NEW PHOTOVOLTAIC SYSTEM 11.52 kW
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

GENERAL NOTES

1.1.1 PROJECT NOTES:
1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
1.1.4 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.41(B)
1.1.5 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
1.1.7 ALL INVERTERS, PHOTOVOLTAIC MODULES,PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATIONPER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
1.1.8 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.2.1 SCOPE OF WORK:
1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR GROUND-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT

1.3.1 WORK INCLUDES:
1.3.2 PV RACKING SYSTEM INSTALLATION - SUN ACTION TRACKERS
1.3.3 PV MODULE AND INVERTER INSTALLATION - Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W / ENPHASE IQ8A-72-2-US
1.3.4 PV EQUIPMENT GROUND MOUNT
1.3.5 PV SYSTEM WIRING TO A GROUND-MOUNTED JUNCTION BOX
1.3.6 PV LOAD CENTERS (IF INCLUDED)
1.3.7 PV METERING/MONITORING (IF INCLUDED)
1.3.8 PV DISCONNECTS
1.3.9 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
1.3.10 PV FINAL COMMISSIONING
1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

PROJECT INFORMATION

OWNER
NAME: HAYNES

CONTRACTOR INFORMATION:
CONTRACTOR NAME: FARLEY BUILT, INC.
PROJECT MANAGER: SAM HALL
EMAIL: sam@farleybuilt.com
PH: (617) 320-1876

SCOPE OF WORK
NEW SYSTEM SIZE : STC : 24 X 480W= 11.52 kW DC
PTC : 24 X 497.2W = 11.93 kW DC
AC SIZE: 8.37 kW AC
(24) Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W
(24) ENPHASE IQ8A-72-2-US

ATTACHMENT TYPE: SUN ACTION TRACKERS
MSP UPGRADE: YES

AUTHORITIES HAVING JURISDICTION
BUILDING : TOWN OF WEST TISBURY
UTILITY : EVERSOURCE

DESIGN SPECIFICATION
OCCUPANCY: - GROUP B
CONSTRUCTION: - TYPE 2
ZONING: - TOWN OF WEST TISBURY
GROUND SNOW LOAD - 25 PSF
WIND EXPOSURE - C
WIND SPEED - 134 MPH

APPLICABLE CODES & STANDARDS
BUILDING: IBC 2015, IRC 2015
ELECTRICAL: NEC 2020
FIRE: IFC 2015

VICINITY MAP

SATELLITE VIEW

SHEET INDEX

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS
HAYNES
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. McGUIRE
ELECTRICAL
NO. 38515
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE
COVER PAGE

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER
T-001

NOTES

1. EXISTING PLUMBING VENTS, SKYLIGHTS,EXHAUST OUTLETS, VENTILATIONS INTAKE AIR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM.
2. EQUIPMENT. INVERTERS, MOTOR GENERATORS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AC PHOTOVOLTAIC MODULES, SOURCE-CIRCUIT COMBINERS, AND CHARGE CONTROLLERS INTENDED FOR USE IN PHOTOVOLTAIC POWER SYSTEMS SHALL BE IDENTIFIED AND LISTED FOR THE APPLICATION. (NEC 690.4(B))
3. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND NON ROOF SWITCHES. ROOF SWITCHES TO BE NEMA 4 RATED.
4. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
5.PROTECTION DEVICES FOR PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS ALSO CONNECTED TO SOURCES HAVING SIGNIFICANTLY HIGHER CURRENT AVAILABILITY (E.G., PARALLEL STRINGS OF MODULES, UTILITY POWER), SHALL BE PROTECTED AT THE SOURCE FROM OVERCURRENT. [NEC 690.9(A)]
6.PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS.
[NEC 690.12]
7.THE UTILITY INTERACTIVE INVERTERS SHALL AUTOMATICALLY DE-ENERGIZE ITS OUTPUT TO THE CONNECTED ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK UPON LOSS OF VOLTAGE IN THE SYSTEM AND SHALL REMAIN IN THAT STATE UNTIL
THE ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK VOLTAGE HAS BEEN RESTORED.
[NEC 705.41]
8.ALL CONDUCTOR EXPOSED TO WEATHER SHALL BE LISTED & IDENTIFIED FOR USE IN DIRECT SUNLIGHT. [CEC 310.10(D)(1)]
9.THE MODULE CONDUCTORS MUST BE TYPE USE-2 OR LISTED FOR PHOTOVOLTAIC (PV) WIRE. (NEC 690.31(C)
10.ALL CONDUCTORS SHALL BE MARKED ON EACH END FOR UNIQUE IDENTIFICATION.
11.AN INSULATED GROUNDED CONDUCTOR OF 6 AWG OR SMALLER SHALL BE IDENTIFIED AS A CONTINUOUS WHITE FINISH.[NEC 200.6]
12.THE OUTPUT OF AN INTERCONNECTED ELECTRICAL POWER SOURCE SHALL BE PERMITTED TO BE CONNECTED TO THE LOAD SIDE. INTERCONNECTING
PROVISIONS FOR OTHER POWER SOURCES SHALL COMPLY WITH 705.12(B)(1) THROUGH 705.12(B)(5)
13. EACH SOURCE INTERCONNECTION OF ONE OR MORE POWER SOURCES INSTALLED IN ONE SYSTEM SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OR FUSIBLE DISCONNECTING MEANS [NEC 705.12(B)(1)]
14.THE SUM OF THE AMPERE RATING OF THE OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO THE BUSBAR OR CONDUCTOR SHALL NOT EXCEED 120% OF THE RATING OF BUSBAR OR CONDUCTOR.[NEC 705.12(B)(2)(3)(B)]
15.A CONNECTION AT EITHER END, BUT NOT BOTH ENDS, OF A CENTER-FED PANEL BOARD IN DWELLINGS SHALL BE PERMITTED WHERE THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR DOES NOT EXCEED 120 PERCENT OF THE CURRENT RATING OF THE BUSBAR. [NEC 705.12(B)(2)(3)(D)]
16.EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUS BAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES. [NEC 705.12(B)(3)]
17.CIRCUIT BREAKER, IF BACKFED, SHALLBE SUITABLE FOR SUCH OPERATION. [NEC705.12(B)(4)]
18.TO MINIMIZE OVERHEATING OF THE BUSBAR IN PANELBOARD, THE PANELBOARD MAIN CIRCUIT BREAKER AND THE PV POWER SOURCE CIRCUIT BREAKER SHALL BE PHYSICALLY LOCATED AT THE OPPOSITE END OF THE BUSBAR.
19. ALL THE NEC REQUIRED WARNING SIGNS, MARKINGS, AND LABELS SHALL BE POSTED ON EQUIPMENT AND DISCONNECTS PRIOR TO ANY INSPECTIONS TO BE PERFORMED BY THE BUILDING DEPARTMENT INSPECTOR.
20.WHERE PV SYSTEM DC CIRCUIT'S RUN INSIDE A BUILDING, THEY SHALL BE CONTAINED IN METAL RACEWAYS TYPE MC METAL CLAD CABLE OR METAL ENCLOSURES FROM POINT OF PENETRATION OF THE SURFACE OF THE BUILDING TO THE FIRST READILY ACCESSIBLE DISCONNECTING MEANS. [NEC 690.31(G)]
21.FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES OR CONNECTOR THAT ARE IS IN ACCORDANCE WITH NEC 110.14
22.CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30V DC OR 15V AC SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING".
[NEC 690.33(C) & (E)(2)]
23. EQUIPMENT GROUNDING CONDUCTOR FOR PV MODULES SMALLER THAN 6AWG SHALL BE PROTECTED FROM
PHYSICAL DAMAGE BY A RACEWAY OR CABLE ARMOR. NEC 690.46 & 250.120(C)]
24. AN EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE SMALLER THAN 14 AWG. [NEC 690.45]
25. FINE STRANDED CABLES USED FOR BATTERY TERMINALS, DEVICES, AND CONNECTIONS REQUIRE LUGS AND TERMINALS IS IN ACCORDANCE WITH NEC 110.14
26.GROUNDING ELECTRODE CONDUCTOR(S) SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT A SPLICE OR JOINT. IF NECESSARY,SPLICES OR CONNECTIONS SHALL BE MADE AS PERMITTED. (NEC 250.64 C)
27.ALL SMOKE ALARMS, CARBON MONOXIDE ALARMS AND AUDIBLE NOTIFICATION DEVICES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 217 AND UL 2034. THEY WILL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND NFPA 720.(IRC 2019 R314 & R315).
28.SMOKE ALARMS AND CARBON MONOXIDE ALARMS WILL BE RETROFITTED INTO THE EXISTING DWELLING. THESE SMOKE ALARMS ARE REQUIRED TO BE IN ALL BEDROOMS,OUTSIDE EACH BEDROOM, AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE CARBON MONOXIDE ALARMS ARE REQUIRED TO BE RETROFITTED OUTSIDE EACH BEDROOM AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE.THESE ALARMS MAY BE SOLELY BATTERY OPERATED IF THE PHOTOVOLTAIC PROJECT DOES NOT INVOLVE THE REMOVAL OF INTERIOR WALL AND
23. CEILING FINISHES INSIDE THE HOME, OTHERWISE, THE ALARMS MUST BE HARD WIRED AND INTERCONNECTED.

