

# GLENN COUNTY

## Planning & Community Development Services Agency

225 North Tehama Street  
Willows, CA 95988  
530.934.6540  
[www.countyofglenn.net](http://www.countyofglenn.net)



Mardy Thomas, Director

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Ledbetter Electric, Inc.  
1004 Yuba Street  
Marysville, CA 95901  
(530) 237-3288  
[office@ledbetterelectric.com](mailto:office@ledbetterelectric.com)

December 20, 2023

**RE: Site Plan Review 2023-009, Ledbetter Electric Inc., Solar**  
APN: 021-030-042

To Whom It May Concern,

On November 17, 2023, the Glenn County Planning & Community Development Services Agency received your application for a Site Plan Review. This project is located in the "FS-80" (Farmland Security) zoning district and is an allowed use with an approved Site Plan Review.

On December 20, 2023, the Glenn County Planning & Community Development Services Agency approved the Site Plan Review. Included with the Staff Report is a copy of the Compliance Requirements.

Please sign the Compliance Requirements as indicated and return by email, or send to the Glenn County Planning & Community Development Services Agency, at 225 N Tehama Street, Willows, CA 95988.

Please note that this is not a building permit. For information on acquiring a building permit, contact the Glenn County Building Inspection Division at (530) 934-6546.

Sincerely,

Marie Amaro  
Assistant Planner  
[mamaro@countyofglenn.net](mailto:mamaro@countyofglenn.net)

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# GLENN COUNTY

## Planning & Community Development Services Agency

225 North Tehama Street  
Willows, CA 95988  
530.934.6540  
[www.countyofglenn.net](http://www.countyofglenn.net)



Mardy Thomas, Director

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### STAFF REPORT

DATE: December 20, 2023  
TO: Mardy Thomas, Director  
FROM: Marie Amaro, Assistant Planner  
RE: **Site Plan Review 2023-009, Ledbetter Electric Inc., Solar**

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#### Attachments:

1. Compliance Requirement(s)
2. Agency Comments
3. Request for Review
4. Application
5. Site Plan

## **1 PROJECT SUMMARY**

Ledbetter Electric Inc. has applied for SPR2023-009 to install a 734.4 kW ground mounted photovoltaic solar array. The array will include 1,400 525W bi-facial solar modules, and be approximately 68,900 square feet.

The project is located west of County Road D, north of County Road 48, south of County Road 35, and east of Salt Gulch within the unincorporated area of Glenn County, California. N 39 56' 79.47 (Latitude), W -122 24' 96.45 (Longitude).

The Assessor's Parcel Number (APN) for the 284.56± acre site is 021-030-042. The site is zoned "FS-80" Farmland Security Zone (72-acre, minimum parcel size) and is designated "Intensive Agriculture" in the Glenn County General Plan.

### **1.1 RECOMMENDATIONS**

Staff recommends that the Director find that this project qualifies as a statutory exemption within section 15268 of the California Environmental Quality Act.

Staff also recommends that the Director approve the Site Plan Review with the Findings as presented in the Staff Report and the Compliance Requirement as attached.

## **2 ANALYSIS**

The proposed project is consistent with the land use in this area. This area of Glenn County is agricultural and the proposed project is a permitted use with an approved Site Plan Review. A Site Plan Review is required prior to construction to ensure compliance with all the requirements of the Glenn County Code.

This proposal will not have significant accompanying traffic; the property is used for agriculture and the use will continue with this proposal. Surrounding county roads are reasonably adequate to safely accommodate the proposed project (Finding 5).

### **2.1 ENVIRONMENTAL DETERMINATION**

This project as proposed is not anticipated to introduce potentially significant impacts to the environment.

Site plan reviews are statutorily exempt pursuant to Section 15268, "Ministerial Projects", of the Guidelines of the California Environmental Quality Act (CEQA). Article 18 (Statutory Exemptions), §15268 (a) & (c) (Ministerial Projects).

Site plan reviews, outlined in Section 25.13 of the Glenn County Code, are deemed a ministerial project within Glenn County Title 15, Unified Development Code (Title 15, Division 2, Part 1).

