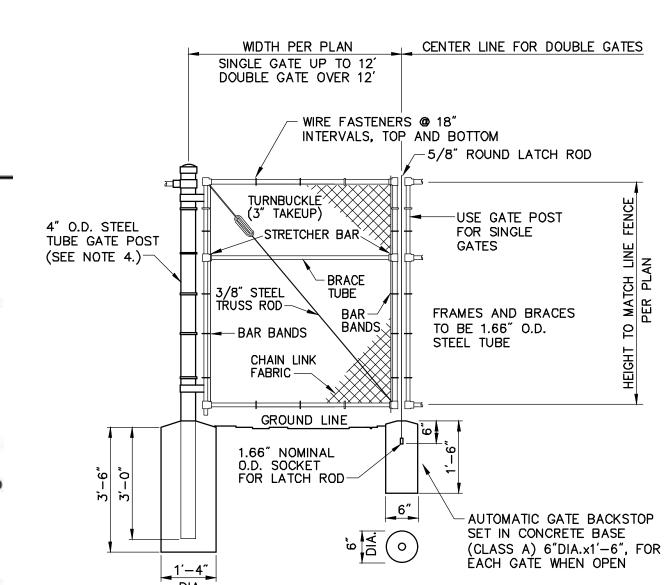


E-Fence DETAILS - Guidewire Crimp Detail A: Instailing E-Fence Wire Ties: 1). Push E-Fence tie through barrier. 2). Expose hooks on side near guide wire, 3), insert guide wire, 4), Crimp tightly,

E-Fence™ DETAILS – Wildlife Exclusion

Installation Notes:

- Excavate a trench a minimum of 4" wide and a minimum of 5"
- T-posts shall be a minimum of 0.95 lbs/ft. T-posts shall be driven a minimum 18" deep into the ground 8' centers
- . Insert barrier material into trench and attach to post in two places: 1) at 3" below top of fence and at 2) mid-height
- At 3 Inches from top of fence (above wire tie), wrap 14 gauge galvanized wire once around each T-post and pull the guide wire from post to post, wrap, secure and pull wire tight between each
- At segment overlaps (roll length 100 or 150 LF), overlap segments a minimum of 12". Eliminate all gaps by tying sections together with tie wire in two vertical rows, as shown.
- Push E-Fence Guide Wire Crimps through the E-Fence and crimp the ties to the guide wire on the other side of the fence (two crimps per tie) at 3' intervals, as illustrated in Detail A of the installation guidelines. Crimp to the guide-wire securely.
- E-Fence must be installed in continuous lengths (100 or 150 feet rolls). Do not cut segments into shorter lengths unless necessary due to sudden changes in elevation.
- Backfill trench with trench spoils. Backfill from E-Fence side of posts first so that E-Fence is pushed up against T-posts. Back fill other side to complete backfill.



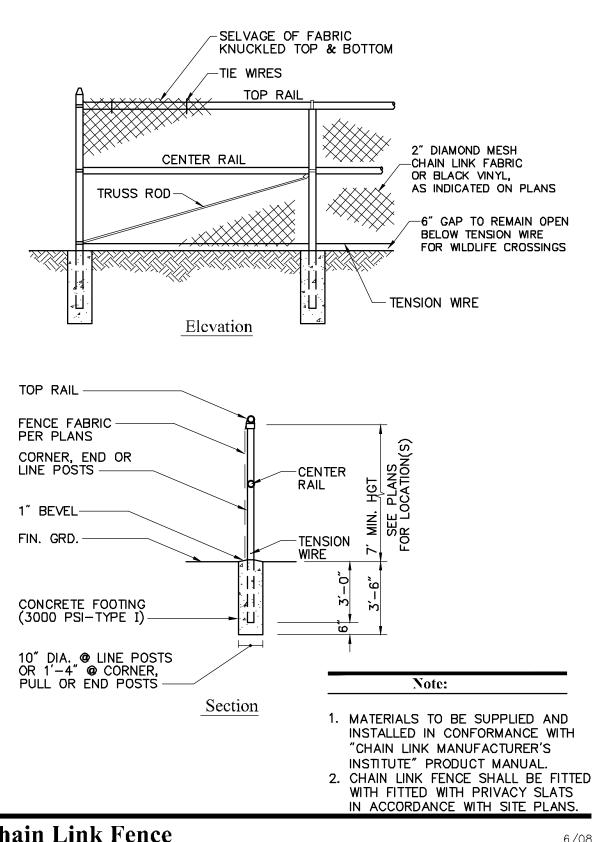
Notes:

- CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
- 2. GATE POST BASE-PORTLAND CEMENT CONCRETE (3000 PSI).
- 3. FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL OR BLACK VINYL (AS INDICATED ON PLANS) PER SPECIFICATIONS.
- 4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fence Gate		6/08
N.T.S.	Source: VHB	LD_482

E-Fence Installation Details

N.T.S. Source: Ertec Environmental Systems



N.T.S.

7' Chain Link Fence N.T.S. Source: VHB LD_480



PHOTOVOLTAIC INSTALLATION Site Location: Mulnite Farms, East Windsor, CT 06016 Owner: Greenskies Clean Energy, LLC Attn: Steven Martineau 127 Washington Avenue, West Bldg, Lower Level North Haven, CT 06473 IN CASE OF EMERGENCY CALL 911 EAST WINDSOR POLICE DEPARTMENT - (860) 292-8240

Notes:

- 1. THE SITE FACILITY SIGN IS A DRAFT SHOWING THE MINIMUM AMOUNT OF INFORMATION THAT WILL BE
- PROVIDED. SIGN WILL BE 18" X 24". 2. ALL SIGNS WILL BE MOUNTED ONTO THE CHAIN LINK

Danger and Site Facility Signs 1/16

Photovoltaic Installation

100 Great Meadow Road

Wethersfield, CT 06109

Suite 200

860.807.4300

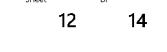
Mulnite Farms East Windsor, Connecticut

11/4/2021	SJK
12/28/2021	SJK
5/12/2022	SJK
5/22/2024	SJK
4/6/2025	SJK
	5/12/2022 5/22/2024

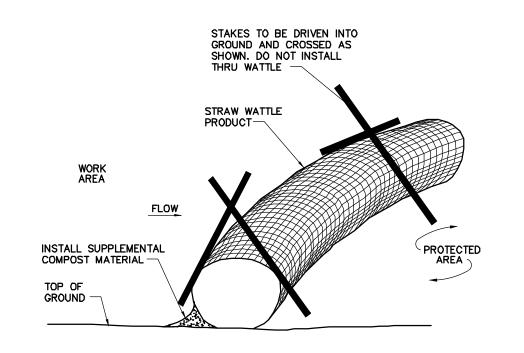
DRB	Checked by SJK	
Issued for	Date	
Construction	July 23, 2021	

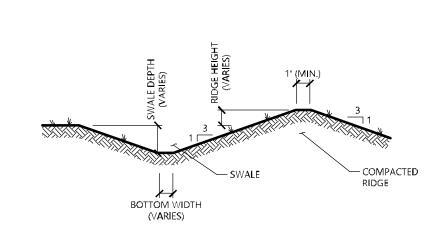
Issued for Construction











1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 2. REFER TO "DIVERSION SWALE SIZING" TABLE FOR SELECTION OF LINING MATERIAL TO BE INSTALLED OVER ENTIRE SWALE AREA. ENTIRE SWALE AREA.

3. REFER TO "DIVERSION SWALE SIZING" TABLE FOR VARIABLE SIZING.

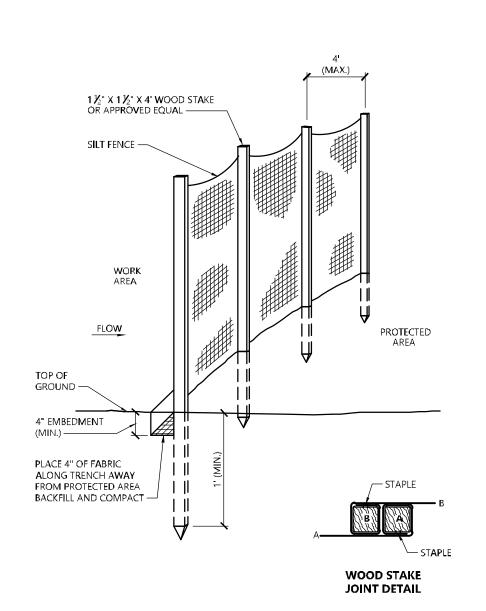
4.THE INTENT IS TO USE THE MATERIAL EXCAVATED FROM THE SWALE TO CONSTRUCT THE RIDGE.

Source: VHB

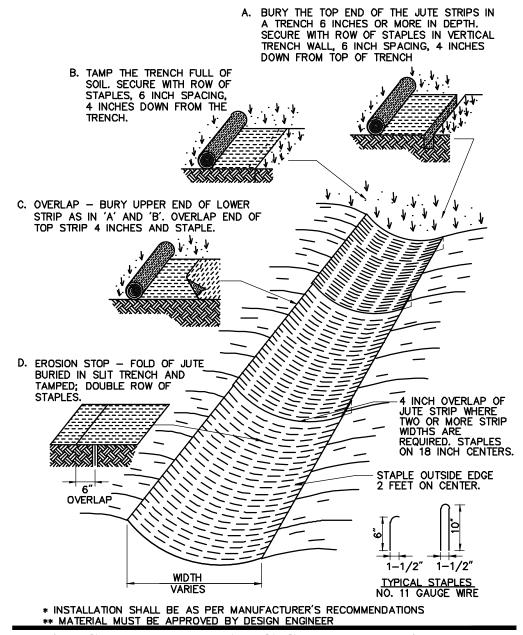
Straw Wattle Installation 8/12 N.T.S. LD_658



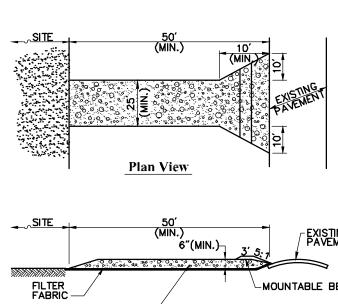
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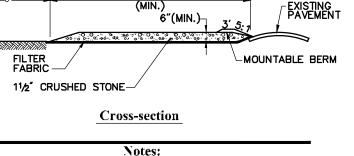


Silt Fence Barrier		1/16
N.T.S.	Source: VHB	LD_650



	BE APPROVED BY DESIGN ENGINEER	
Erosion Control	Blanket (EBC) Swale Installation	6/08
N.T.S.	Source: VHB	LD_681



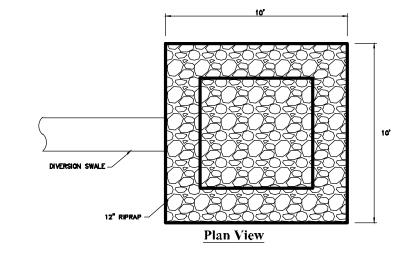


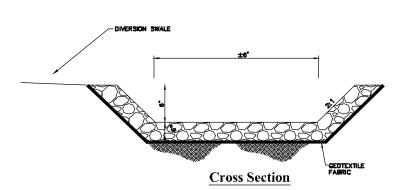
1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

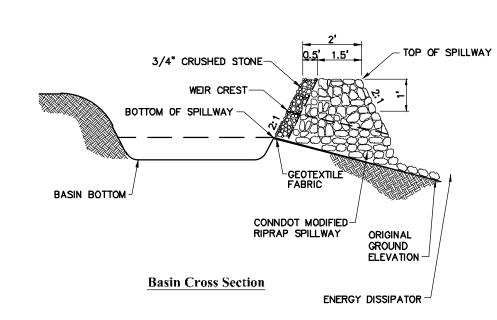
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Constru	etion Exit	6/08
N.T.S.	Source: VHB	LD_682





Plunge Pool		
N.T.S.	Source: VHB	_

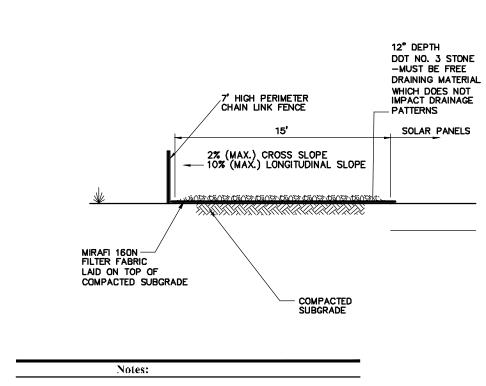


1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 2. TOP OF EMBANKMENT SHALL BE 2' (MIN.) WIDTH AND 1' (MIN.) ABOVE TOP OF SPILLWAY. 3. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL SIDE SLOPES OF EMBAINMENT SHALL BE STABILIZED BY TEMPORART SEEDING OR ENGSION CON BLANKETS AS DIRECTED BY THE ENGINEER.

 REFER TO "PERMANENT STORMWATER BASIN SIZING" TABLE FOR VARIABLE SIZING.

 PERIMETER SILT FENCE SHALL BE REMOVED IMMEDIATELY DOWNSTREAM FROM SPILLWAY AND REPLACED WITH E-FENCE.

Permanent Stormwater Basin



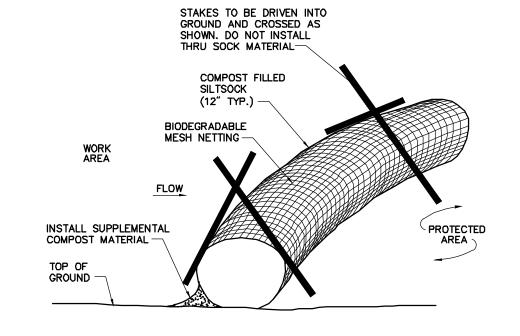
CRUSHED STONE SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION.

BASIN TYPE

Perimeter Access Cross Section

PERMANENT STORMWATER BASIN SIZING

SIDE SLOPES



	N	Votes:			
SILTSOCK SHALL BE	12"	DIAMETER	FILTREXX	SILTSOXX,	OR

- 2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
- SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.

ELEVATION OF SPILLWAY MINIMUM TOP UP BOTTOM/CREST WIDTH AT BASE, FT ELEVATION, FT

BOTTOM BOTTOM/CREST ELEVATION, FT OF SPILLWAY,

5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

Compost Filter Sock (CFS) 8/12 N.T.S. LD_658

3/4" CRUSHED STONE TOP OF SPILLWAY
WEIR CREST BOTTOM OF SPILLWAY
CONNDOT MODIFIED ORIGINAL GROUND ELEVATION
TRAP BOTTOM

NOTE: 1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1 2. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. 3. TRAP SHALL BE DRAINED AND CLEANED OF SEDIMENT ONCE SEDIMENT IS > 1' ABOVE TRAP BOTTOM.

Trap Cross Section

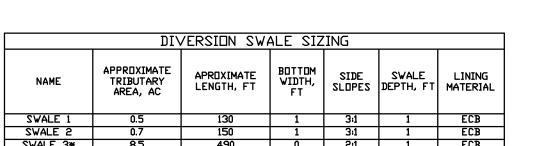
NOTE.

1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1
2. TOP OF EMBANKMENT SHALL BE 2' (MIN.) WIDTH AND 1' (MIN.) ABOVE TOP OF SPILLWAY.
3. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. 4, REFER TO "PERMANENT STORMWATER BASIN SIZING" TABLE FOR VARIABLE SIZING.