GENERAL CONDUCTOR INSULATION KEY

DC CONDUCTORS

POSITIVE(UNGROUNDED)	RED
NEGATIVE(UNGROUNDED)	BLACK

480/277V AC CONDUCTORS

PHASE L1	BROWN
PHASE L2	ORANGE
PHASE L3	YELLOW

120/208V OR 240V AC CONDUCTORS

PHASE L1	BLACK
PHASE L2	RED (SEE NOTE)
PHASE L3	BLUE
NEUTRAL	WHITE OR GREY
GROUND	GREEN OR BARE Cu

NOTE:THREE PHASE HIGH LEG MUST BE IN ORANGE COLOUR PER NFPA 70.

GROUND FAULT PROTECTION

1. PHOTOVOLTAIC INVERTERS SHALL BE EQUIPPED WITH DC GROUND FAULT PROTECTION. INVERTERS ARE ALSO EQUIPPED WITH ANTI-ISLANDING CIRCUITRY.

DISCONNECTING MEANS

1. MEANS SHALL BE PROVIDED TO ISOLATE EACH SOURCE CIRCUIT FROM THE SYSTEM.
2. WHERE A CIRCUIT GROUNDING CONNECTION IS NOT DESIGNED TO BE AUTOMATICALLY INTERRUPTED AS PART OF THE GROUND-FAULT PROTECTION, A SWITCH OR CIRCUIT BREAKER USED AS A DISCONNECTING MEANS SHALL NOT HAVE A POLE ON THE GROUNDED CONDUCTOR.
3. THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
4. EQUIPMENT SUCH AS PHOTOVOLTAIC SOURCE CIRCUITS, OVER CURRENT DEVICES, AND BLOCKING DIODES SHALL BE PERMITTED ON THE PHOTOVOLTAIC SIDE OF THE PHOTOVOLTAIC DISCONNECTING MEANS.
5. MEANS SHALL BE PROVIDED TO DISCONNECT INVERTERS FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
6. A SINGLE DISCONNECTING MEANS SHALL BE PERMITTED FOR THE COMBINED OUTPUT OF ONE OR MORE INVERTERS IN A GRID INTERACTIVE SYSTEM.
7. DISCONNECTING MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEING DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUITS.

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS · MICHAEL A. McGUIRE · ELECTRICAL · NO. 38515 · REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

NOTES

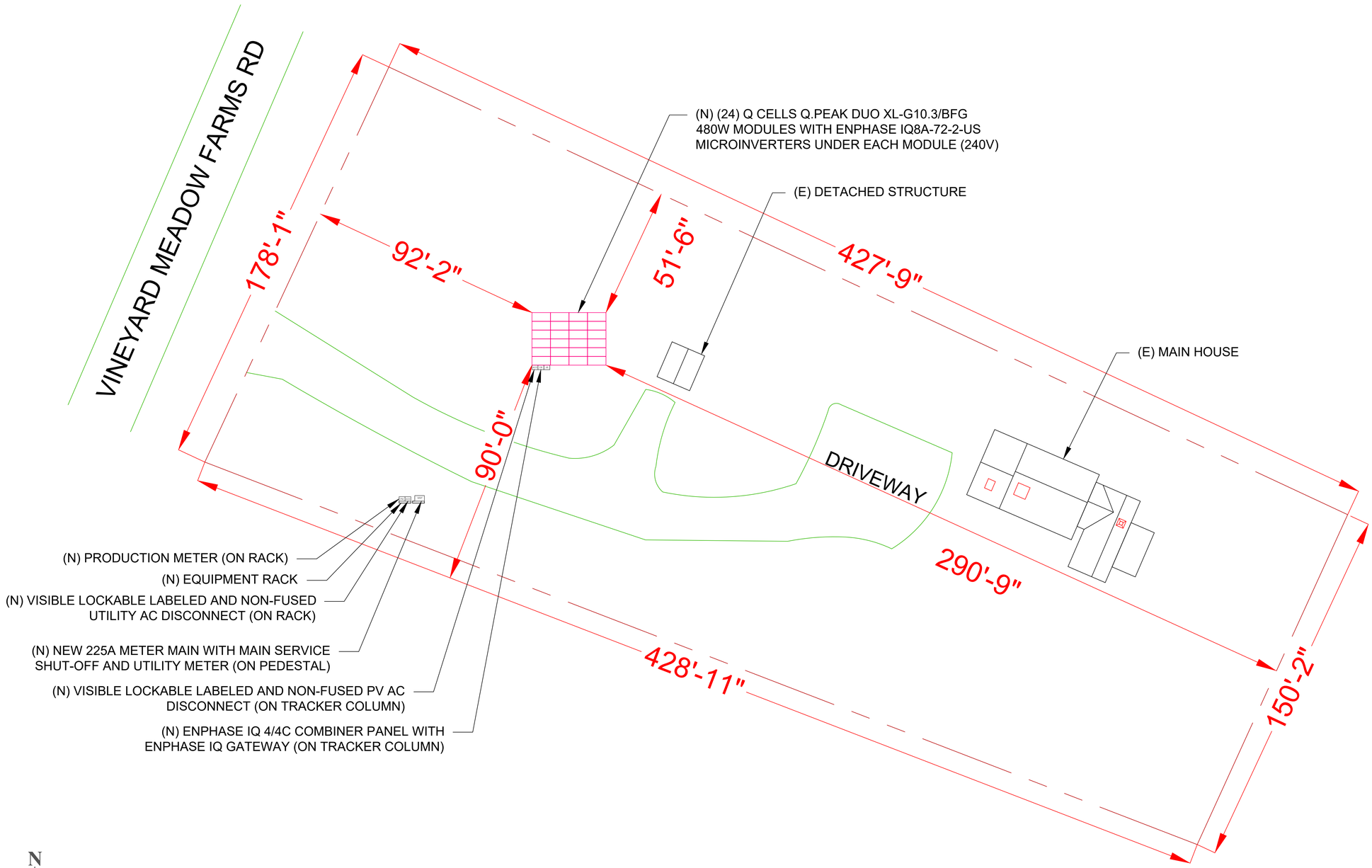
DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

