



January 10, 2022

William Hsien
Revel Energy LLC
2323 Main Street
Irvine, Ca 92614

**Re: Architectural Review 21-10 (Administrative)
Proposed Solar Farm on the northeast portion of an existing development
(Woodspur Farms facility)
52200 Industrial Way, Coachella CA 92236**

Dear Mr. Hsien:

Development Services has completed an administrative review of the proposed ground mounted solar farm to occupy approximately 4.7 acres of the 25.40-acre subject site. The subject site is in the M-H (Heavy Industrial) zoning district and the location of the Woodspur Farms facility.

After reviewing your request along with the submitted plans, considering the agency comments, and considering the input provided by you on the final findings and conditions, your request for Architectural Review No. 21-10 (Administrative) has been granted by the Director. The attached Findings and Conditions have been made a part of this approval.

Pursuant to Section 17.70.080 of the Coachella Municipal Code any person aggrieved by the Director's decision may file an appeal to the Planning Commission within 15 days of the effective decision date.

Please call our office at (760) 398-3102 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in blue ink that reads 'Nikki Gomez'.

Nikki Gomez
Associate Planner

Xc: File

ATTACHMENT A
FINDINGS FOR ARCHITECTURAL REVIEW 21-10 (Administrative)

1. The proposed ground mounted solar farm use is consistent with the goals, objectives, policies, and implementation measures of the Coachella General Plan. The project complies with the Industrial land use designation of the General Plan, which allows for industrial uses. The ground mounted solar farm is supplementary structure to the existing facility to offset their power usage. The subject site is generally surrounded with developed properties having an agricultural packing plant and distribution facilities, which are permitted uses in the M-H (Heavy Industrial) zone and is consistent with the General Plan policies.
2. The proposed use of ground mounted solar farm will be installed and maintained to be compatible with the existing or intended character of the general vicinity and shall not change the essential character of the same area. The proposed ground mounted solar farm occupying 4.6 acres at 4'-7" in height is entirely confined within the subject site with a setback of 38 feet from the Industrial Way street frontage. The site plan identifies new additional fencing (as conditioned) to completely shield the ground mounted solar structures ensuring that there is little to no visual deviation from the existing conditions and the adjoining sites in the vicinity.
3. The proposed solar farm will be compatible in keeping with the design and character of neighboring properties with respect to land development patterns and application or architectural treatments. The ground mounted solar farm will be installed abutting the northeast corner of the subject site behind and existing building thus, decreasing the visibility from the street. The plans submitted indicate an additional fencing behind the existing perimeter fence. The new fencing in combination with landscaping (as conditioned), will result in the proposed ground mounted solar farm to be minimally visible along Industrial Way.
4. Where the proposed use may be potentially hazardous or disturbing to existing or reasonable expected neighboring uses, it must be justified by the common public interest as a benefit to the community as a whole. The Development Services Department does not anticipate any potentially hazardous or disturbing impacts on existing or neighboring uses. Woodspur farms facility processes, packages and distributes organic dates, the ground mounted solar farm will utilize an existing vacant portion of the subject site offsetting power usage while harnessing clean, renewable energy that may reduce the facilities carbon emission benefiting the community as a whole.
5. The proposed project is exempt from the requirements of the California Environmental Quality Act (CEQA) pursuant to section 15268 (Ministerial Projects). The City has determined that supplementary accessory structures that are incidental to a primary use, such as the ground mounted solar farm to offset the facilities power usage is a "ministerial" project requiring no discretionary reviews and approvals. Therefore, this project is exempt from environmental review pursuant to the CEQA Guidelines.

ATTACHMENT B
CONDITIONS OF APPROVAL FOR
ARCHITECTURAL REVIEW 21-10 (Administrative)

1. This administrative architectural review is granted to allow a 4.7-acre ground mounted solar farm within the subject site with an existing agricultural packaging and processing facility (Woodspur Farms) located in the M-H (Heavy Industrial) zone, at near the northwest corner of Enterprise Way and Industrial Way. The applicant shall submit construction drawings for civil improvements, solar farm structures, fencing and landscaping through the City's Building Division and Engineering Department for plan check and approval.
2. The applicant shall pay all permit fess necessary to secure permits, subject to review and approval by the Building Official, The owner shall secure approval from the Riverside County Fire Marshal's Office for the proposed site plan, fencing, and landscaping and related site improvements.
3. Prior to the issuance of a building permit, the applicant shall submit a fencing plan showing a "living fence" consisting of chain link least six feet in height and a row of shade trees planted at every 15 feet on center, along the front portion of the property in order to screen the ground mounted solar farm structures use from view to the street. The "living fence" shall be installed on the sides fronting Industrial Way to decrease the visibility from the street. The remaining fence to north and east of the ground mounted solar farm may be chain link or wrought iron.
4. The applicant shall pay all applicable school facilities fees to the Coachella Unified School District prior to obtaining building permits.

ENGINEERING DEPARTMENT:

General:

5. Prepare and record necessary drainage easements to implement the project in accordance with drainage law. **Note: a Water Quality Management Plan (WQMP) may be required depending on the existing and future drainage paths and storm water retention capacity.**
6. The developer shall submit a Fugitive Dust Control and Erosion Control plan in accordance with Guidelines set forth by CMC and SCAQMD to maintain wind and drainage erosion and dust control for all areas disturbed by grading. Exact method(s) of such control shall be subject to review and approval by the City Engineer. No sediment is to leave the site. Additional securities, in bond form, in amount of \$2,000.00 per acre of gross area, and a one-time cash deposit of \$2,000.00 are required to insure compliance with this requirement. No work may be started on or off site unless the PM-10 plan has been approved, the original plans, and executed dust control agreement, are filed in the engineering department at the City of Coachella.

7. Applicant shall submit for review and approval by the City Engineer all documents related to any existing and proposed on-site and off-site easements that may affect the development of the site. All easements shall be identified on the engineering plans.
8. Site access improvements shall be in conformance with the requirements of Title 24 of the California Administrative Code. This shall include access ramps for off-site and on-site streets as required.
9. Applicant shall obtain approval of site access and circulation from Fire Marshall.
10. The applicant shall provide necessary utility easements for IID and underground overhead distribution lines within the project boundaries. Applicant shall submit to the City a letter from IID that satisfies this requirement.
11. The applicant shall pay all necessary plan check, permit and inspection fees. Fees will be determined when plans are submitted to the City Engineering Department for plan check.

Rough Grading:

12. Prepare and submit rough grading and erosion control plans for the project.
13. The project's soils engineer shall certify to the adequacy of the grading plan.
14. All projects developing one (1) acre or more of total land area, or which are part of a larger phased development that will disturb one acre of land, are required to obtain coverage under the State Water Resources Control Board's (SWRCB) General Permit for storm water discharges associated with construction activity. Proof of filing a Notice of Intent (NOI) with the SWRCB for coverage under this permit is required. The Waste Discharger's Identification Number (WDID), issued by the SWRCB, must be shown on the grading plans. The project's Storm Water Pollution Prevention Plan shall be submitted for the City's review and approval.
Note: because the disturbed area is greater than one acre but less than 5 acres, the project should qualify for Rainfall Erosivity Waiver Based on the State Water Control Board Guidelines.

Precise Grading:

15. A precise grading/improvement plan, prepared by a California Registered Civil Engineer, showing building footprints, ~~pad elevations~~, finished grades, drainage routes, ~~retaining walls~~, erosion control, slope easements, and all other pertinent information shall be submitted for review and approval by the City Engineer.
16. Rough grading shall be certified by the project soils engineer prior to issuance of a permit for precise grading or building construction.
17. ~~Provide and record a reciprocal use and maintenance agreement to assure common ingress and egress and joint maintenance of all common access, parking areas and drives.~~

18. If applicant is planning to build a wall, separate permits shall be required for wall construction. The maximum height of any wall shall be limited to six (6) feet as measured from an average of the ground elevations on either side.

Street Improvements:

19. Street improvement plans prepared by a California Registered Civil Engineer shall be submitted for review and approval by the City Engineer. All street improvements including street lights shall be designed and constructed in conformance with City Municipal Code, General Plan, and Standards and Specifications. Street flow line grade shall have a minimum slope of 0.35 %.
20. Applicant shall construct all off-site and on-site improvements including ~~street pavement, curb, gutter, sidewalk, street trees, perimeter walls, perimeter landscaping and irrigation, storm drain, street lights,~~ and any other incidental works necessary to complete the improvements. Driveways shall conform to City of Coachella standards for commercial driveways with a minimum width of 24.00 feet and curbed radius entrances.
21. Applicant shall construct and dedicate the following streets and street improvements to conform to the General Plan and/or requirements of Traffic Study.
 - A. Industrial Way- Public Roadway as shown on the RAC and per these comments shall include the following:
 - i. Dedication of land along northbound lane within project limits is required. This street is classified as Industrial Collector with 80 feet of right-of-way as per City of Coachella General Plan.
 - ii. Street measured at Center line to easterly curb shall have a width of 24-foot
 - iii. Applicant shall install all sidewalk, curb and gutter transitions to uniformly connect to existing adjacent improvements and coordinate installation and/or relocation of fire hydrants, water meters, storm drain, wells, streetlights and all other appurtenances as required to the satisfaction of the City Engineer.
 - iv. ~~Applicant shall construct all appurtenant roadway components within project limits such as, but not limited to: curb and gutter, sidewalk, ADA ramps, Traffic control striping, legends, Traffic control signs and street name signs to the satisfaction of the City Engineer.~~
 - v. Applicant shall remain and protect in place existing curb and gutter that is on good shape condition and/or remove and replace curb and gutter that is not such as, but not limited to: crack, deteriorated or any kind of concrete fractures to the satisfaction of the City Engineer.
 - vi. Applicant shall remove old driveways and construct new Driveways by new Standards instead to the satisfaction of the City Engineer.

- vii. ~~Applicant shall underground all existing dry utilities if existing at southbound lane within project limits such as, but not limited to: power poles, telecommunication poles and all other existing dry utilities to the satisfaction of the City Engineer.~~

Sewer and Water Improvements:

- 22. ~~A Sewer & Water Improvement Plans prepared by a California Registered Civil Engineer shall be submitted for engineering plan check and City Engineer approval.~~
- 23. ~~Applicant shall construct all off-site and on-site water improvements and any other incidental works necessary to complete the improvements. Size and location of sewer and water improvements shall be approved by the City Engineer.~~

Prior to Issuance of Building Permits:

- 24. A final soils report, compaction report and rough grading certificate shall be submitted and approved prior to issuance of any building permits.
- 25. ~~Provide a set of proposed Covenants, Conditions and Restrictions (CC&R) for review and approval. The proposed CC&Rs shall contain the Association's/Owner's maintenance obligations with respect to various facilities including, but not limited to, right of way and private landscaping, private streets, sidewalks, utilities, street lights, and Water Quality Management Plan (WQMP) features. This document must be submitted to and approved by the City before it is submitted to any other governmental entity.~~

BUILDING AND SAFETY DIVISION:

- 26. The Applicant shall provide 10 feet clear area around the entire array required under CRC 1204.4
- 27. Fire Authority may require vehicular access.
- 28. The Applicant shall provide plans with dimensioning clearances in the electrical room.



CAL FIRE – RIVERSIDE UNIT RIVERSIDE COUNTY FIRE DEPARTMENT

BILL WEISER - FIRE CHIEF

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Planning Case Conditions

Date: 10/18/21

City Case Number: AR 21-10

Project Name: Woodspur Farms PV Project

Reviewed By: Chris Cox, Assistant Fire Marshal

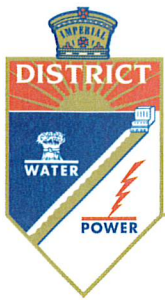
Fire Department Permit Number: FPARC2100107

East Office of the Fire Marshal Responsibility

The Office of the Fire Marshal reviewed the application and plan for this case. We are requesting the applicant to address the following comments and resubmit the plan:

1. The scope of work on the plan states roof mounted photovoltaic modules but the City of Coachella's project summary describes a proposed ground mounted solar farm. Correct the plan and clarify the project description.
2. Show the fire apparatus access road on the site plan. The fire access road shall extend to within 300 feet of all portions of the facility - as measured from the access road to all portions of the facility on an approved walkway through and between the length of solar arrays. The access road shall be a minimum width of 20 feet, have a minimum outside turning radius of 38 feet, and be capable of supporting the load of fire apparatus (50,000 lbs.) under all weather conditions. Access gate openings for vehicles shall be a minimum of 14 feet wide and 4 feet wide for pedestrian access.
3. Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved area for turning around fire apparatus. Turning areas shall be designed in accordance with Riverside County Fire Department standards.

If you have any questions, or if some items are unclear, please phone our office at 760-863-8886 and speak with Assistant Fire Marshal Chris Cox.



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October 20, 2021

Mr. Gabriel Perez
Assistant Community Development Director
Development Services Department
City of Coachella
1515 6th Street
Coachella, CA 92236

SUBJECT: Woodspur Farms PV Project in Coachella, CA; AR No. 21-10 (Admin)

Dear Mr. Perez:

On October 6, 2021 the Imperial Irrigation District received from the City of Coachella Development Services Department, a request for agency comments on the Woodspur Farms PV project in Coachella, CA; Architectural Review no. 21-10 (Administrative). The applicant proposes to develop a ground-mounted solar photo-voltaic energy generation project at 52200 Industrial Way, Coachella CA (APN 763-400-021), on the northeast corner of the lot where Woodspur Farms facility is currently located and plans to interconnect the PV generation to the 3 existing IID electrical meters at the date farm facility.

The IID has reviewed the project information and has the following comments:

1. IID will not begin any studies, engineering or estimate costs to interconnect the project to the district's electrical system until the applicant submits an application for interconnection of distributed generation facilities (available for download at <https://www.iid.com/home/showpublisheddocument/2563/635648001335730000>) and a customer project application (available for download at the district website <http://www.iid.com/home/showdocument?id=12923>), along with detailed loading information, panel sizes, project schedule and estimated in-service date. Applicant shall bear all costs associated with interconnecting the project con IID's electrical grid, including but not limited to the construction of additional electrical facilities, distribution line extensions, underground conduit systems and the re-configuration of distribution lines and other upgrades as well as applicable permits, zoning changes, landscaping (if required by the City) and rights-of-way and easements.
2. Once the applications and loading information are received, IID will perform an assessment to determine the project's potential impacts to the district's electrical system and the mitigation measures required.

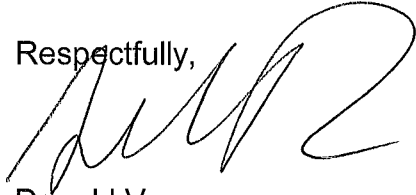
3. Underground infrastructure that includes trenching, conduits, pull boxes, switch boxes, transformers, commercial meter panels, residential meter concentrations and pads should be installed following IID approved plans. Physical field installation of underground infrastructure should be verified and approved by an IID inspector prior to cable installation as per IID Developer's Guide (available at the district website <https://www.iid.com/home/showdocument?id=14229>).
4. The IID Regulation (No. 21) governing the interconnection of distributed generation facilities such as the proposed PV project can be found at:
<https://www.iid.com/home/showpublisheddocument/2561/635648001335730000>
5. IID Regulations governing line extensions can be found at:
No. 2 (<http://www.iid.com/home/showdocument?id=2540>),
No. 13 (<http://www.iid.com/home/showdocument?id=2553>),
No. 15 (<http://www.iid.com/home/showdocument?id=2555>),
No. 20 (<http://www.iid.com/home/showdocument?id=2560>) and
No. 23 (<https://www.iid.com/home/showdocument?id=17897>).
6. For additional information regarding the interconnection of distributed generation to the IID electrical system, the applicant should be advised to contact Raquel L. Peña, IID Energy Distribution Interconnect Administrator, at (760) 604-0779 or e-mail Ms. Peña at rpena@iid.com.
7. It is important to note that IID's policy is to extend its electrical facilities only to those developments that have obtained the approval of a city or county planning commission and such other governmental authority or decision-making body having jurisdiction over said developments.
8. The applicant will be required to provide rights-of-way and easements for any power line extensions and overhead or underground infrastructure needed to serve the project.
9. Any construction or operation on IID property or within its existing and proposed right of way or easements including but not limited to: surface improvements such as proposed new streets, driveways, parking lots, landscape; and all water, sewer, storm water, or any other above ground or underground utilities; will require an encroachment permit, or encroachment agreement (depending on the circumstances). A copy of the IID encroachment permit application and instructions for its completion are available at <https://www.iid.com/about-iid/department-directory/real-estate>. The IID Real Estate Section should be contacted at (760) 339-9239 for additional information regarding encroachment permits or agreements.

10. Relocation of existing IID facilities to accommodate the project and/or to accommodate street widening improvements imposed by the City will be deemed project-driven and all costs, as well as securing of rights of way and easements for relocated facilities, shall be borne by the applicant.
11. Any new, relocated, modified or reconstructed IID facilities required for and by the project (which can include but is not limited to electrical utility substations, electrical transmission and distribution lines, etc.) need to be included as part of the project's CEQA and/or NEPA documentation, environmental impact analysis and mitigation. Failure to do so will result in postponement of any construction and/or modification of IID facilities until such time as the environmental documentation is amended and environmental impacts are fully mitigated. **Any mitigation necessary as a result of the construction, relocation and/or upgrade of IID facilities is the responsibility of the project proponent.**
12. Dividing a project into two or more pieces and evaluating each piece in a separate environmental document (Piecemealing or Segmenting), rather than evaluating the whole of the project in one environmental document, is explicitly forbidden by CEQA, because dividing a project into a number of pieces would allow a Lead Agency to minimize the apparent environmental impacts of a project by evaluating individual pieces separately, each of which may have a less-than-significant impact on the environment, but which together may result in a significant impact. Segmenting a project may also hinder developing comprehensive mitigation strategies. In general, if an activity or facility is necessary for the operation of a project, or necessary to achieve the project objectives, or a reasonably foreseeable consequence of approving the project, then it should be considered an integral project component that should be analyzed within the environmental analysis. The project description should include all project components, including those that will have to be approved by responsible agencies. The State CEQA Guidelines define a project under CEQA as "the whole of the action" that may result either directly or indirectly in physical changes to the environment. This broad definition is intended to provide the maximum protection of the environment. CEQA case law has established general principles on project segmentation for different project types. For a project requiring construction of offsite infrastructure, the offsite infrastructure must be included in the project description. *San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus* (1994) 27 Cal.App. 4th 713.
13. Applicant should be advised that landscaping can be dangerous if items are planted too close to IID's electrical equipment. In the event of an outage, or equipment failure, it is vital that IID personnel have immediate and safe access to its equipment to make the needed repairs. For public safety, and that of the electrical workers, it is important to adhere to standards that limit landscaping around electrical facilities. IID landscaping guidelines are available at <https://www.iid.com/energy/vegetation-management>.

Gabriel Perez
October 20, 2021
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Should you have any questions, please do not hesitate to contact me at (760) 482-3609 or at dvargas@iid.com. Thank you for the opportunity to comment on this matter.

Respectfully,



Donald Vargas
Compliance Administrator II

Enrique B. Martinez – General Manager
Mike Pacheco – Manager, Water Dept.
Marilyn Del Bosque Gilbert – Manager, Energy Dept.
Constance Bergmark – Mgr. of Planning & Eng./Chief Elect. Engineer, Energy Dept.
Daryl Buckley – Mgr. of Distribution Svcs. & Maint. Optrns., Energy Dept.
Enrique De Leon – Asst. Mgr., Energy Dept., Distr., Planning, Eng. & Customer Service
Jamie Asbury – Assoc. General Counsel
Vance Taylor – Asst. General Counsel
Michael P. Kemp – Superintendent, Regulatory & Environmental Compliance
Laura Cervantes – Supervisor, Real Estate