## **2.2 GENERAL PLAN AND ZONING CONSISTENCY**

The site is designated “Intensive Agriculture” in the Glenn County General Plan and is zoned “FS-80” Farmland Security Zone (72-acre, minimum parcel size). The site is in an area of existing agricultural uses and the proposed solar array is a permitted use within the “FS-80” zone with an approved Site Plan Review (Glenn County Chapter 15.86.030.A.) (Finding 1). The proposal will not adversely affect the surrounding uses in the area and will not adversely affect the General Plan (Finding 4).

### **2.2.1 “FS” Farmland Security Zone (Glenn County Code Chapter 15.86):**

Permitted Uses (Glenn County Code §15.86.030)

#### *A. Permits Required*

The proposed solar array is approximately 1.58± acres. Solar arrays with a footprint larger than ½ (0.5) acre, but a footprint less than 5 acres (and an accessory use) require a Site Plan Review (§15.86.030.D).

#### *G. General Requirements*

All power generation uses allowed in an Agriculture or Williamson Act zoning district, as defined by Section 15.86.030.A, shall comply with Chapter 15.58 of this Title. The applicant has applied for a Site Plan Review as required by Section 15.86.030.A and provided all information necessary to review the proposal.

#### Maximum Building Height (Glenn County Code §15.47.060):

The peak height of the proposed project is approximately 6.5 ft. and will meet the maximum height requirement for the Farmland Security Zone of 50 feet per §15.47.060(B).

#### Minimum Yard Requirements (Glenn County Code §15.47.080):

The proposed front, side, and rear yards exceed 60 feet; therefore, the minimum yard requirements for the Farmland Security Zone will be met.

## **2.3 WILLIAMSON ACT CONTRACT**

The project site is zoned FS-80 and is under a Land Conservation Contract 8-188. According to California Government Code Section 51238.1, uses approved on contracted land shall be consistent with the principles found in that statute. The proposal is for the construction of an Agriculture Accessory Structure (onsite solar). The proposal will not displace or impair current or reasonably foreseeable agriculture operations; will not result in the removal of significant land from agriculture or open-space use and is not a residential subdivision. It is concluded this proposal is consistent with principles found in Section 51238.1 of the California Government Code. Additionally, this proposal would not represent a violation of Section 51250 of the California Government Code, as the proposal is for the expansion of an Agriculture Accessory Structure.

## 2.4 GENERAL PROVISIONS

### Flood Zone Designation:

The project is located within Flood Zone “A” (shaded) 06021C0600D, dated August 5, 2010 issued by the Federal Emergency Management Agency (FEMA). Flood Zone A consists of areas with a 1% chance of flooding. No depths or base flood elevations are shown within these zones.

### Code Violations:

No records of violations were noted on the property; therefore, the proposed building and Site Plan Review are compliant with Glenn County Code §15.13.050.F (Finding 6).

## 2.5 AGENCY COMMENTS

### Central Valley Regional Water Quality Control Board

The Central Valley Regional Water Quality Control Board was provided the application information regarding the proposal and responded with the following:

#### Comment:

1. Construction activity, including demolition, resulting in a land disturbance of one acre or more must obtain coverage under the CGP. The Project must be conditioned to implement storm water pollution controls during construction and post-construction as required by the CGP. To apply for coverage under the CGP the property owner must submit Permit Registration Documents electronically prior to construction.

### Department of Conservation

The California Department of Conservation, Geologic Energy Management Division was provided the application information regarding the proposal and responded with the following:

#### Comment:

1. Our records indicate that there are no known oil or gas wells located within the project boundary as identified in the application.
2. The Division recommends that any soil containing hydrocarbons be disposed of in accordance with local, state, and federal laws. Please notify the appropriate authorities if soil containing significant amounts of hydrocarbons is discovered during development.

### Environmental Health

The Glenn County Environmental Health Department was provided the application information regarding the proposal and recommended it be found complete for further processing. They also responded with the following:

#### Comment:

1. The parcel has a proposed agricultural water well.

### Pacific Gas and Electric Company

Pacific Gas and Electric Company (PG&E) was provided the application information regarding the proposal and replied with no comments or conditions, as per the attached response.