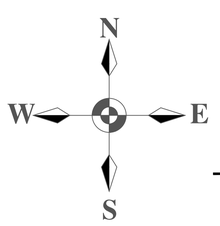
SHEET NUMBER

G-001

LEGEND

- PROPERTY LINE
JB - JUNCTION BOX





1 | SITE PLAN

SCALE: 1"=20'-0"

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. MaGUIRE
ELECTRICAL
NO. 38515
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

SITE PLAN

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

A-101

- MODULE STRING 1
- MODULE STRING 2
- MODULE STRING 3

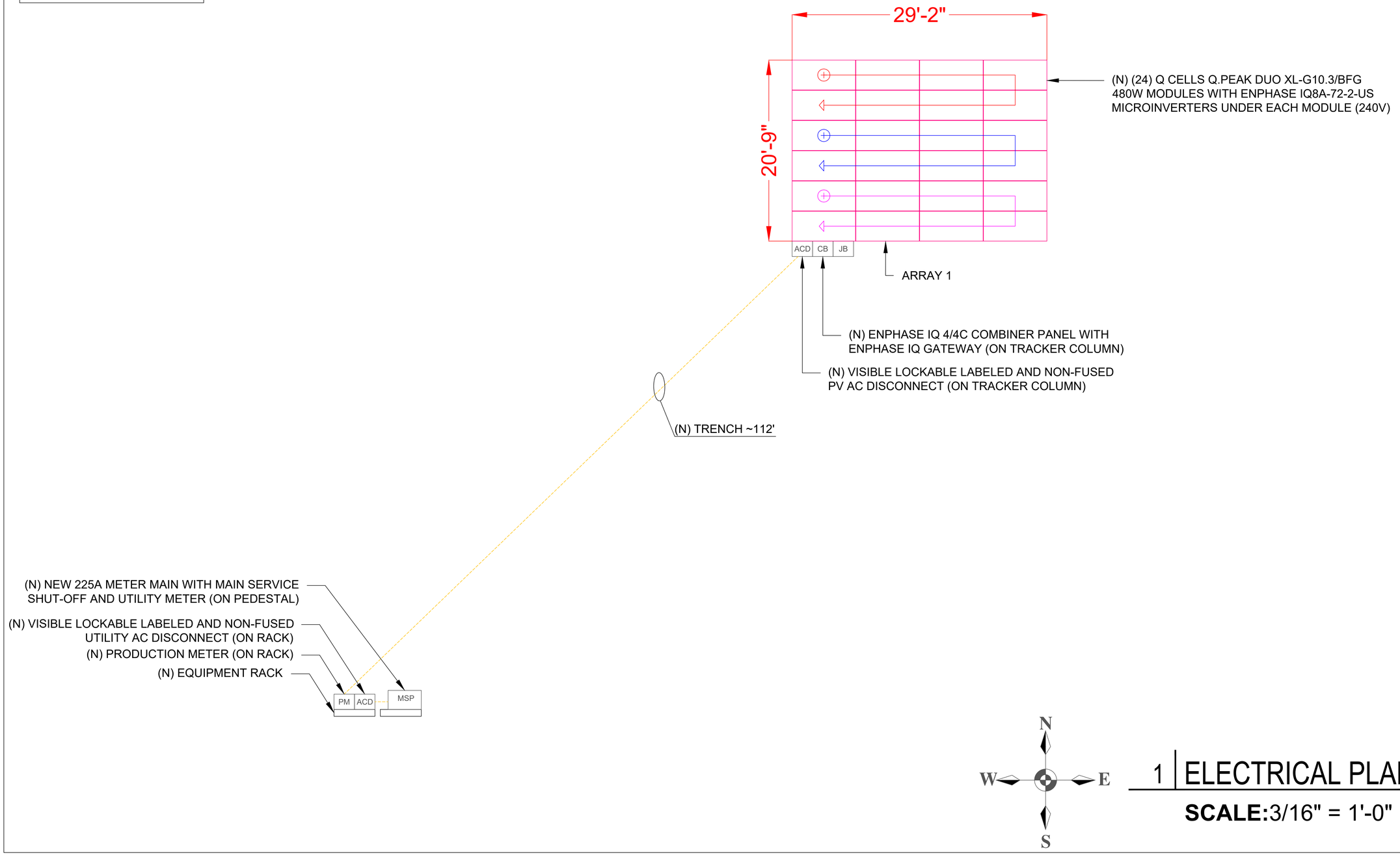
(24) Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W MODULES
WITH (24) ENPHASE IQ8A-72-2-US MICROINVERTERS
(03) STRINGS OF 8 MODULES CONNECTED IN PARALLEL.

LEGEND

- PROPERTY LINE
JB - JUNCTION BOX

ARRAY (S)

ARRAY 1	DUAL AXIS TILT - 0° TO 60° DUAL AXIS AZIMUTH - (-120° TO +120°) MODULE - 24



1 ELECTRICAL PLAN

SCALE:3/16" = 1'-0"

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. McGUIRE
ELECTRICAL
NO. 38615
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

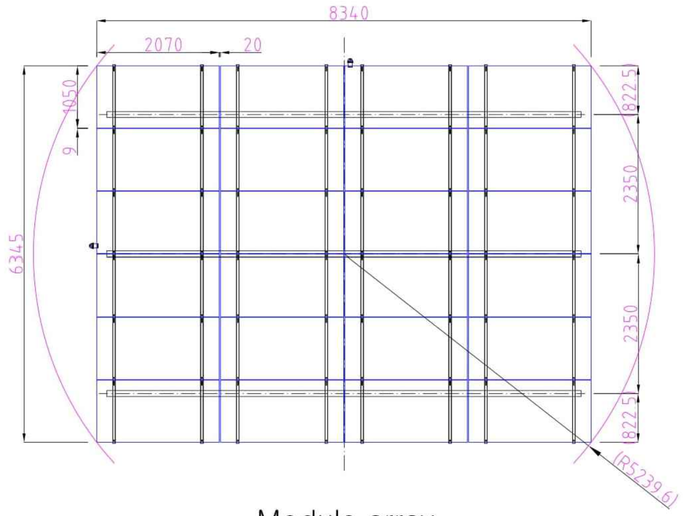
SHEET TITLE

ELECTRICAL PLAN

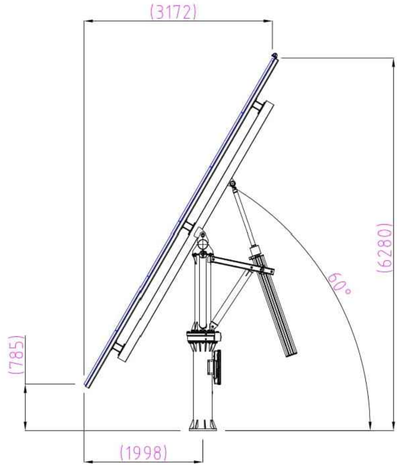
DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