WOODSPUR FARMS PV

5220 INDUSTRIAL WAY
COACHELLA, CA 92236

PHOTOVOLTAIC GENERAL NOTES

- ALL MATERIALS, EQUIPMENT, INSTALLATION AND WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - 2019 CBC
 - 2019 CEC
 - 2019 CMC
 - 2019 CPC
 - 2019 CFC
 - 2019 BUILDING ENERGY EFFICIENCY STANDARDS
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS AND THE MANUFACTURER'S INSTRUCTIONS, CEC 110.3(B)&(C), 690.4(B) AND 690.12(D).
- EXISTING PLUMBING VENTS, SKYLIGHTS, EXHAUST OUTLETS, VENTILATIONS INTAKE AIR OPENING SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250
- PV SYSTEM DC CIRCUIT AND INVERTER OUTPUT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED AGAINST OVERCURRENT [CEC 690.9(A)]
- RAPID SHUTDOWN EQUIPMENT TO PROVIDE CONTROLLED CONDUCTORS THAT ARE MORE THAN 3 FEET IN LENGTH INSIDE A BUILDING OR MORE THAN 1 FOOT FROM A PV ARRAY IN ALL DIRECTIONS LIMITATION TO NOT MORE THAN 30 VOLTS AND 240 VOLT-AMPERES WITHIN 30 SECONDS OF RAPID SHUTDOWN INITIATION, CEC 690.12
- 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 [CEC 705.40]
- MEANS SHALL BE PROVIDED TO DISCONNECT THE PV SYSTEM FROM ALL WIRING SYSTEMS INCLUDING POWER SYSTEMS, ENERGY STORAGE SYSTEMS, AND UTILIZATION EQUIPMENT AND ITS ASSOCIATED PREMISES WIRING. CEC 690.13.
- ALL CONDUCTORS EXPOSED TO WEATHER SHALL BE LISTED AND IDENTIFIED FOR USE IN DIRECT SUNLIGHT [NEC 690.31(C) THROUGH (G), 310.10(D)]
- THE MODULES CONDUCTORS MUST BE TYPE USE-2 OR LISTED FOR PHOTOVOLTAIC (PV) WIRE [NEC 690.31(C)]
- ALL CONDUCTORS SHALL BE MARKED ON EACH END FOR UNIQUE IDENTIFICATION [NEC 690.31(B)]
- ALL CONDUCTORS TO BE OF MATERIAL APPROVED BY THE CODE AND THEIR INSULATIONS TO BE RATED TO NOT LESS THAN 90°C 600VOLTS MINIMUM.
- INSULATION OF EXPOSED CONDUCTORS UNDER THE MODULES SHALL BE USE-2 OR PV-WIRE TYPE FOR GROUNDED DC SYSTEMS, CEC 690.31(C); AND PV-WIRE TYPE FOR UNGROUNDED DC SYSTEMS, (AS IN TRANSFORMERLESS INVERTERS OR MICROINVERTERS WITH ISOLATED GROUNDS)
- FINE-STRAINED CABLE CONNECTIONS MUST BE MADE IN LUGS AND TERMINALS LISTED AND MARKED FOR THE USE, CEC 110.14.
- ALL GROUNDED, (NEUTRAL), CONDUCTOR'S INSULATION SHALL BE SOLID WHITE, GRAY, OR WITH 3-WHITE STRIPES, CEC 200.6, 200.7, & 400.22; AND ALL GROUNDING CONDUCTORS SHALL BE OF BARE WIRE WITHOUT COVERING, OR WITH INSULATION OF GREEN OR GREEN WITH YELLOW STRIPES. [CEC 250.119 & 400.23] THE COLOR OF UNGROUNDED CONDUCTORS SHALL BE OTHER THAN FOR GROUNDED, (NEUTRAL), AND GROUNDING CONDUCTORS, [CEC 310.110(C)]
- MAXIMUM CONDUCTOR LENGTH BETWEEN SUPPLY SIDE CONNECTION AND OVERCURRENT PROTECTION IS 10 FEET, CEC 705.31.
- PV SYSTEM CONNECTED ON THE LOAD SIDE OF THE SERVICE DISCONNECTING MEANS OF THE OTHER SOURCE(S) AT ANY DISTRIBUTION EQUIPMENT ON THE PREMISES SHALL MEET THE FOLLOWING [CEC 750.12(B)]
 - EACH SOURCE CONNECTION SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OR FUSIBLE DISCONNECTING MEANS [CEC 705.12(B)(1)]
 - THE SUM OF THE AMPERE RATINGS OF THE OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO THE BUSBAR OR CONDUCTOR SHALL NOT EXCEED 100% OF THE RATING OF BUSBAR OR CONDUCTOR [CEC 705.12(B)(2)]
 - EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUS BAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES [CEC 705.12(B)(3)]
 - CIRCUIT BREAKER, IF BACKFEED, SHALL BE SUITABLE FOR SUCH OPERATION [CEC 705.12(B)(4)]
- FOR LOAD SIDE INTERCONNECTION THE PANELBOARD MAIN CIRCUIT BREAKER AND THE PV POWER SOURCE CIRCUIT BREAKER SHALL BE PHYSICALLY LOCATED AT THE OPPOSITE END OF THE BUSBAR [CEC 705.12(B)(3)(b)]
- DC WIRING INSIDE A BUILDING MUST BE IN METALLIC TYPE RACEWAYS, CONDUITS, ENCLOSURES, OR CABLE SHEATHINGS, CEC 690.31(c)
- RACEWAYS IN ENCLOSED PORTIONS OF THE BUILDING MUST RUN ALONG BOTTOM OF LOADBEARING MEMBERS, CRC R324.7.2.7.
- METALLIC TYPE RACEWAYS, CONDUITS, ENCLOSURES, AND CABLE SHEATHS CONTAINING CIRCUITS OVER 250-VOLTS TO GROUND MUST BE BONDED IN ACCORDANCE WITH CEC 250.97 & 290.92(B).
- FLEXIBLE, FINE-STRAINED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES OR CONNECTOR THAT ARE IDENTIFIED AND LISTED FOR SUCH USE, CEC 690.31(H) & 110.14.
- CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30VDC AND 15VAC SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING" [NEC 690.33(C) & (E)(2)]
- CABLES/WIRES THAT ARE SUBJECT TO PHYSICAL DAMAGE, SUCH AS THOSE NOT LOCATED UNDER THE MODULES, MUST BE PROTECTED, CEC 300.4.
- PROPOSED LOCATIONS OF THE ELECTRICAL SERVICE REPLACEMENTS MUST ALSO BE APPROVED BY THE ELECTRICAL UTILITY COMPANY.
- FOR ELECTRICAL SERVICE REPLACEMENTS, BONDING TO THE METAL PIPES OF NATURAL GAS, HOT WATER, AND COLD WATER MUST BE PROVIDED, CEC 250.104.
- GROUNDING ROD ELECTRODES SHALL BE INSTALLED 8 FEET MINIMUM IN CONTACT WITH SOIL, CEC 250.53(G)
- ALL EXTERIOR CONDUITS SHALL BE PAINTED TO MATCH THE COLOR OF THE SURROUNDING AREA (ROOF, SIDING, AND STUCCO)

- THE ROOF MOUNTED PHOTOVOLTAIC MODULES, PANELS OR SOLAR VOLTAIC ROLL ROOFING MATERIAL SHALL HAVE THE SAME OR BETTER LISTED FIRE-RESISTANCE RATING THAN THE BUILDING ROOF-COVERING MATERIAL
- REMOVAL OF A UTILITY-INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PHOTOVOLTAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTOR
- EQUIPMENT GROUNDING CONDUCTOR FOR PV MODULES SMALLER THAN 6 AWG SHALL BE PROTECTED FROM PHYSICAL DAMAGE BY A RACEWAY OR CABLE ARMOR [CEC 690.46 & 250.120(C)]
- AVERAGE SOLAR CONSUMPTION IS NOT TO EXCEED 120% OF AVERAGE ANNUAL CONSUMPTION
- THIS PROJECT SHALL COMPLY WITH ALL THE LATEST APPLICABLE NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS [NEC ARTICLES 690 AND 705], NEC REQUIREMENTS, STATE OF CALIFORNIA REQUIREMENTS, BUILDING CODES, AND SHALL OBTAIN ELECTRICAL PERMIT(S) FOR THE EQUIPMENT INSTALLATION
- WORKING CLEARANCES AROUND THE EXISTING ELECTRICAL EQUIPMENT AS WELL AS THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH CEC 110.26.
- THE PHOTOVOLTAIC INVERTER WILL BE LISTED AS UL 1741 COMPLIANT. (CEC 690.4(B))
- ADEQUATE SPACING MUST BE MAINTAINED BETWEEN ANY PLUMBING SEWER VENTS EXTENDING THROUGH THE ROOF AND THE UNDERSIDE OF THE PHOTOVOLTAIC PANELS (6" MINIMUM RECOMMENDED).
- ALL PHOTOVOLTAIC OUTPUT CIRCUITS OPERATING ABOVE 30 VOLTS SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS AND IN ELECTRICAL RACEWAYS. [CEC 690.31 (A)]
- ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS. (CEC 250.90, 250.96)
- GROUNDED DC PHOTOVOLTAIC ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION MEETING THE REQUIREMENTS OF 690.5(A) THROUGH (C). UNGROUNDED DC PHOTOVOLTAIC ARRAYS SHALL COMPLY WITH 690.35. (CEC 690.5)

ABBREVIATIONS

| | | | | | |
|---|-----------|--------------------------------|--------|--------|----------------------------|
| A | A.B.V. | ABOVE | N | N.I.U. | NOT IN USE |
| | A-C | AIR CONDITIONER | | N.T.S. | NOT TO SCALE |
| | AC | ALTERNATING CURRENT | | N.F.C. | NOT FOR CONSTRUCTION |
| | A.F.G. | ABOVE FINISHED GRADE | N | OR (N) | NEW |
| B | B.L. | BUILDING LINE | NO | | NUMBER |
| | BLDG | BUILDING | N.O. | | NORMALLY OPEN |
| C | CSMNT | CASEMENT | N.C. | | NORMALLY CLOSED |
| | CEM | CEMENT | O | O.C. | ON CENTER |
| | C.L. | CENTER LINE | | O.H. | OVERHEAD |
| | COL | COLUMN | P | | PROPERTY LINE |
| | CONT | CONTINUOUS | P.S.F. | | POUNDS PER SQUARE FOOT |
| | CONC | CONCRETE | P.S.I. | | POUNDS PER SQUARE INCH |
| D | DIA | DIAMETER | PVC | | POLYVINYL CHLORIDE |
| | DIM | DIMENSION | PWR | | POWER |
| | EA | EACH | Q | | QUANTITY |
| E | ELEV | ELEVATION | R | RAC | ROOF AIR CONDITIONING UNIT |
| | EQUIP | EQUIPMENT | | RAD | RADIUS |
| | E. OR (E) | EXISTING | | R.D. | ROOF DRAIN |
| | EXT | EXTERIOR | | R.V. | ROOF VENT |
| | GA | GAUGE | | RSL | ROOF SKYLIGHT |
| G | GALV | GALVANIZED | | RSH | ROOF SMOKE HATCH |
| | GAR | GARAGE | | RAH | ROOF ACCESS HATCH |
| | G.F.C.I. | GROUND FAULT CIRCUIT INTERRUPT | | REF | REFERENCE |
| | G.F.I. | GROUND FAULT INTERRUPT | S | SPECS | SPECIFICATIONS |
| | GYP | GYPSUM | | SHT | SHEET |
| | J-BOX | JUNCTION BOX | | SQ.FT. | SQUARE FOOT- FEET |
| J | JST | JOIST | | SQ.IN. | SQUARE INCH-INCHES |
| K | K.O. | KNOCK OUT | | STD | STANDARD |
| M | MECH | MECHANICAL | | SYS | SYSTEM |
| | MTL | METAL | | TYP | TYPICAL |
| | | | V | V.I.F. | VERIFY IN FIELD |

SYSTEM INFORMATION

SYSTEM 1:
SYSTEM SIZE DC STC: 630.80 KW
SYSTEM SIZE AC CEC: 581.05 KW
SOLAR MODULES: (1328) TRINA TSM-4750E15V(H)
INVERTER(S): (8) CPS SCA60TL-DO/US-480
MOUNTING SYSTEM: OMCO SOLAR MOUNT

SYSTEM 2:
SYSTEM SIZE DC STC: 975.65 KW
SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-4750E15V(H)
INVERTER(S): (13) CPS SCA60TL-DO/US-480
MOUNTING SYSTEM: OMCO SOLAR MOUNT

SYSTEM 3:
SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(H)
INVERTER(S): (10) CPS SCA60TL-DO/US-480
MOUNTING SYSTEM: OMCO SOLAR MOUNT

SCOPE OF WORK

INSTALLING:
(4996) ROOF MOUNTED PHOTOVOLTAIC MODULES
(31) CPS SCA60TL-DO/US-480 INVERTER(S)
OMCO SOLAR MOUNT

LEGAL DESCRIPTION

| | MAIN BUILDINGS | GROUND/MOUNT |
|--------------------|---------------------|---------------------|
| AIN: | 763-400-021 | 763-400-021 |
| SITUS ADDRESS: | 5220 INDUSTRIAL WAY | 5220 INDUSTRIAL WAY |
| OCCUPANCY USE: | F | U |
| CONSTRUCTION TYPE: | III, SPRINKLERED | |
| STORIES: | 1 | |
| BOOK: | 763 | 763 |
| PAGE: | 400 | 400 |
| LOT: | 021 | 021 |

VICINITY MAP



CITY APPROVAL STAMPS

CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

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SIGNATURE _____ DATE _____ STATE LICENSE NO. _____
1038433 / A, B, C10, C46

PROJECT LOCATION:
WOODSPUR FARMS PV
5220 INDUSTRIAL WAY
COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

| NO. | DATE | DESCRIPTION | ELECT. | STRUC. |
|-----|-----------|------------------|--------|--------|
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| | 9/9/2021 | 2ND REVISIONS | A.L. | -- |
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SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
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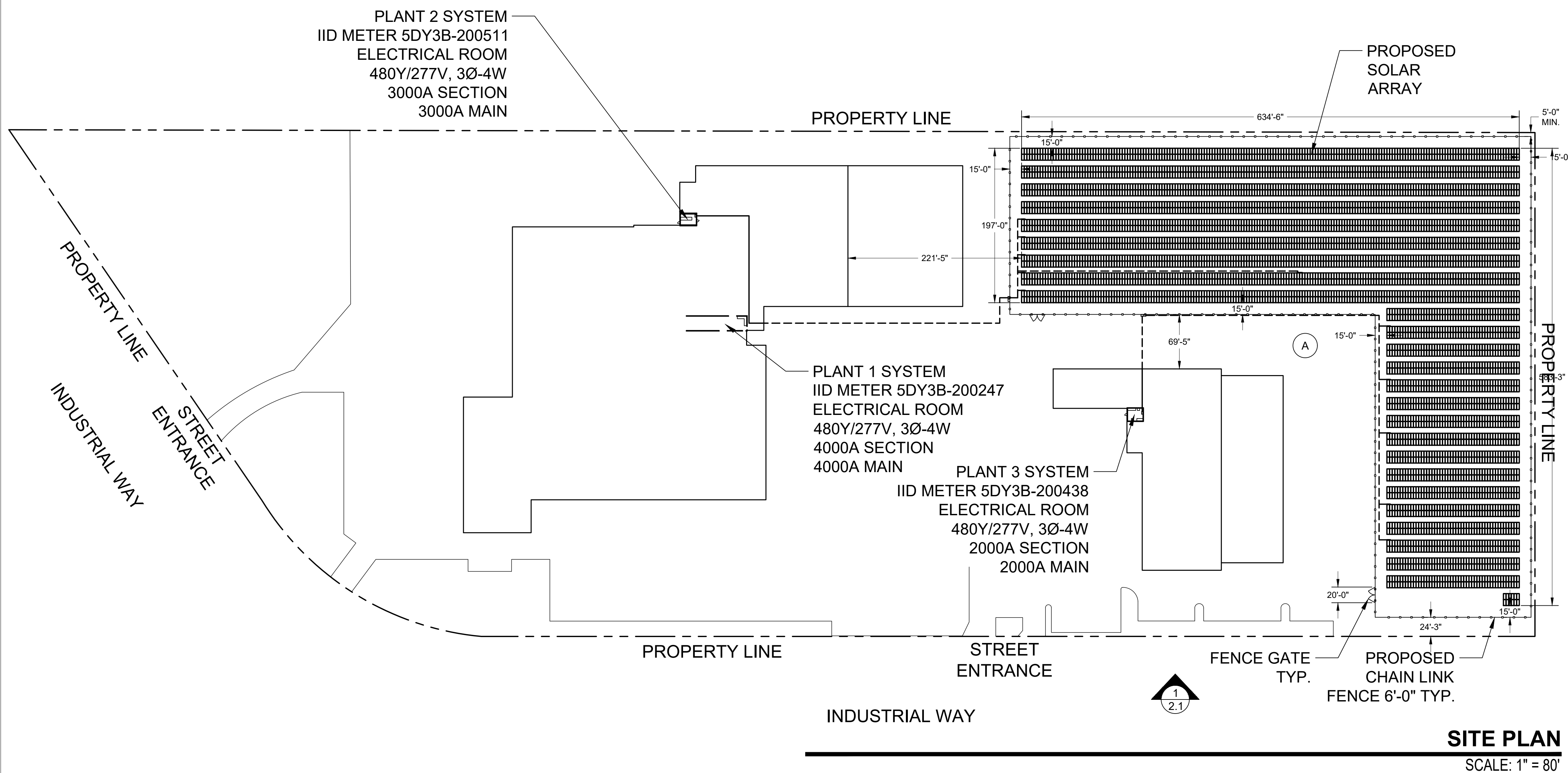
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SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(H)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

COVER PAGE

PV 1



SITE PLAN

SCALE: 1" = 80'

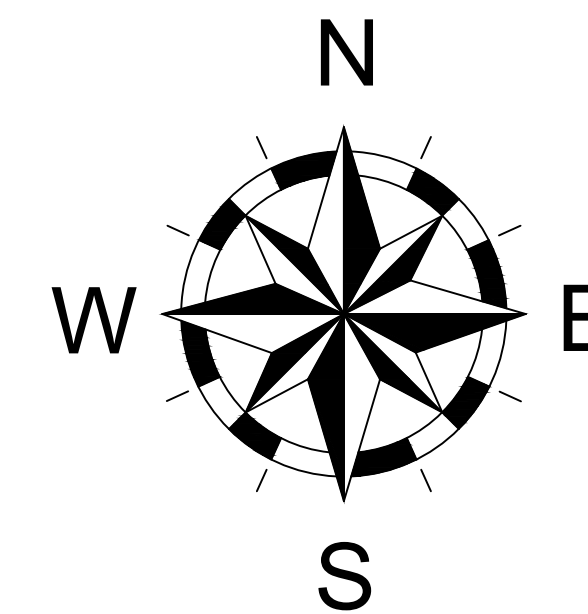
| ARRAY INFORMATION | |
|-------------------|----------------|
| ARRAY | Ⓐ |
| ARRAY TILT | 20° |
| STRUCTURE INFO | SEE S-1 |
| MODULE COUNT | 4996 |
| MODULE AREA | 126477.5SQ.FT. |
| ARRAY AZIMUTH | 180° |

SITE NOTES

- 1 PHOTOVOLTAIC SYSTEMS SHALL BE MARKED TO IDENTIFY THE MAIN ELECTRICAL SERVICE DISCONNECT. MATERIALS USED FOR MARKING SHALL BE WEATHER RESISTANT AND MEET UL 969 AS THE STANDARD FOR WEATHER RATING.
- 2 THE MAIN ELECTRICAL SERVICE DISCONNECT MARKING SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT IN A LOCATION CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED, FOR COMMERCIAL AND INDUSTRIAL BUILDINGS.
- 3 PHOTOVOLTAIC CIRCUIT MARKING SHALL BE PLACED ON ALL INTERIOR AND EXTERIOR PHOTOVOLTAIC DC CIRCUIT CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES. MARKINGS SHALL BE PLACED EVERY 10 FEET, AT TURNS, ABOVE AND/OR BELOW PENETRATIONS, AND AT ALL PHOTOVOLTAIC CIRCUIT COMBINER AND JUNCTION BOXES.
- 4 SOLAR PHOTOVOLTAIC POWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 605.11.1 THROUGH 605.11.2, THE CALIFORNIA BUILDING CODE, OR CALIFORNIA RESIDENTIAL CODE, AND CALIFORNIA ELECTRICAL CODE.

FIRE NOTES: (CHAPTER 12 OF CALIFORNIA FIRE CODE)

- 5 1204.4 - GROUND-MOUNTED PHOTOVOLTAIC ARRAYS SHALL COMPLY WITH SECTION 1204.1 AND THIS SECTION. SETBACK REQUIREMENTS SHALL NOT APPLY TO GROUND-MOUNTED, FREE-STANDING PHOTOVOLTAIC ARRAYS. A CLEAR, BRUSH-FREE AREA OF 10 FEET (3048 mm) SHALL BE REQUIRED FOR GROUND-MOUNTED PHOTOVOLTAIC ARRAYS.



CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

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| 9/1/2021 | 9/1/2021 | 1ST CORRECTIONS | A.L. | -- |
| 9/9/2021 | 9/9/2021 | 2ND REVISIONS | A.L. | -- |

SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
SOLAR MODULES: (4996) TRINA TSM-475DE15V(I)
INVERTER(S): (31) CPS SCA60TL-DO/US-480

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SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-475DE15V(I)
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:
SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SITE PLAN

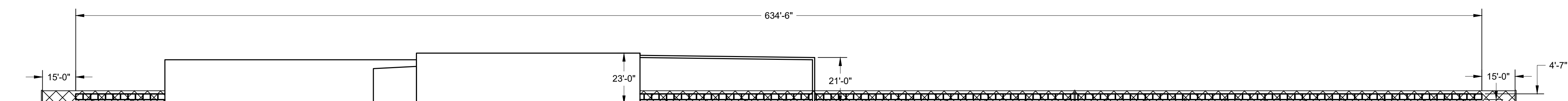
PV 2.0

CONTRACTOR

REVEL-ENERGY, INC.
 2323 MAIN ST.
 IRVINE, CA 92614
 CSLB #: 1038433 / A, B, C10, C46
 (949) 281-7171

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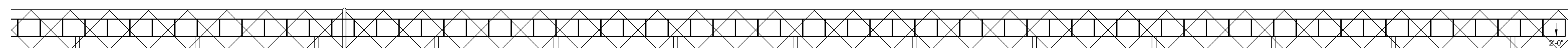
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|-----------|------|--------------------------|
| SIGNATURE | DATE | STATE LICENSE NO. |
| | | 1038433 / A, B, C10, C46 |



ELEVATION DETAIL

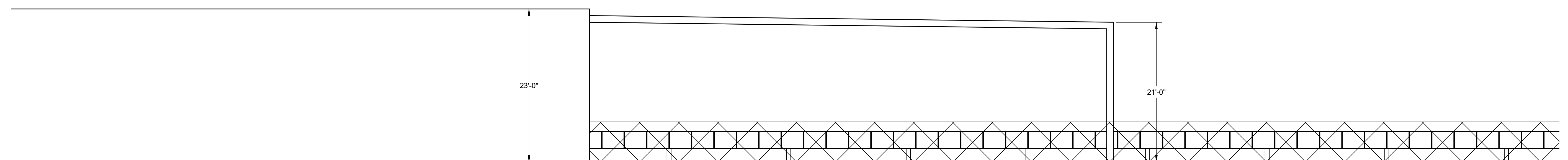
SCALE: 1" = 30'

1



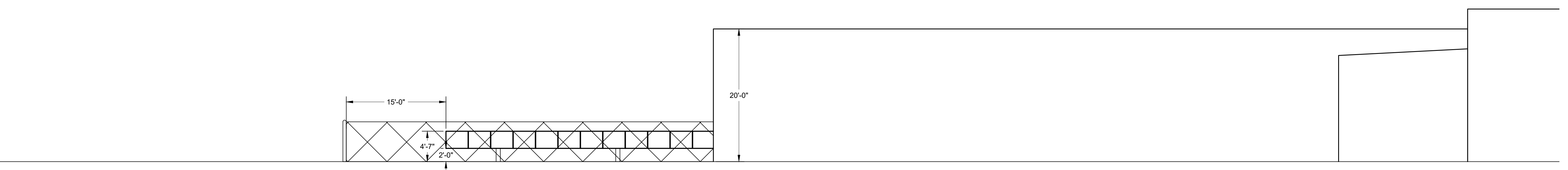
RIGHT SIDE ELEVATION DETAIL

SCALE: 1/8" = 1'-0"



CENTRAL ELEVATION DETAIL

SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION DETAIL

SCALE: 1/8" = 1'-0"

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SYSTEM INFO:

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SYSTEM (PLANT) 3:
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 SYSTEM SIZE AC CEC: 706.18 KW
 SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

ELEVATION DETAIL

PV 2.1

CONTRACTOR

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SYSTEM INFO:

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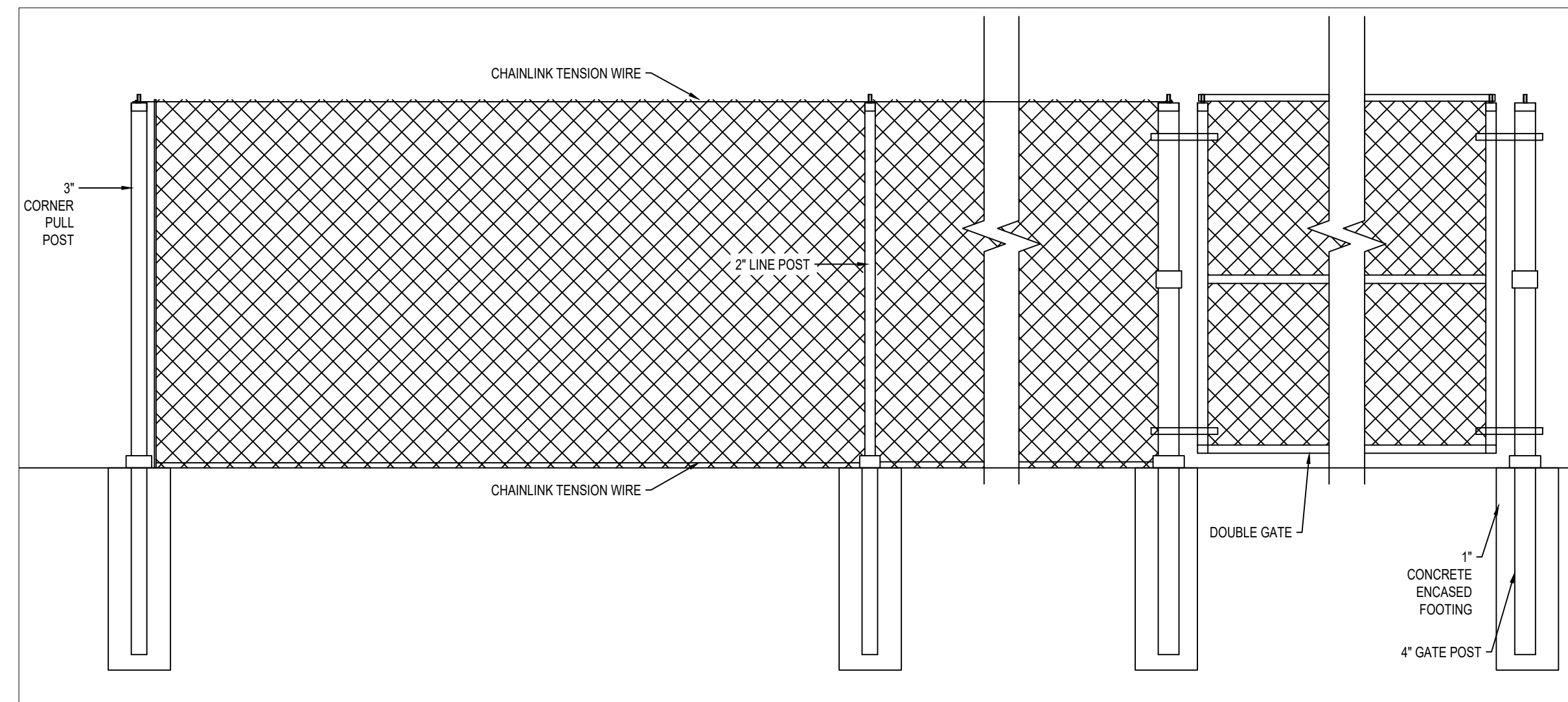
SYSTEM (PLANT) 3:

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SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

ELEVATION DETAIL

PV 2.2



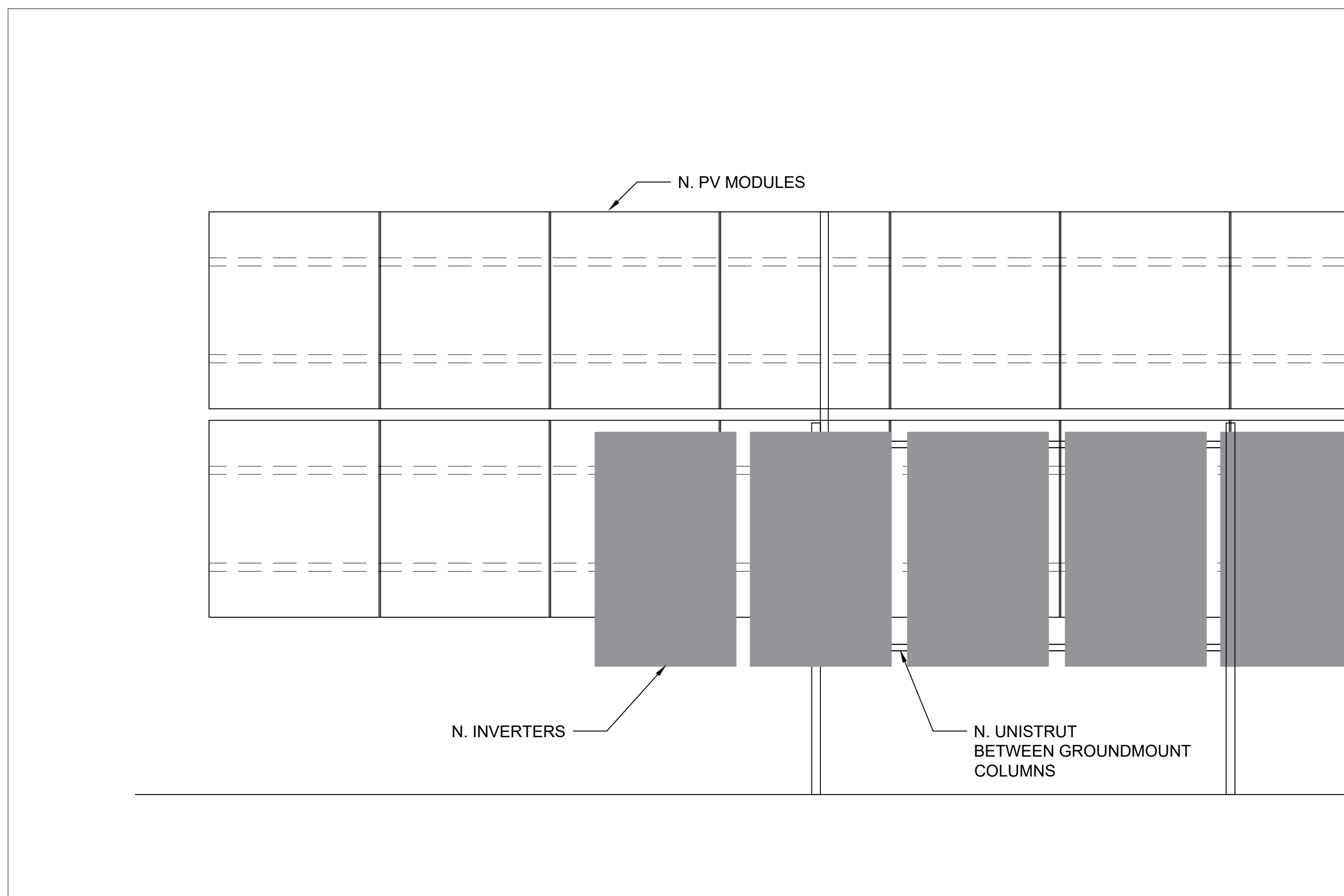
FENCE DETAIL TYP

SCALE: 1/2" = 1'-0"

FENCE NOTES:

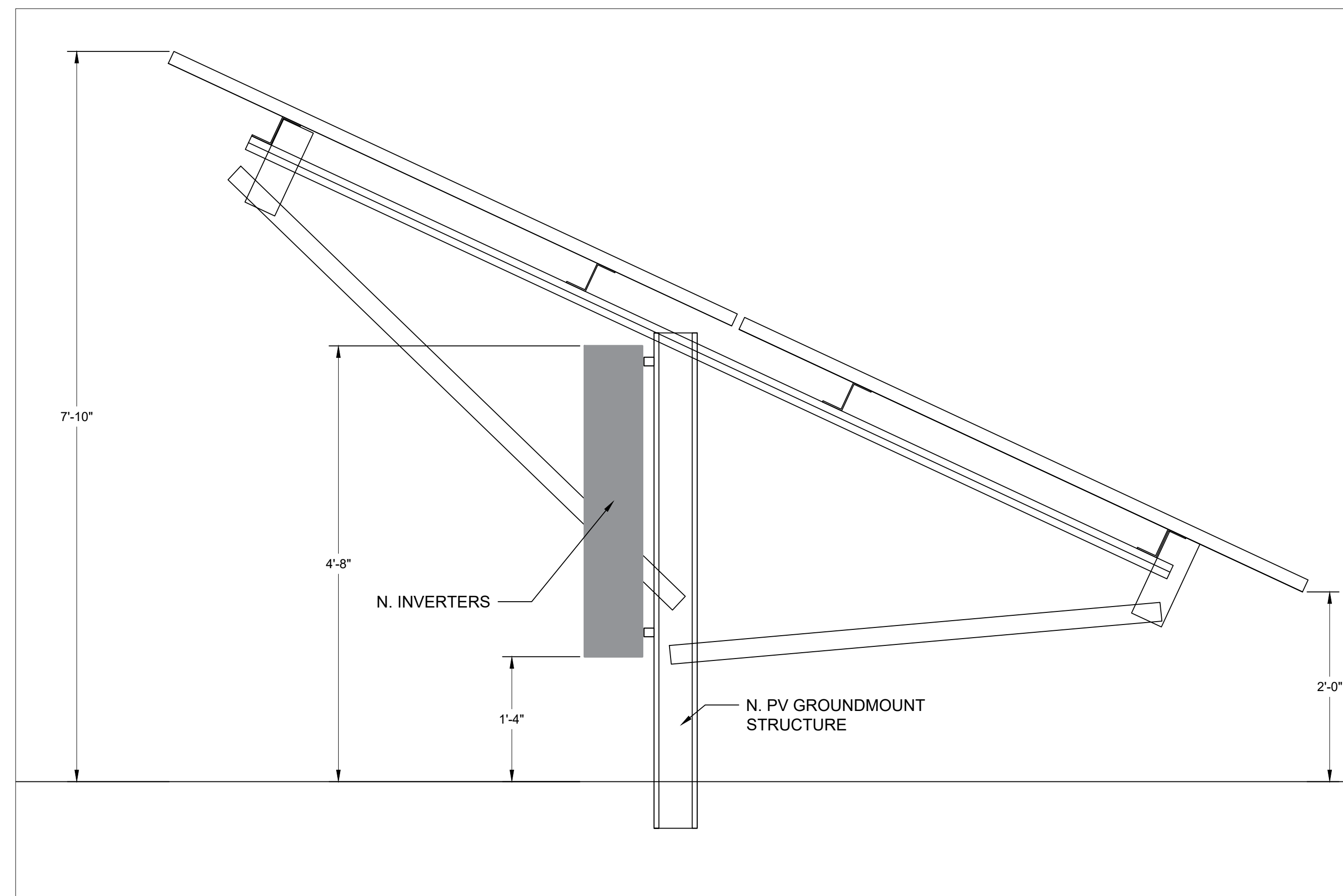
- BONDING JUMPERS ARE REQUIRED AT EACH FENCE CORNER AND AT MAXIMUM 160 FT. INTERVALS ALONG THE FENCE.
- BONDING JUMPERS ARE REQUIRED ON EACH SIDE OF THE CROSSING WHERE BARE OVERHEAD CONDUCTORS CROSS THE FENCE.
- GATES MUST BE BONDED TO THE GATE SUPPORT POST, AND EACH GATE SUPPORT POST MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
- ANY GATE OR OTHER OPENING IN THE FENCE MUST BE BONDED ACROSS THE OPENING BY A BURIED BONDING JUMPER.
- THE GROUNDING GRID OR GROUNDING ELECTRODE SYSTEMS SHALL BE EXTENDED TO COVER THE SWING OF ALL GATES.
- THE BARBED WIRE STRANDS ABOVE THE FENCE MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.

SEE PV5 FOR GROUNDING DETAILS



TYP. INVERTER ELEVATION VIEW

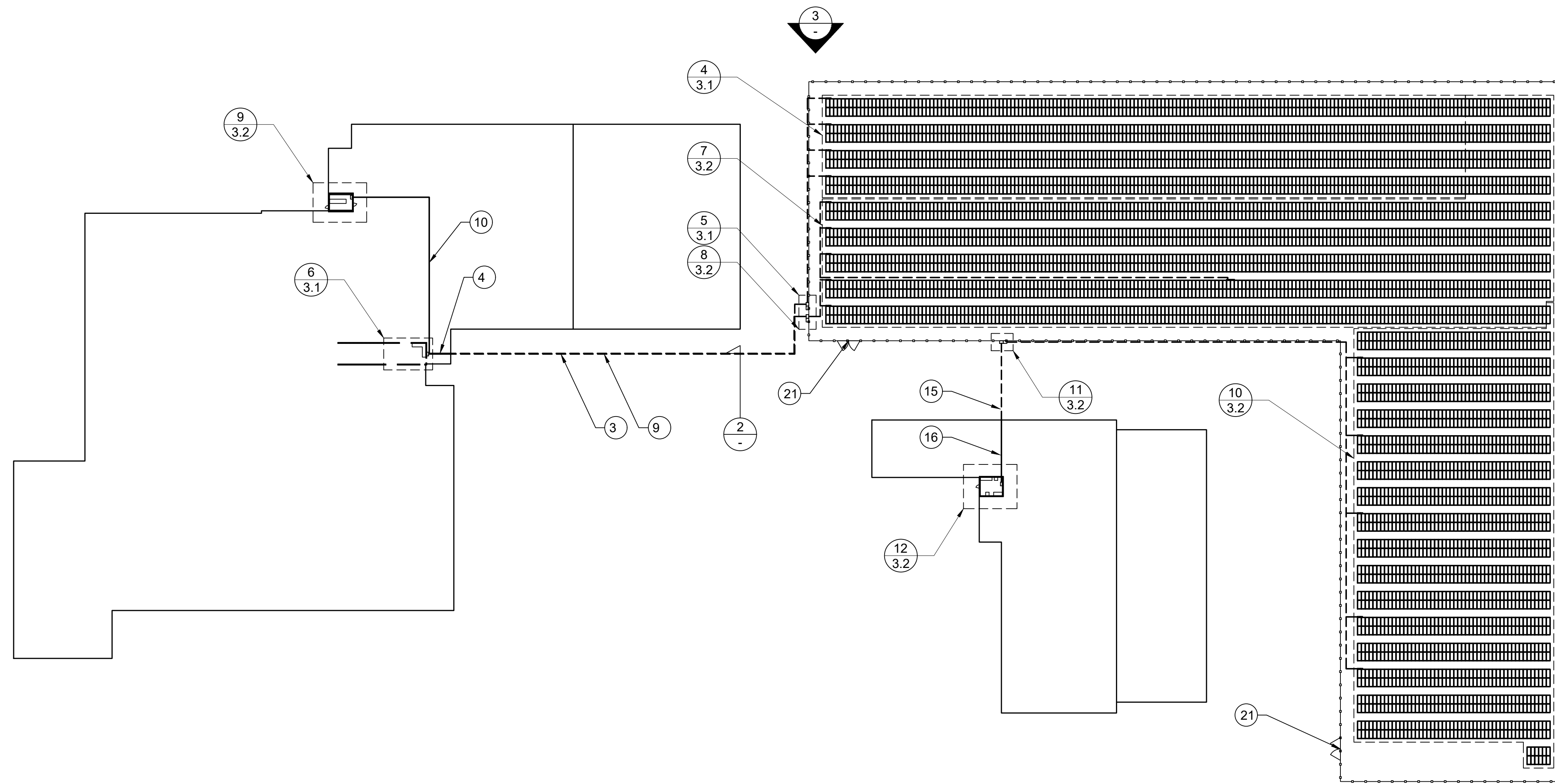
* NOTE: THIS DETAIL IS FOR INVERTER MOUNT REFERENCE ONLY SCALE: 1:16



TYP. INVERTER ELEVATION VIEW

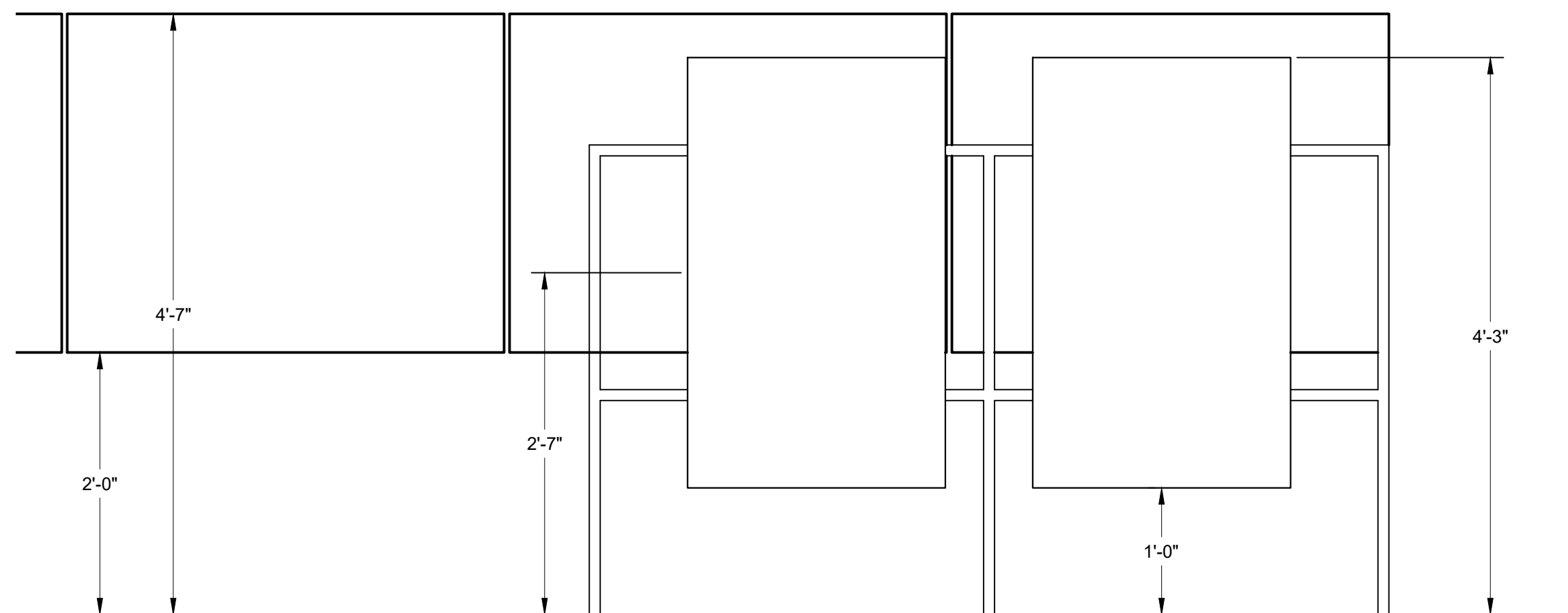
* NOTE: THIS DETAIL IS FOR INVERTER MOUNT REFERENCE ONLY SCALE: 1" = 1'-0"

SEE PV 5 FOR FENCE GROUNDING DETAILS



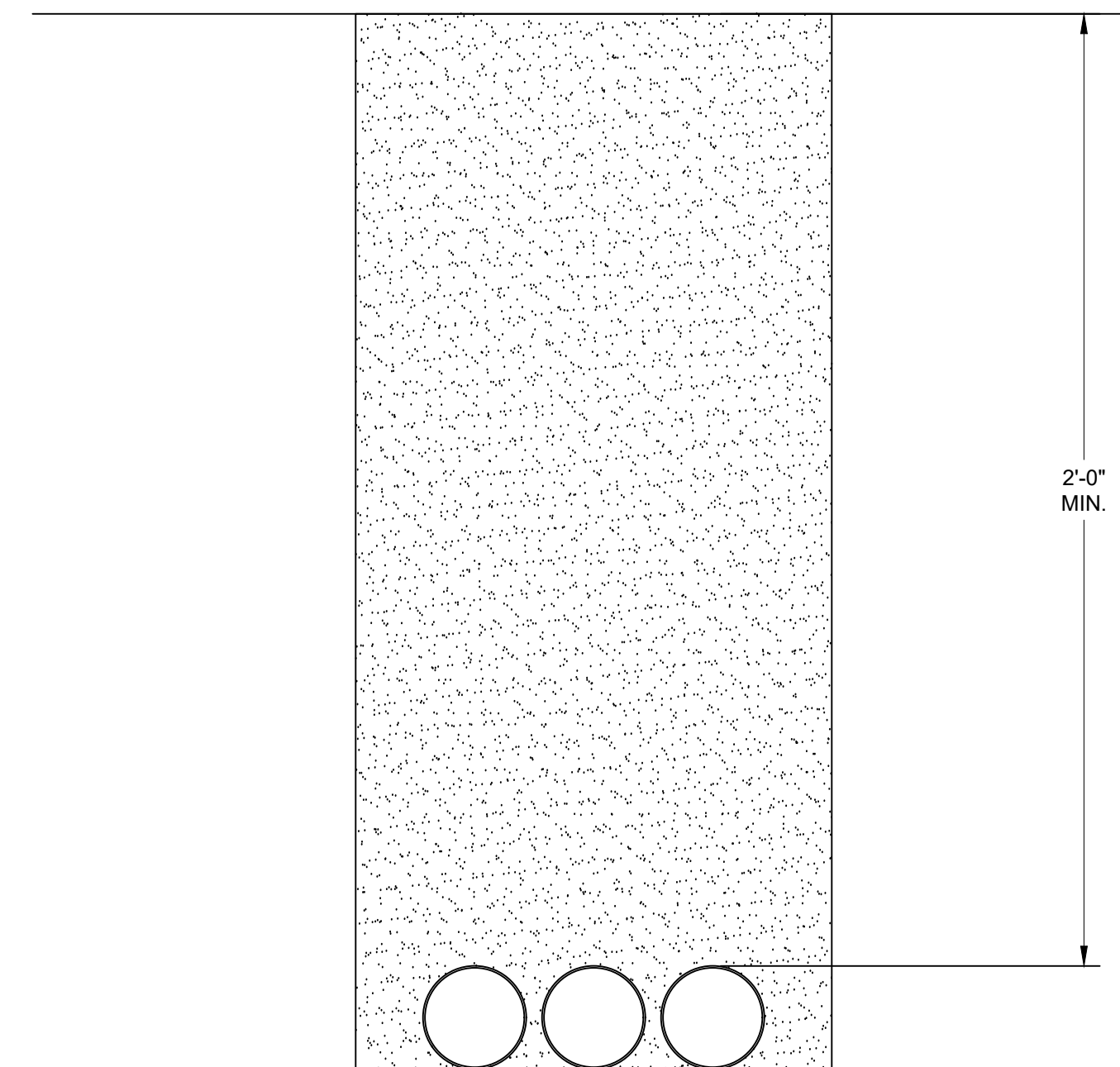
PLOT PLAN

SCALE: 1/64" = 1'-0"



TYP. INVERTER ELEVATION

SCALE: 1" = 1'-0"



TYP. TRENCH DETAIL

SCALE: 3" = 1'-0"

PLAN LEGEND

- ① E. SYSTEM 1 IID METER 5DY3B-200247
4000A 480Y/277V 3P-4W SWITCHGEAR.
INTERIOR. PAD MOUNTED.
- ② N. 800A 600V 3P/4W NON-FUSED PHOTOVOLTAIC
AC DISCONNECT. INTERIOR. WALL MOUNTED.
SYSTEM DISCONNECT 1 OF 2.
- ③ N. UNDERGROUND PVC SCH40 TO ROOFTOP EMT.
SEE PV4.0 FOR WIRE SCHEDULE.
- ④ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.0
FOR WIRE SCHEDULE.
- ⑤ N. 800A 480Y/277V PV COMBINER SWITCHGEAR W/
RPU METER SOCKET SYSTEM.
DISCONNECT 2 OF 2
- ⑥ N. SCA60TL-DO/US-480 PV INVERTERS.
OUTDOOR RATED W/INTEGRATED DC & AC
DISCONNECTS. ARRAY MOUNTED.
- ⑦ E. SYSTEM 2 IID METER 5DY3B-200511
3000A 480Y/277V 3P-4W SWITCHGEAR.
INTERIOR. PAD MOUNTED.
- ⑧ N. 1600A 600V 3P/4W FUSED PHOTOVOLTAIC AC
DISCONNECT. 1600A FUSES. INTERIOR. WALL
MOUNTED.
SYSTEM DISCONNECT 1 OF 2.
- ⑨ N. UNDERGROUND PVC SCH40. SEE PV4.1 FOR WIRE
SCHEDULE.
- ⑩ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.1
FOR WIRE SCHEDULE.
- ⑪ N. 1600A 480Y/277V PV COMBINER SWITCHGEAR
W/ RPU METER SOCKET.
SYSTEM DISCONNECT 2 OF 2.
- ⑫ N. SCA60TL-DO/US-480 PV INVERTERS.
OUTDOOR RATED W/INTEGRATED DC & AC
DISCONNECTS. ARRAY MOUNTED.
- ⑬ E. SYSTEM 3 IID METER 5DY3B-200438
3000A 480Y/277V 3P-4W SWITCHGEAR.
INTERIOR. PAD MOUNTED.
- ⑭ N. 1200A 600V 3P/4W FUSED PHOTOVOLTAIC AC
DISCONNECT. 1000A FUSES. INTERIOR. WALL
MOUNTED.
SYSTEM DISCONNECT 1 OF 2.
- ⑮ N. UNDERGROUND PVC SCH40. SEE PV4.2 FOR
WIRE SCHEDULE.
- ⑯ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.2
FOR WIRE SCHEDULE.
- ⑰ N. 1200A 480Y/277V PV COMBINER SWITCHGEAR
W/ RPU METER SOCKET.
SYSTEM DISCONNECT 2 OF 2.
- ⑱ N. SCA60TL-DO/US-480 PV INVERTERS.
OUTDOOR RATED W/INTEGRATED DC & AC
DISCONNECTS. ARRAY MOUNTED.
- ⑲ N. ARRAY "A". 4410 MODULES MOUNTED ON
STRUCTURE.
- ⑳ N. FENCELINE AROUND ARRAY "A". 15'
CLEARANCE FROM ARRAY.
- ㉑ N. FENCE GATE.