## **3 NOTICE TO APPLICANT/AGENT**

This site plan review is not a building permit. It is the applicant's responsibility to secure the necessary permits in all affected federal, state, and local agencies and submit copies of such permits to the Planning & Community Development Services Agency.

If upon approval of this site plan review any problem, nuisance, or health hazard arises from the operation allowed by this review, the director shall determine the need to revise or modify the use or require additional Compliance Requirements.

In addition to the staff report and Compliance Requirement, the applicant's and his/her technical or project management representative's attention is directed to the attached memoranda from agencies reflecting their comments on reviewing the application. The items noted are a guide to assist in meeting the requirements of applicable government codes. Memoranda may also note any unusual circumstances that require special attention. The items listed are a guide and not intended to be a comprehensive summary of all codified requirements or site-specific requirements.

### **3.1 PERMIT ISSUANCE AND APPEAL PERIOD (GLENN COUNTY CODE §15.13.060)**

Site plan reviews shall be effective upon issuance, unless within ten (10) calendar days of a decision by the Director, the decision is appealed as provided for in Section 15.05.010. In the case of an appeal being filed, the site plan review permit shall not have any force or effect until a decision is made by the Approving Authority on such an appeal.

Additionally, site plan review permit approvals shall not be valid until the permittee has agreed in writing to each term and requirement thereof.

## **4 FINDINGS**

As described and found in this report, and in accordance with Glenn County Code Section 15.13.050.

### Finding 1:

The proposed use is a permitted and allowed use in the "FS-80" zoning district.

### Finding 2:

The site for the project is adequate in size, shape, location, and physical characteristics to accommodate the proposed project.

Finding 3:

Based on responsible agency review of the project, there are adequate public or private services, including but not limited to fire protection, water supply, sewage disposal, and storm drainage.

Finding 4:

The project is in conformance with the applicable provisions and policies of Title 15 of the Glenn County Code and the Glenn County General Plan.

Finding 5:

The county roads which serve the project are reasonably adequate to safely accommodate the proposed project.

Finding 6:

After searching county records, no violation of the Glenn County Code currently exists on the property.

COMPLIANCE REQUIREMENTS

**Site Plan Review 2023-009, Ledbetter Electric Inc.**

**Solar Array**

APN: 021-030-042

Compliance Requirement: Site Plan

1. That the area of operation shall be confined to those areas as shown on the site plan as submitted and on file at the Glenn County Planning & Community Development Services Agency.

Compliance Requirement: Central Valley Regional Water Quality Control Board

2. That construction activity, including demolition, resulting in a land disturbance of one acre or more must obtain coverage under the CGP. The Project must be conditioned to implement storm water pollution controls during construction and post-construction as required by the CGP. To apply for coverage under the CGP the property owner must submit Permit Registration Documents electronically prior to construction.

Acknowledgment:

I hereby declare that I have read the foregoing requirements that they are in fact the requirements that were imposed upon the granting of this permit, and that I agree to abide fully by said conditions. Additionally, I have read the staff report and I am aware of codified county, state, and/or federal standards and regulation that shall be met with the granting of this permit.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Jarred Glenn, Applicant





12/04/2023

County: Glenn - Planning & Community Development Services Agency  
Marie Amaro  
mamaro@countyofglenn.net

Construction Site Well Review (CSWR) ID: 1012925

Assessor Parcel Number(s): 0210300350

Property Owner(s): Amande Glenn Farm LLC

Project Location Address: Unincorporated area of Glenn County, California. (Lat:39.572316, Long:-122.280509), California 95988

Project Title: Site Plan Review 2023-009, Ledbetter Electric Inc., Solar

Public Resources Code (PRC) § 3208.1 establishes well reabandonment responsibility when a previously plugged and abandoned well will be impacted by planned property development or construction activities. Local permitting agencies, property owners, and/or developers should be aware of, and fully understand, that significant and potentially dangerous issues may be associated with development near oil, gas, and geothermal wells.

The California Geologic Energy Management Division (CalGEM) has received and reviewed the above referenced project dated 12/4/2023. To assist local permitting agencies, property owners, and developers in making wise land use decisions regarding potential development near oil, gas, or geothermal wells, the Division provides the following well evaluation.