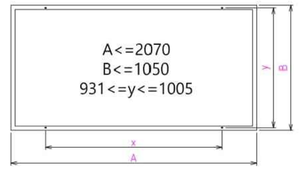
A-102



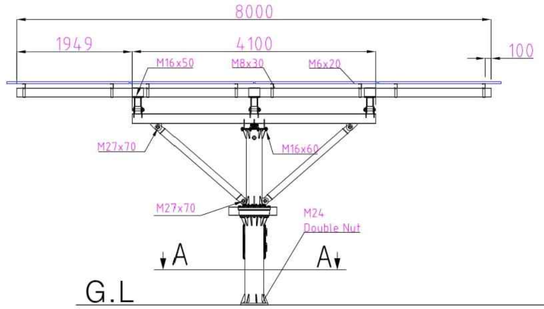
Module array



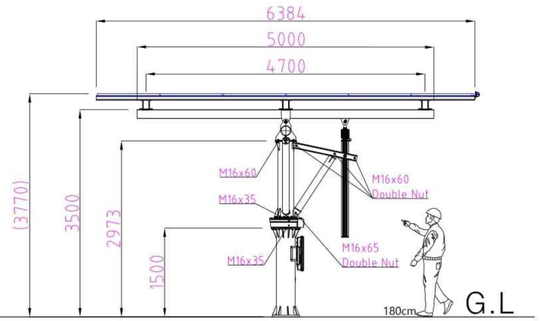
Side view(60°)



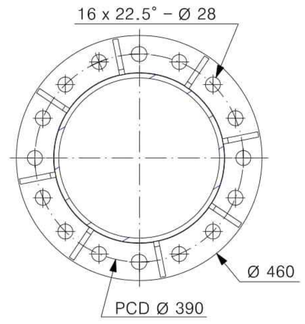
Module Layout



Front view



Side view(0°)



Detail Section View A–A (1:9)

1. All dimensions in mm. Not to scale.
2. Layout/Drawing is for reference use only.
3. Prohibit counterfeiting, unauthorized copy, and opening public.
4. Return to authorized department immediately after competing the work.
5. Control strictly in accordance with classified documents.
6. Should have legal responsibility for information spill without permission.

SUN ACTION Trackers
Eyeing the Sun

Product	**DualTrack 24M [Standard V1]**	Qty		Approved By	
		Material		Checked By	
Part Name	Layout Drawing	Weight(Kg)		Designed By	
		General Tolerance		Drawn By	
DWG No.	PST-2AL-24M	Projection		Date	