Source: VHB

Spillway Cross Section

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5. PERIMETER	SILT FENCE SH	HALL BE REMC	VED IMMEDIAT	TELY DOWNSTRI	EAM F <mark>RÓ</mark> M SPI	LĽ



LENGTH AT
BASIN BOTTOM
(TOE OF
SLOPE), FT

LENGTH AT
BASIN BOTTOM
(TOE OF
SLOPE), FT

* SWALE 3 IS NOT SIZED TO ADEQUATELY CONVEY LARGER STORM EVENTS - SHALL BE INSTALLED TO MAXIMUM WIDTH CONSTRUCTIBLE BETWEEN SOUTHERN EDGE OF ACCESS ROAD AND FENCE LINE

Photovoltaic Installation

100 Great Meadow Road

Wethersfield, CT 06109

Suite 200

860.807.4300

Mulnite Farms **East Windsor, Connecticut**

No.	Revision	Date	Appvd.
1	CSC Comments	11/4/2021	SJK
2	Revised Swale 4	12/28/2021	SJK
3	Revised for Construction	5/12/2022	SJK
4	Revised Panel Layout	5/22/2024	SJK
5	Revised Electrical Layout	4/6/2025	SJK

Designed by DRB	Checked by SJK
Issued for	Date
Construction	July 23, 2021

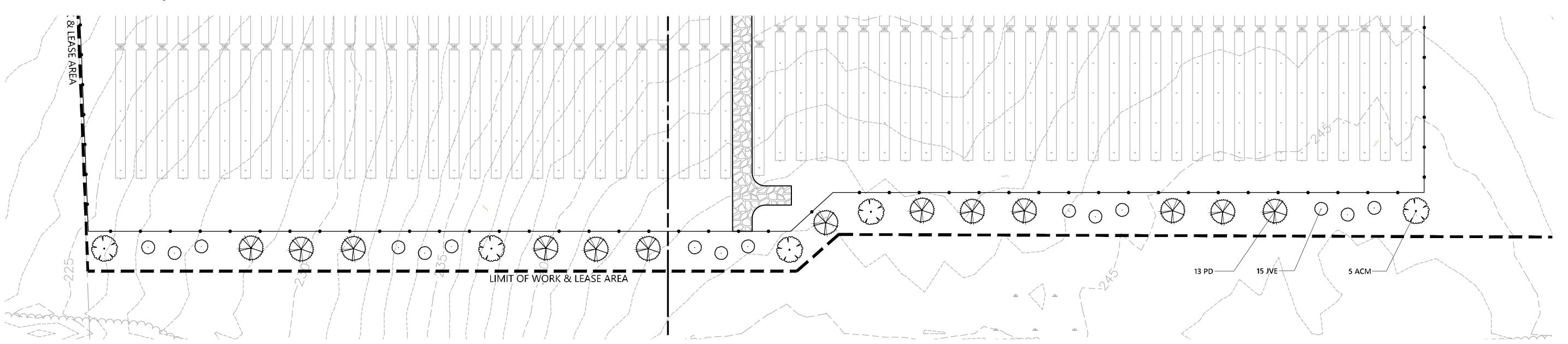
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Sizing Tables for Temporary & Permanent Stormwater Features

Sediment Trap (TST) Source: VHB Stormwater Basin Spillway N.T.S.



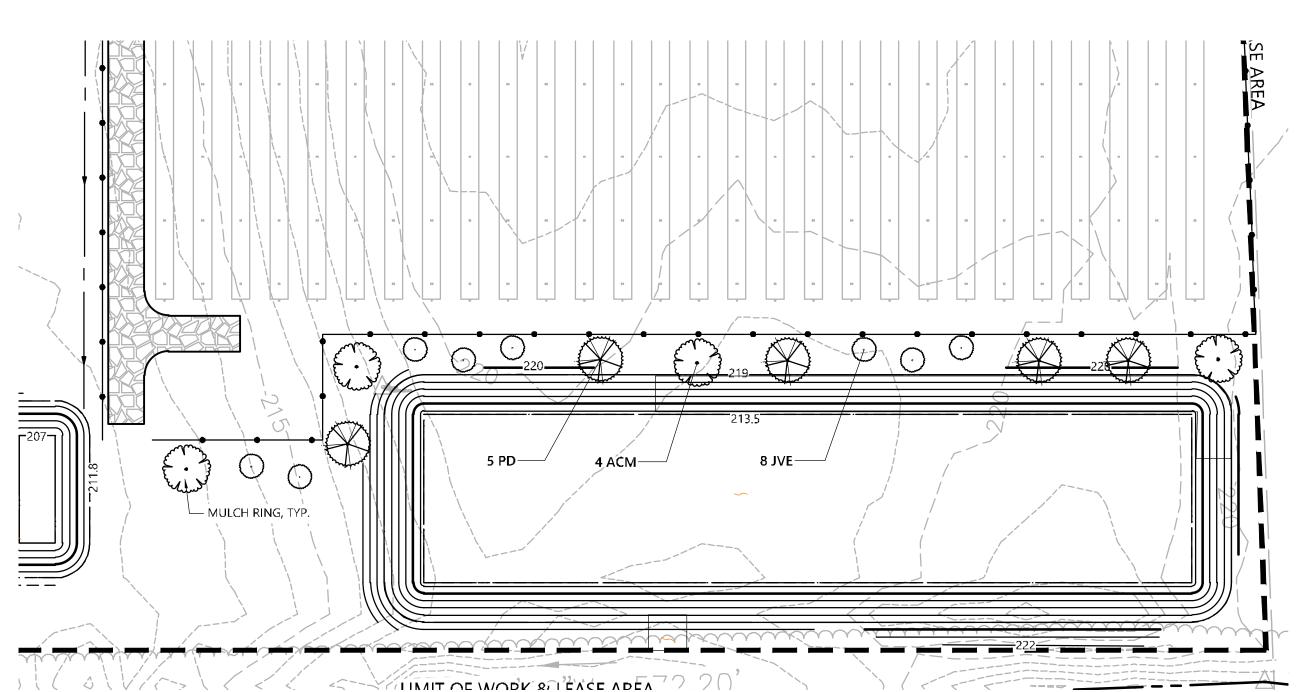
Evergreen Tree Planting

Source: VHB

N.T.S.



100 Great Meadow Road Suite 200 Wethersfield, CT 06109 860.807.4300



Planting Notes

REPRESENTATIVE.

- 1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- 3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.

4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL

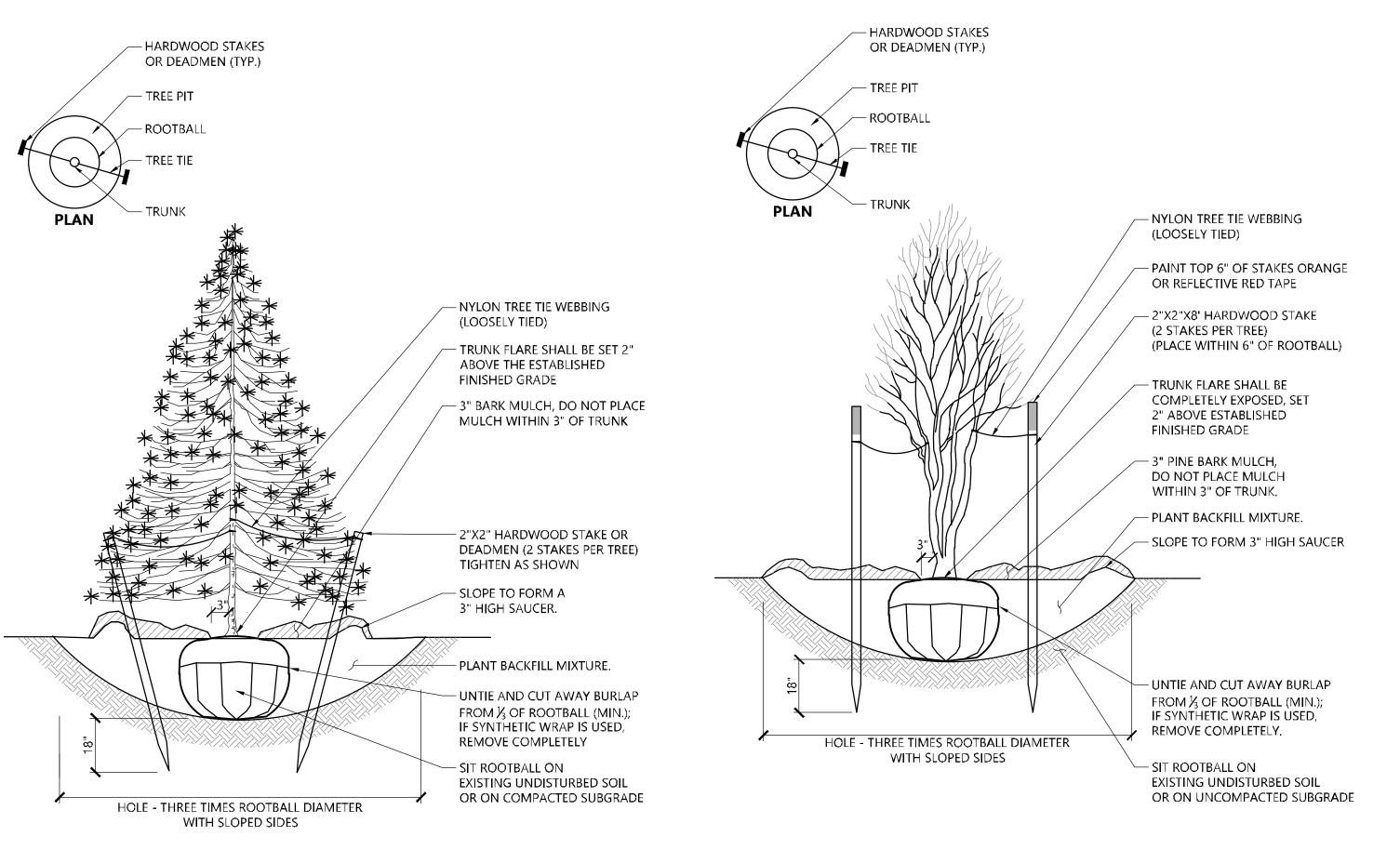
TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE

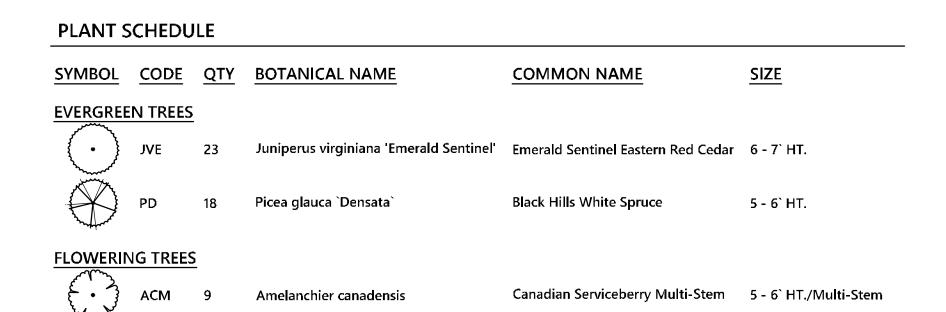
- INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.

 5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S
- 6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
- 7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
- 8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- 9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- 10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
- 11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

Plant Maintenance Notes

- 1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- 2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- 3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- 4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- 5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.





9/21

N.T.S.

LD_604

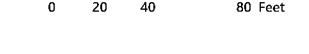
Multistem Tree Planting

Source: VHB



9/21

LD_606



Photovoltaic Installation Mulnite Farms

East Windsor, Connecticut

No.	Revision	Date	Appvd.
1	CSC Comments	11/4/2021	SJK
2	Revised Swale 4	12/28/2021	SJK
3	Revised for Construction	5/12/2022	SJK
4	Revised Panel Layout	5/22/2024	SJK
5	Revised Electrical Layout	4/6/2025	SJK