The project is located in Glenn County, within the boundaries of the following fields:

N/A

Our records indicate there are no known oil or gas wells located within the project boundary as identified in the application.

- Number of wells Not Abandoned to Current Division Requirements as Prescribed by Law and Projected to Be Built Over or Have Future Access Impeded by this project: 0
- Number of wells Not Abandoned to Current Division Requirements as Prescribed by Law and Not Projected to Be Built Over or Have Future Access Impeded by this project: 0
- Number of wells Abandoned to Current Division Requirements as Prescribed by Law and Projected to Be Built Over or Have Future Access Impeded by this project: 0
- Number of wells Abandoned to Current Division Requirements as Prescribed by Law and Not Projected to Be Built Over or Have Future Access Impeded by this project: 0

The Division categorically advises against building over, or in any way impeding access to, oil, gas, or geothermal wells. Impeding access to a well could result in the need to remove any structure or obstacle that prevents or impedes access including, but not limited to, buildings, housing, fencing, landscaping, trees, pools, patios, sidewalks, roadways, and decking. Maintaining sufficient access is considered the ability for a well servicing unit and associated necessary equipment to reach a well from a public street or access way, solely over the parcel on which the well is located. A well servicing unit, and any necessary equipment, should be able to pass unimpeded along and over the route, and should be able to access the well without disturbing the integrity of surrounding infrastructure.

There are no guarantees a well abandoned in compliance with current Division requirements as prescribed by law will not start leaking in the future. It always remains a possibility that any well may start to leak oil, gas, and/or water after abandonment, no matter how thoroughly the well was plugged and abandoned. The Division acknowledges wells plugged and abandoned to the most current Division requirements as prescribed by law have a lower probability of leaking in the future, however there is no guarantees that such abandonments will not leak.

The Division advises that all wells identified on the development parcel prior to, or during, development activities be tested for liquid and gas leakage. Surveyed locations should be provided to the Division in Latitude and Longitude, NAD 83 decimal format. The Division expects any wells found leaking to be reported to it immediately.

Failure to plug and reabandon the well may result in enforcement action, including an order to perform reabandonment well work, pursuant to PRC § 3208.1, and 3224.

PRC § 3208.1 give the Division the authority to order or permit the re-abandonment of any well where it has reason to question the integrity of the previous abandonment, or if the well is not accessible or visible. Responsibility for re-abandonment costs may be affected by the choices made by the local

permitting agency, property owner, and/or developer in considering the general advice set forth in this letter. The PRC continues to define the person or entity responsible for reabandonment as:

1. The property owner - If the well was plugged and abandoned in conformance with Division requirements at the time of abandonment, and in its current condition does not pose an immediate danger to life, health, and property, but requires additional work solely because the owner of the property on which the well is located proposes construction on the property that would prevent or impede access to the well for purposes of remedying a currently perceived future problem, then the owner of the property on which the well is located shall obtain all rights necessary to reabandon the well and be responsible for the reabandonment.
2. The person or entity causing construction over or near the well - If the well was plugged and abandoned in conformance with Division requirements at the time of plugging and abandonment, and the property owner, developer, or local agency permitting the construction failed either to obtain an opinion from the supervisor or district deputy as to whether the previously abandoned well is required to be reabandoned, or to follow the advice of the supervisor or district deputy not to undertake the construction, then the person or entity causing the construction over or near the well shall obtain all rights necessary to reabandon the well and be responsible for the reabandonment.
3. The party or parties responsible for disturbing the integrity of the abandonment - If the well was plugged and abandoned in conformance with Division requirements at the time of plugging and abandonment, and after that time someone other than the operator or an affiliate of the operator disturbed the integrity of the abandonment in the course of developing the property, then the party or parties responsible for disturbing the integrity of the abandonment shall be responsible for the reabandonment.

No well work may be performed on any oil, gas, or geothermal well without written approval from the Division. Well work requiring approval includes, but is not limited to, mitigating leaking gas or other fluids from abandoned wells, modifications to well casings, and/or any other re-abandonment work. The Division also regulates the top of a plugged and abandoned well's minimum and maximum depth below final grade. CCR §1723.5 states well casings shall be cut off at least 5 feet but no more than 10 feet below grade. If any well needs to be lowered or raised (i.e. casing cut down or casing riser added) to meet this regulation, a permit from the Division is required before work can start.