N
W E
S

1 | ATTACHMENT PLAN

SCALE:NTS

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

REVISIONS					
REV	DESCRIPTION	DATE			
A	PERMIT PLAN	12/01/2022			

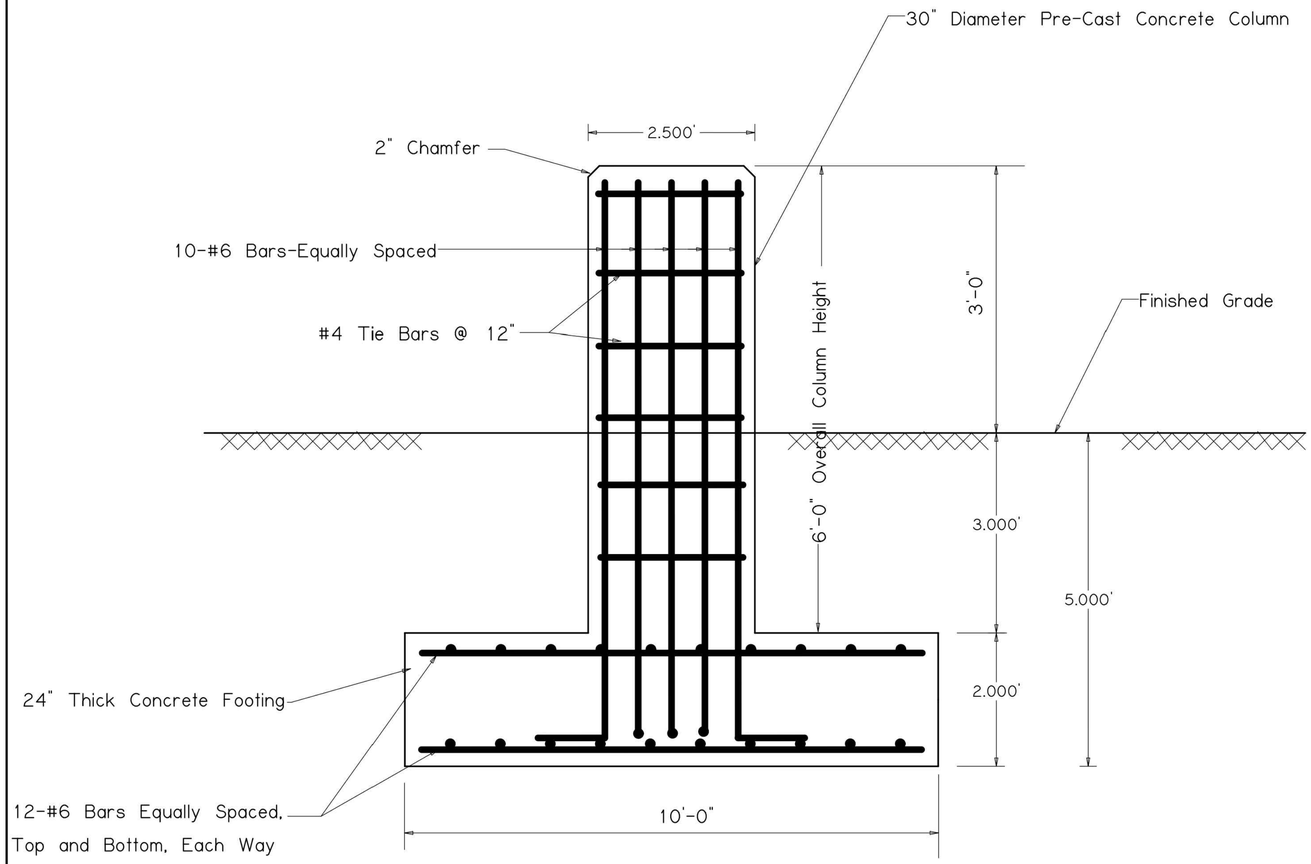
SHEET TITLE

ATTACHMENT PLAN

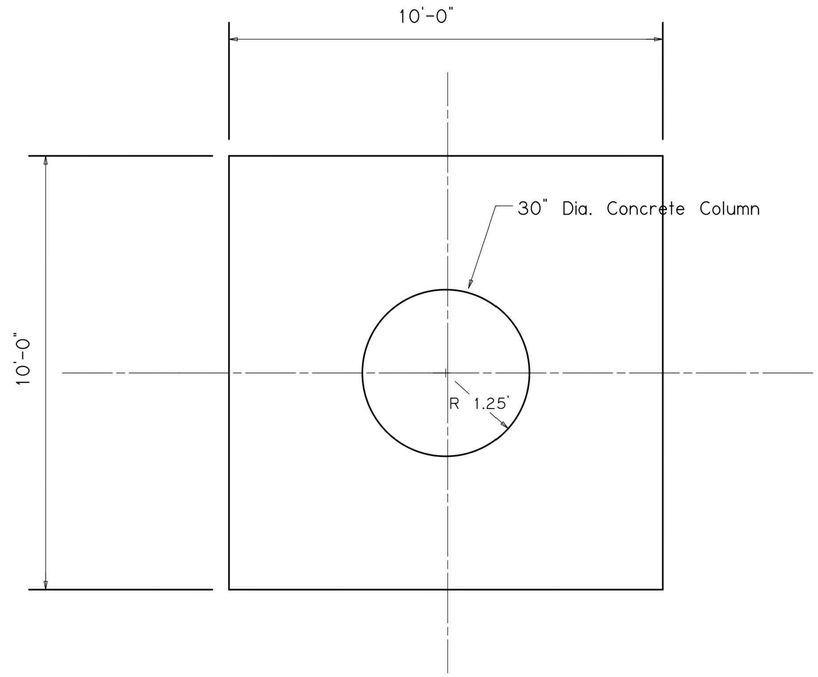
DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

A-103



SECTION



PLAN VIEW

PROPOSED CONCRETE FOUNDATION

Scale: 1"=1'-0"

GENERAL CONSTRUCTION NOTES

1. Concrete shall be 5000 PSI (Min.) 28 Day Compressive Strength.
2. Reinforcing Steel shall be Grade 60.
3. Bottom of Footing shall be undisturbed native granular soil.
4. Backfill shall consist of clean sand & gravel and will be compacted to 95% Std. Proctor.

COMMONWEALTH OF MASSACHUSETTS
THOMAS M. CALLERY
CIVIL
No. 33440
REGISTERED PROFESSIONAL ENGINEER
08-21-2020

CAPE COD, MASSACHUSETTS
DESIGN CRITERIA
WIND SPEED: 140 MPH GROUND SNOW LOAD: 25 PSF

Packy Campbell

PreCast Concrete Foundation
For
24 Panel SunAction Solar Trackers

N W E S

1 | FOUNDATION DETAILS

SCALE: NTS

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

REVISIONS	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

FOUNDATION DETAILS

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

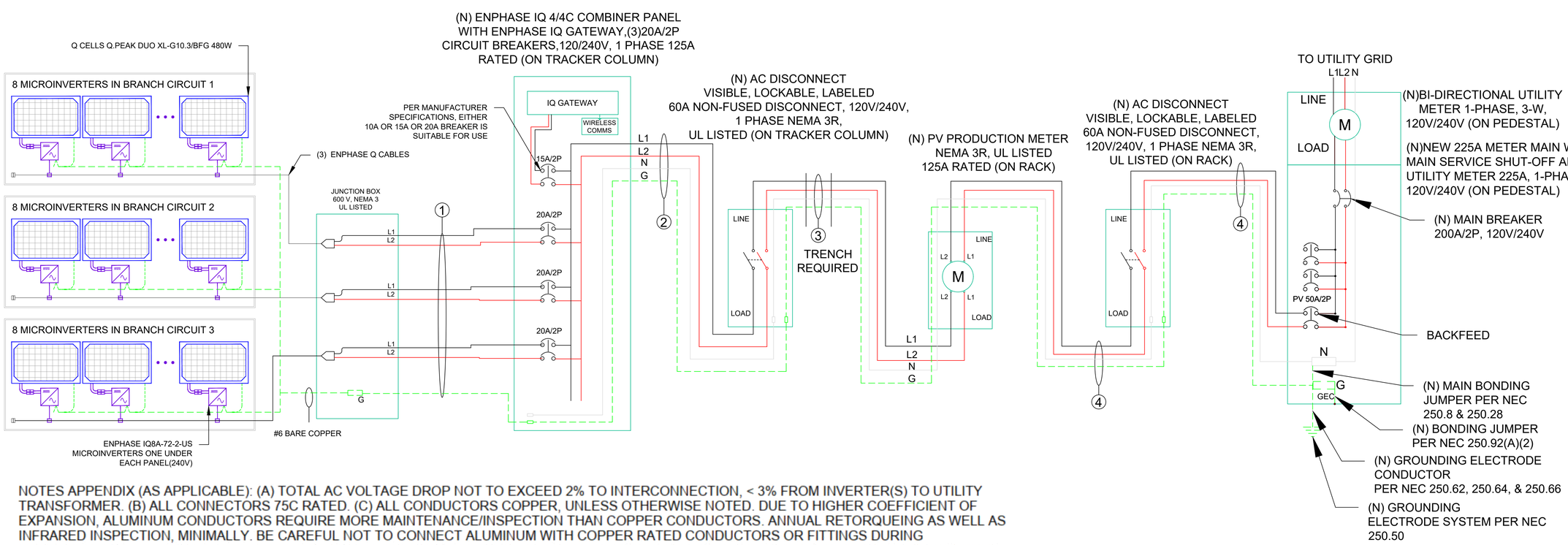
SHEET NUMBER

A-104

DC SYSTEM SIZE: 11.52 kW DC
AC SYSTEM SIZE: 8.37 kW AC

(24) Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W MODULES
WITH (24) ENPHASE IQ8A-72-2-US MICROINVERTERS
(03) STRINGS OF 8 MODULES CONNECTED IN PARALLEL.

ID	PARALLEL FEEDER	PHASE CONDUCTOR QTY, SIZE AND TYPE PER CONDUIT			NEUTRAL			GROUND CONDUCTOR QTY, SIZE AND TYPE PER CONDUIT			CONDUIT SIZE	CONDUIT TYPE
1	1	6	AWG #10	THWN-2,COPPER		N/A		1	AWG #10	THWN-2,COPPER EGC	3/4"	EMT
2	1	2	AWG #8	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER EGC	3/4"	EMT
3	1	2	AWG #6	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER EGC	3/4"	PVC
4	1	2	AWG #8	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER	1	AWG #10	THWN-2,COPPER EGC	3/4"	EMT
E	EXISTING											