- S1** ——— DENOTES SYSTEM NUMBER
- I1** ——— DENOTES INVERTER NUMBER
- S1** ——— DENOTES STRING NUMBER
- PHOTOVOLTAIC MODULE

CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

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SIGNATURE _____ DATE _____ STATE LICENSE NO. 1038433 / A, B, C10, C46

PROJECT LOCATION:
WOODSPUR FARMS PV
5220 INDUSTRIAL WAY
COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

| NO. | DATE | DESCRIPTION | ELECT. | STRUC. |
|-----------|------------------|-------------|--------|--------|
| 7/27/2021 | INITIAL PLAN SET | A.L. | -- | -- |
| 8/18/2021 | 1ST REVISIONS | A.L. | -- | -- |
| 9/1/2021 | 1ST CORRECTIONS | A.L. | -- | -- |
| 9/9/2021 | 2ND REVISIONS | A.L. | -- | -- |
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SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
SOLAR MODULES: (4996) TRINA TSM-4750E15V(I)
INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:
SYSTEM SIZE DC STC: 630.80 KW
SYSTEM SIZE AC CEC: 581.05 KW
SOLAR MODULES: (1328) TRINA TSM-4750E15V(I)
INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:
SYSTEM SIZE DC STC: 975.65 KW
SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-4750E15V(I)
INVERTER(S): (13) CPS SCA60TL-DO/US-480

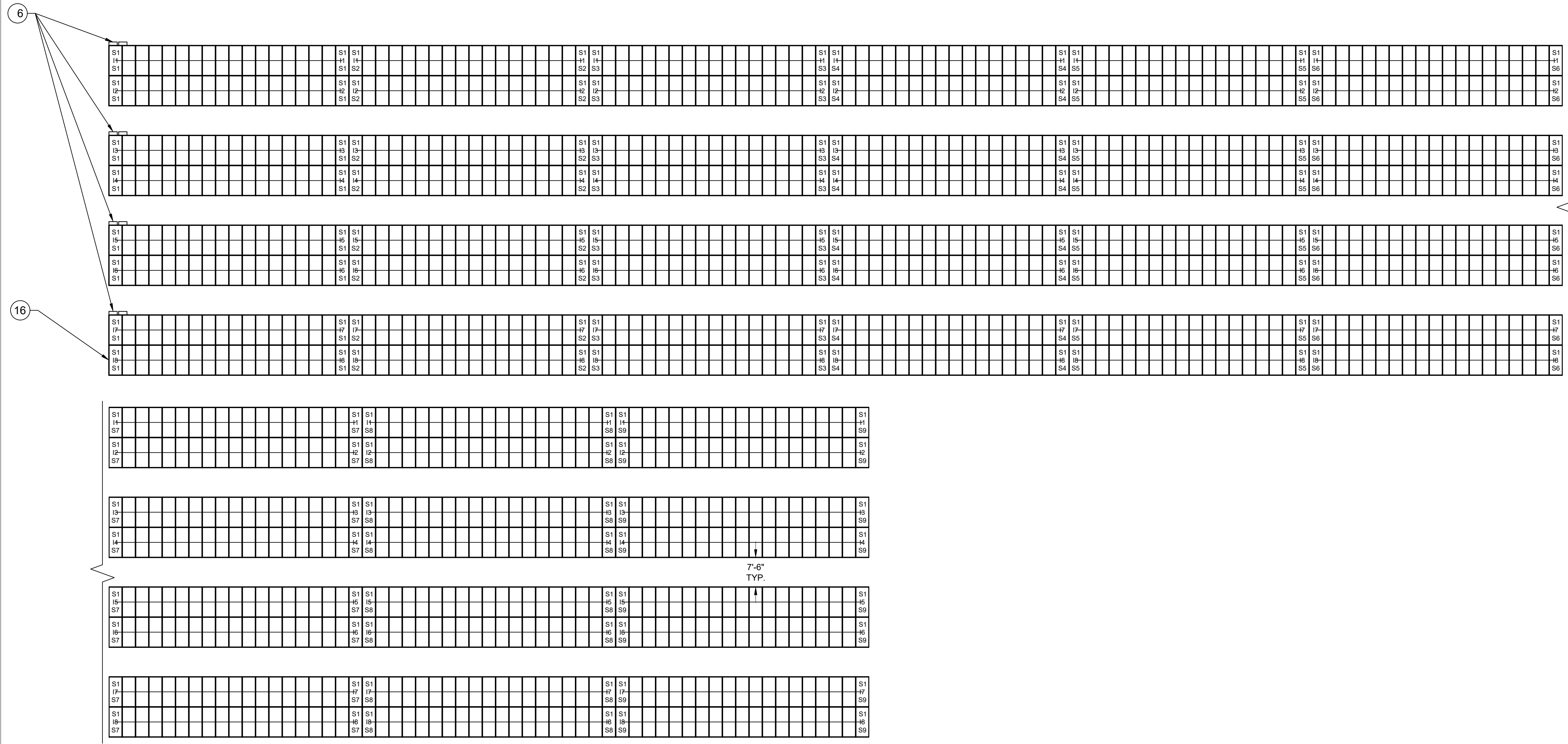
SYSTEM (PLANT) 3:
SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

PLOT PLAN

PV 3.0

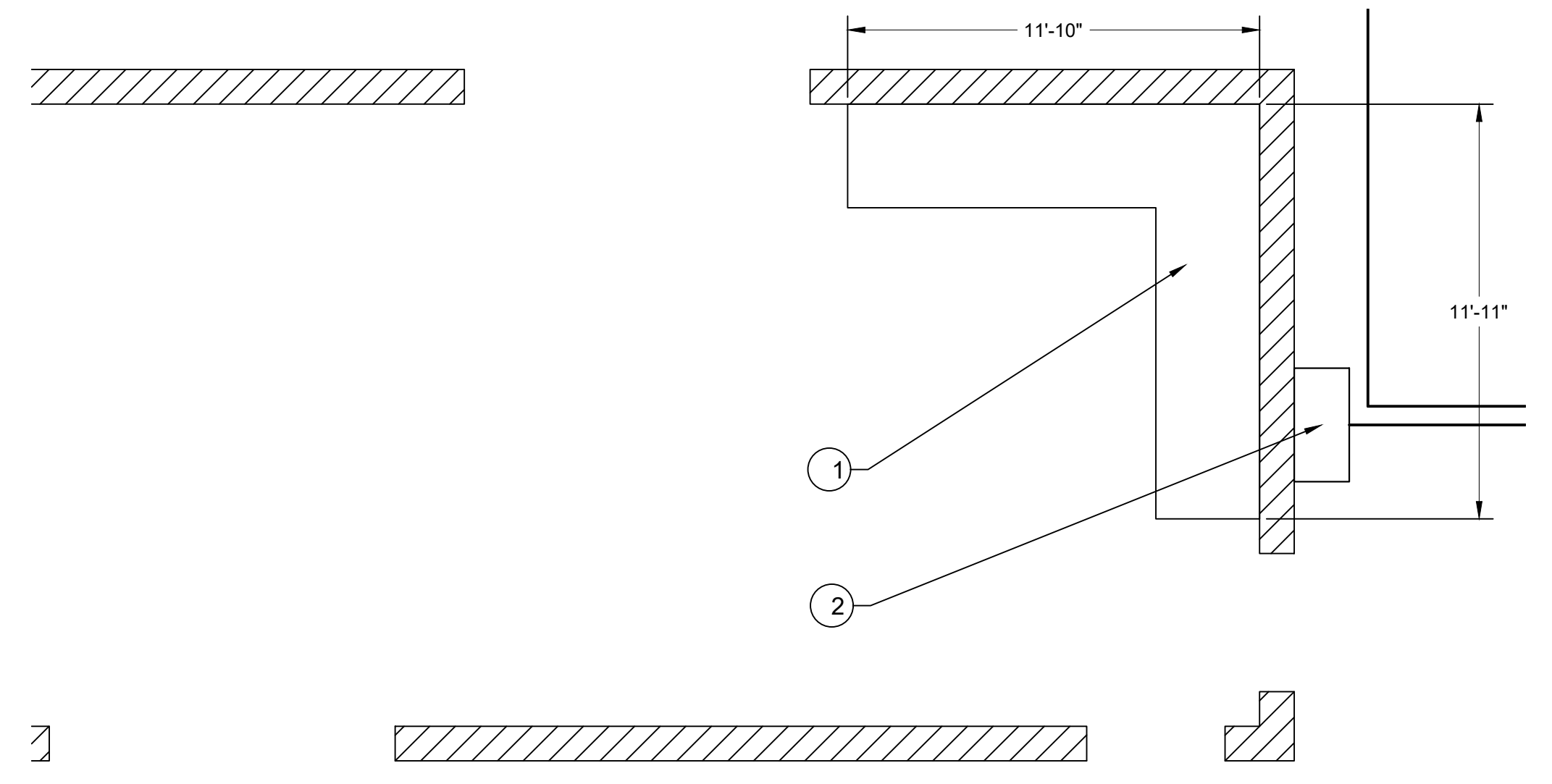




SYSTEM 1 ARRAY PLAN

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

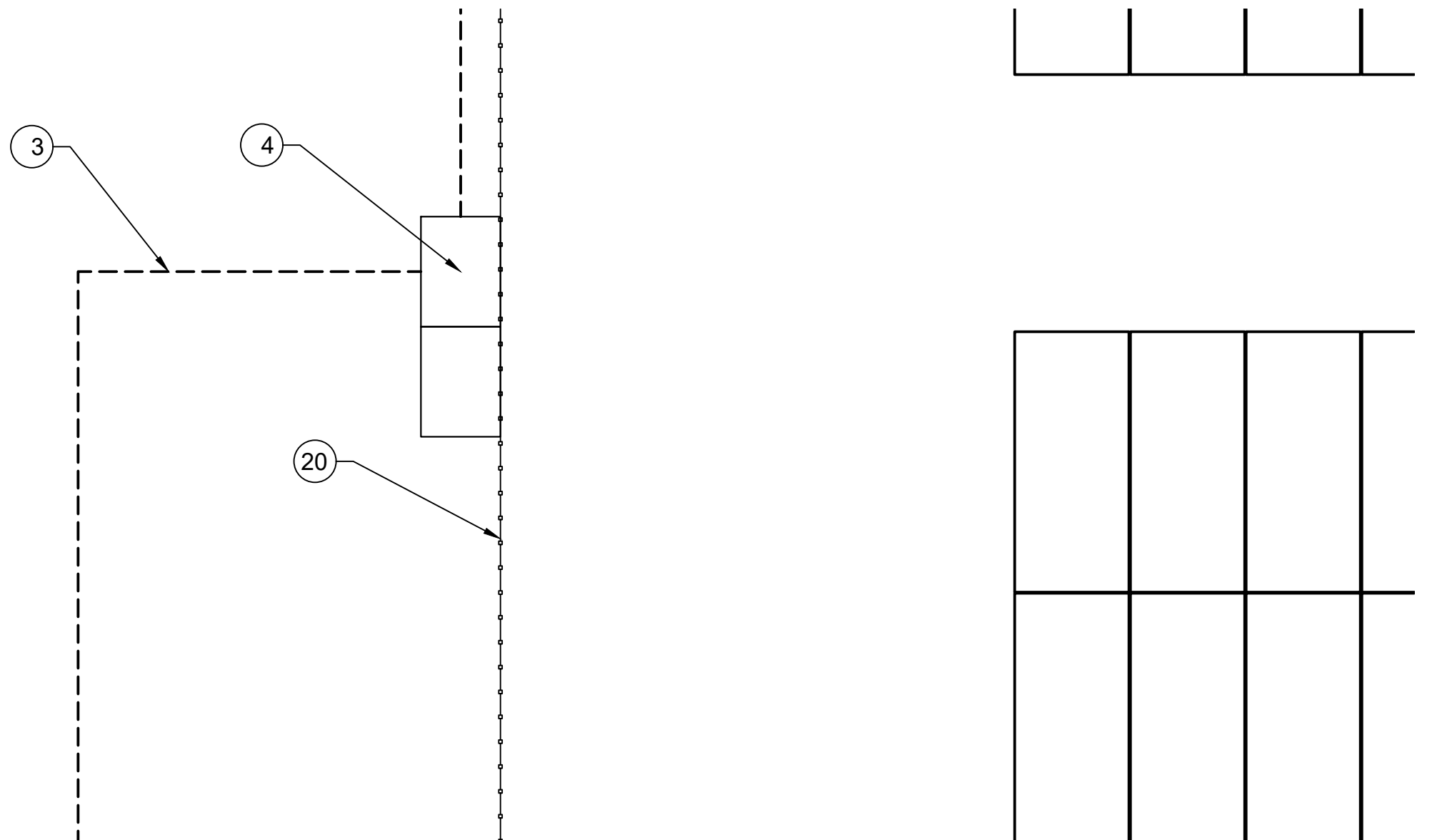
4



SYSTEM 1 ELECTRICAL ROOM

SCALE: 1/4" = 1'-0"

6



SYSTEM 1 ELECTRICAL EQUIPMENT

SCALE: 1/4" = 1'-0"

5

PLAN LEGEND

- ① E. SYSTEM 1 IID METER 5DY3B-200247
4000A 480Y/277V 3P-4W SWITCHGEAR.
INTERIOR, PAD MOUNTED.
- ② N. 800A 600V 3P/4W NON-FUSED PHOTOVOLTAIC
AC DISCONNECT. INTERIOR, WALL MOUNTED.
SYSTEM DISCONNECT 1 OF 2.
- ③ N. UNDERGROUND PVC SCH40 TO ROOFTOP EMT.
SEE PV4.0 FOR WIRE SCHEDULE.
- ④ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.0
FOR WIRE SCHEDULE.
- ⑤ N. 800A 480Y/277V PV COMBINER SWITCHGEAR W/
RPU METER SOCKET SYSTEM.
DISCONNECT 2 OF 2
- ⑥ N. SCA60TL-DO/US-480 PV INVERTERS.
OUTDOOR RATED W/INTEGRATED DC & AC
DISCONNECTS. ARRAY MOUNTED.

CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

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ARCH D (24" X 36") PRINT PAPER SIZE

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| 9/1/2021 | 9/1/2021 | 1ST CORRECTIONS | A.L. | -- |
| 9/9/2021 | 9/9/2021 | 2ND REVISIONS | A.L. | -- |

SYSTEM INFO:

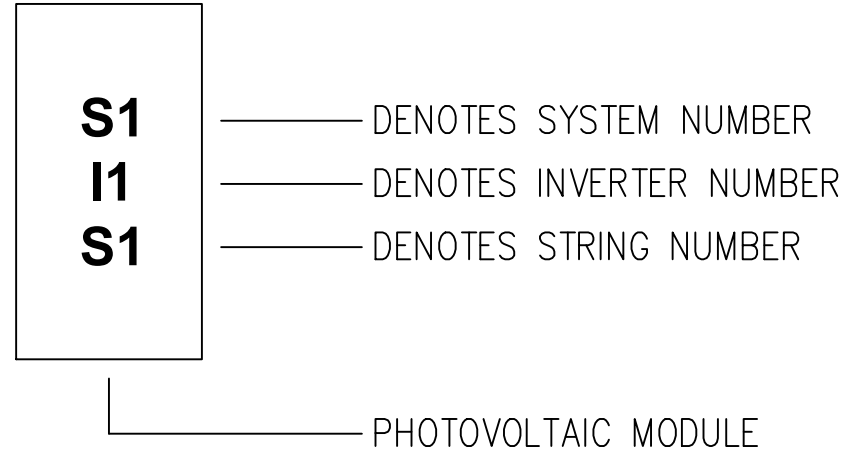
TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
SOLAR MODULES: (4995) TRINA TSM-4750E15V(II)
INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:
SYSTEM SIZE DC STC: 630.80 KW
SYSTEM SIZE AC CEC: 581.05 KW
SOLAR MODULES: (1328) TRINA TSM-4750E15V(II)
INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:
SYSTEM SIZE DC STC: 975.65 KW
SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-4750E15V(II)
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:
SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(II)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

- ⑱ N. ARRAY "A". 4410 MODULES MOUNTED ON STRUCTURE.
- ⑳ N. FENCELINE AROUND ARRAY "A". 15' CLEARANCE FROM ARRAY.
- ㉑ N. FENCE GATE.

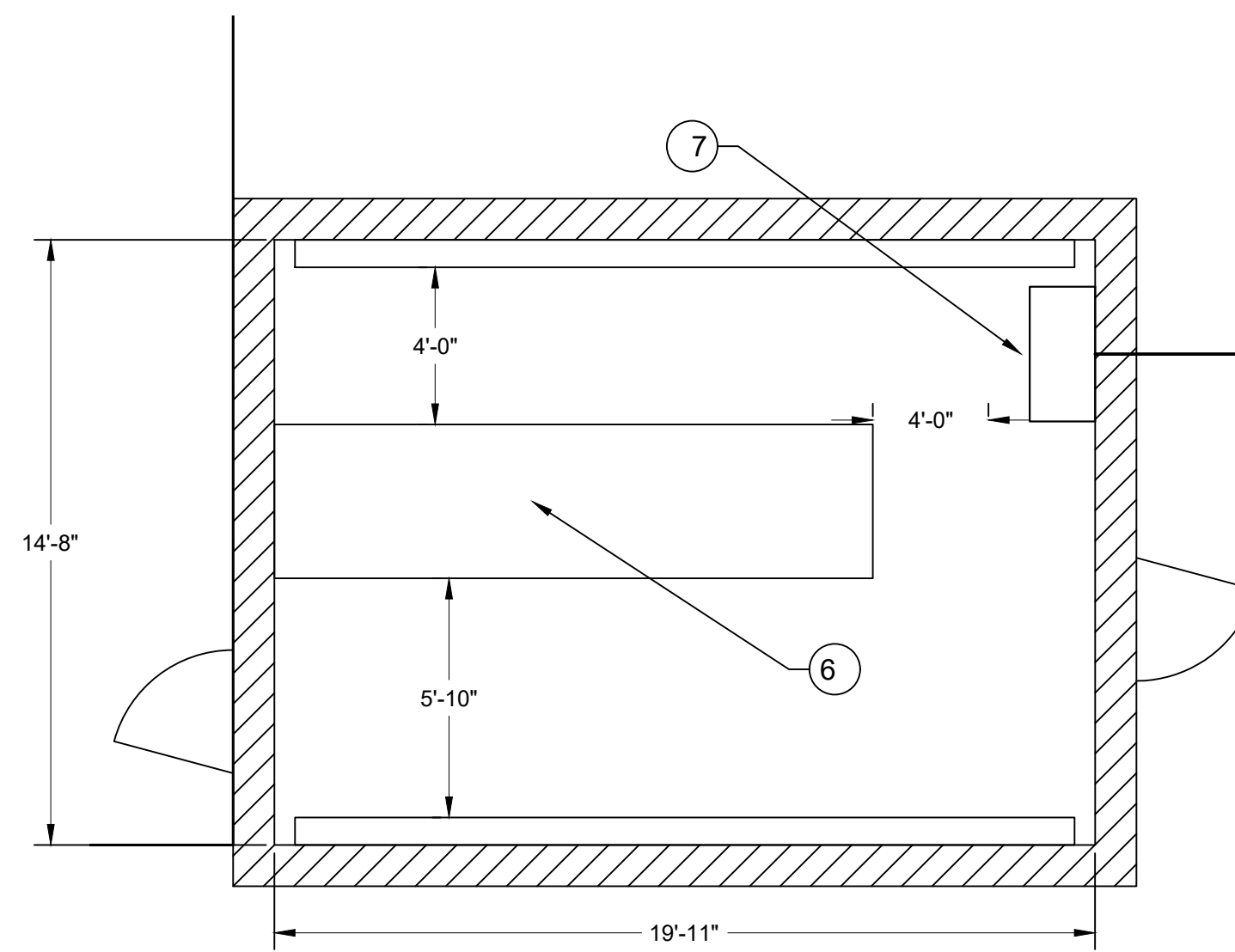


DESCRIPTION:

SYSTEM 1 PLAN



PV 3.1

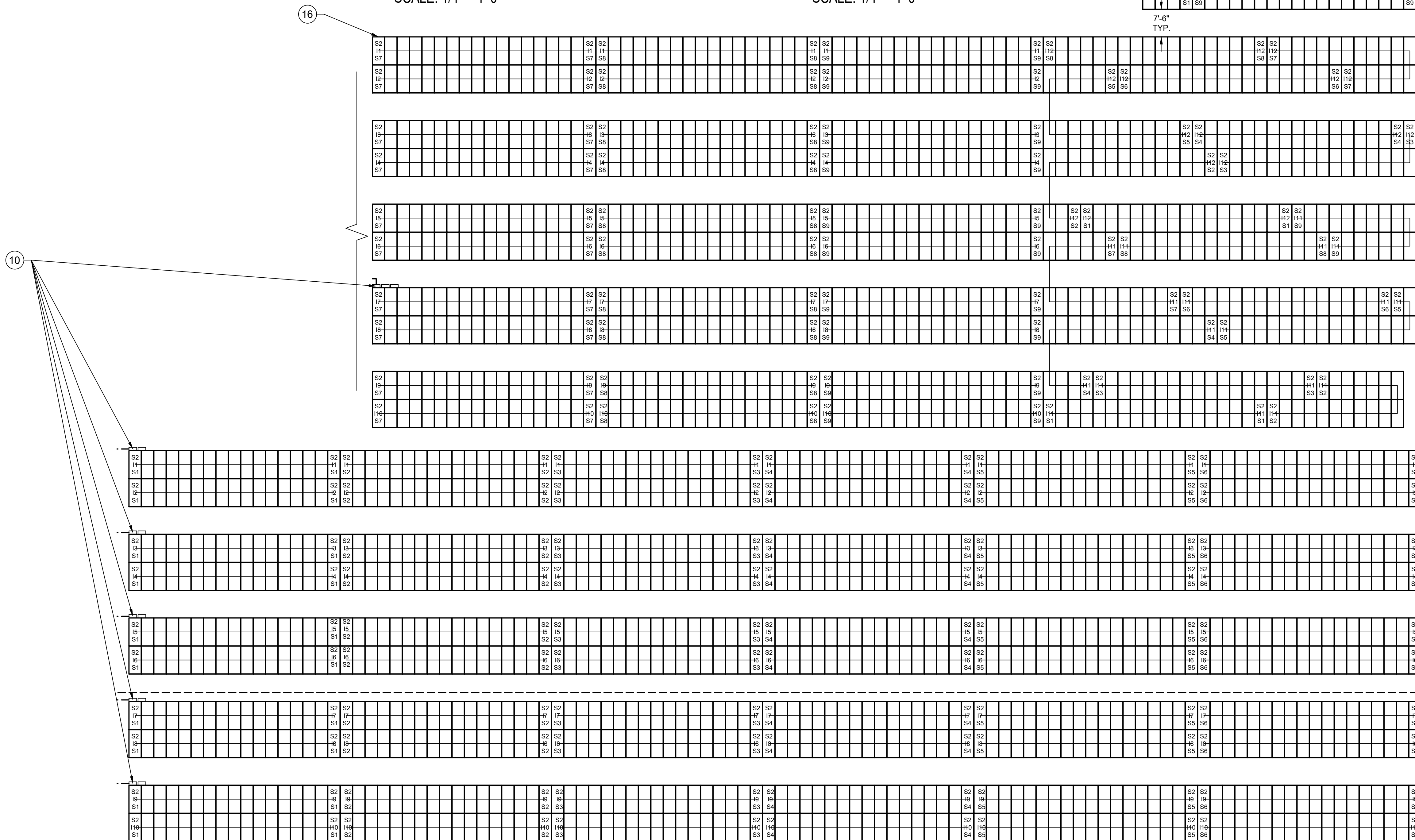


SYSTEM 2 ELECTRICAL ROOM

SCALE: 1/4" = 1'-0"

SYSTEM 2 ELECTRICAL EQUIPMENT

SCALE: 1/4" = 1'-0"



SYSTEM 2 ARRAY PLAN

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

PLAN LEGEND

- ⑦ E. SYSTEM 2 IID METER 5DY3B-200511 3000A 480Y/277V 3P-4W SWITCHGEAR. INTERIOR. PAD MOUNTED.
- ⑧ N. 1600A 600V 3P/4W FUSED PHOTOVOLTAIC AC DISCONNECT. 1600A FUSES. INTERIOR. WALL MOUNTED. SYSTEM DISCONNECT 1 OF 2.
- ⑨ N. UNDERGROUND PVC SCH40. SEE PV4.1 FOR WIRE SCHEDULE.
- ⑩ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.1 FOR WIRE SCHEDULE.
- ⑪ N. 1600A 480Y/277V PV COMBINER SWITCHGEAR W/ RPU METER SOCKET. SYSTEM DISCONNECT 2 OF 2.
- ⑫ N. SCA60TL-DO/US-480 PV INVERTERS. OUTDOOR RATED W/INTEGRATED DC & AC DISCONNECTS. ARRAY MOUNTED.

- ⑬ N. ARRAY "A". 4410 MODULES MOUNTED ON STRUCTURE.
- ⑭ N. FENCELINE AROUND ARRAY "A". 15' CLEARANCE FROM ARRAY.
- ⑮ N. FENCE GATE.

S1 — DENOTES SYSTEM NUMBER
I1 — DENOTES INVERTER NUMBER
S1 — DENOTES STRING NUMBER

— PHOTOVOLTAIC MODULE



CONTRACTOR

REVEL-ENERGY, INC.
 2323 MAIN ST.
 IRVINE, CA 92614
 CSLB #: 1038433 / A, B, C10, C46
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 INVERTER(S): (8) CPS SCA60TL-DO/US-480

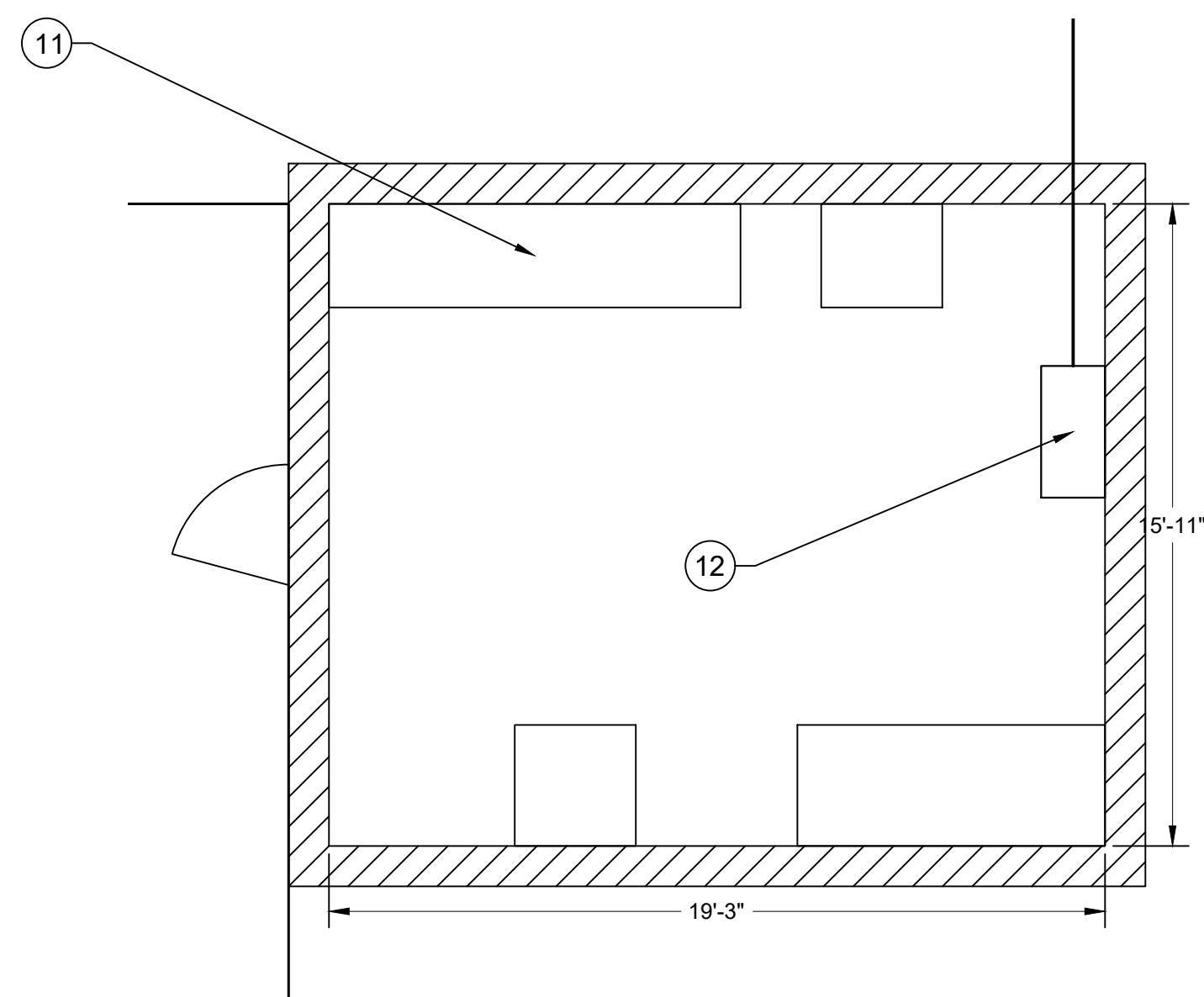
SYSTEM (PLANT) 2:
 SYSTEM SIZE DC STC: 975.65 KW
 SYSTEM SIZE AC CEC: 898.70 KW
 SOLAR MODULES: (2054) TRINA TSM-4750E15V(I)
 INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:
 SYSTEM SIZE DC STC: 766.65 KW
 SYSTEM SIZE AC CEC: 706.18 KW
 SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

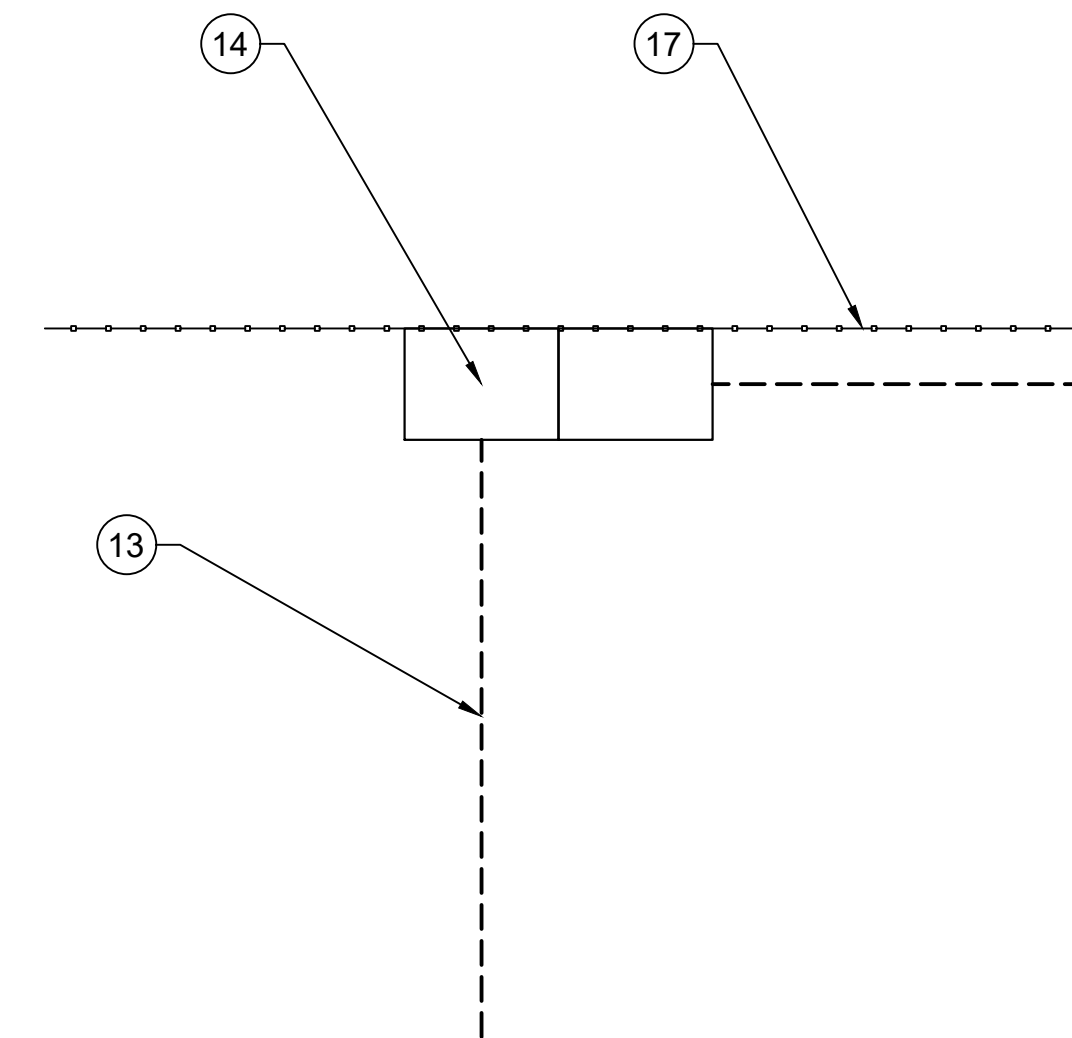
SYSTEM 2 PLAN

PV 3.2



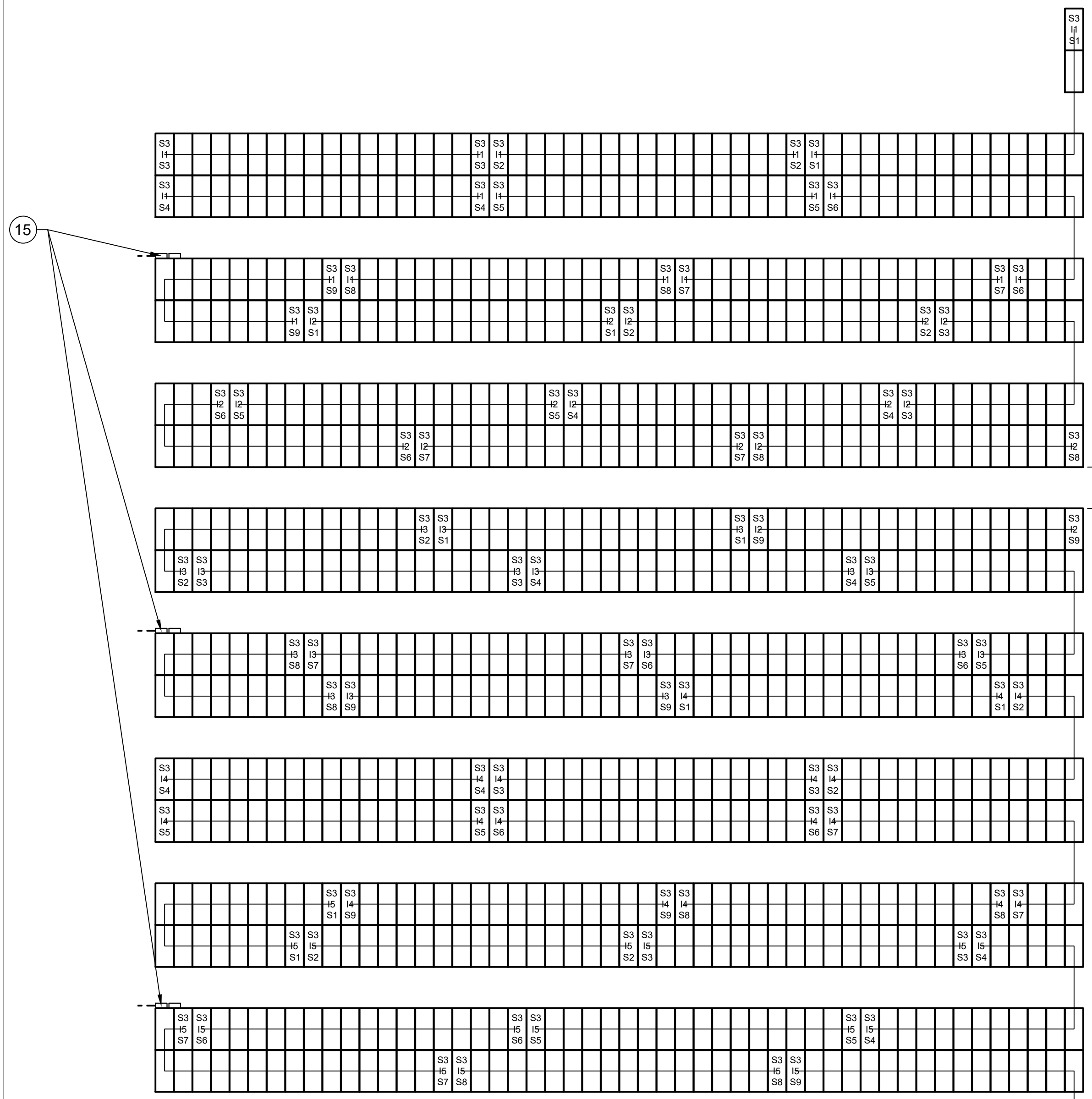
SYSTEM 3 ELECTRICAL ROOM

SCALE: 1/4" = 1'-0"



SYSTEM 3 ELECTRICAL EQUIPMENT

SCALE: 1/4" = 1'-0"

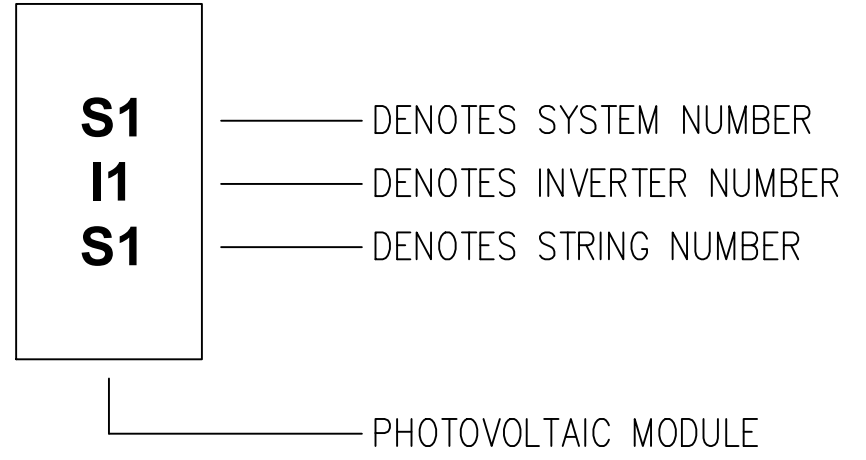


SYSTEM 3 ARRAY PLAN

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

PLAN LEGEND

- ⑬ E. SYSTEM 3 IID METER 5DY3B-200438
3000A 480Y/277V 3P-4W SWITCHGEAR.
INTERIOR. PAD MOUNTED.
- ⑭ N. 1200A 600V 3P/4W FUSED PHOTOVOLTAIC AC
DISCONNECT. 1000A FUSES. INTERIOR. WALL
MOUNTED.
SYSTEM DISCONNECT 1 OF 2.
- ⑮ N. UNDERGROUND PVC SCH40. SEE PV4.2 FOR
WIRE SCHEDULE.
- ⑯ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.2
FOR WIRE SCHEDULE.
- ⑰ N. 1200A 480Y/277V PV COMBINER SWITCHGEAR
W/ RPU METER SOCKET.
SYSTEM DISCONNECT 2 OF 2.
- ⑱ N. SCA60TL-DO/US-480 PV INVERTERS.
OUTDOOR RATED W/INTEGRATED DC & AC
DISCONNECTS. ARRAY MOUNTED.
- ⑲ N. ARRAY "A". 4410 MODULES MOUNTED ON
STRUCTURE.
- ⑳ N. FENCELINE AROUND ARRAY "A". 15'
CLEARANCE FROM ARRAY.
- ㉑ N. FENCE GATE.



CONTRACTOR

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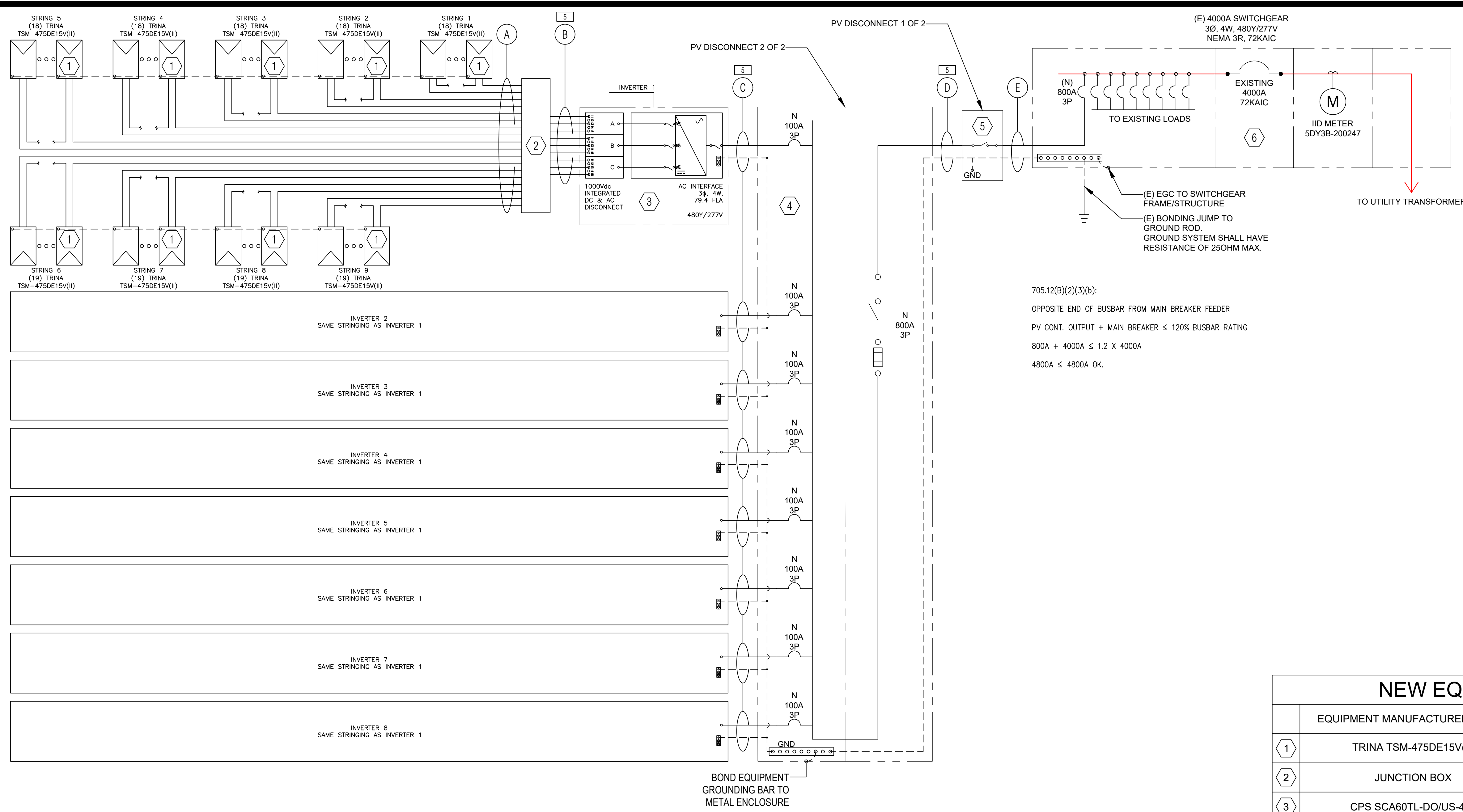
SYSTEM (PLANT) 2:
SYSTEM SIZE DC STC: 975.65 KW
SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-4750E15V(I)
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:
SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SYSTEM 3 PLAN

PV 3.3



EQUIPMENT NOTES

- PHOTOVOLTAIC MODULES INCLUDE #12 AWG OUTDOOR RATED MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING WILL BE INVALIDATED.
- #6 AWG BARE COPPER GROUND WILL BE USED AS EQUIPMENT GROUND FOR THE RACKING. USE MODULE GROUNDING METHODS PER MANUFACTURERS INSTALLATION REQUIREMENTS. THE MODULE EQUIPMENT GROUND SHALL TERMINATE AT THE INVERTER CABINET.
- INVERTERS NEMA 3R RATED WITH UL 1741-SA LISTING INCLUDING INTERNAL ANTI-ISLANDING PROTECTION FEATURES WITH CA RULE 21 COMPLIANCE. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE1547 FOR INTERCONNECTION SYSTEM AND TEST REQUIREMENTS AND THE NATIONAL ELECTRIC CODE. TIED TO EXISTING FACILITY GROUND. INVERTER HAS INTERNAL DC DISCONNECTION MEANS, FUSED AT 20A PER POLE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING. NOTE: SEE ATTACHED CUTSHEETS FOR DETAILS.
- PER NEC 250.53(A)(2), A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(6) SPACED NO LESS THAN 6FT APART. EXCEPTION, IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED.
- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.