DRB	SJK
Issued for	Date
Construction	July 23, 2021

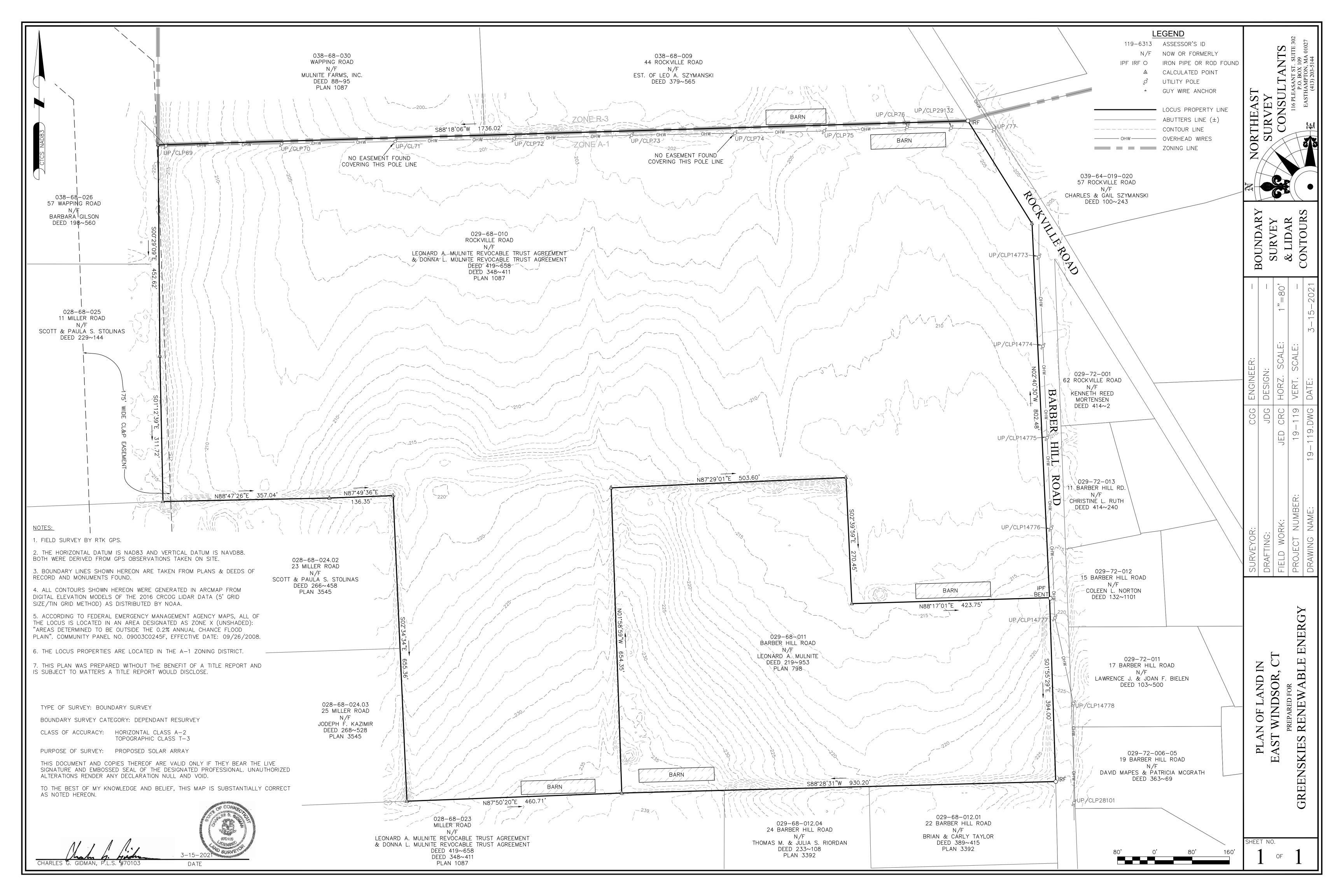
Issued for Construction

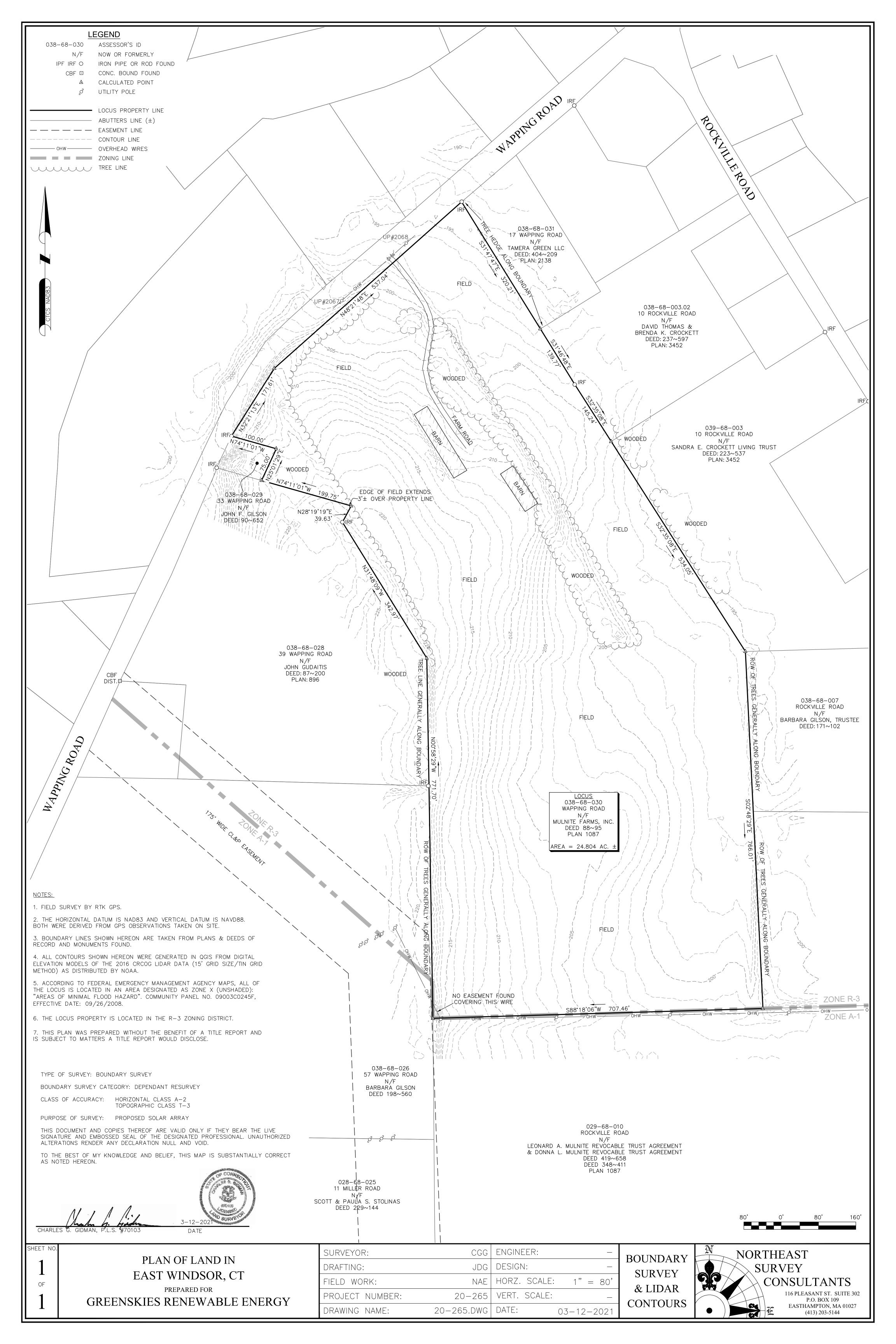


C-7.0



Project Number 42733.00







GROUND MOUNT SYSTEM AT

MULNITE - MILLER ROAD

MILLER ROAD, EAST WINDSOR, CT 06016





TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE: 4,689.360 kWDC 4,000.000 kWAC TOTAL AC SYSTEM SIZE:

(QTY) MODULE TYPE :

HELIENE

(8,684) 144HC M10 SL 540W BIFACIAL

MODULE TILT:

MODULE AZIMUTH:

SINGLE AXIS TRACKER

INVERTER MANUFACTURER:

SOLECTRIA

(QTY) INVERTER TYPE:

(32) XGI 1500 125/125 KW

SUBSYSTEM SUMMARIES:

SYSTEM A
DC SYSTEM SIZE: AC SYSTEM SIZE: (QTY) MODULE TYPE: (6,500) 144HC M10 SL 540W

3,510.000 kWDC 3,000.000 kWAC

(QTY) INVERTER TYPE: (24) XGI 1500 125/125 KW

AC SYSTEM SIZE:

1,179.360 kWDC 1,000.000 kWAC

(QTY)MODULE TYPE: (2,184) 144HC M10 SL 535W (QTY)INVERTER TYPE: (8) XGI 1500 125/125 KW

SCOPE OF WORK SUMMARY

INTERCONNECT AT NEW UTILITY SERVICE

GROUND MOUNT PV ARRAY:

• INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL. INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:

127 WASHINGTON AVENUE, WEST BUILDING, GARDEN LEVEL NORTH HAVEN, CT 06473

ENGINEERED BY:

Greenskies

a Clean Focus company

111 RIVER STREET, SUITE 1110 HOBOKEN, NEW JERSEY 07030

NOTES SPECIFIC TO CONNECTICUT

ADOPTED NEC VERSION: 2020 ADOPTED IBC VERSION: 2021 ADOPTED IFC VERSION: 2021

DRAWING INDEX

GENERA	L										
G001	TITLE SHEET	•									
ELECTRI	CAL										
E001	ELECTRICAL NOTES & SYMBOL LIST							0		0	
E100	AC ELECTRICAL PLAN	•									
E101	PARTIAL ELECTRICAL PLAN - SYSTEM A									0	
E102	PARTIAL ELECTRICAL PLAN - SYSTEM B									0	
E103	INVERTER & EQUIPMENT PLAN							0		0	
E104	EQUIPMENT MOUNTING DETAILS					0	0	0		0	0
E200	DC ELECTRICAL PLAN - SYSTEM A				•	•	•	0		0	0
E201	DC ELECTRICAL PLAN - SYSTEM B				•	•	•	0		0	0
E202	STRING WIRING DETAILS				•	0	0	0	×	0	0
E300	ONE LINE DIAGRAM - MV & SYSTEM A	•	0	0	•	•	•	0		0	•
E301	ONE LINE DIAGRAM — SYSTEM B	•	0	0	•	•	•	0		0	•
E310	SCHEDULES & CALCULATIONS				•	•	•	0		0	•
E311	SCHEDULES & CALCULATIONS				•	•	•	0		0	0
E401	GROUNDING DETAILS				•	0	0	0	•	0	0
E402	ELECTRICAL DETAILS				•	0	0	0	•	0	•
E500	LABELS & SIGNAGE				•	•	•	•	•		0
E600	EQUIPMENT DATA SHEETS						•	0		0	

<u>-LUCEND.</u>		
UPDATED DRAWING ISSUED		
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	0	
DRAWING REMOVED FROM SET	\blacksquare	

TITLE SHEET

G001

GROUNDMOUNT SYSTEM AT
MULNITE — MILLER ROAD
MILLER ROAD
EAST WINDSOR, CT 06016

SOLAR PV GENERAL NOTES

- INSTALL A COMPLETE AND OPERATIONAL SOLAR PHOTOVOLTAIC SYSTEM INCLUDING THE RECONNECTION OF ANY EXISTING ELECTRICAL EQUIPMENT DISTURBED DURING SOLAR PHOTOVOLTAIC ARRAY INSTALLATION.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SOLAR PV SYSTEM. THEY DO NOT SHOW ALL MATERIALS NEEDED. CONTRACTOR IS REQUIRED TO PROVIDE ANY AND ALL CONDUITS, CONNECTORS, SWEEPS, SUPPORTS, BENDS, FITTINGS, HANGERS, COVER PLATES, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SOLAR PV SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC).
- THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED STATES' ADOPTED EDITION OF THE NEC.
 THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
- 5. CONTRACTOR IS REQUIRED TO SURVEY AND INSPECT ALL AREAS PRIOR TO PERFORMING SERVICES TO ENSURE CLEARANCES CAN BE MET AND NO INTERFERENCES EXIST. NO CUTTING OR DRILLING IS TO BE PERFORMED PRIOR TO LOCATING EXISTING STRUCTURAL MEMBERS AND UTILITIES.
- 6. SERVICE ENTRANCE RATED EQUIPMENT, C/T CABINETS, AND METER SOCKETS ARE TO BE APPROVED FOR USE BY THE LOCAL UTILITY COMPANY.
- 7. ELECTRICAL EQUIPMENT INSTALLED MUST BE LABELED, UL LISTED, AND INSTALLED ACCORDINGLY.
- 8. REQUIRED PERMITS AND INSPECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION (AHJ).
- . ALL WORK IS TO BE PERFORMED BY LICENSED WORKMEN AND COMPLETED IN ACCORDANCE WITH THE STATES' ADOPTED NEC.
- 10. ALL PENETRATIONS THROUGH FIRE AND SMOKE RATED PARTITIONS MUST BE SEALED WITH A FIRE RATED MATERIAL EQUIVALENT IN RATING TO THE PARTITION PENETRATED.
- 11. THE SOLAR PV SYSTEM EQUIPMENT ON THE DC SIDE IS RATED FOR 1000V AND IS IN COMPLIANCE WITH NEC 690.80. THE INVERTERS, MODULES, STRING FEEDERS, AND RELATED COMPONENTS ARE ALL RATED AND
- LABELED AS 1000V.

 12. EMT CONDUIT IS ALLOWED IN EXTERIOR LOCATIONS WHEN RAIN—TIGHT CONNECTORS AND FITTINGS ARE USED, AND THE CONDUIT IS NOT EXPOSED TO ANY POTENTIAL PHYSICAL DAMAGE. ALL SUPPORTS, BOLTS, STRAPS,
- 13. ALL RACEWAYS ARE TO BE METALLIC UNLESS OTHERWISE NOTED. APPLY AN ADHESIVE LABEL ALONG ALL RACEWAYS CARRYING PV SYSTEM FEEDERS (AC AND DC) AS "WARNING: PHOTOVOLTAIC POWER SOURCE". REFER TO DETAIL 15 ON E500. LABEL SHALL BE APPLIED EVERY 10', AT EVERY TURN, AND ABOVE AND BELOW ALL PENETRATIONS.
- 14. ALL CONDUCTORS SHALL BE LISTED FOR USE IN APPROPRIATE RACEWAY.

AND SCREWS SHALL BE CORROSION RESISTANT.

- 15. ALL BREAKERS INSTALLED AS PART OF THE NEW SOLAR PV SYSTEM MUST BE RATED FOR REVERSE FEED.
- 16. COMMUNICATIONS CABLES INSTALLED BETWEEN MONITORING EQUIPMENT AND CLIENT NETWORK EQUIPMENT (SWITCHES, ROUTERS, SERVERS, ETC.) SHALL HAVE CABLE TAGS INSTALLED AT BOTH ENDS OF CABLE TO SHOW PROPER IDENTIFICATION.
- 17. CONTRACTOR SHALL TORQUE TEST ALL FIELD TERMINATED WIRES PER MANUFACTURER'S SPECS AND PROVIDE PERMANENT MARKINGS ACROSS THE BOLT AND WASHER INDICATING ACHIEVED TORQUE.
- 18. BARE COPPER GROUND CONDUCTORS SHALL BE SIZED PER NEC. EQUIPMENT GROUNDING CONDUCTORS (EGC) SHALL BE INSTALLED IN CONDUIT.
- 19. POLARIS SPLICES SHALL NOT BE USED ON THIS PROJECT IN ANY CAPACITY. ANY SPLICES SHALL BE APPROVED BY GREENSKIES AND THE ENGINEER OF RECORD.
- 20. CONTRACTOR SHALL SUBMIT A FORMAL RFI (REQUEST FOR INFORMATION) FOR ANY CONFUSION OR DISCREPANCY ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ANY INSTALLATION DEVIATIONS WITHOUT APPROVAL FROM GREENSKIES OR THE ENGINEER OF RECORD.
- 21. MOGUL LB CONDUIT BODIES SHALL NOT BE USED ON THIS PROJECT. EXCEPT FOR COMM CABLE ROUTING.
- 22. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.
- 23. ALL METALLIC CONDUITS SHALL HAVE BOND BUSHINGS ON BOTH ENDS AND EQUIPMENT GROUNDING CONDUCTORS (FGC) ROUTED THROUGH CONDUIT
- 24. ALL DC PV CONNECTORS TO BE LIKE-MATED.

PV ARRAY WORK NOTES

- 1. WORK INCLUDES INSTALLING PROPOSED SOLAR PANEL ARRAY PER THE MANUFACTURERS INSTALLATION PROCEDURES AND INSTRUCTIONS, ALONG WITH ASSOCIATED ELECTRICAL WIRING.
- 2. WORK AREAS SHALL BE MARKED, FENCED, AND OTHERWISE SECURED SO AS TO PROVIDE PROPER PROTECTION FOR THE PUBLIC AND AS REQUIRED BY THE BUILDING INSPECTOR.
- 3. DIMENSION OF EXISTING ELEMENTS SHOWN WERE DETERMINED THROUGH A COMBINATION OF EXISTING DRAWINGS AND FIELD INVESTIGATIONS, AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 4. ELECTRICAL RUNS SHOWN ON PLAN REPRESENT THE PROPOSED LAYOUT. THE CONTRACTOR SHALL NOT RELOCATE INVERTERS OR PANELBOARDS WITHOUT APPROVAL FROM THE ENGINEER.
- 5. THE INSTALLER SHALL VERIFY THE PROJECT SOUTH DIRECTION IN THE FIELD, AND INSTALL THE MODULES AS INDICATED ON THE PLANS. THE MODULES SHALL BE INSTALLED AS TILTED TOWARDS THE GENERAL DIRECTION OF PROJECT SOUTH.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION AND INSTALLATION OF PADS OR SLIP SHEETS UNDERNEATH ANY EQUIPMENT SUPPORTS NOT ADHERED TO THE ROOF. SLIP SHEETS FOR DURABLOCK, AND RACKING ARE PROVIDED BY GREENSKIES
- 7. THE FRONT OF THE INVERTER SHALL NOT FACE PROJECT SOUTH.
 ORIENT THE INVERTER SUCH THAT IT IS FACING NORTH WHEN
 POSSIBLE. IF SPACE IS A LIMITING FACTOR THEN THE INVERTER
 SHALL BE ALLOWED TO FACE PROJECT EAST OR WEST.
- 8. NO CONDUCTOR OR CONNECTOR SHALL BE EXPOSED TO THE ELEMENTS OUTSIDE OF THE BOUNDARIES OF EACH SUB-ARRAY.
- CONDUIT BETWEEN SUB-ARRAYS SHALL ENTER UNDERNEATH RACKING OR PENETRATE WINDSCREENS, WHERE APPLICABLE, IN ORDER TO PROTECT CONDUCTORS.
- 10. CONDUIT BETWEEN SUB-ARRAYS SHALL BE SECURED TO THE RACKING SYSTEM VIA CONDUIT CLAMPS.
- 11. CONTRACTOR SHALL ENSURE DC, AC, AND COMMUNICATION WIRING IS SECURED UNDERNEATH THE ARRAY AND OFF THE ROOFTOP MEMBRANE.
- 12. CONTRACTOR SHALL UTILIZE UV RESISTANT CABLE TIES FOR WIRE MANAGEMENT. UV RESISTANT PLASTIC ZIP TIES ARE PREFERRED.
- 13. DC CONDUIT JUMPERS THAT ARE EXPOSED TO ELEMENTS ON OPEN ENDS SHALL HAVE PUTTY INSTALLED TO KEEP OUT MOISTURE.