NOTES APPENDIX (AS APPLICABLE): (A) TOTAL AC VOLTAGE DROP NOT TO EXCEED 2% TO INTERCONNECTION, < 3% FROM INVERTER(S) TO UTILITY TRANSFORMER. (B) ALL CONNECTORS 75C RATED. (C) ALL CONDUCTORS COPPER, UNLESS OTHERWISE NOTED. DUE TO HIGHER COEFFICIENT OF EXPANSION, ALUMINUM CONDUCTORS REQUIRE MORE MAINTENANCE/INSPECTION THAN COPPER CONDUCTORS. ANNUAL RETORQUEING AS WELL AS INFRARED INSPECTION, MINIMALLY. BE CAREFUL NOT TO CONNECT ALUMINUM WITH COPPER RATED CONDUCTORS OR FITTINGS DURING CONSTRUCTION, TERMINALS SHOULD BE DUAL RATED. MATERIAL FOR NEUTRAL AND EGC SHOULD BE THE SAME IN A GIVEN SEGMENT. (D) OUTDOOR EQUIPMENT NEMA3R. (E) ALL CONDUCTORS FOR PV & ESS SYSTEMS MUST BE PROTECTED FROM ACCESS BY A FENCE OR SUITABLE COVER, OR OUT OF REACH. (F) PROPERTY LINES, BOUNDARIES AND ALL OTHER EXTERIOR MEASUREMENTS ARE FOR REFERENCE ONLY, AND MUST BE VERIFIED BY A LICENSED SURVEYOR OR CIVIL ENGINEER. (G) ENERGY STORAGE SYSTEMS ARE REQUIRED TO BE INSTALLED IN LOCATIONS AND CONTAINERS IN COMPLIANCE WITH THEIR LISTING REQUIREMENTS. (H) IF TRAVEL ACROSS A ROOF IS LIMITED TO FIRE SETBACK AREAS, FALL RESTRAINT SYSTEMS MAY BE REQUIRED. (I) NO PVC ALLOWED ON ROOF OR IN ATTIC. (J) MC4 CONNECTORS MAY NOT BE JOINED WITH 'MC4 COMPATIBLE' CONNECTORS. (K) FOR COMMERCIAL SYSTEMS - UNDER MODULE WIRE MANAGEMENT SYSTEMS ARE REQUIRED, RACEWAY FILL MUST NOT EXCEED 40% REFER TO LOCAL REGULATIONS FOR EXCEPTIONS. (L) FOR LINE SIDE TAPS, CONNECTION IN PANEL MUST NOT VIOLATE CONDITIONS OF ACCEPTABILITY FROM PANEL MANUFACTURER'S NRTL LISTING, OR FIELD LABEL REQUIRED. (M) PV WIRES MAY NOT BE LAID DIRECTLY ON ROOF, WIRE MANAGEMENT SUCH AS SNAKE TRAY, ETC. MUST BE USED 40% FILL MAX. (N) TY WRAPS FOR WIRE MANAGEMENT MUST BE STRUCTURAL (S21) UL APPROVED, OR SUN BUNDLER OR EQUAL. (0) DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING, WHEN INDICATED, IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. (P) BURIED CONDUITS UNDER AREAS SUBJECT TO VEHICLE TRAFFIC REQUIRE MIN 24" COVER. (Q) SOLAREDGE INVERTERS MAY BE EQUIPPED WITH OCPD ON DC LINES, IF NOT EXTERNAL OCPD MAY BE REQUIRED FOR STRINGS NUMBERING 3 OR MORE. (R) BATTERIES MUST BE IN AN APPROVED BATTERY ENCLOSURE (SPECIFIED BY THE BATTERY MANUFACTURER), SUITABLE FOR THE LOCATION. (S) NM-B OR PAPER INSULATED CONDUCTORS MAY NOT BE USED EXTERIOR. INSTEAD USE THWN-2 OR EQUAL IN EMT CONDUIT. (T) FOR MULTIPLE BATTERIES/INVERTERS SHARING A COMMON DC BUS, OCPD PROTECTION IS REQUIRED ON BOTH SIDES OF THE BUS AND AT INVERTERS DUE TO 2 WAY CURRENTS. (U) FOR ALL COMMERCIAL SOLAR PROJECTS, THE DEVELOPER IS REQUIRED TO CONFIRM EXISTING ELECTRICAL SERVICE SIZE FROM THE UTILITY, AND MAY NOT RELY SOLELY ON EXISTING BREAKER SIZES.

SOLAR BREAKER LOCATED AT THE FURTHEST END OF BUSBAR FROM THE MAIN BREAKER OR FEEDER UNIT

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. MaGUIRE
ELECTRICAL
NO. 38615
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

LINE DIAGRAM

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

E-601

SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W
VMP	45.33V
IMP	10.59A
VOC	53.39V
ISC	11.12A
TEMP. COEFF. VOC	-0.27% / K
PTC RATING	497.2W
MODULE DIMENSION	87.2×41.1×1.38 (In Inch)

INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL #	ENPHASE IQ8A-72-2-US
NOMINAL OUTPUT VOLTAGE	240VAC
NOMINAL OUTPUT CURRENT	1.45 A

AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-17°
AMBIENT TEMP (HIGH TEMP 2%)	27°
CONDUIT HEIGHT	0.5"
ROOF TOP TEMP	27°
CONDUCTOR TEMPERATURE RATE	90°

120% RULE FOR BACKFEED BREAKER
...NEC 705.12(B)(2)(3)(b)

MCB RATING + PV BREAKER RATING <= (1.2 x BUS BAR RATING)
(200 + 50) <= 1.2 x 225A
250.00 <= 270.00 HENCE OK

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
0.80	4-6
0.70	7-9
0.50	10-20

AC WIRE CALCULATION

WIRE ID	PARALLEL FEEDERS	EXPECTED WIRE TEMP (In Celsius)	TEMP. CORRECTION PER TABLE 310.15(B)(2)(a)	NO. OF CURRENT CARRYING CONDUCTORS	CONDUIT FILL CORRECTION PER CEC 310.15(B)(3)(a)	CIRCUIT CONDUCTOR SIZE	CIRCUIT CONDUCTOR AMPACITY @75°(PER FEEDER SET)	CIRCUIT CONDUCTOR AMPACITY @90°(PER FEEDER SET)	REQUIRED CIRCUIT CONDUCTOR AMPACITY PER CEC 690.8(A&B) 1.25 X I	DERATED AMPACITY OF CIRCUIT CONDUCTOR PER CEC TABLE 310.16 TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER CEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY @90°(PER FEEDER SET)	DERATED AMPACITY OF CIRCUIT CONDUCTOR IS GREATER THAN REQUIRED	ESTIMATED DISTANCE (FT)	EXPECTED VOLTAGE DROP (%)
1	1	27°	1.00	6	0.80	AWG #10	35A	40A	14.5A	32A	YES	10	0.13
2	1	27°	1.00	2	1	AWG #8	50A	55A	43.5A	55A	YES	10	0.25
3	1	27°	1.00	2	1	AWG #6	65A	75A	43.5A	75A	YES	112	1.80
4	1	27°	1.00	2	1	AWG #8	50A	55A	43.5A	55A	YES	20	0.51
												TOTAL VOLTAGE DROP (%)	2.69

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES
32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. McGUIRE
ELECTRICAL
NO. 38515
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE
ELECTRICAL CALCULATIONS

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER
E-602

1

⚠ WARNING

THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

LABEL LOCATION:
COMBINER BOX
(PER CODE: NEC 690.31(I))

2

⚠ WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LABEL LOCATION:
COMBINER BOX, MAIN SERVICE PANEL
(PER CODE: NEC 110.27 (C))

3

⚠ WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
COMBINER BOX, MAIN SERVICE PANEL, AC DISCONNECT
(PER CODE: NEC 690.13(B))

4

WARNING - Electric Shock Hazard
No user serviceable parts inside
Contact authorized service provider for assistance

LABEL LOCATION:
INVERTER, JUNCTION BOXES (ROOF),
(PER CODE: NEC690.13.G.3 & NEC 690.13.G.4)

5

⚠ WARNING: DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION:
MAIN SERVICE PANEL, UTILITY METER
(PER CODE: NEC 705.12(B)(3-4) & NEC 690.59)

6

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION:
CONDUIT, COMBINER BOX
(PER CODE: NEC690.31(G)(3)(4) & NEC 690.13(G)(4)

7

⚠ WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

LABEL LOCATION:
MAIN SERVICE PANEL
(PER CODE: NEC 705.12 (B)(2)(c))

8

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION:
AC DISCONNECT
(PER CODE: NEC 690.13 (B)

9

! CAUTION !