705.12(B)(2)(3)(b):
 OPPOSITE END OF BUSBAR FROM MAIN BREAKER FEEDER
 PV CONT. OUTPUT + MAIN BREAKER ≤ 120% BUSBAR RATING
 800A + 4000A ≤ 1.2 X 4000A
 4800A ≤ 4800A OK.

NEW EQUIPMENT SCHEDULE

| EQUIPMENT MANUFACTURER/MODEL | EQUIPMENT DESCRIPTION |
|-------------------------------|---|
| 1 TRINA TSM-475DE15V(II) | TRINA SOLAR 475W PV MODULE |
| 2 JUNCTION BOX | NEMA 3R JUNCTION BOX |
| 3 CPS SCA60TL-DO/US-480 | CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS |
| 4 PV COMBINER SWITCHGEAR | 800A BUSBAR, 800A DISCONNECT, 480Y/277V, 3φ, 4W, 42KAIC |
| 5 AC DISCONNECT SWITCH | 800A, NONFUSED, 480Y/277V, 3φ, 4W, VIEWABLE, LOCKABLE |
| 6 EXISTING MAIN SERVICE PANEL | 4000A BUSBAR, 4000A DISCONNECT, 480Y/277V, 3φ, 4W, 72KAIC |

SEE PV 5 FOR GROUNDING DETAILS

| FAULT POINT | PANEL OR TRANSFORMER | PHASE | FAULT POINT | SOURCE ISC (AMPS) | FEDDER CONDUIT TYPE | # REBUS SIZE | FEDDER MATERIAL CU or AL | C VALUE | L-L VOLTS E | CIRCUIT LENGTH L | LOAD POWER FACTOR (pf) | CIRCUIT LOAD A | CONDUCTOR R | CONDUCTOR REACTANCE X | f | M | FAULT CURRENT ISC | FAULT POINT | |
|-------------|------------------------------|-------|-------------|-------------------|---------------------|--------------|--------------------------|---------|-------------|------------------|------------------------|----------------|-------------|-----------------------|----------|-------|-------------------|-------------|---|
| 0 | | | | 72000 | | | | | | | | | | | | | 72000 | 0 | |
| 1 | POC TO AC DISCONNECT | 3 | 0 | 72000 | M | 3 | Set(s) of 300 kcmil | CU | 18176.59 | 480 | 10 | 0.97 | 635.2 | 0.000045 | 0.000045 | 0.048 | 0.95 | 68726 | 1 |
| 2 | AC DISCONNECT TO PV COMBINER | 3 | 1 | 68726 | M | 3 | Set(s) of 300 kcmil | CU | 18176.59 | 480 | 400 | 0.97 | 635.2 | 0.000045 | 0.000051 | 1.819 | 0.35 | 24378 | 2 |
| 3 | PV COMBINER TO INVERTER | 3 | 2 | 24378 | M | 1 | Set(s) of 3 | CU | 4774.00 | 480 | 25 | 0.97 | 78.4 | 0.000250 | 0.000059 | 0.481 | 0.88 | 16690 | 3 |

| INVERTER | String # | MOD/STRING | Current Per String | VOLTAGE VMAX | Wire Size | Ohms/M | Wire Length One Way | Total Ohms | E _{IR} | V _D | %VD |
|----------|----------|------------|--------------------|--------------|-----------|--------|---------------------|------------|-----------------|----------------|--------|
| 1 | 1 thru 6 | 18 | 13.80 | 833.99 | #10 | 1.24 | 675 | 1.674 | 23.101 | | 2.770% |
| 1 | 7 thru 9 | 19 | 13.80 | 880.32 | #10 | 1.24 | 675 | 1.674 | 23.101 | | 2.624% |
| 2 thru 8 | 1 thru 5 | 18 | 13.80 | 833.99 | #10 | 1.24 | 675 | 1.674 | 23.101 | | 2.770% |
| 2 thru 8 | 6 thru 9 | 19 | 13.80 | 880.32 | #10 | 1.24 | 675 | 1.674 | 23.101 | | 2.624% |

| Input (DC): | Output (AC): |
|---|---|
| MAX used Power input per channel: 33000 W | Peak output power: 66000 VA |
| Module Compatibility: 1000 V | Maximum Continuous Output Power: 60000 VA |
| Maximum Input DC Voltage: 1000 V | Nominal output voltage: 480 V |
| Maximum Amp Isc: 68 per MPPT | Nominal output current: 79.4 A |
| | CEC Efficiency: 98.5 % |
| | Ambient Temperature: -30°C to +60°C |
| | Operating Voltage: 480V-3Phase |
| | Max Operating Current: 79.4A-3Phase |

| Parameters (DC): | Output (AC): |
|--------------------------------------|-----------------------------|
| Local Temperature (°C): -5°C to 44°C | Voc: 43.1 Vdc |
| Coldest Day Voc: 46.33 V | Vmp: 36.2 Vdc |
| Warmest Day Vmp: 31.58 V | Isc: 13.8 A |
| Maximum Fuse Rating: 25 A | Imp: 13.12 A |
| | STC Power: 475 W |
| | PTC Power: 444.2 W |
| | Max System Voltage: 1500 V |
| | Voc Temp. Coeff: -0.25 %/°C |

| CABLE | CABLE TYPE | CABLE VOLTAGE RATING (V) | CABLE TEMP RATING | AMBIENT TEMP (°C) | DISTANCE ABOVE ROOF TO BOTTOM OF CONDUIT | ADJUSTED AMBIENT TEMP (°C) | CONDUIT | CONDUIT TYPE | # OF CONDUCTORS PER PHASE | WIREBUS SIZE | NEUTRAL | GROUND | TOTAL CC CONDUCTORS IN RACEWAY (A) | BASE AMPACITY (A) | DERATING FACTOR FOR CONDUCTORS PER RACEWAY (NEC 310.15(B)(3)(a)) | DERATING FACTOR FOR AMBIENT TEMPERATURE (NEC 310.15(B)(2)(a)) | OVERALL DERATING FACTOR | DERATED AMPACITY (A) | CIRCUIT LOAD (A) | CIRCUIT LOAD (A) (150%DC, 125%AC) | MINIMUM PER LOAD | MAXIMUM OCPD PER DERATED CABLE | EST. DISTANCE FT | VOLTAGE DROP %VD | TOTAL V.D. %VD CUM. |
|-------|-------------|--------------------------|-------------------|-------------------|--|----------------------------|---------|--------------|---------------------------|--------------------|----------|--------|------------------------------------|-------------------|--|---|-------------------------|----------------------|------------------|-----------------------------------|------------------|--------------------------------|------------------|------------------|---------------------|
| A | PV-MRE | 1000 | 90°C (194°F) | 44 | NOT ON ROOF | 44 | NA | FREE AIR | 1 | Set(s) of #10 | NA | #6 | 18 | 55 | 43.500% | 87% | 43.500% | 17.4 | 13.8 | 17.25 | 20 | 500 | | SEE DC VD DROP | |
| B | XHMW-2 | 1000 | 90°C (194°F) | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #10 | NA | #8 | 18 | 40 | 50% | 87% | 43.500% | 17.4 | 13.8 | 17.25 | 20 | 175 | | SEE DC VD DROP | |
| C | THWN-2 (Cu) | 600 | 90°C (194°F) | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #3 | #3 | #8 | 3 | 115 | 100% | 87% | 87.000% | 100.1 | 79.4 | 92.25 | 100 | 100 | 25 | 0.18% | 0.18% |
| D | THWN-2 (Cu) | 600 | 90°C (194°F) | 44 | ABOVE 7/8" | 44 | 2-1/2" | EMT | 3 | Set(s) of 300KCMIL | 300KCMIL | #10 | 3 | 960 | 100% | 87% | 87.000% | 835.2 | 635.2 | 794.00 | 800 | 800 | 400 | 1.38% | 1.55% |
| E | THWN-2 (Cu) | 600 | 90°C (194°F) | 44 | NOT ON ROOF | 44 | 2-1/2" | EMT | 3 | Set(s) of 300KCMIL | 300KCMIL | #10 | 3 | 960 | 100% | 87% | 87.000% | 835.2 | 635.2 | 794.00 | 800 | 800 | 10 | 0.03% | 1.59% |

CONTRACTOR

REVEL-ENERGY, INC.
 2323 MAIN ST.
 IRVINE, CA 92614
 CSLB #: 1038433 / A, B, C10, C46
 (949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A.H.U. OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A.H.U. OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.

SIGNATURE _____ DATE _____ STATE LICENSE NO. _____
 1038433 / A, B, C10, C46

PROJECT LOCATION:
WOODSPUR FARMS PV
 5220 INDUSTRIAL WAY
 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

| NO. | DATE | DESCRIPTION | ELECT. | STRUC. |
|-----|-----------|------------------|--------|--------|
| | 7/27/2021 | INITIAL PLAN SET | A.L. | -- |
| | 8/18/2021 | 1ST REVISIONS | A.L. | -- |
| | 9/1/2021 | 1ST CORRECTIONS | A.L. | -- |
| | 9/9/2021 | 2ND REVISIONS | A.L. | -- |

SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
 TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
 SOLAR MODULES: (4995) TRINA TSM-475DE15V(II)
 INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:

SYSTEM SIZE DC STC: 630.80 KW
 SYSTEM SIZE AC CEC: 581.05 KW
 SOLAR MODULES: (1328) TRINA TSM-475DE15V(II)
 INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:

SYSTEM SIZE DC STC: 975.65 KW
 SYSTEM SIZE AC CEC: 898.70 KW
 SOLAR MODULES: (2054) TRINA TSM-475DE15V(II)
 INVERTER(S): (13) CPS SCA60TL-DO/US-480

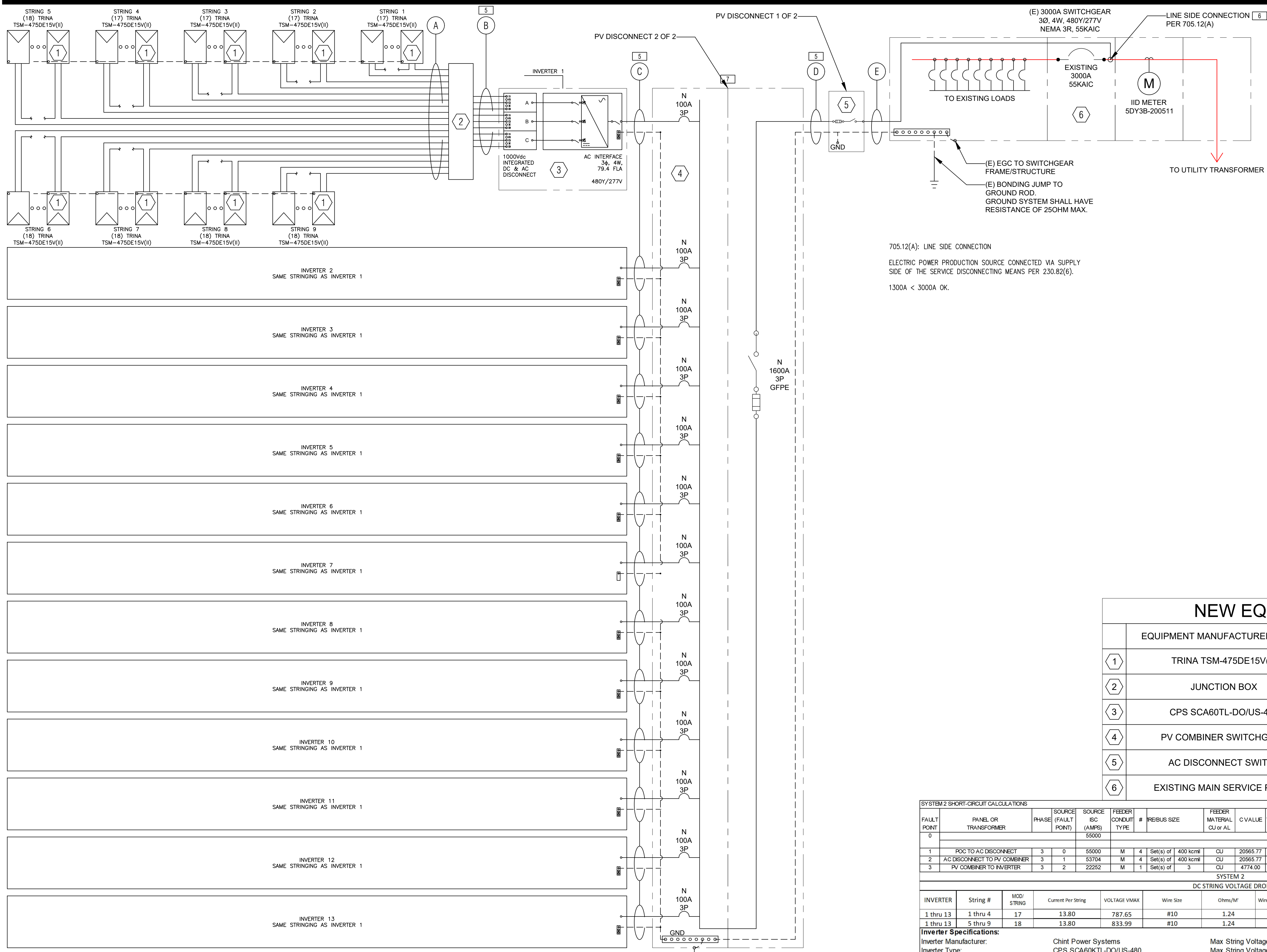
SYSTEM (PLANT) 3:

SYSTEM SIZE DC STC: 766.65 KW
 SYSTEM SIZE AC CEC: 706.18 KW
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SYSTEM 1 SLD

PV 4.0



EQUIPMENT NOTES

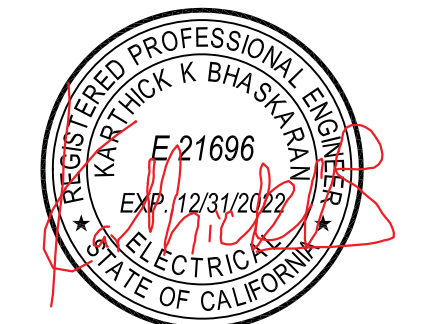
- PHOTOVOLTAIC MODULES INCLUDE #12 AWG OUTDOOR RATED MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING WILL BE INVALIDATED.
- #6 AWG BARE COPPER GROUND WILL BE USED AS EQUIPMENT GROUND FOR THE RACKING. USE MODULE GROUNDING METHODS PER MANUFACTURERS INSTALLATION REQUIREMENTS. THE MODULAR EQUIPMENT GROUND SHALL TERMINATE AT THE INVERTER CABINET.
- INVERTERS NEMA 3R RATED WITH UL 1741-SA LISTING INCLUDING INTERNAL ANTI-ISLANDING PROTECTION FEATURES WITH CA RULE 21 COMPLIANCE. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE1547 FOR INTERCONNECTION SYSTEM AND TEST REQUIREMENTS AND THE NATIONAL ELECTRIC CODE. TIED TO EXISTING FACILITY GROUND. INVERTER HAS INTERNAL DC DISCONNECTION MEANS, FUSED AT 20A PER POLE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING. NOTE: SEE ATTACHED CUTSHEETS FOR DETAILS.
- PER NEC 250.53(A)(2), A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(6) SPACED NO LESS THAN 6FT APART. EXCEPTION, IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED.
- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.
- ANY ALTERATIONS TO THE EXISTING MAIN SWITCHGEAR'S MECHANICAL/ELECTRICAL CHARACTERISTICS REQUIRES A THIRD PARTY SITE EVALUATION TO RE-CERTIFY THE SWITCHGEAR TO UL STANDARDS.
- GROUND FAULT PROTECTION WILL BE PROVIDED PER 230.95.

CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A/JU OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A/JU OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.

SIGNATURE _____ DATE _____ STATE LICENSE NO. 1038433 / A, B, C10, C46



PROJECT LOCATION:
WOODSPUR FARMS PV
5220 INDUSTRIAL WAY
COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

| NO. | DATE | DESCRIPTION | ELECT. | STRUC. |
|-----------|-----------|------------------|--------|--------|
| 7/27/2021 | 7/27/2021 | INITIAL PLAN SET | A.L. | -- |
| 8/18/2021 | 8/18/2021 | 1ST REVISIONS | A.L. | -- |
| 9/1/2021 | 9/1/2021 | 1ST CORRECTIONS | A.L. | -- |
| 9/9/2021 | 9/9/2021 | 2ND REVISIONS | A.L. | -- |

SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
SOLAR MODULES: (4998) TRINA TSM-475DE15V(II)
INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:

SYSTEM SIZE DC STC: 630.80 KW
SYSTEM SIZE AC CEC: 581.05 KW
SOLAR MODULES: (1328) TRINA TSM-475DE15V(II)
INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:

SYSTEM SIZE DC STC: 975.65 KW
SYSTEM SIZE AC CEC: 898.70 KW
SOLAR MODULES: (2054) TRINA TSM-475DE15V(II)
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:

SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SYSTEM 2 SLD

PV 4.1

NEW EQUIPMENT SCHEDULE

| | EQUIPMENT MANUFACTURER/MODEL | EQUIPMENT DESCRIPTION |
|---|------------------------------|---|
| 1 | TRINA TSM-475DE15V(II) | TRINA SOLAR 475W PV MODULE |
| 2 | JUNCTION BOX | NEMA 3R JUNCTION BOX |
| 3 | CPS SCA60TL-DO/US-480 | CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS |
| 4 | PV COMBINER SWITCHGEAR | 1600A BUSBAR, 1600A DISCONNECT, 480Y/277V, 3φ, 4W, 42KAIC |
| 5 | AC DISCONNECT SWITCH | 1600A, 1600A FUSES, 480Y/277V, 3φ, 4W, VIEWABLE, LOCKABLE, 55KAIC |
| 6 | EXISTING MAIN SERVICE PANEL | 3000A BUSBAR, 3000A DISCONNECT, 480Y/277V, 3φ, 4W, 55KAIC |

SYSTEM 2 SHORT-CIRCUIT CALCULATIONS

| FAULT POINT | PANEL OR TRANSFORMER | PHASE | FAULT POINT | SOURCE ISC (AMPS) | FEEDER CONDUIT # | FEEDER REBUS SIZE | FEEDER MATERIAL CU or AL | C VALUE | L-L VOLTS E | CIRCUIT LENGTH L | LOAD POWER FACTOR (pf) | CIRCUIT LOAD A | CONDUCTOR RESISTANCE R | CONDUCTOR REACTANCE X | f | M | FAULT ISC | FAULT POINT |
|-------------|------------------------------|-------|-------------|-------------------|------------------|---------------------|--------------------------|----------|-------------|------------------|------------------------|----------------|------------------------|-----------------------|-------|------|-----------|-------------|
| 0 | | | | 55000 | | | | | | | | | | | | | 55000 | 0 |
| 1 | POC TO AC DISCONNECT | 3 | 0 | 55000 | M 4 | Set(s) of 400 kcmil | CJ | 20565.77 | 480 | 10 | 0.97 | 1032.2 | 0.000035 | 0.000035 | 0.024 | 0.98 | 53704 | 1 |
| 2 | AC DISCONNECT TO PV COMBINER | 3 | 1 | 53704 | M 4 | Set(s) of 400 kcmil | CJ | 20565.77 | 480 | 600 | 0.97 | 1032.2 | 0.000035 | 0.000049 | 1.413 | 0.41 | 22252 | 2 |
| 3 | PV COMBINER TO INVERTER | 3 | 2 | 22252 | M 1 | Set(s) of 3 | CJ | 4774.00 | 480 | 15 | 0.97 | 79.4 | 0.000250 | 0.000059 | 0.252 | 0.80 | 17769 | 3 |

SYSTEM 2 DC STRING VOLTAGE DROP

| INVERTER | String # | MOD/STRING | Current Per String | VOLTAGE VMAX | Wire Size | Ohms/M | Wire Length One Way | Total Ohms | EstR | VD | %VD |
|-----------|----------|------------|--------------------|--------------|-----------|--------|---------------------|------------|--------|--------|-----|
| 1 thru 13 | 1 thru 4 | 17 | 13.80 | 787.65 | #10 | 1.24 | 615 | 1.525 | 21.048 | 2.672% | |
| 1 thru 13 | 5 thru 9 | 18 | 13.80 | 833.99 | #10 | 1.24 | 615 | 1.525 | 21.048 | 2.524% | |

Inverter Specifications:
Inverter Manufacturer: Chint Power Systems
Inverter Type: CPS SCA60TL-DO/US-480
Max String Voltage Using -0.25%/°C temp. factor of module = 834V
Max String Voltage Using 1.14 temp. factor of module = 884.5V

Input (DC):
MAX used Power input per channel: 33000 W
Module Compatibility: 60000 VA
Maximum Input DC Voltage: 1000 V
Maximum Amp Isc: 68 per MPPT