	<u>LEGEND — GENERAL</u>
SYMBOL	DESCRIPTION
	LIGHT LINE INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
	DARK LINE INDICATES NEW OR WITHIN THE SCOPE OF PROJECT
	DASHED LINE INDICATES EQUIPMENT AT A DIFFERENT ELEVATION
EXISTING TEXT	LIGHT TEXT INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
NEW TEXT	DARK TEXT INDICATES NEW OR WITHIN THE SCOPE OF PROJECT

	<u>LEGEND - CIRCUITS</u>
SYMBOL	DESCRIPTION
xxxx	ABOVE-GROUND CABLE
xxxx	UNDER-GROUND CABLE
NOTE: XX REPRESENTS CIRC	CUIT TYPE BELOW
ABBREVIATION	DESCRIPTION
DC	DIRECT CURRENT
AC	ALTERNATING CURRENT
MV	MEDIUM VOLTAGE
СОМ	COMMUNICATIONS
GND	GROUND
CAB	CAB MESSENGER
FO	FIBER OPTIC
RS485	RS485
OHE	OVERHEAD ELECTRICAL

	<u>LEGEND — PLAN SYMBOLS</u>
SYMBOL	DESCRIPTION
	RACEWAY TURNING UP OR TOWARDS OBSERVER
	RACEWAY TURNING DOWN OR AWAY FROM OBSERVER
P OR P	PULLBOX
J OR J	JUNCTION BOX
P	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
•	GROUND ROD
•	GROUND ROD W/ TEST WELL
	SLOPE DIRECTION INDICATOR

	LEGEND — ONE LINE DIAGRAM & WIRING DIAGRAM SYMBOLS
SYMBOL	DESCRIPTION
-	CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
->-	DISCONNECT SWITCH
	INVERTER
+	BUSS CONNECTION POINT
 	CROSSING POINT (NO CONNECTION)
# +	NORMALLY CLOSED - NORMALLY OPEN CONTACTS
щи m	TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
F	CURRENT TRANSFORMER
36	POTENTIAL TRANSFORMER
	FUSE, SIZE/RATING AS NOTED
→	FUSED DISCONNECT SWITCH
<u></u>	EARTH GROUND
NC NO	PUSHBUTTON SWITCHES; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
NC NO	PUSHBUTTON SWITCHES MUSHROOM HEAD; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
K	KEYED INTERLOCK (KIRK KEY OR EQ.)
ST	SHUNT TRIP COIL

Α	AMPERES
AERMS	ARC ENERGY REDUCING MAINTENANCE SWITCH
AF	AMPERE FRAME
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AFDI	ARC FAULT DETECTION & INTERRUPTER