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

LABEL PER NEC 690.56(C)-
PROVIDE AT NEW SUB PANEL OR SERVICE PANEL FOR RAPID SHUTDOWN COMPLIANT SYSTEM

10

DO NOT DISCONNECT UNDER LOAD

LABEL LOCATION:
MAIN SERVICE PANEL
(PER CODE: NEC 690.15 (C) & NEC 690.33(E)(2))

⚠ WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE & LOAD SIDES MAY BE ENERGIZED IN OPEN POSITION

DO NOT DISCONNECT FUSES UNDER LOAD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

PHOTOVOLTAIC SYSTEM DC DISCONNECT

AUTHORIZED PERSONNEL ONLY

Note: WARNING labels must resemble format in example above with over-sized WARNING, exclamation point in triangle, colors, etc.

11

⚠ CAUTION

PHOTOVOLTAIC SYSTEM DISCONNECT IS BACKFEED

LABEL LOCATION:
MAIN SERVICE PANEL
(PER CODE: NEC 690.13 (F), NEC 705.12(D)(3-4) & NEC 690.59)

12

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION:
MAIN SERVICE PANEL
(PER CODE: NEC 690.13(B))

13

PHOTOVOLTAIC AC DISCONNECT

RATED AC OPERATING CURRENT: **34.8 A**

NOMINAL OPERATING AC VOLTAGE: **240 V**

LABEL LOCATION:
AC DISCONNECT
(PER CODE: NEC 690.54)

NOTE: MATERIALS USED FOR ALL MARKING SHALL BE REFLECTIVE, WEATHER RESISTANT AND SUITABLE FOR THE ENVIRONMENT. ALL LETTERS SHALL BE A MINIMUM HEIGHT OF 3/8", CAPITALIZED AND WHITE ON A RED BACKGROUND.

ADHESIVE FASTENED SIGNS:
- THE LABEL SHALL BE SUITABLE FOR THE ENVIRONMENT WHERE IT IS INSTALLED.
- WHERE REQUIRED ELSEWHERE IN THIS CODE, ALL FIELD APPLIED LABELS, WARNINGS, AND MARKINGS SHOULD COMPLY WITH ANSI Z535.4 [NEC 110.21(B) FIELD MARKING].
- ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHERED. VINYL SIGNS SHALL BE WEATHER RESISTANT [IFC 605.11.1.3]

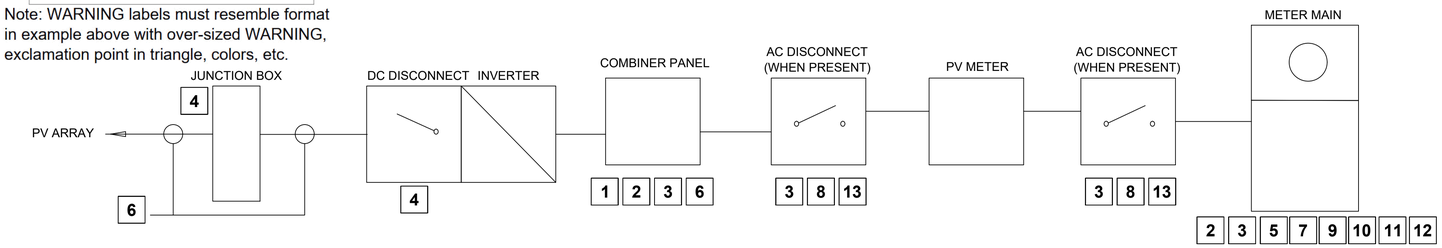
13

PHOTOVOLTAIC AC DISCONNECT

RATED AC OPERATING CURRENT: **34.8 A**

NOMINAL OPERATING AC VOLTAGE: **240 V**

LABEL LOCATION:
AC DISCONNECT
(PER CODE: NEC 690.54)



GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS · MICHAEL A. McGUIRE · ELECTRICAL NO. 38515 · REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

WARNING LABELS

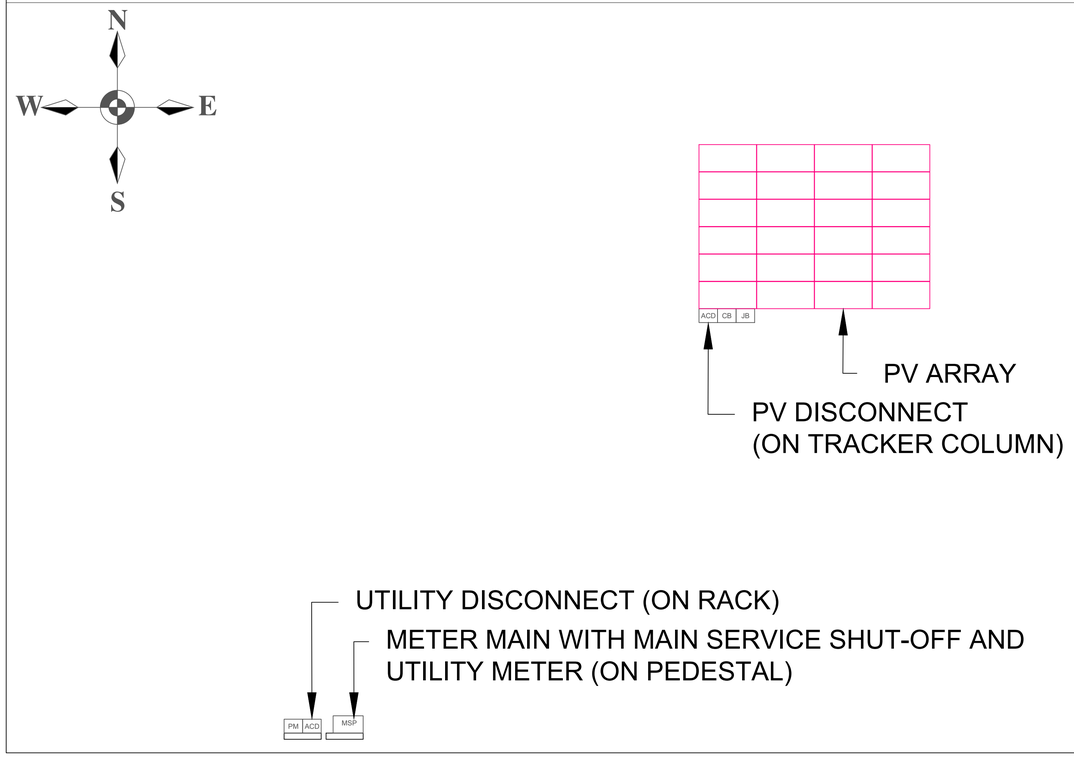
DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

E-603

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:



GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL A. MaGUIRE
ELECTRICAL
NO. 38515
REGISTERED PROFESSIONAL ENGINEER

sealed 01dec2022 mike@h2dc.com
H2DC PLLC MA CoA#: 001239603
ELECTRICAL ONLY
- NOT AN AS BUILT DRAWING SET -

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

PLACARDS

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

E-604

Q.PEAK DUO XL-G10.3 / BFG

470-485

BIFACIAL DOUBLE GLASS MODULE WITH EXCELLENT RELIABILITY AND ADDITIONAL YIELD

BIFACIAL ENERGY YIELD GAIN OF UP TO 20 %

LOW ELECTRICITY GENERATION COSTS

INNOVATIVE ALL-WEATHER TECHNOLOGY

ENDURING HIGH PERFORMANCE

FRAME FOR VERSATILE MOUNTING OPTIONS

A RELIABLE INVESTMENT

THE IDEAL SOLUTION FOR:

Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

ELECTRICAL CHARACTERISTICS

TEMPERATURE COEFFICIENTS

PROPERTIES FOR SYSTEM DESIGN

QUALIFICATIONS AND CERTIFICATES

ENPHASE.

IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.

Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements

IQ8 Series Microinverters

Data Sheet
Enphase Networking

Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4
X-IQ-AM1-240-4C

The Enphase IQ Combiner 4/4C with Enphase IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

Simple

Reliable

To learn more about Enphase offerings, visit enphase.com

ENPHASE.

Enphase IQ Combiner 4/4C

MODEL NUMBER

ACCESSORIES AND REPLACEMENT PARTS

ELECTRICAL SPECIFICATIONS

MECHANICAL DATA

INTERNET CONNECTION OPTIONS

COMPLIANCE

To learn more about Enphase offerings, visit enphase.com

ENPHASE.

SUN ACTION Trackers

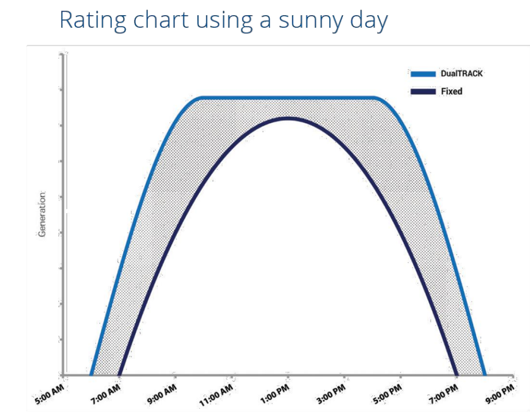
DualTrack 24

Dual Axis with Real-Time Sensing Technology

More power to you.

DualTrack 24 captures the most optimal energy for your home, thanks to our patented Real-Time Sensors (RTS) that guide our trackers to the maximum point of sunlight throughout the day. This results in **30-40 percent more** power production than conventional fixed arrays.

Rating chart using a sunny day



Key features

Reliability

Contains self-healing Magnesium Alloy Coated (MAC) steel, a strong alloy that is 5-10 times stronger than galvanized steel.

Utilizes patented Real-Time Sensors for ultimate tracking, allowing **no wasted energy** during cloudy days - unlike conventional GPS input tracking systems that follow their pre-programmed path.

We provide company support during the lifetime of the tracker (Operation & Troubleshooting)

Installation Flexibility

Simple electrical Plug N' Play connection with the use of RTS technology. No pre-programming or skilled technician is required.

Can be installed on any terrain.

Flexible system that can accommodate any commercially available solar module.

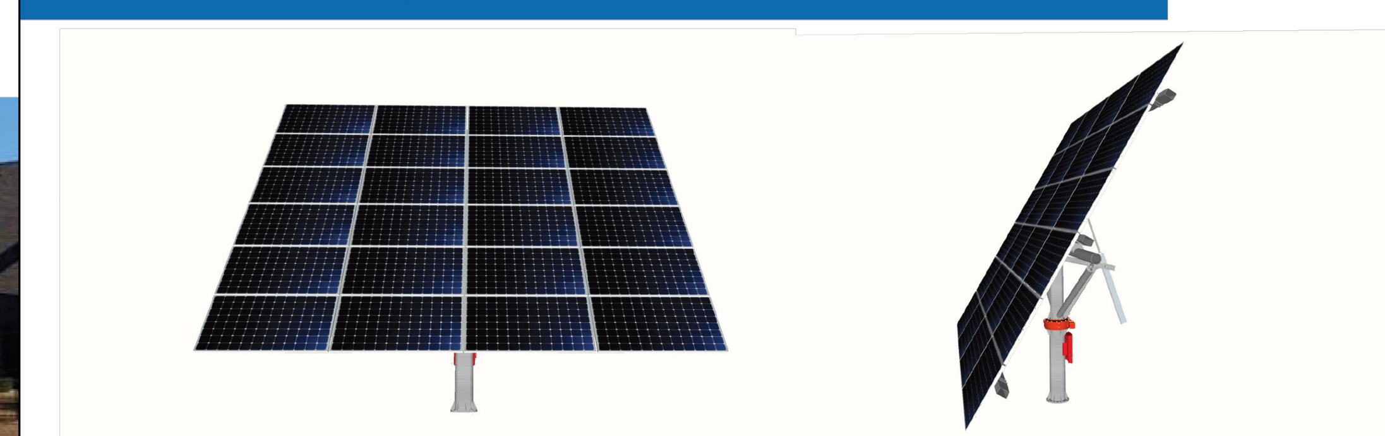
Low Maintenance

Low voltage DC motors which require low maintenance and minimum downtime.

No skilled technician is required.

Learn more about Real-Time Sensing

Sun Action Trackers | DualTrack 24



Tracker Specifications

Tracking Type	Dual Axis
Model	DualTrack 24
Module Area (Max)*	48m² [24 modules 72-cell]
System Weight	1,500kg, without modules & foundation
Tracking Axis	Dual Axis: azimuth & vertical
Tracking Range of Motion	Azimuth: -120° to +120° Vertical: 0° to 60°
Azimuth Rotation	Slew drive
Vertical Tilt	Linear actuator
Power Supply to Controller	100-240VAC / 50 ~ 60Hz
Materials	Magnesium Alloy Coated / Hot-dip Galvanized steel
Solar Tracking Method	Real-Time Solar Sensor
Max Wind Speed	Standard 47m/s (105MPH)
Safety Mode (Automatic Horizontal)	Wind mode, Less than 3,000 lux
Safety Mode (Tilted Position)	Snow Mode
Temperature Range	-25 to 55°C (-13 to 131°F)

The above specifications could vary according to local conditions
**Module Area (Max) - Optional 60 cell modules*

Available for Residential, Commercial & Industrial use.

Sun Action Trackers
3660 Thousand Oaks, Suite 316 | San Antonio, Texas 78247
Main:844-366-7525
Email: info@sat-energy.com

www.sat-energy.com

GREENTECH RENEWABLES

GREENTECH RENEWABLES

CONTRACTOR

FARLEY BUILT, INC.

FARLEY BUILT, INC.

PROJECT NAME & ADDRESS

HAYNES

32 VINEYARD MEADOW FARMS RD, WEST TISBURY, MA 02575, USA

SIGNATURE WITH SEAL

REVISIONS

REV	DESCRIPTION	DATE
A	PERMIT PLAN	12/01/2022

SHEET TITLE

RESOURCE DOCUMENT

DRAWN DATE	12/01/2022
DRAWN BY	JK
REVIEWED BY	VN

SHEET NUMBER

R-001