Output (AC):
Peak output power: 66000 VA
Maximum Continuous Output Power: 60000 VA
Nominal output voltage: 480 V
Nominal output current: 79.4 A

CEC Efficiency: 98.5 %
Ambient Temperature: -30°C to +60°C
Operating Voltage: 480V-3Phase
Max Operating Current: 79.4A-3Phase

Module Specifications:
Module Manufacturer: Trina Solar
Module Model: TSM-475DE15V(II)

Parameters (DC):
Local Temperature (°C): -5°C to 44°C
Coldest Day Voc: 46.33 V
Warmest Day Vmp: 31.58 V
Maximum Fuse Rating: 25 A

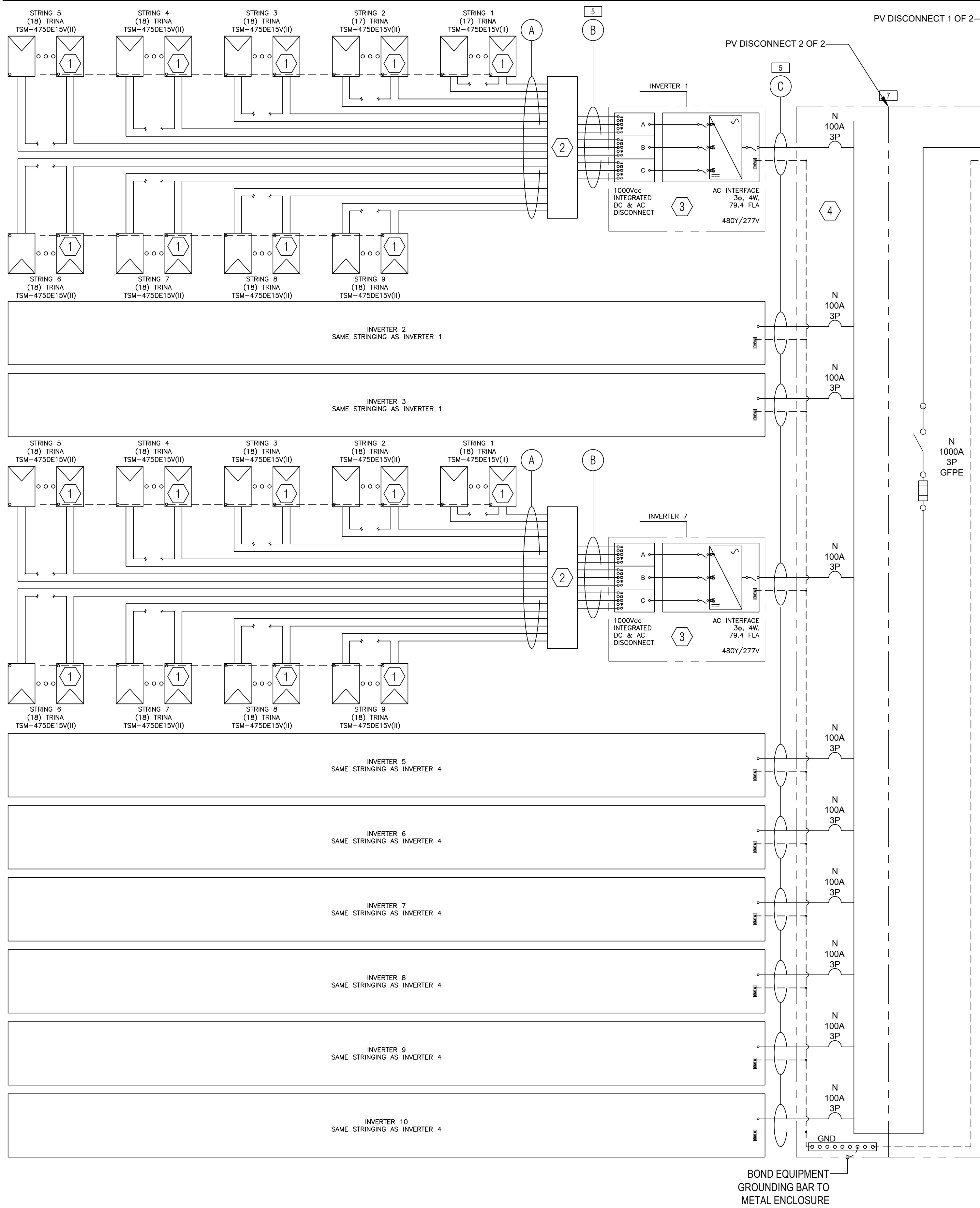
Output (AC):
Voc: 43.1 Vdc
Vmp: 36.2 Vdc
Isc: 13.8 A
Imp: 13.12 A

STC Power: 475 W
PTC Power: 444.2 W
Max System Voltage: 1500 V
Voc Temp. Coeff: -0.25 %/°C

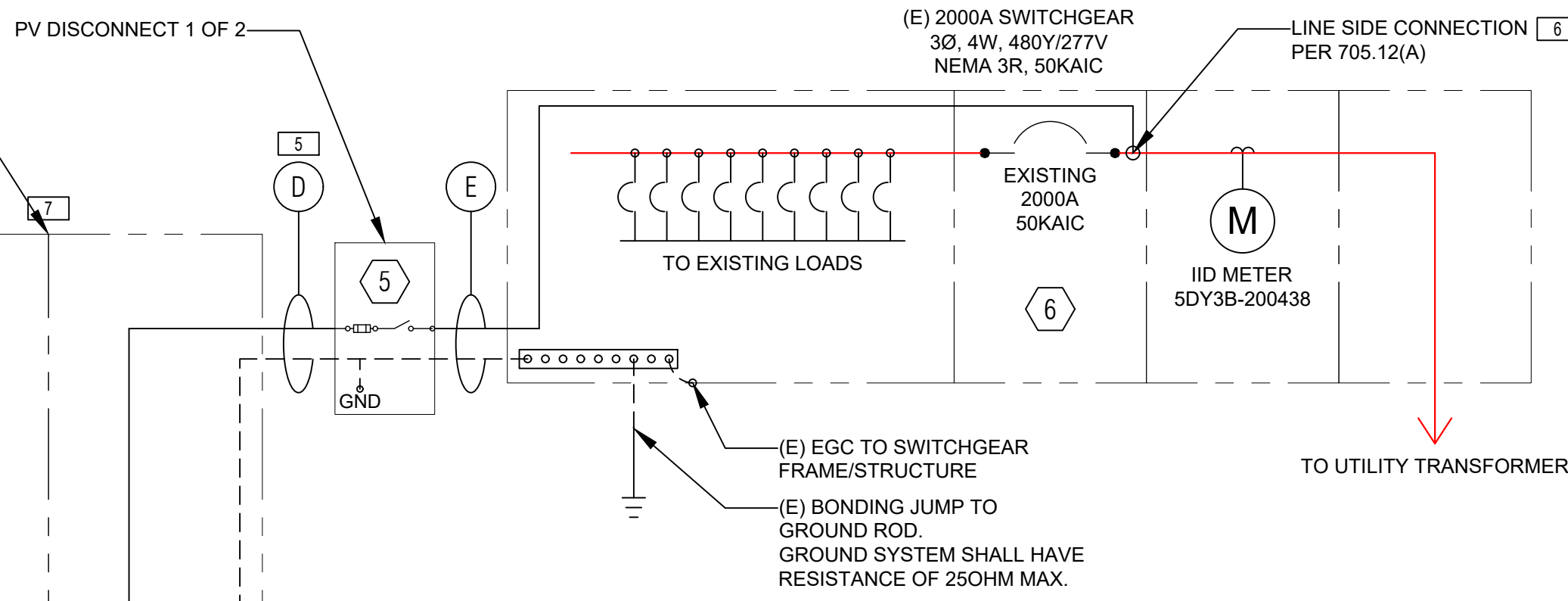
CABLE SCHEDULE, BREAKER SIZING AND AMPACITY CALCULATIONS FOR SYSTEM 2

| CABLE | CABLE TYPE | CABLE VOLTAGE RATING (V) | CABLE TEMP RATING | AMBIENT TEMP (°C) | DISTANCE ABOVE ROOF TO BOTTOM OF CONDUIT | ADJUSTED AMBIENT TEMP (°C) | CONDUIT | CONDUIT TYPE | # OF CONDUCTORS PER PHASE | WIREBUS SIZE | NEUTRAL | GROUND | TOTAL CC CONDUCTORS IN RACEWAY | BASE AMPACITY (A) | DERATING FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a) | DERATING FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a) | OVERALL DERATING FACTOR | CIRCUIT LOAD (A) | CIRCUIT LOAD (A) (156%DC, 125%AC 125%OPT, 100%BAT) | MINIMUM OCCP PER RACEWAY | MAXIMUM OCCP PER DERATED CABLE | EST. DISTANCE FT | VOLTAGE DROP %VD | TOTAL V.D. %VD CLUM | |
|-------|-------------|--------------------------|-------------------|-------------------|--|----------------------------|---------|--------------|---------------------------|--------------------|----------|--------|--------------------------------|-------------------|--|---|-------------------------|------------------|--|--------------------------|--------------------------------|------------------|------------------|---------------------|-------|
| A | PV-WIRE | 1000 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | NA | FREEAIR | 1 | Set(s) of #10 | NA | #6 | 18 | 55 | 50% | 87% | 43.500% | 23.9 | 13.8 | 17.25 | 20 | 500 | SEE DC VDROP | | |
| B | XHHW-2 | 1000 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #10 | NA | #6 | 18 | 40 | 50% | 87% | 43.500% | 17.4 | 13.8 | 17.25 | 20 | 115 | | | |
| C | THWN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #3 | #3 | #6 | 3 | 115 | 100% | 87% | 87.000% | 100.1 | 79.4 | 99.25 | 100 | 15 | 0.11% | 0.11% | |
| D | THWN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | ABOVE 7/8" | 44 | 3" | EMT | 4 | Set(s) of 400KCMIL | 400KCMIL | 4/0 | 3 | 1520 | 100% | 87% | 87.000% | 1322.4 | 1032.2 | 1280.25 | 1600 | 1200 | 600 | 1.96% | 2.08% |
| E | THWN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 3" | EMT | 4 | Set(s) of 400KCMIL | 400KCMIL | 4/0 | 3 | 1520 | 100% | 87% | 87.000% | 1322.4 | 1032.2 | 1280.25 | 1600 | 1200 | 10 | 0.03% | 2.10% |

SEE PV 5 FOR GROUNDING DETAILS



SEE PV 5 FOR GROUNDING DETAILS



705.12(A): LINE SIDE CONNECTION
 ELECTRIC POWER PRODUCTION SOURCE CONNECTED VIA SUPPLY SIDE OF THE SERVICE DISCONNECTING MEANS PER 230.82(6).
 1000A < 2000A OK.

EQUIPMENT NOTES

- PHOTOVOLTAIC MODULES INCLUDE #12 AWG OUTDOOR RATED MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING WILL BE INVALIDATED.
- #6 AWG BARE COPPER GROUND WILL BE USED AS EQUIPMENT GROUND FOR THE RACKING. USE MODULE GROUNDING METHODS PER MANUFACTURERS INSTALLATION REQUIREMENTS. THE MODULE EQUIPMENT GROUND SHALL TERMINATE AT THE INVERTER CABINET.
- INVERTERS NEMA 3R RATED WITH UL 1741-SA LISTING INCLUDING INTERNAL ANTI-ISLANDING PROTECTION FEATURES WITH CA RULE 21 COMPLIANCE. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE1547 FOR INTERCONNECTION SYSTEM AND TEST REQUIREMENTS AND THE NATIONAL ELECTRIC CODE. TIED TO EXISTING FACILITY GROUND. INVERTER HAS INTERNAL DC DISCONNECTION MEANS, FUSED AT 20A PER POLE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING. NOTE: SEE ATTACHED CUTSHEETS FOR DETAILS.
- PER NEC 250.53(A)(2), A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(6) SPACED NO LESS THAN 6FT APART. EXCEPTION, IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED.
- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.
- ANY ALTERATIONS TO THE EXISTING MAIN SWITCHGEAR'S MECHANICAL/ELECTRICAL CHARACTERISTICS REQUIRES A THIRD PARTY SITE EVALUATION TO RE-CERTIFY THE SWITCHGEAR TO UL STANDARDS.
- GROUND FAULT PROTECTION WILL BE PROVIDED PER 230.95.

NEW EQUIPMENT SCHEDULE

| NO. | EQUIPMENT MANUFACTURER/MODEL | EQUIPMENT DESCRIPTION |
|-----|------------------------------|---|
| 1 | TRINA TSM-475DE15V(II) | TRINA SOLAR 475W PV MODULE |
| 2 | JUNCTION BOX | NEMA 3R JUNCTION BOX |
| 3 | CPS SCA60TL-DO/US-480 | CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS |
| 4 | PV COMBINER SWITCHGEAR | 1200A BUSBAR, 1000A DISCONNECT, 480Y/277V, 3φ, 4W, 42KAIC |
| 5 | AC DISCONNECT SWITCH | 1200A, 1000A FUSES, 480Y/277V, 3φ, 4W, VIEWABLE, LOCKABLE, 42KAIC |
| 6 | EXISTING MAIN SERVICE PANEL | 2000A BUSBAR, 2000A DISCONNECT, 480Y/277V, 3φ, 4W, 50KAIC |

SYSTEM 3 SHORT-CIRCUIT CALCULATIONS

| FAULT POINT | PANEL OR TRANSFORMER | PHASE | SOURCE | SOURCE ISC (AMPS) | FEEDER CONDUIT TYPE | # | FE/BUS SIZE | FEEDER MATERIAL CU or AL | C VALUE | L-L VOLTS E | CIRCUIT LENGTH L | LOAD POWER FACTOR (pf) | CIRCUIT LOAD A | CONDUCTOR RESISTANCE R | CONDUCTOR REACTANCE X | f | M | FAULT CURRENT I SC 50000 | FAULT POINT 0 |
|-------------|------------------------------|-------|--------|-------------------|---------------------|---|---------------------|--------------------------|----------|-------------|------------------|------------------------|----------------|------------------------|-----------------------|-------|------|--------------------------|---------------|
| 0 | | | | 50000 | | | | | | | | | | | | | | | |
| 1 | POC TO AC DISCONNECT | 3 | 0 | 50000 | M | 4 | Set(s) of 250 kcmil | CU | 16483.39 | 480 | 10 | 0.97 | 1009.2 | 0.000054 | 0.000054 | 0.027 | 0.97 | 48668 | 1 |
| 2 | AC DISCONNECT TO PV COMBINER | 3 | 1 | 48668 | M | 4 | Set(s) of 250 kcmil | CU | 16483.39 | 480 | 115 | 0.97 | 1009.2 | 0.000054 | 0.000052 | 0.306 | 0.77 | 37256 | 2 |
| 3 | PV COMBINER TO INVERTER | 3 | 2 | 37256 | M | 1 | Set(s) of 3 | CU | 4774.00 | 480 | 25 | 0.97 | 79.4 | 0.000250 | 0.000059 | 0.704 | 0.99 | 21864 | 3 |

SYSTEM 3

| INVERTER | String # | MOD STRING | Current Per String | VOLTAGE VMAX | Wire Size | Ohms/M | Wire Length One Way | Total Ohms | E=IR | VD | %VD |
|-----------|----------|------------|--------------------|--------------|-----------|--------|---------------------|------------|--------|--------|-----|
| 1 thru 5 | 1 | 17 | 13.80 | 787.65 | #10 | 1.24 | 665 | 1.649 | 22.759 | 2.889% | |
| 1 thru 5 | 8 thru 9 | 18 | 13.80 | 833.99 | #10 | 1.24 | 665 | 1.649 | 22.759 | 2.729% | |
| 6 thru 10 | 1 thru 9 | 18 | 13.80 | 833.99 | #10 | 1.24 | 665 | 1.649 | 22.759 | 2.729% | |

| | | | | | |
|---------------------------------|--|--|--|---|--|
| Inverter Specifications: | | Chint Power Systems CPS SCA60TL-DO/US-480 | | Max String Voltage Using -0.25%/°C temp. factor of module = 834V Max String Voltage Using 1.14 temp. factor of module = 884.5V | |
| Input (DC): | | MAX used Power input per channel: 33000 W | | Output (AC): | |
| Module Compatibility: 1000 V | | Maximum Input DC Voltage: 1000 V | | Peak output power: 68000 VA | |
| Maximum Amp Isc: 68 per MPPT | | Nominal output current: 144 A | | Maximum Continuous Output Power: 60000 VA | |
| | | | | CEC Efficiency: 98.5 % | |
| | | | | Ambient Temperature: -30°C to +60°C | |
| | | | | Operating Voltage: 480V-3Phase | |
| | | | | Max Operating Current: 79.4A-3Phase | |
| Module Specifications: | | Trina Solar TSM-475DE15V(II) | | | |
| Parameters (DC): | | Local Temperature (°C): -5°C to 44°C | | Output (AC): | |
| Coldest Day Voc: 46.33 V | | Warmest Day Vmp: 31.58 V | | Voc: 43.1 Vdc | |
| Maximum Fuse Rating: 25 A | | | | Vmp: 36.2 Vdc | |
| | | | | Isc: 13.8 A | |
| | | | | Max System Voltage: 1500 V | |
| | | | | Voc Temp. Coeff: -0.25 %/°C | |

CABLE SCHEDULE, BREAKER SIZING AND AMPACITY CALCULATIONS FOR SYSTEM 3

| CABLE | CABLE TYPE | CABLE VOLTAGE RATING (V) | CABLE TEMP RATING | AMBIENT TEMP (°C) | DISTANCE ABOVE ROOF TO BOTTOM OF CONDUIT | ADJUSTED AMBIENT TEMP (°C) | CONDUIT | CONDUIT TYPE | # OF CONDUCTORS PER PHASE | WIRE/BUS SIZE | NEUTRAL | GROUND | TOTAL CC CONDUCTORS IN RACEWAY | BASE AMPACITY (A) | DERATING FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a) | DERATING FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a) | OVERALL DERATING FACTOR | DERATED CARRYING CAPACITY (A) | CIRCUIT LOAD (A) | CIRCUIT LOAD (A) (15%DC, 125%AC) | MINIMUM OCPD PER PER LOAD | MAXIMUM OCPD PER DERATED CABLE | EST. DISTANCE FT | VOLTAGE DROP %VD | TOTAL %VD/CUM |
|-------|-------------|--------------------------|-------------------|-------------------|--|----------------------------|---------|--------------|---------------------------|--------------------|----------|--------|--------------------------------|-------------------|--|---|-------------------------|-------------------------------|------------------|----------------------------------|---------------------------|--------------------------------|------------------|------------------|---------------|
| A | PV-WRE | 1000 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | N/A | FREE AIR | 1 | Set(s) of #10 | N/A | #6 | 18 | 55 | 50% | 87% | 43.500% | 23.9 | 13.8 | 17.25 | 20 | 20 | 215 | SEE DC VDPROP | |
| B | XHM-2 | 1000 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #10 | N/A | #6 | 18 | 40 | 50% | 87% | 43.500% | 17.4 | 13.8 | 17.25 | 20 | 20 | 450 | | |
| C | THMN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 1-1/4" | EMT | 1 | Set(s) of #3 | #3 | #6 | 3 | 115 | 100% | 87% | 87.000% | 100.1 | 79.4 | 99.25 | 100 | 100 | 25 | 0.18% | 0.18% |
| D | THMN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | ABOVE 7/8" | 44 | 2-1/2" | EMT | 4 | Set(s) of 250KCMIL | 250KCMIL | 2/0 | 3 | 1160 | 100% | 87% | 87.000% | 1009.2 | 794.0 | 992.50 | 1000 | 1000 | 115 | 0.44% | 0.62% |
| E | THMN-2 (Cu) | 600 | 90°C (194°F) Cu | 44 | NOT ON ROOF | 44 | 2-1/2" | EMT | 4 | Set(s) of 250KCMIL | 250KCMIL | 2/0 | 3 | 1160 | 100% | 87% | 87.000% | 1009.2 | 794.0 | 992.50 | 1000 | 1000 | 10 | 0.04% | 0.66% |

CONTRACTOR
 REVEL-ENERGY, INC.
 2323 MAIN ST.
 IRVINE, CA 92614
 CSLB #: 1038433 / A, B, C10, C46
 (949) 281-7171

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SIGNATURE _____ DATE _____ STATE LICENSE NO. _____
 1038433 / A, B, C10, C46



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 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

| NO. | DATE | DESCRIPTION | ELECT. | STRUC. |
|-----|-----------|------------------|--------|--------|
| | 7/27/2021 | INITIAL PLAN SET | A.L. | -- |
| | 8/18/2021 | 1ST REVISIONS | A.L. | -- |
| | 9/11/2021 | 1ST CORRECTIONS | A.L. | -- |
| | 9/9/2021 | 2ND REVISIONS | A.L. | -- |

SYSTEM INFO:
 TOTAL SYSTEM SIZE: DC STC: 2373.10 KW
 TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW
 SOLAR MODULES: (4996) TRINA TSM-475DE15V(II)
 INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:
 SYSTEM SIZE DC STC: 630.80 KW
 SYSTEM SIZE AC CEC: 581.05 KW
 SOLAR MODULES: (1328) TRINA TSM-475DE15V(II)
 INVERTER(S): (8) CPS SCA60TL-DO/US-480