AIC	AMPS INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	CIRCUIT BREAKER
С	CONDUIT
СВ	COMBINER BOX
CKT	CIRCUIT
COU	CONDITIONS OF USE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC, ELECTRICAL
EMERG	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
EXIST	EXISTING
G, GND	
	GROUND CROUNDING ELECTRODE CONDUCTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
HID	HIGH-INTENSITY DISCHARGE (LIGHTING)
HZ	HERTZ
IMC	IMC
kAIC	1000 AMPS INTERRUPT CAPACITY
kCMIL	1000 CIRCULAR MILS
kVA	KILO-VOLT AMPERE
kW	KILOWATT
LA	LIGHTNING & SURGE ARRESTOR
LED	LIGHT-EMITTING DIODE
LSIG	LONG, SHORT, INSTANTANEOUS, & GROUND—FAULT
LTG	LIGHTING
MAX	MAXIMUM
МСМ	1000 CIRCULAR MILS
MFG	MANUFACTURER
MLO	MAIN LUGS ONLY
MLPE	MODULE LEVEL POWER ELECTRONICS
MPPT	MAXIMUM POWER POINT TRACKING
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
Р	POLE
PF	POWER FACTOR
PLC	PROGRAMMABLE LOGIC CONTROLLER
POA	PLANE OF ARRAY
POI	POINT OF INTERCONNECTION
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
RAC	RIGID ALUMINUM CONDUIT
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
SA	SURGE ARRESTOR
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
SSBJ	SUPPLY SIDE BONDING JUMPER
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TBD	TO BE DETERMINED
TP	TWISTED PAIR
TYP	TYPICAL
V	VOLT
VA	VOLT-AMPERE
W	WATT
WR WR	WEATHER RESISTANT
XFMR	TRANSFORMER DIAMETER OR PHASE
ø	INDERES INC. DUACT

ABBREVIATIONS

DRAWING TITLE

ELECTRICAL NOTES

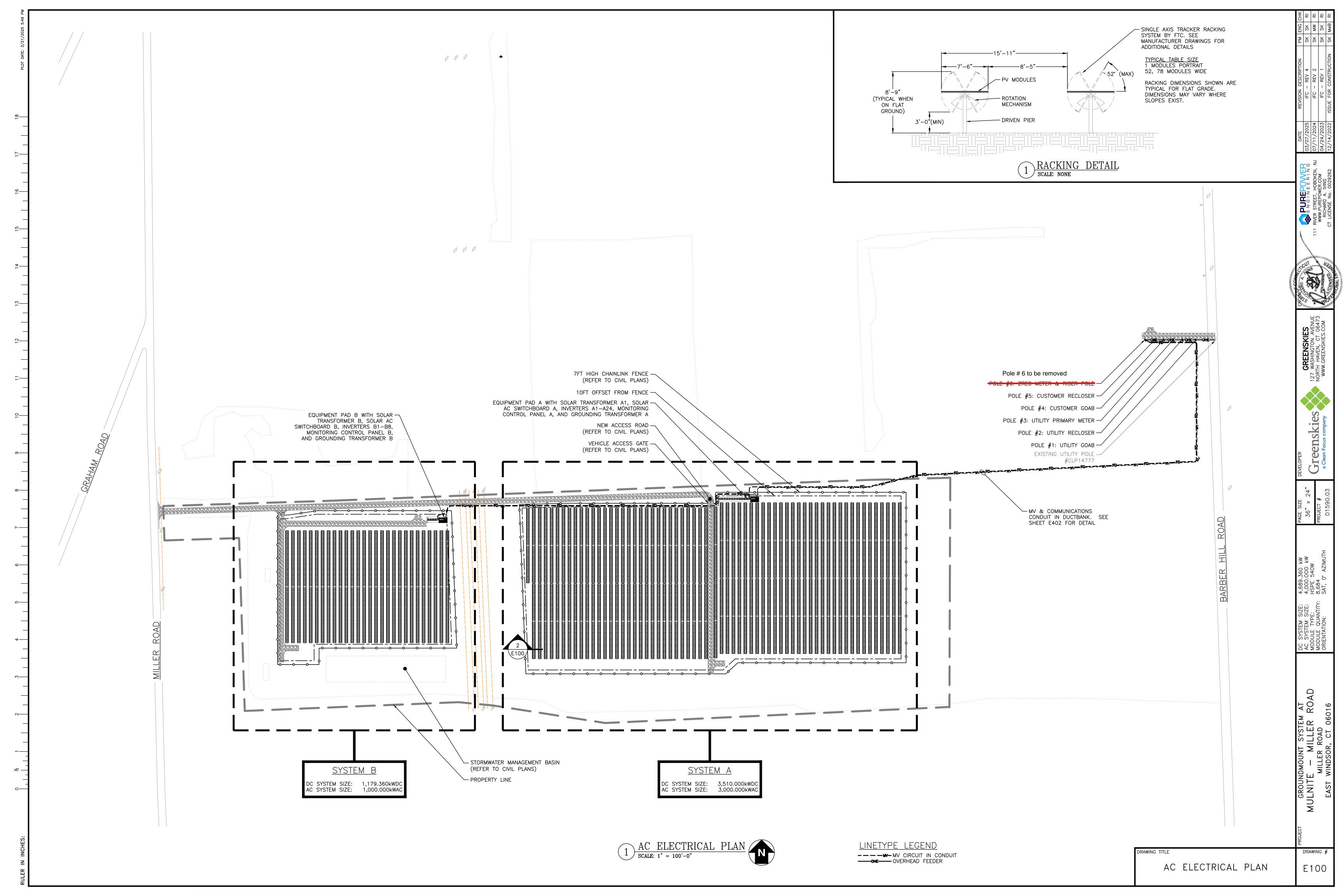
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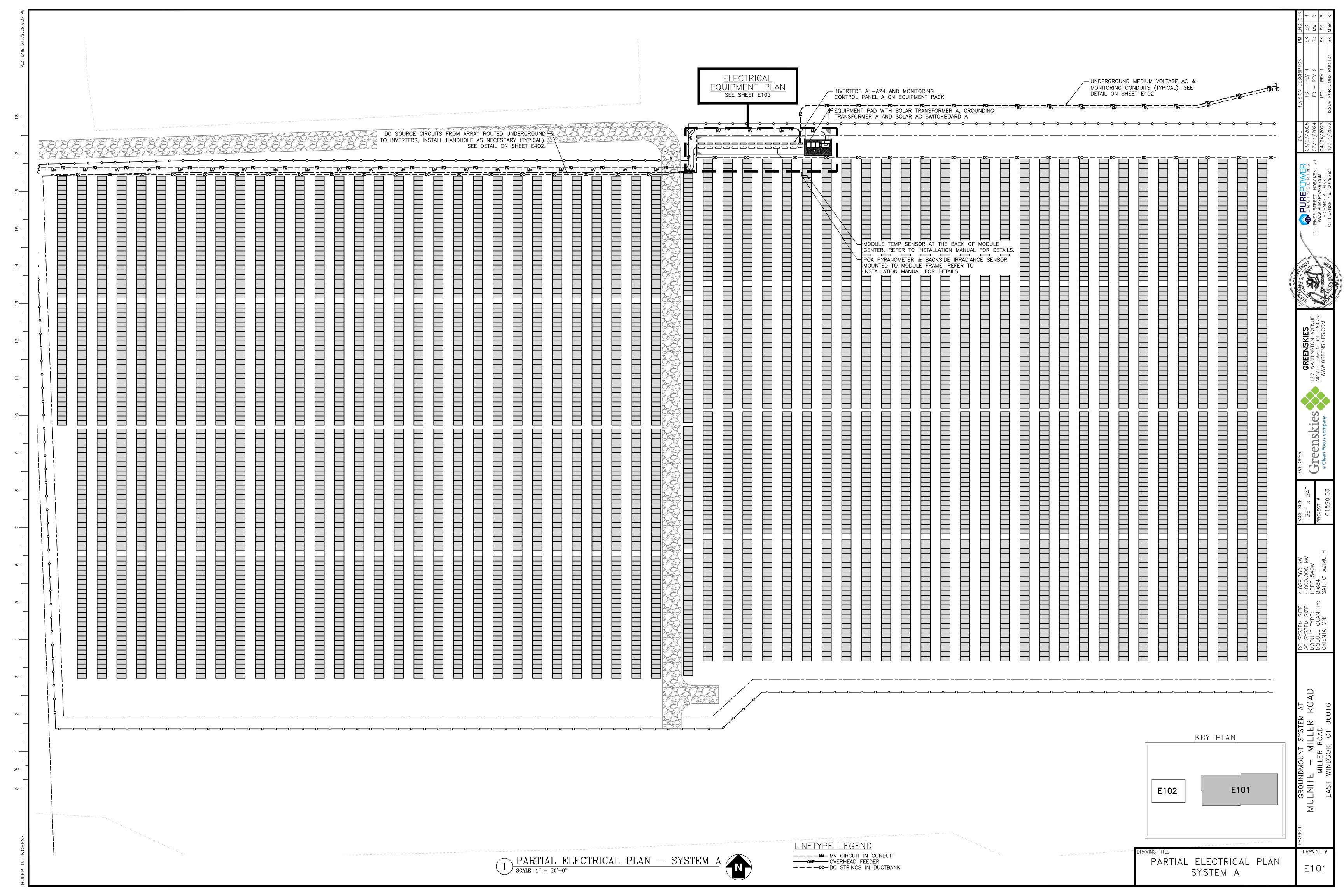
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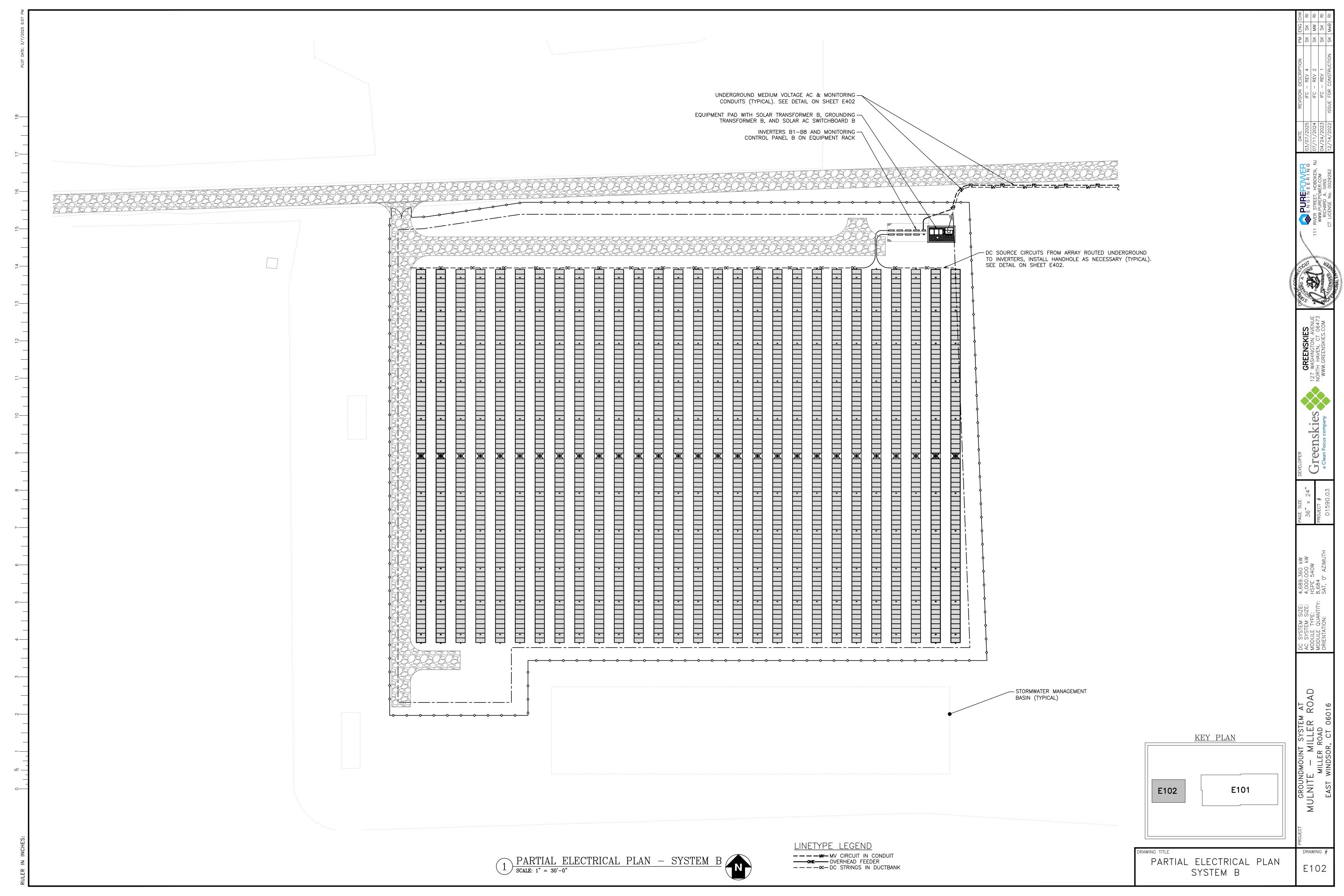
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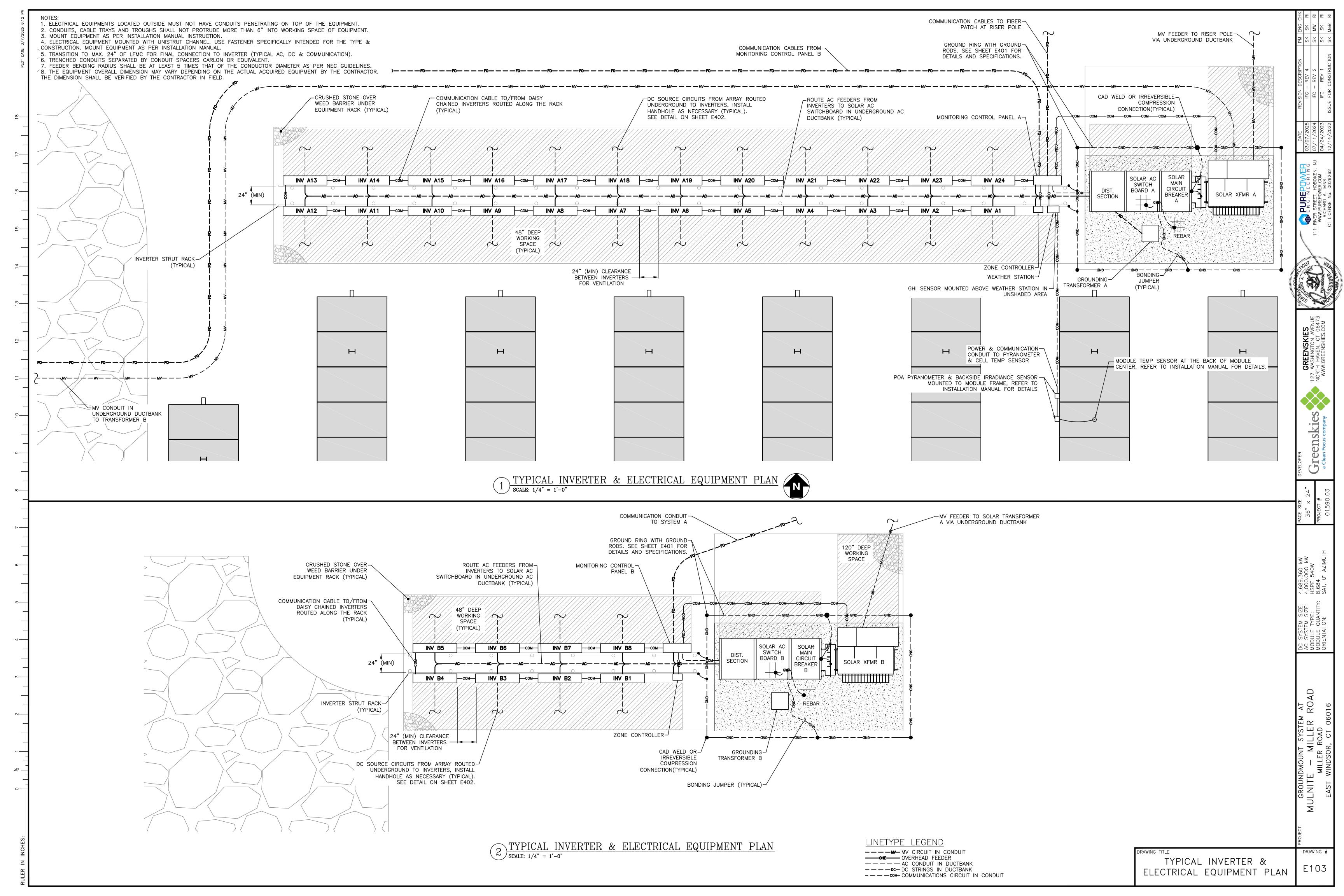
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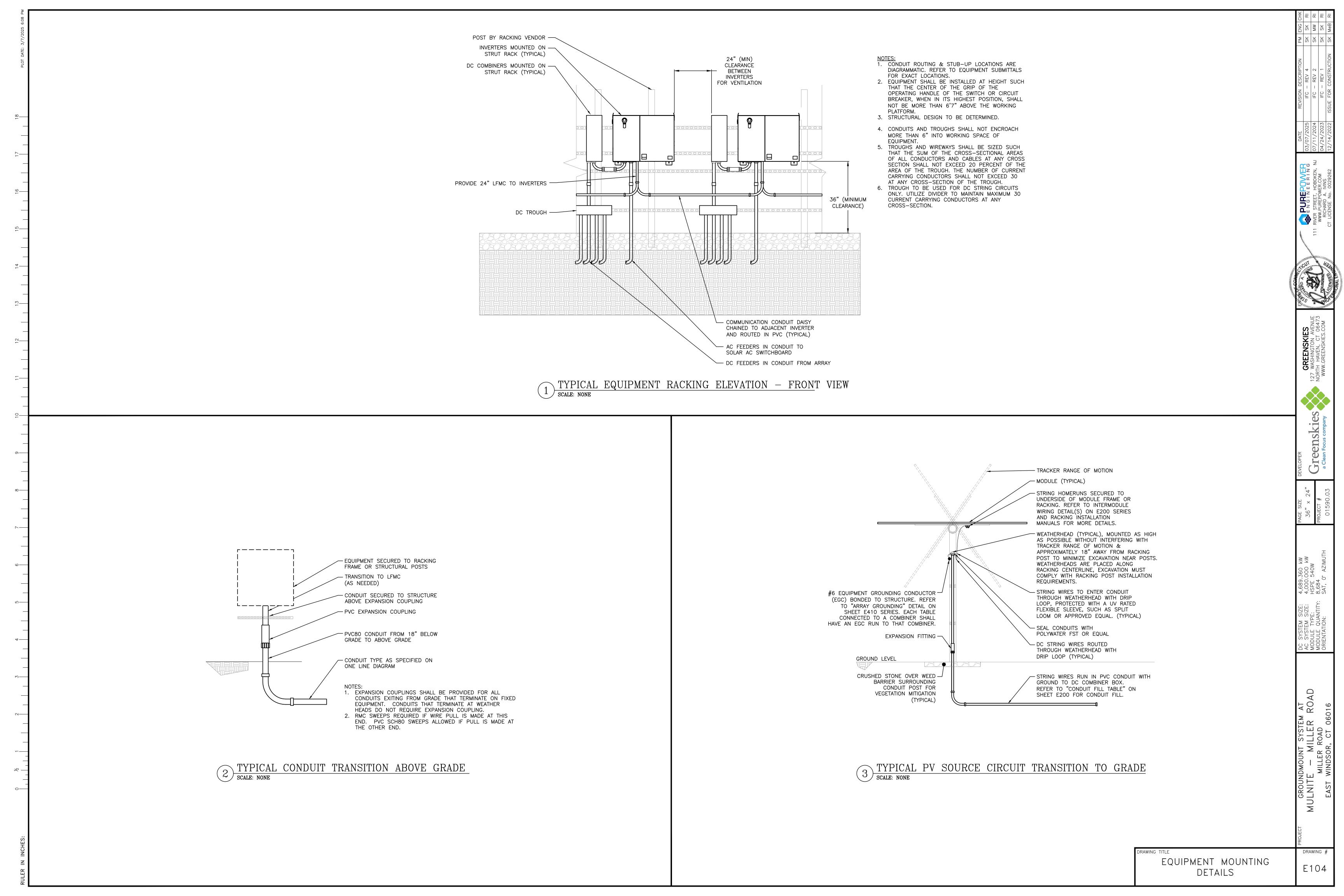
GREENSKII WASHINGTON