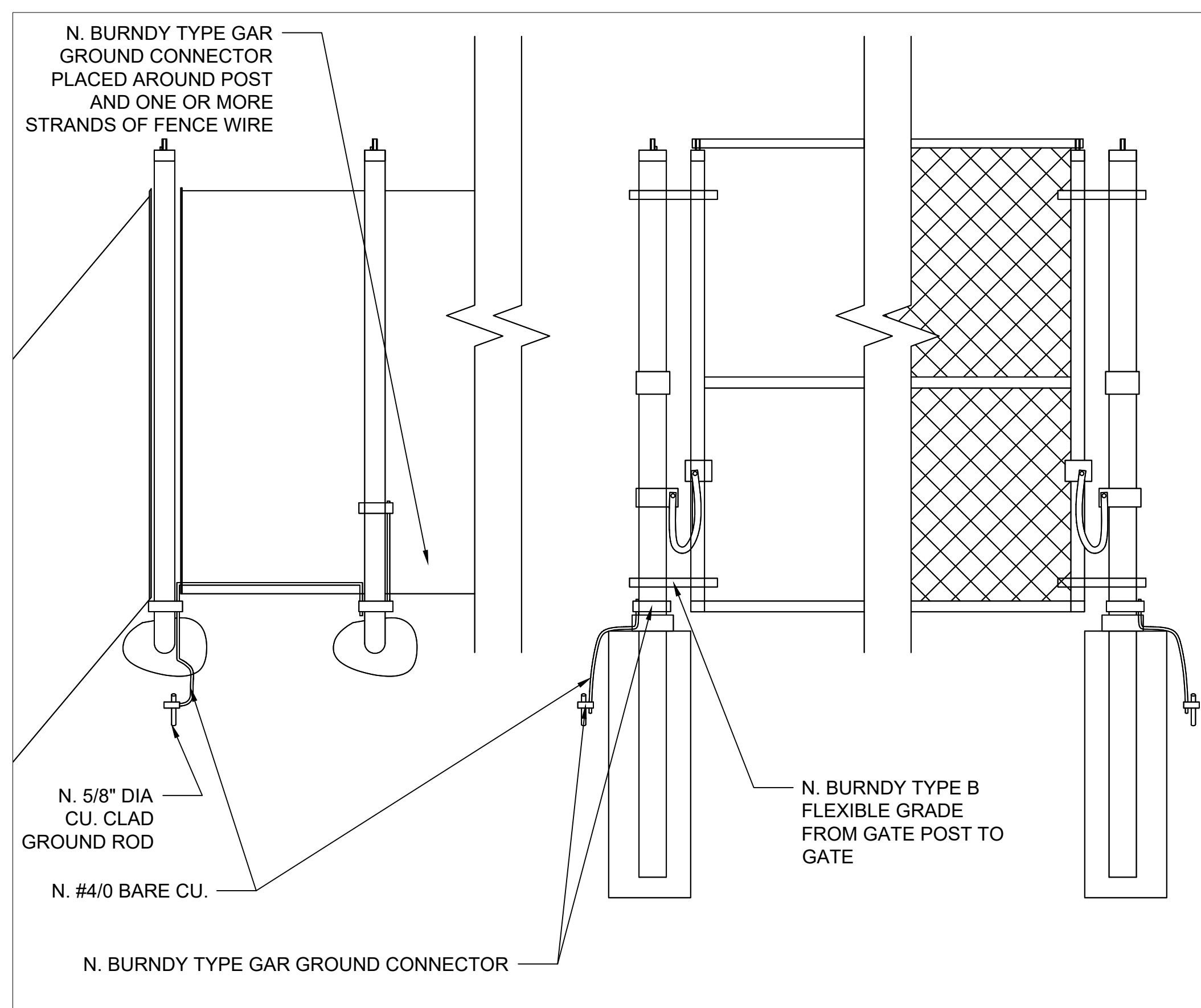
SYSTEM (PLANT) 2:
 SYSTEM SIZE DC STC: 975.65 KW
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 SOLAR MODULES: (2054) TRINA TSM-475DE15V(II)
 INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:
 SYSTEM SIZE DC STC: 766.65 KW
 SYSTEM SIZE AC CEC: 706.18 KW
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SYSTEM 3 SLD

PV 4.2



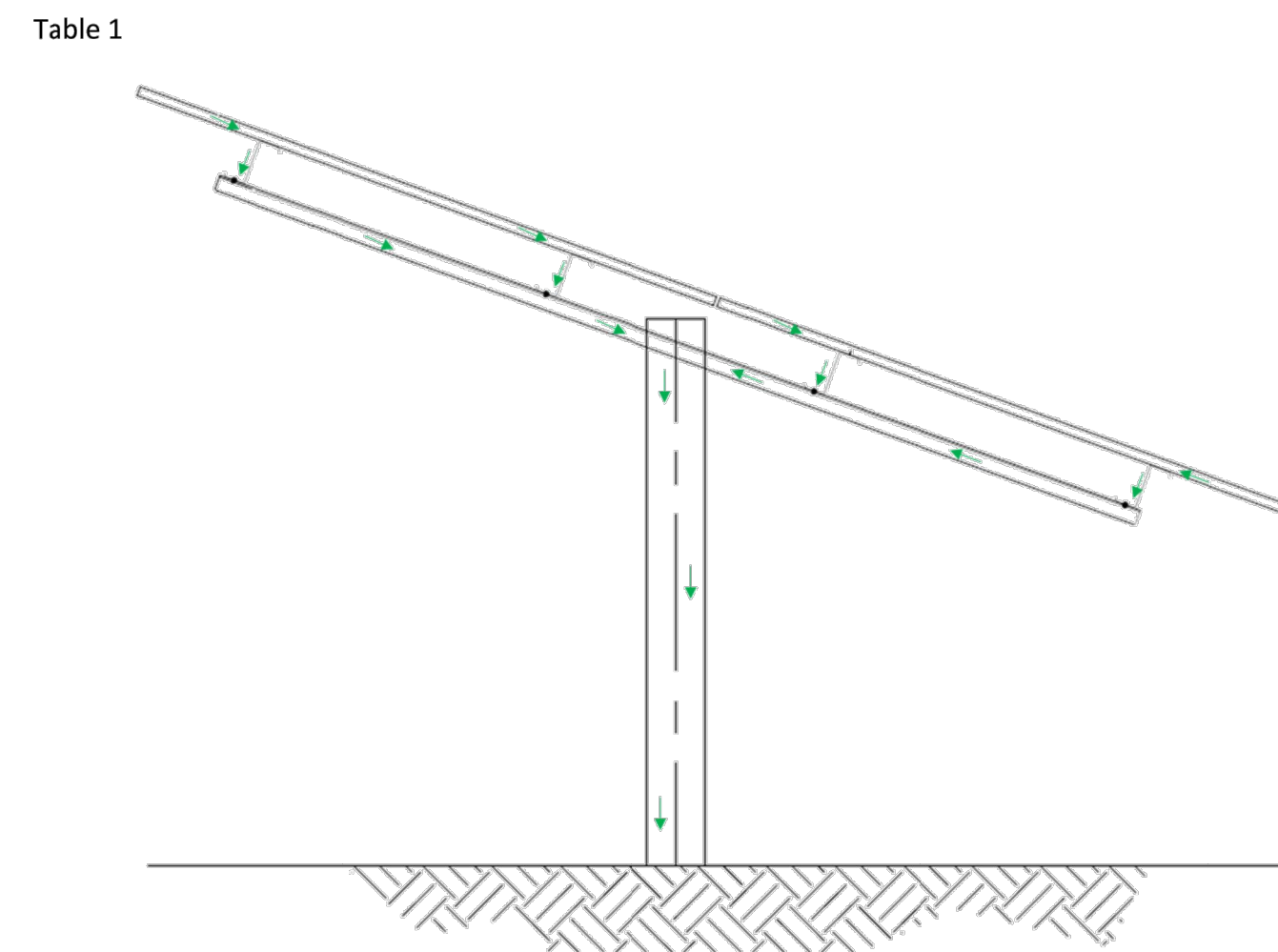
- FENCE NOTES:**
1. BONDING JUMPERS ARE REQUIRED AT EACH FENCE CORNER AND AT MAXIMUM 160 FT. INTERVALS ALONG THE FENCE.
 2. BONDING JUMPERS ARE REQUIRED ON EACH SIDE OF THE CROSSING WHERE BARE OVERHEAD CONDUCTORS CROSS THE FENCE.
 3. GATES MUST BE BONDED TO THE GATE SUPPORT POST, AND EACH GATE SUPPORT POST MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
 4. ANY GATE OR OTHER OPENING IN THE FENCE MUST BE BONDED ACROSS THE OPENING BY A BURIED BONDING JUMPER.
 5. THE GROUNDING GRID OR GROUNDING ELECTRODE SYSTEMS SHALL BE EXTENDED TO COVER THE SWING OF ALL GATES.
 6. THE BARBED WIRE STRANDS ABOVE THE FENCE MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.

BONDING PATH

OMCO Solar's CHOICE™ Racking System may be used to ground and/or mount a PV Module complying with UL 1703 only when the specific Module has been evaluated for grounding and/or mounting in compliance with the included instructions.

It is the Owner's responsibility to ensure that the CHOICE™ Racking System installation complies with NFPA 70 Article 250.

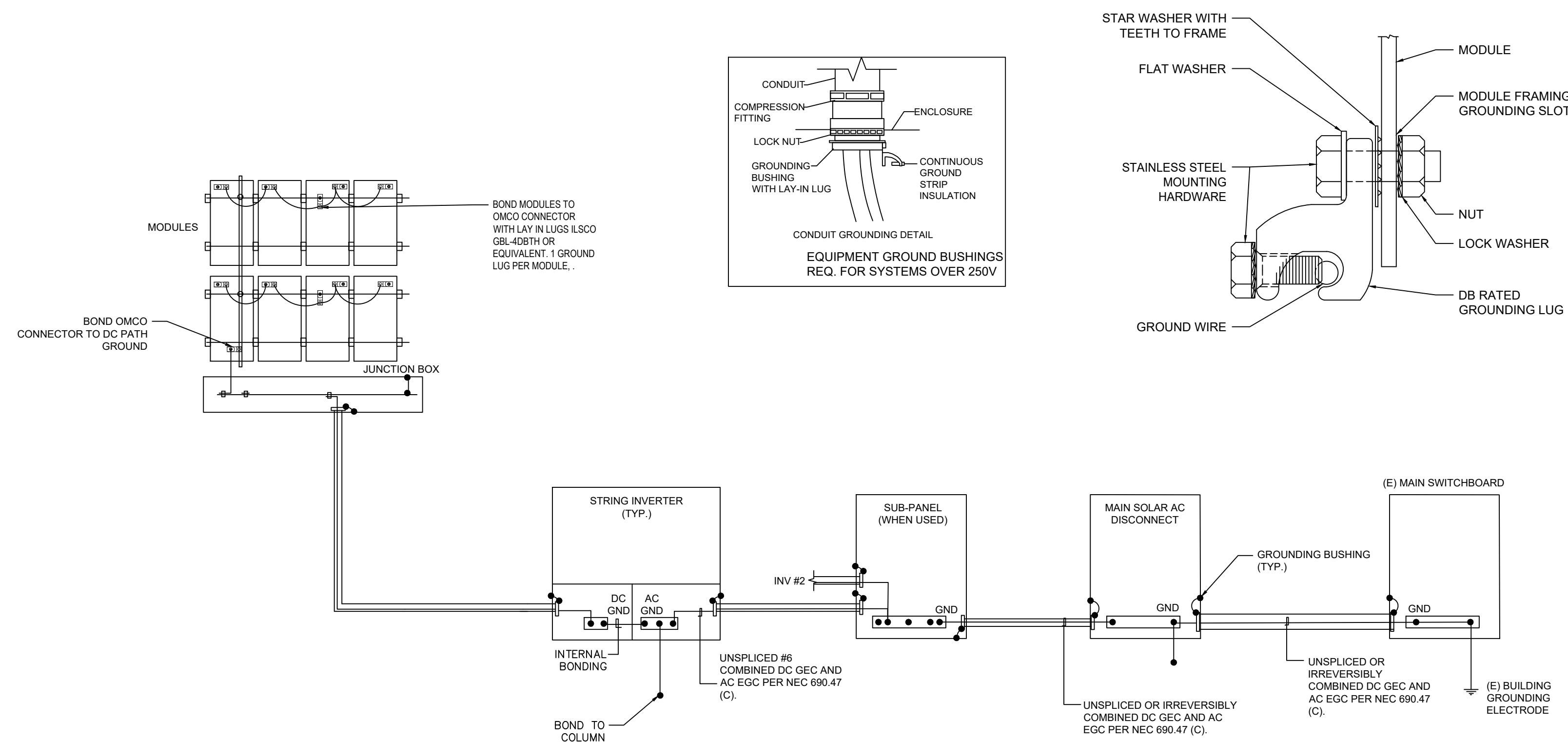
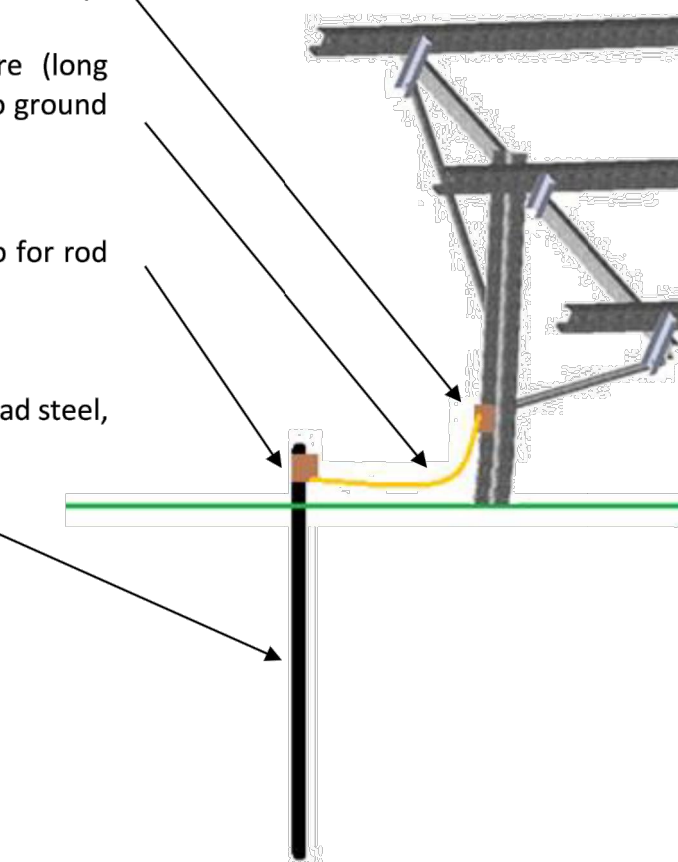
Table 1 illustrates the grounding path.



GROUNDING FOR JOBSITE WITHOUT DRIVEN POSTS

Jobsites with Posts driven 10 feet into the ground do not require additional grounding measures (NEC 250.52). For table assemblies on jobsites without suitably driven posts, an alternate means of grounding the CHOICE™ Racking System is needed. One recommended method for grounding the CHOICE™ Racking System is as follows:

- Copper ground lug (UL listed, sized to fit 6AWG)
- 6AWG unjacketed braided copper wire (long enough to span from table assemblies to ground rod)
- Copper ground clamp (UL listed, sized to fit rod and wire)
- 10' ground rod, 5/8" diameter (copper-clad steel, UL 467 approved)



**Cat #: GBL-4DB
GBL-4DBT**

| | | | | |
|-------------------------|---------------------------|--------------------------------------|------------------|-------------|
| SCREW: SEE CHART | MATERIAL: COPPER, X0C7309 | TOUGHNESS: SEE OTHER SHEET SPECIFIED | DWG. NO. G0977 | ILSCO CORP. |
| CAT. NO.: | PLATING: SEE CHART | 2 PL. DEC. ± 0.015 | TRUE CL. ± 0.015 | |
| MASS: .052 LBS. | MARKING: SEE CHART | 2 PL. DEC. ± 0.015 | FINISH: ± 1 | |
| SURFACE AREA: 2.738 IN² | DATE: 7/27/2007 | SCALE: 3:1 | SHEET 1 OF 1 | |
| STUFFER SHY: FORM 12 | CELL: ABM | SIZE: A | | |

| PART NUMBER | PLATING | SCREW | SCREW ASSY INSTRUCTIONS | MARKING |
|-------------|------------|-------|-------------------------|------------------------|
| G0977A00B | BRIGHT D/P | E1276 | FLUSH TO TOP | GBL-4DB, 4-14, CU, DB |
| G0977A00T | BL-TIN | E1276 | FLUSH TO TOP | GBL-4DBT, 4-14, CU, DB |
| G0977A01T | BL-TIN | E1469 | SLUG TO BOTTOM | GBL-4DBT, 4-14, CU, DB |

THE INFORMATION CONTAINED WITHIN THIS DOCUMENT IS PROPRIETARY TO ILSCO AND MAY NOT BE DISCLOSED WITHOUT PRIOR WRITTEN CONSENT.

CONTRACTOR

REVEL-ENERGY, INC.
2323 MAIN ST.
IRVINE, CA 92614
CSLB #: 1038433 / A, B, C10, C46
(949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A.H.U. OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A.H.U. OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.

SIGNATURE _____ DATE _____ STATE LICENSE NO. 1038433 / A, B, C10, C46

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5220 INDUSTRIAL WAY
COACHELLA, CA 92236

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SYSTEM (PLANT) 3:

SYSTEM SIZE DC STC: 766.65 KW
SYSTEM SIZE AC CEC: 706.18 KW
SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)
INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

GROUNDING

PV 5

SIGNAGE REQUIREMENTS

GENERAL FIRE GUIDELINES &

MARKING REQTS:

SEC. 5. MARKINGS, LABELS, AND WARNING SIGNS.
 A. PURPOSE: PROVIDES EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRICAL SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS THESE SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.
 B. MAIN SERVICE DISCONNECT:
 1. RESIDENTIAL BUILDINGS: THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.
 2. COMMERCIAL BUILDINGS: THE MARKING SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED.
 3. MARKINGS: VERBIAGE, FORMAT, AND TYPE OF MATERIAL.
 A. VERBIAGE:
 CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED
 B. FORMAT:
 (1) WHITE LETTERING ON A RED BACKGROUND.
 (2) MINIMUM 3/8 INCHES LETTER HEIGHT.
 (3) ALL LETTERS SHALL BE CAPITALIZED.
 (4) ARIAL OR SIMILAR FONT, NON-BOLD.
 C. MATERIAL:
 (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL -- 969 AS STANDARD FOR WEATHER RATING). DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.

C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS, AND JUNCTION BOXES:
 1. MARKINGS: PLACEMENT, VERBIAGE, FORMAT, AND TYPE OF MATERIAL.
 A. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT TURNS, ABOVE AND FOR BELOW PENETRATIONS, ALL DC COMBINERS, AND JUNCTION BOXES.
 B. VERBIAGE:
 CAUTION: SOLAR CIRCUIT
 NOTE: THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO "V.B-3B, C" OF THIS REQUIREMENT.
 C. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS.

MATERIALS USED FOR MARKING SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. ALL LABELS SHALL BE WHITE LETTERS ON RED BACKGROUND.

THE MARKINGS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 NEC 110.21

CONTRACTOR

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 2323 MAIN ST.
 IRVINE, CA 92614
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 INVERTER(S): (10) CPS SCA60TL-DO/US-480

DESCRIPTION:

SIGNAGE

PV 6.0

1 COMBINER BOX/ CIRCUITS/ CONDUIT/ COMBINER BOX/ ENCLOSURES/ EMT ENCLOSURES

CEC 690.13(B)
WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

CEC 110.27(C)
WARNING
 TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

3 DC DISCONNECT/ BREAKER/ RECOMBINER BOX

CEC 690.13(B)
WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION
 DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

CEC 690.13(B)
PHOTOVOLTAIC

CEC 690.13(B)
DC DISCONNECT

CEC 690.53
PV INVERTER DC DISCONNECT
 POWER SOURCE OUTPUT
 MAX SYSTEM VOLTAGE: 1000V
 MAX CIRCUIT CURRENT: 204A
 MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): N/A

4 EMT/ DC CONDUIT RACEWAYS

CEC 690.31(G)(3)
WARNING: PHOTOVOLTAIC POWER SOURCE

5 INVERTER

CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 78.4A
 OPERATING VOLTAGE: 480V

6 PRODUCTION/ NET METER

CEC 690.59, 705.12(D)(3)
WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

9 MAIN SERVICE DISCONNECT

CEC 690.13(B)
WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

CEC 690.27(C)
WARNING
 TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

CEC 690.13(F), 705.12(B)(3-4)
CAUTION
 PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED

CEC 690.59, 705.12(B)(3-4)
WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

CEC 705.12(B)(2)(3)(b)
WARNING
 POWER SOURCE OUTPUT CONNECTION - DO NOT RELOCATE THIS OVERCURRENT DEVICE

CEC 110.16
WARNING
 ARC FLASH AND SHOCK HAZARD
 APPROPRIATE PPE AND TOOLS REQUIRED WHILE WORKING ON THIS ENERGIZED EQUIPMENT.

7 AC DISCONNECT/ BREAKER/ POINTS OF CONNECTION

CEC 690.13(B)
PHOTOVOLTAIC

CEC 690.13(B)
AC DISCONNECT

CEC 705.12(B)(2)(3)(b)
WARNING
 POWER SOURCE OUTPUT CONNECTION - DO NOT RELOCATE THIS OVERCURRENT DEVICE

CEC 690.13(B)
WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

SYSTEM 1 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 835A
 OPERATING VOLTAGE: 480V

SYSTEM 2 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 1032A
 OPERATING VOLTAGE: 480V

SYSTEM 3 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 794A
 OPERATING VOLTAGE: 480V

CEC 110.16
WARNING
 ARC FLASH AND SHOCK HAZARD
 APPROPRIATE PPE AND TOOLS REQUIRED WHILE WORKING ON THIS ENERGIZED EQUIPMENT.

8 BREAKER PANEL/ PULL BOXES

CEC 690.13(B)
WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

CEC 690.27(C)
WARNING
 TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

SYSTEM 1 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 835A
 OPERATING VOLTAGE: 480V

SYSTEM 2 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 1032A
 OPERATING VOLTAGE: 480V

SYSTEM 3 CEC 690.54
AC PHOTOVOLTAIC DISCONNECT
 OUTPUT CURRENT: 794A
 OPERATING VOLTAGE: 480V

CEC 110.16
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 ARC FLASH AND SHOCK HAZARD
 APPROPRIATE PPE AND TOOLS REQUIRED WHILE WORKING ON THIS ENERGIZED EQUIPMENT.

10 BY RAPID SHUTDOWN SWITCH (WITHIN 3 FT)

(690.56(C)(1)(a)) YELLOW WITH BLACK LETTERING
SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

*RAPID SHUTDOWN SWITCH CAN BE EITHER THE AC DISCONNECT SWITCH OR A SEPARATE SWITCH. SEE PV 4 FOR TYPE OF RS SWITCH

SYSTEM 1
CEC 705.10 - BY MAIN SERVICE PANEL:

CAUTION

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

SOLAR A/C DISCONNECT

SOLAR INVERTER D/C DISCONNECT

MAIN ELECTRIC SERVICE DISCONNECT

SOLAR A/C DISCONNECT

5220 INDUSTRIAL WAY COACHELLA, CA 92236

WARNING

ELECTRIC SHOCK HAZARD

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

SYSTEM 2
CEC 705.10 - BY MAIN SERVICE PANEL:

CAUTION

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

MAIN ELECTRIC SERVICE DISCONNECT

SOLAR A/C DISCONNECT

SOLAR A/C DISCONNECT

SOLAR INVERTER D/C DISCONNECT

5220 INDUSTRIAL WAY COACHELLA, CA 92236

WARNING

ELECTRIC SHOCK HAZARD

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SYSTEM 3
CEC 705.10 - BY MAIN SERVICE PANEL:

CAUTION

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SOLAR INVERTER D/C DISCONNECT

SOLAR A/C DISCONNECT

MAIN ELECTRIC SERVICE DISCONNECT

PV SOLAR ARRAY(S)

5220 INDUSTRIAL WAY COACHELLA, CA 92236

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2 BUILDING / STRUCTURE

SIGNAGE REQUIREMENTS

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DESCRIPTION:

DIRECTORY PLACARDS

PV 6.1