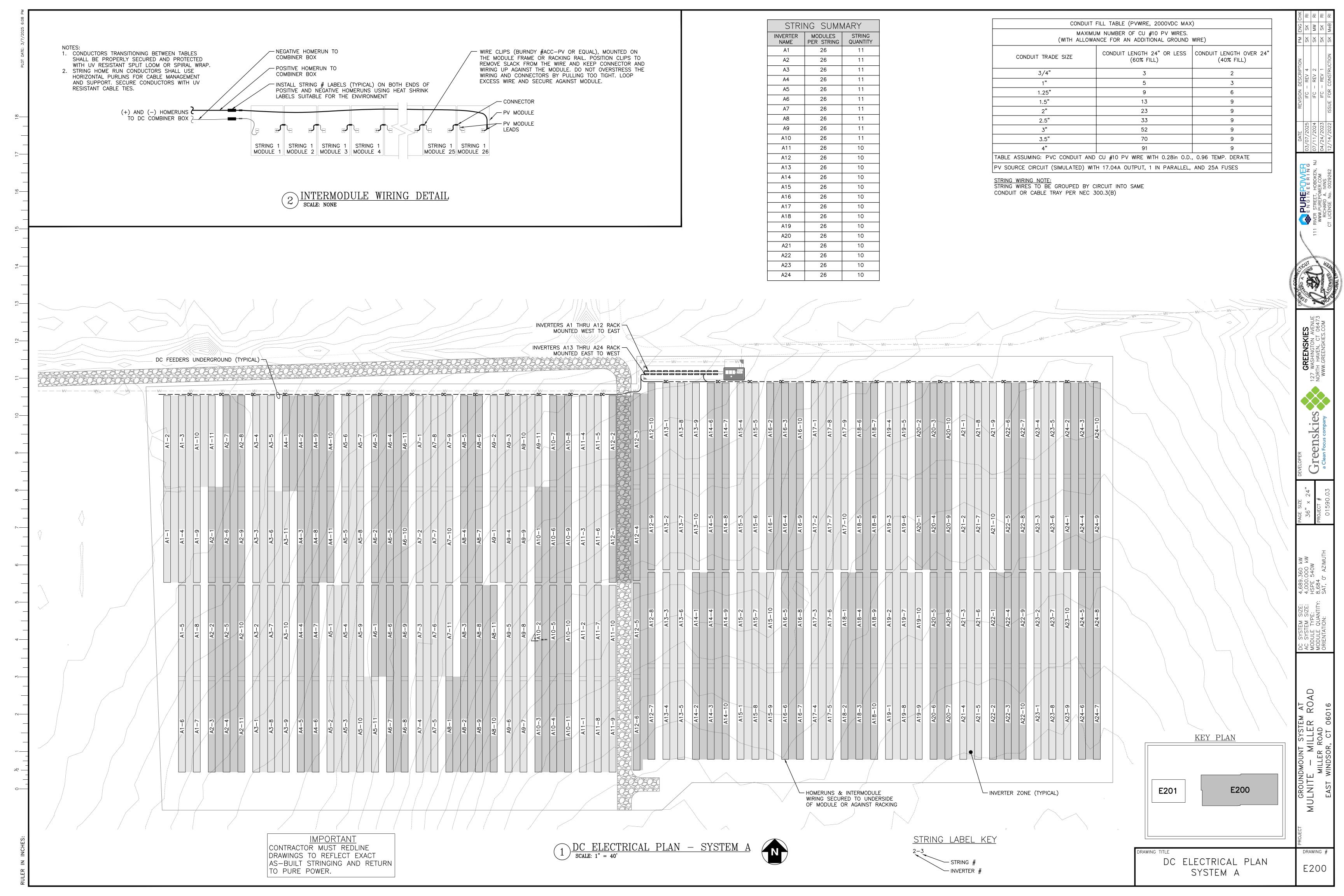


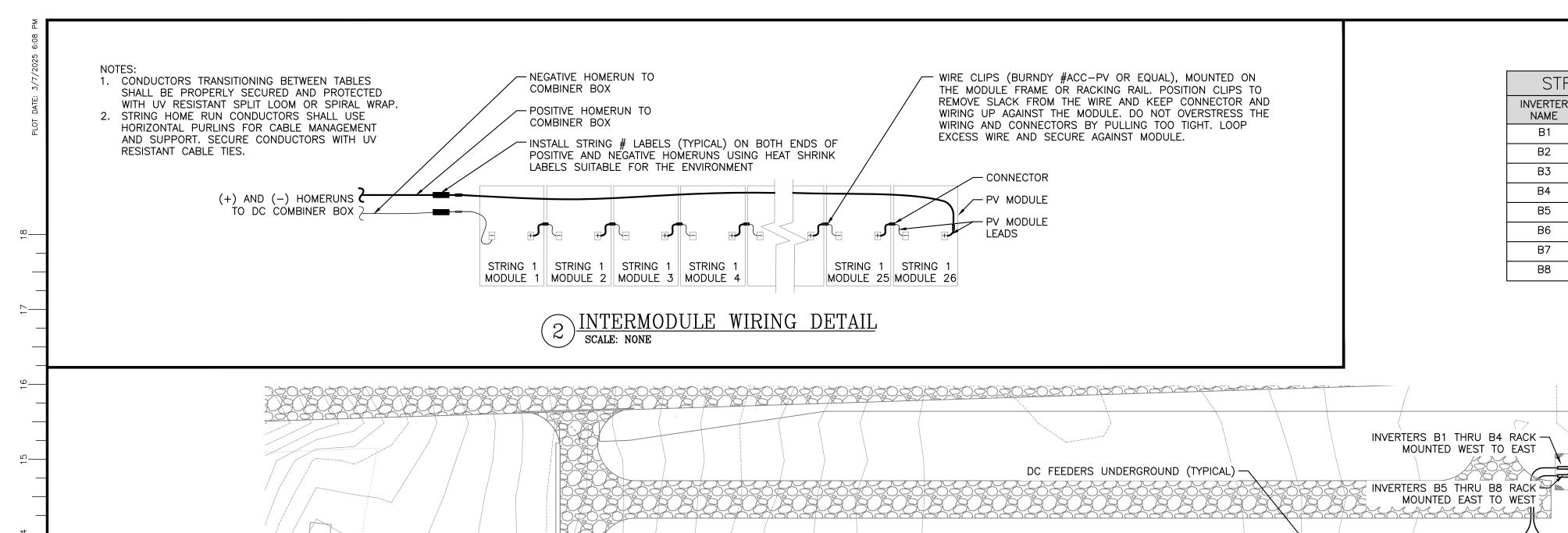












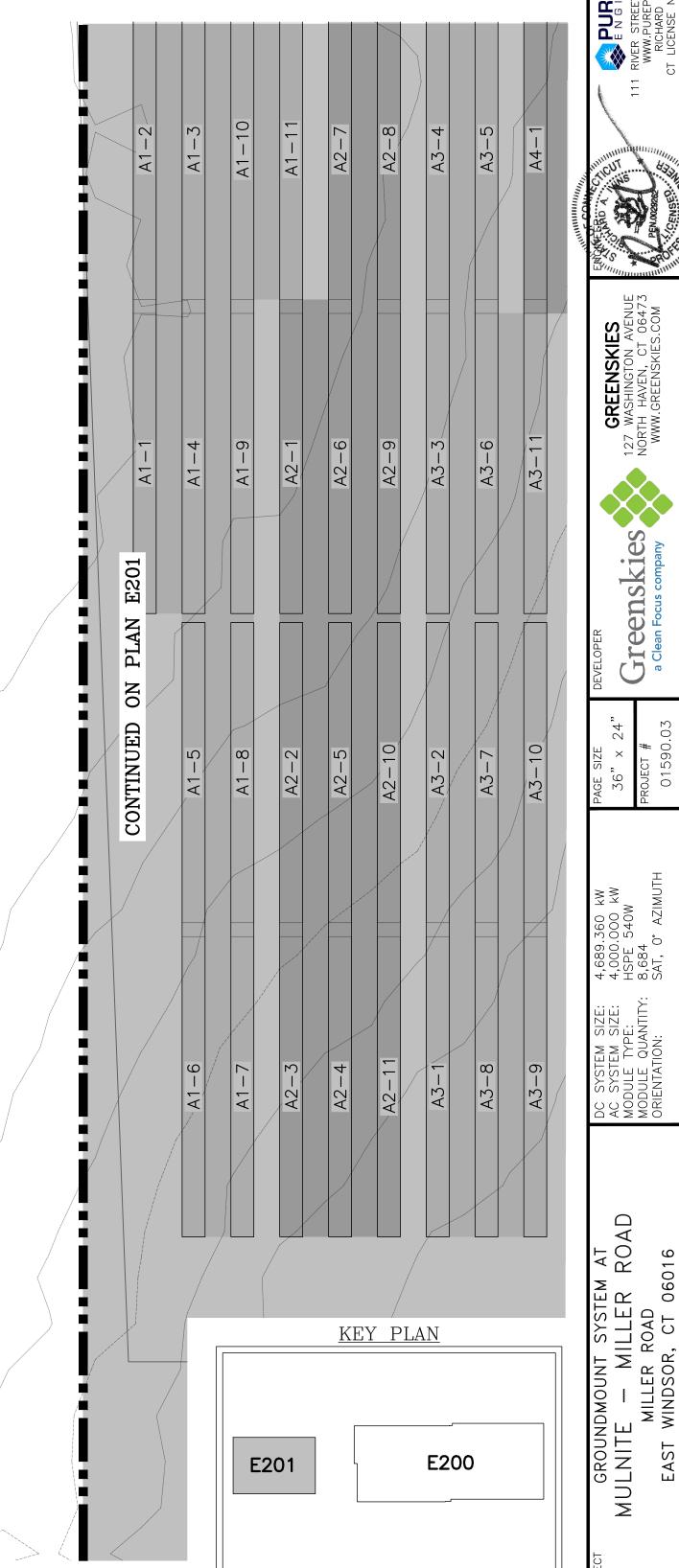
STRII	NG SUMN	/ARY
INVERTER NAME	MODULES PER STRING	STRING QUANTITY
B1	26	10
B2	26	10
B3	26	10
B4	26	10
B5	26	11
B6	26	11
B7	26	11
B8	26	11

CONDUIT FILL TABLE (PVWIRE, 2000VDC MAX) MAXIMUM NUMBER OF CU #10 PV WIRES. (WITH ALLOWANCE FOR AN ADDITIONAL GROUND WIRE) CONDUIT LENGTH 24" OR LESS | CONDUIT LENGTH OVER 24" CONDUIT TRADE SIZE (60% FILL) (40% FILL) 3/4" 2 5 3 1.25" 9 6 1.5" 13 9 23 9 2.5" 33 9 **3"** 52 9 3.5" 70 9

TABLE ASSUMING: PVC CONDUIT AND CU #10 PV WIRE WITH 0.28in O.D., 0.96 TEMP. DERATE PV SOURCE CIRCUIT (SIMULATED) WITH 17.04A OUTPUT, 1 IN PARALLEL, AND 25A FUSES

STRING WIRING NOTE: STRING WIRES TO BE GROUPED BY CIRCUIT INTO SAME

CONDUIT OR CABLE TRAY PER NEC 300.3(B)



IMPORTANT
CONTRACTOR MUST REDLINE
DRAWINGS TO REFLECT EXACT
AS-BUILT STRINGING AND RETURN
TO PURE POWER.

1 DC ELECTRICAL PLAN - SYSTEM B SCALE: 1" = 30'

- HOMERUNS & INTERMODULE
WIRING SECURED TO UNDERSIDE
OF MODULE OR AGAINST RACKING



INVERTER ZONE (TYPICAL)

STRING LABEL KEY

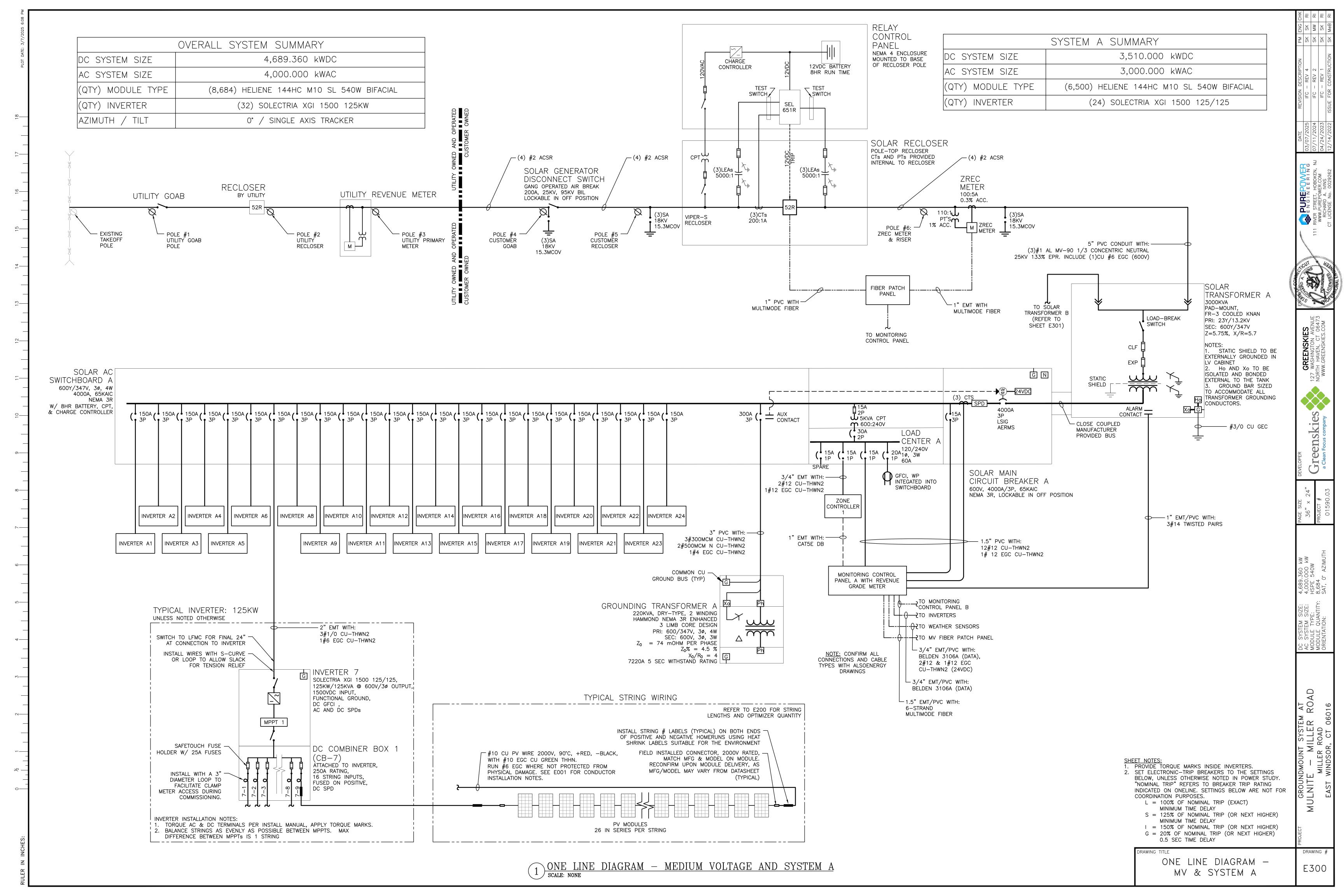
2-3

STRING #

INVERTER #

DC ELECTRICAL PLAN SYSTEM B

E201



AC SYSTEM SIZE 1,000.000 kWAC (QTY) MODULE TYPE (6,500) HELIENE 144HC M10 SL 540W BIFACIAL

SYSTEM B SUMMARY

DC SYSTEM SIZE

1,179.360 kWDC

GREENSKIES
WASHINGTON AVEN
RTH HAVEN, CT 064

enskies

M A C

DUNT SYSTEM
- MILLER F
LER ROAD

SCALE: NONE

SEL 651R RELAY SETTINGS ARE PRELIMINARY PENDING UTILITY APPROVAL AND NOT INTENDED FOR CONSTRUCTION

*Total Clear Time = 3 Cycle Breaker Plus Delay (Time Dial or DEF Time)

100.41A BASE PRIMARY USED FOR 50/51 ELEMENTS

Solar System Base AC Size = 4000KVA

									MV FEE	DER CAL	CULATIONS	(23KV)										
FEEDER ID	EQUIPMENT SUPPLIED	FED FROM	CIRCUIT ROUTING	# OF TRANSFORM ERS	APPARENT POWER [KVA]	FEEDER LENGTH [FT]	FULL LOAD AMPS 'FLA' [A]		OCPD TRIP RATING [A]	OCPD TRIP % OF FLA	CONDUCTOR MATERIAL	CONDUCTOR SIZE	NEC TABLE REFERENCE	TEMPERATURE ADJUSTMENT	CONDUCTOR AMPACITY [A]	CHECK CONDUCTOR AMPACITY > FLA?	CHECK OCPD RATING > FLA x 1.25?	CHECK OCPD COMPLIANT WITH 240.101(A)?	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA	PVC CONDUIT SIZE	ADDITIONAL GROUND CABLE
MV-OH-01	RISER POLE	POI	OVERHEAD SPACED	2	4,000	225	100.4	BREAKER	151	150%	AL	#2	310.21	1.00	163	PASS	PASS	PASS	0.05%	0.05%	N/A	NONE
MV-UG-01	SOLAR TRANSFORMER A	RISER POLE	UNDERGROUND IN CONDUIT	2	4,000	1,350	100.4	BREAKER	151	150%	AL	#1	311.60(C)(78)	1.00	135	PASS	PASS	PASS	0.26%	0.31%	5"	CU #6
MV-UG-02	SOLAR TRANSFORMER B	SOLAR TRANSFORMER A	UNDERGROUND IN CONDUIT	1	1,000	850	25.1	BREAKER	38	150%	AL	#1	311.60(C)(78)	1.00	135	PASS	PASS	PASS	0.04%	0.35%	5"	CU #6

							AC	CIRCUIT CAL	CULATIONS											1
EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS 'FLA'	FLA × 1.25	OCPD SIZE [A]	CONDUIT TYPE	CONDUIT SIZE	GROUND SIZE	CONDUCTORS PER PHASE	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	75° AMPACITY	90° AMPACITY	90° AMPACITY WITH C.O.U.	C.O.U DERATE AMBIENT TEMP	0.0.0.	FEEDER LENGTH (FEET)	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA	
SOLAR AC SWITCHBOARD A	TRANSFORMER A	600	2880.0	3600	4000	RMC	3.5"	CU #3/0 GEC	11	CU 500MCM	CU 500MCM	4180	4730	4541	0.96	1.00	10	0.02%	0.08%	1
INVERTER A1	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	10	0.04%	0.12%	
INVERTER A2	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	15	0.06%	0.14%	
INVERTER A3	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	20	0.08%	0.16%	
INVERTER A4	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	25	0.10%	0.18%	
INVERTER A5	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	30	0.12%	0.20%	
INVERTER A6	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	35	0.15%	0.22%	
INVERTER A7	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	40	0.17%	0.24%	
INVERTER A8	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	45	0.19%	0.26%	
INVERTER A9	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	50	0.21%	0.28%	
INVERTER A10	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	55	0.23%	0.30%	
INVERTER A11	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	60	0.25%	0.33%	
INVERTER A12	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	65	0.27%	0.35%	1
INVERTER A13	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	65	0.27%	0.35%	1
INVERTER A14	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	60	0.25%	0.33%	1
INVERTER A15	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	55	0.23%	0.30%	1
INVERTER A16	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	50	0.21%	0.28%	1
INVERTER A17	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	45	0.19%	0.26%	AVERAGE AC VOLTAGE DROP
INVERTER A18	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	40	0.17%	0.24%	FROM POI TO INVERTERS: 0.26
INVERTER A19	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	35	0.15%	0.22%	
INVERTER A20	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	30	0.12%	0.20%	
INVERTER A21	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	25	0.10%	0.18%	
INVERTER A22	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	20	0.08%	0.16%	
INVERTER A23	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	15	0.06%	0.14%	
INVERTER A24	SOLAR AC SWITCHBOARD A	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	10	0.04%	0.12%	
SOLAR AC SWITCHBOARD B	TRANSFORMER B	600	960.0	1200	1200	RMC	3"	CU #3/0 GEC	4	CU 350MCM	NONE	1240	1400	1344	0.96	1.00	10	0.03%	0.08%	
INVERTER B1	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	10	0.04%	0.12%	
INVERTER B2	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	15	0.06%	0.14%	
INVERTER B3	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	20	0.08%	0.16%	
INVERTER B4	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	25	0.10%	0.19%	
INVERTER B5	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	25	0.10%	0.19%	
INVERTER B6	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	20	0.08%	0.16%	
INVERTER B7	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	15	0.06%	0.14%	
INVERTER B8	SOLAR AC SWITCHBOARD B	600	120.0	150	150	EMT/PVC	2"	CU #6	1	CU #1/0	NONE	150	170	163	0.96	1.00	10	0.04%	0.12%	<i>,)</i>

DC STRING WIRING CALCULATION — CONDUIT	
STRING IMAX SIMULATED [A]	17.04
MAX CONTINUOUS FAULT CURRENT FROM PARALLEL SOURCES [AMPS]	17.04
1.25x MAX CONTINUOUS FAULT CURRENT [AMPS]	21.30
MAX # OF WIRES PER CONDUIT	9
DERATE FOR # OF CONDUCTORS IN A CONDUIT	0.7
MAX AMBIENT TEMPERATURE	32
TEMPERATURE DERATE	0.96
WIRE GAUGE	CU #10
75 DEG AMPACITY WITHOUT COU ADJUSTMENT [AMPS]	35
IS 75 DEG AMPACITY WITHOUT COU ADJUSTMENT >= 1.25x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(1)
90DEG AMPACITY WITH COU ADJUSTMENT [AMPS]	26.88
IS 90DEG AMPACITY WITH COU ADJUSTMENT >= 1.0x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(2)
PV SOURCE CIRCUIT (SIMULATED) FUSE RATING [AMPS]	25
AVAILABLE FAULT CURRENT FROM ALL PARALLEL SOURCES [AMPS]	17.04
IS FUSE RATING >= 1.25x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.9(B)

SAM SIMULATED VALUES								
MAXIMUM CURRENT [A]	17.04							
MAXIMUM VOLTAGE [V]	1347.71							
THE STRING MAX CURRENT IS CALC MODEL SIMULATION PROGRAM PERENEWABLE ENERGY LABORATORY, PHOTOVOLTAIC ARRAY PERFORMANG NEC 690.8(A)(1)(2), THE CALCULAT VALUE USING 690	ROVIDED BY THE NATIONAL REFERENCE SAND 2004—3535, CE MODEL, AS ALLOWABLE BY TED CURRENT IS 101% OF THE							

MODULE SPEC	<u>IFICATIONS</u>					
MAKE/MODEL	HELIENE 144HC M10 SL (BIFACIAL)					
POWER [W]	540					
ISC [A]	13.50					
IMP [A]	12.77					
voc [v]	50.22					
VMP [V]	42.32					
β VOC [%/degC]	-0.250%					
SITE CLIMATE	CRITERIA					
ASHRAE HIGH [℃]	32					
ASHRAE LOW [℃]	-15.6					
STRING SPECIFICA	TIONS AT STC					
MODULES/STRING	26					
POWER [W]	14040					
STRING ISC [A]	13.50					
STRING IMP [A]	12.77					
STRING VMP [V]	1100.32					
STRING MAX VOLTA	GE CALCULATION					
VOC TEMP ADJUSTMENT @ -15.6 ℃	1.10					
VOC @ -15.6 ℃ [V]	55.32					
MAX STRING VOC [V]	1438.3					

DRAWING NOTES:

1. DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

SCHEDULES & CALCULATIONS E310

- Greenskies
a Clean Focus company

HSPE 540W 8,684 SAT, O°AZIMUTH

MODULE TYPE:
MODULE QUANTITY: 8
ORIENTATION:

WILLEK KUAD ROAD R, CT 06016

ULINITE — MILLEK MILLER ROAD EAST WINDSOR, CT 060

DRAWING #

E 3 1 0

INVERTERS A1-A24 TOTAL STRING DISTANCE [FT] STRIN VOLTA DROF STRING NUMBER 755 1.49% 655 1.45% 640 1.68% 740 1.91% 840 2.15% 945 2.10% A1 - 7925 1.65% 725 A1 - 10620 1.41% 1.37% 605 1.60% 705 A2 - 11.83% 805 A2 - 2A2 - 32.06% 905 1.79% 790 1.56% A2 - 6685 1.33% 585 1.29% A2-8 570 1.52% 670 A2 - 91.75% A2-10 770 1.99% 875 1.93% 850 1.70% A3 - 2750 1.48% 650 1.24% 545 1.20% 530 A3 - 51.44% A3-6 635 1.86% A3-9 820 A3-10 720 1.64% 1.40% 615 1.16% 510 1.12% 495 1.35% 1.58% 1.82% 800 1.78% 785 1.54% 680 1.32% 580 1.08% 475 1.04% 460 1.28% 565 1.50% 660 1.73% 1.69% 745 1.46% A5 - 4645 1.23% 540 1.00% 0.97% 425 1.19% 525 1.42% 625 1.66% 730 1.62% 715 1.37% 605 0.92% 0.89% 390 1.11% 1.34% A6-6 590

4	A6-7	695	1.58%
	A6-8	675	1.53%
NG AGE	A6-9	575	1.31%
)P	A6-10	475	1.08%
1%	A6-11	370	0.84%
9%	A7-1	350	0.79%
5%	A7-2	450	1.02%
3%	A7-3	555	1.26%
1%	A7-4	655	1.49%
5%	A7-5	640	1.45%
0%	A7-6	535	1.22%
7%	A7-7	435	0.99%
5%	A7-8	335	0.76%
1%	A7-9	320	0.73%
7%	A7-10	420	0.95%
0%	A7-11	520	1.18%
3%	A8-1	620	1.41%
6%	A8-2	605	1.37%
2%	A8-3	500	1.14%
9%	A8-4	400	0.91%
5%	A8-5	295	0.67%
3%	A8-6	280	0.64%
9%	A8-7	385	0.87%
2%	A8-8	485	1.10%
5%	A8-9	585	1.33%
9%	A8-10	570	1.29%
3%	A8-11	470	1.07%
0%	A9-1	365	0.83%
3%	A9-2	260	0.59%
4%	A9-3	245	0.56%
0%	A9-4	345	0.78%
4% ———	A9-5	450	1.02%
7%	A9-6	550	1.25%
)% 	A9-7	535	1.22%
5 % 	A9-8	430	0.98%
4%	A9-9	330	0.75%
0%	A9-10	230	0.52%
5%	A9-11	215	0.49%
2%	A10-1	310	0.70%
5%	A10-2	410	0.93%
3%	A10-3	510	1.16%
2%	A10-4	495	1.12%
3% 	A10-5	395 290	0.90%
4% 	A10-6 A10-7		0.66%
2%	A10-7	190 175	0.43%
3% 4%	A10-8	275	0.40%
+% 3%	A10-9 A10-10	375	0.85%
)%)%	A10-10	480	1.09%
3% 3%	A11-1	460	1.09%
)% 9%	A11-2	355	0.81%
5% 5%	A11-3	255	0.51%
3% 3%	A11-4	150	0.34%
 0%	A11-5	135	0.31%
 7%	A11-6	240	0.55%
)% 9%	A11-7	340	0.77%
2 %	A11-8	440	1.00%
-70 5 %	A11-9	425	0.97%
2% 2%	A11-10	325	0.74%
-78 7%	A12-1	215	0.49%
 5 %	A12-2	115	0.26%
2% 2%	A12-3	85	0.19%
-/- 9%	A12-4	185	0.42%
1%	A12-5	290	0.66%
1 <i>7</i> 0 4%	A12-6	390	0.89%
. , 0			2.23/0

380	0.86%	
275	0.62%	
175	0.40%	
70	0.16%	
80	0.18%	
180	0.41%	
285	0.65%	
385 400	0.87% 0.91%	
300	0.91%	
200	0.45%	
95	0.22%	
110	0.25%	
215	0.49%	
310	0.70%	
415	0.94%	
430	0.98%	
325 225	0.74% 0.51%	
125	0.28%	
140	0.32%	
240	0.55%	
345	0.78%	
445	1.01%	
455	1.03%	
350	0.79%	
250	0.57%	
150	0.34%	
165 265	0.37% 0.60%	
365	0.83%	
470	1.07%	
485	1.10%	
385	0.87%	
275	0.62%	
175	0.40%	
190 290	0.43% 0.66%	
395	0.90%	
495	1.12%	
510	1.16%	
410	0.93%	
310	0.70%	
205	0.47%	
215	0.49%	
320 420	0.73%	
520	1.18%	
540	1.23%	
435	0.99%	
335	0.76%	
235	0.53%	
250	0.57%	
350	0.79% 1.01%	
445 550	1.01%	
565	1.28%	
460	1.04%	
360	0.82%	
260	0.59%	
275	0.62%	
375	0.85%	
480	1.09%	
580 590	1.32%	
290	1.34%	

A12-7 A12-8

A12-9 A12-10 A13-1

A13-2

A13 - 3

A13-4

A13-5

A13-6 A13-7

A13-8

A13-9

A13-10

A14-1

A14-2

A14-3

A14-4

A14-5

A14-6

A14-8

A14-9

A14-10

A15-1

A15-2

A15-3

A15-4

A15-5

A15-6

A15-7

A15-8

A15-9 A15-10

A16-1

A16-2

A16-3

A16-4

A16-5

A16-6

A16-7

A16-9

A16-10

A17-1

A17-2

A17-3

A17-4

A17-6

A17-7

A17-8

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A18-5

A18-6

A18-7

A18-8

A18-10

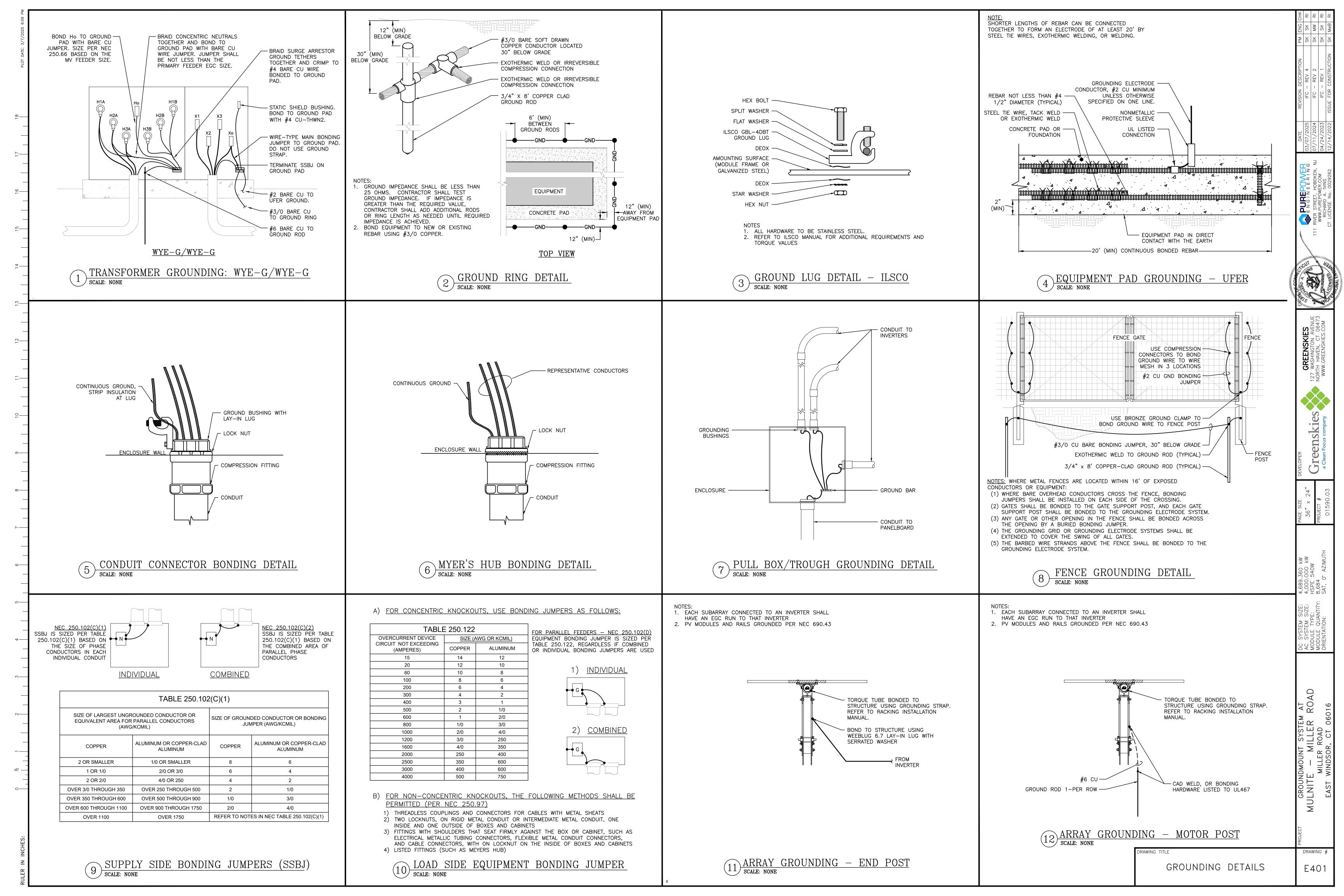
A19-1

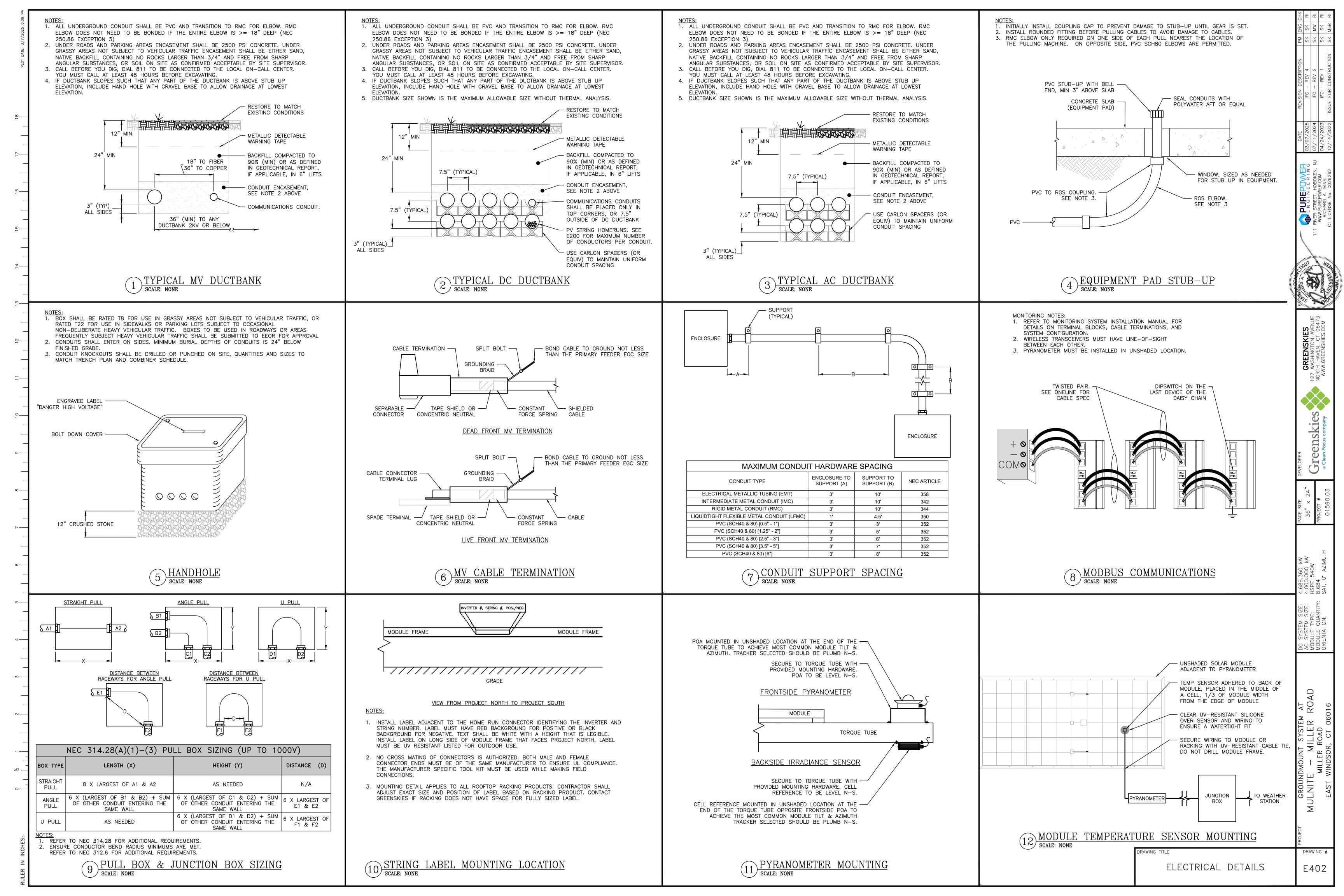
A19-2	490	1.11%
A19-3	390	0.89%
A19-4	285	0.65%
A19-5	300	0.68%
A19-6	405	0.92%
A19-7	505	1.15%
A19-8	610	1.39%
A19-9	625	1.42%
A19-10	520	1.18%
A20-1	415	0.94%
A20-2	310	0.70%
A20-3	330	0.75%
A20-4	430	0.98%
A20-5	530	1.20%
A20-6	635	1.44%
A20-7	650	1.48%
A20-8	545	1.24%
A20-9	445	1.01%
A20-10	345	0.78%
A21-1	355	0.70%
A21-1	455	1.03%
A21-2 A21-3	560	1.27%
A21-4	660	1.50%
A21-5	675	1.53%
A21-6	575	1.31%
A21-7	475	1.08%
A21-8	370	0.84%
A21-9	385	0.87%
A21-10	490	1.11%
A22-1	585	1.33%
A22-2	685 	1.56%
A22-3	700	1.59%
A22-4	600	1.36%
A22-5	500	1.14%
A22-6	395	0.90%
A22-7	410	0.93%
A22-8	515	1.17%
A22-9	615	1.40%
A22-10	720	1.64%
A23-1	730	1.66%
A23-2	625	1.42%
A23-3	525	1.19%
A23-4	425	0.97%
A23-5	440	1.00%
A23-6	540	1.23%
A23-7	645	1.46%
A23-8	745	1.69%
A23-9	760	1.73%
A23-10	660	1.50%
A24-1	550	1.25%
A24-2	450	1.02%
A24-3	465	1.06%
	570	1.29%
A24-4		1.52%
	670	
A24-5	670 770	
A24-5 A24-6	770	1.75%
A24-5 A24-6 A24-7	770 785	1.75% 1.78%
A24-5 A24-6 A24-7 A24-8	770 785 685	1.75% 1.78% 1.56%
A24-5 A24-6 A24-7	770 785	1.75% 1.78%

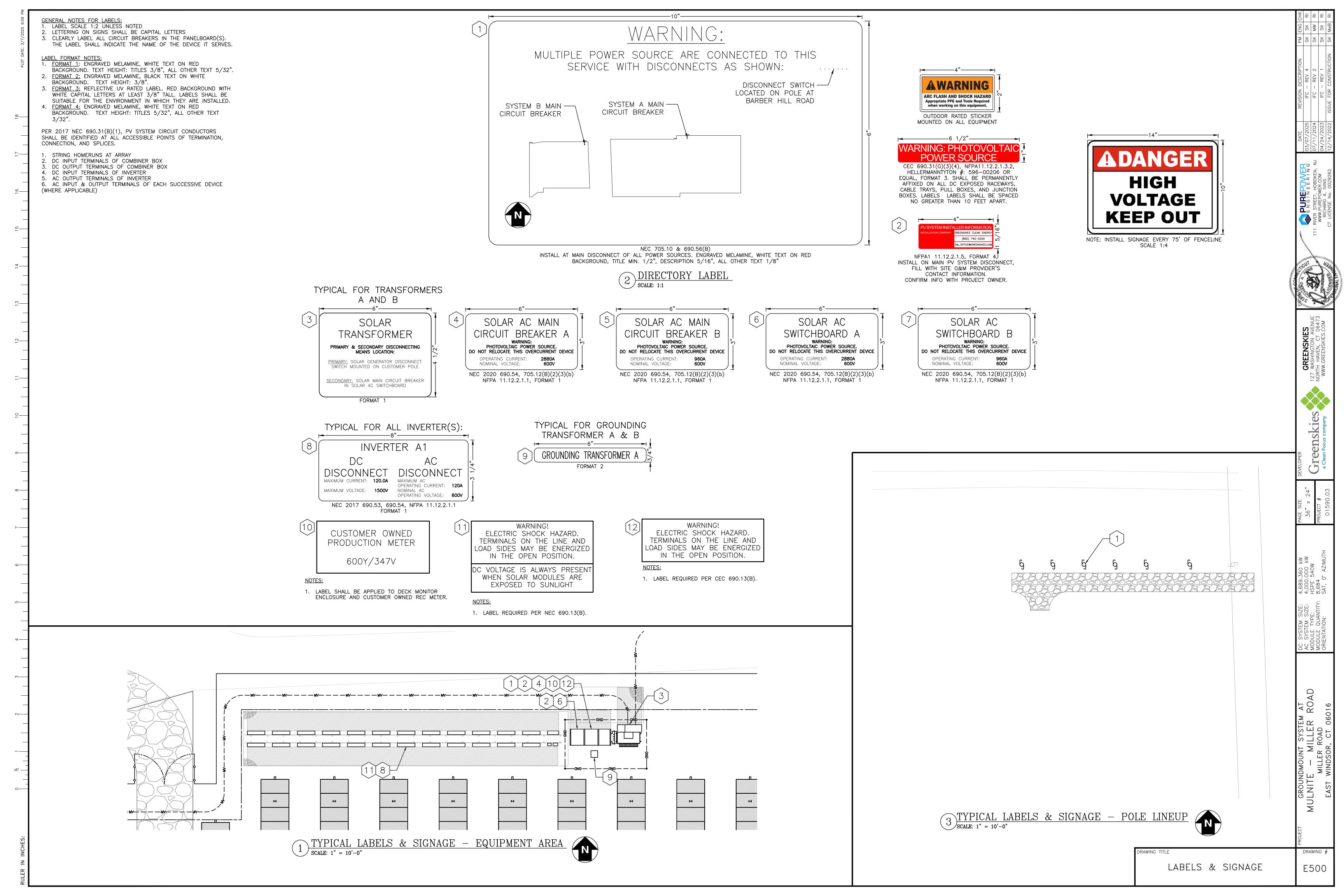
INVE	RTERS B	1-B8
STRING NUMBER	TOTAL STRING DISTANCE [FT]	STRING VOLTAGE DROP
B1-1	480	1.09%
B1-2	580	1.32%
B1-3	680	1.54%
B1-4	665	1.51%
B1-5	565	1.28%
B1-6	460	1.04%
B1-7	445	1.01%
B1-8	545	1.24%
B1-9	650	1.48%
B1-10	630	1.43%
B2-1	525	1.19%
B2-2	425	0.97%
B2-3	410	0.93%
B2-4	510	1.16%
B2-5	610	1.39%
B2-6	595	1.35%
B2-7	495	1.12%
B2-8	395	0.90%
B2-9	380	0.86%
B2-10	480	1.09%
B3-1	575	1.31%
B3-2	560	1.27%
B3-3	460	1.04%
B3-4	355	0.81%
B3-5	340	0.77%
B3-6	440	1.00%
B3-7	540	1.23%
B3-8	525	1.19%
B3-9	425	0.97%
B3-10	325	0.74%
B4-1	300	0.68%
B4-2	405	0.92%
B4-3	505	1.15%
B4-4	490	1.11%
B4-5	385	0.87%
B4-6	285	0.65%
B4-7	270	0.61%
B4-8	370	0.84%
B4-9	470	1.07%
B4-10	455	1.03%
B5-1	350	0.79%

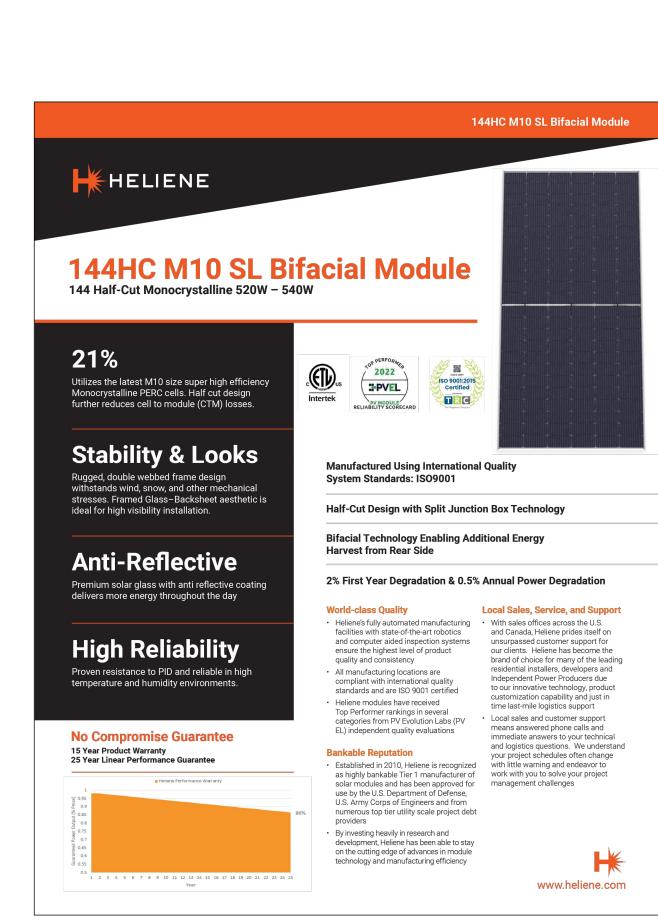
B5-2	250	0.57%
B5-3	235	0.53%
B5-4	335	0.76%
B5-5	435	0.99%
B5-6	420	0.95%
B5-7	320	0.73%
B5-8	220	0.50%
B5-9	205	0.47%
B5-10	305	0.69%
B5-11	405	0.92%
B6-1	395	0.90%
B6-2	295	0.67%
B6-3	190	0.43%
B6-4	175	0.40%
B6-5	275	0.62%
B6-6	380	0.86%
B6-7	360	0.82%
B6-8	260	0.59%
B6-9	160	0.36%
B6-10	145	0.33%
B6-11	245	0.56%
B7-1	350	0.79%
B7-2	335	0.76%
B7-3	235	0.53%
B7-4	135	0.31%
B7-5	120	0.27%
B7-6	220	0.50%
B7-7	320	0.73%
B7-8	305	0.69%
B7-9	200	0.45%
B7-10	100	0.23%
B7-11	85	0.19%
B8-1	195	0.44%
B8-2	295	0.67%
B8-3	285	0.65%
B8-4	185	0.42%
B8-5	85	0.19%
B8-6	100	0.23%
B8-7	200	0.45%
B8-8	300	0.68%
B8-9	315	0.72%
B8-10	215	0.49%
B8-11	115	0.26%
AVERAGE VO	LTAGE DROP	0.81%

SCHEDULES & CALCULATIONS





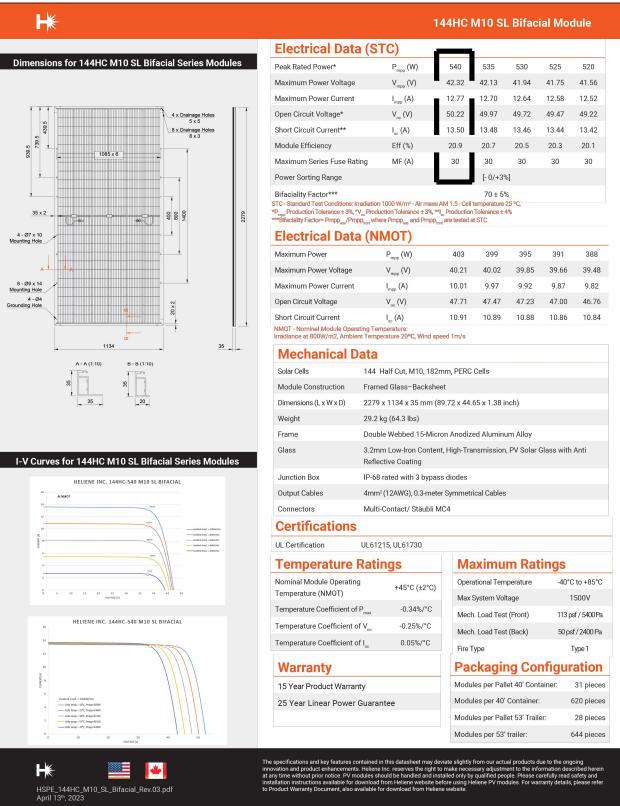


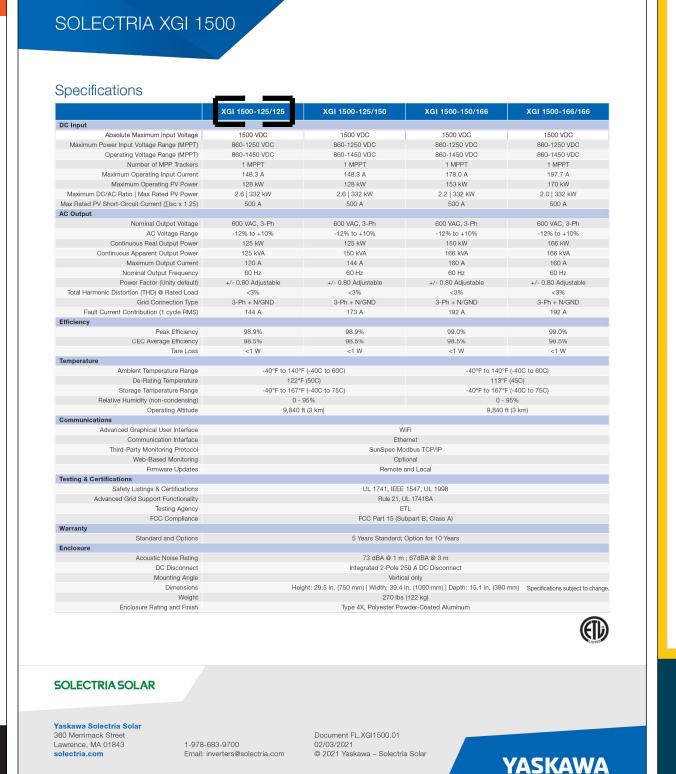










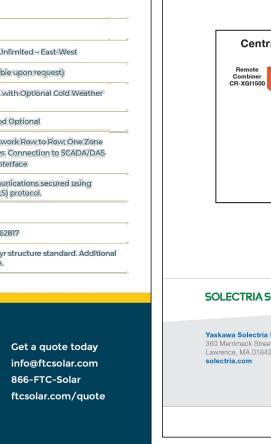


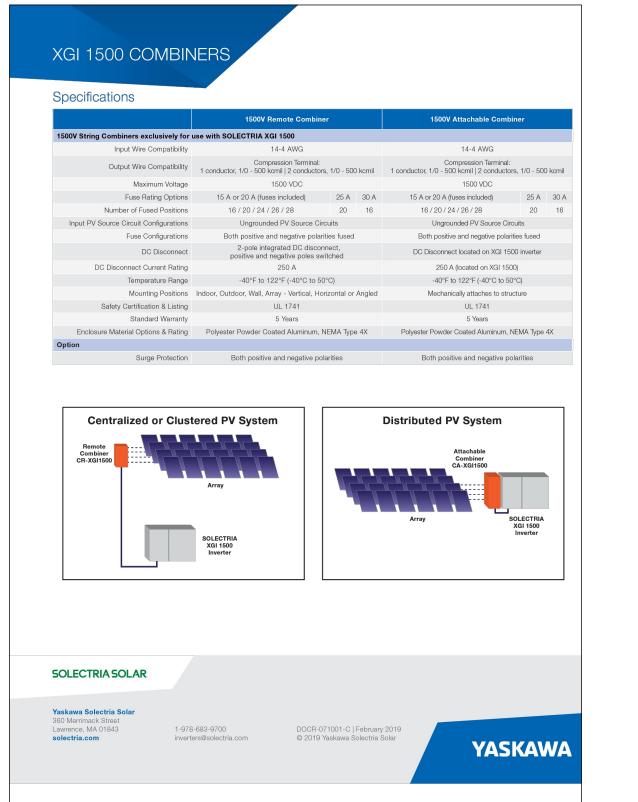


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