The Division makes the following additional recommendations to the local permitting agency, property owner, and developer:

1. To ensure that present and future property owners are aware of (a) the existence of all wells located on the property, and (b) potentially significant issues associated with any improvements

near oil or gas wells, the Division recommends that information regarding the above identified well(s), and any other pertinent information obtained after the issuance of this letter, be communicated to the appropriate county recorder for inclusion in the title information of the subject real property.

2. The Division recommends that any soil containing hydrocarbons be disposed of in accordance with local, state, and federal laws. Please notify the appropriate authorities if soil containing significant amounts of hydrocarbons is discovered during development.

As indicated in PRC § 3106, the Division has statutory authority over the drilling, operation, maintenance, and abandonment of oil, gas, and geothermal wells, and attendant facilities, to prevent, as far as possible, damage to life, health, property, and natural resources; damage to underground oil, gas, and geothermal deposits; and damage to underground and surface waters suitable for irrigation or domestic purposes. In addition to the Division's authority to order work on wells pursuant to PRC §§ 3208.1 and 3224, it has authority to issue civil and criminal penalties under PRC §§ 3236, 3236.5, and 3359 for violations within the Division's jurisdictional authority. The Division does not regulate grading, excavations, or other land use issues.

If during development activities, any wells are encountered that were not part of this review, the property owner is expected to immediately notify the Division's construction site well review engineer in the Northern district office, and file for Division review an amended site plan with well casing diagrams. The District office will send a follow-up well evaluation letter to the property owner and local permitting agency.

Should you have any questions, please contact me at (916) 203-7734 or via email at [Erwin.Sison@conservation.ca.gov](mailto:Erwin.Sison@conservation.ca.gov).

Sincerely,

Erwin Sison  
Senior Oil and Gas Engineer (Supervisor)

cc: Kelly Morgan - Submitter  
cc: Marie Amaro - Plan Checker



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## Central Valley Regional Water Quality Control Board

22 November 2023

Marie Amaro, Assistant Planner  
Glenn County Planning & Community Development Services Agency  
225 North Tehama Street  
Willows, CA 95988

### **COMMENTS ON SITE PLAN REVIEW 2023-009, LEDBETTER ELECTRIC, INC., SOLAR, APN NUMBER 021-030-042, GLENN COUNTY**

The Central Valley Regional Water Quality Control Board (Central Valley Water Board) is a responsible agency for this project, as defined by the California Environmental Quality Act (CEQA). On 21 November 2023, we received your request for comments on Site Plan Review 2023-009, Ledbetter Electric, Inc., Solar (Project).

The applicant proposes to install a 734.4 kW ground mounted photovoltaic solar array. The array will include 1,400 525W bi-facial solar modules and will be 68,900 square feet in total. The Project site is located west of County Road D, north of County Road 48, south of County Road 35, and east of Salt Gulch within the unincorporated area of Glenn County.

Based on our review of the information submitted for the proposed project, we have the following comments:

#### General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (CGP)

Construction activity, including demolition, resulting in a land disturbance of one acre or more must obtain coverage under the CGP. The Project must be conditioned to implement storm water pollution controls during construction and post-construction as required by the CGP. To apply for coverage under the CGP the property owner must submit Permit Registration Documents electronically prior to construction. Detailed information on the CGP can be found on the State Water Board website [Water Boards Stormwater Construction Permits](https://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml) ([https://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](https://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml)).

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MARK BRADFORD, CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

If you have any questions or comments regarding this matter, please contact me at (530) 224-4784 or by email at [Jerred.Ferguson@waterboards.ca.gov](mailto:Jerred.Ferguson@waterboards.ca.gov).

Jerred Ferguson  
Environmental Scientist  
Storm Water & Water Quality Certification Unit

JTF: db

cc:  
via email: Ledbetter Electric, Inc., Marysville  
Jarred Glenn, Ledbetter Electric, Inc., Marysville

# GLENN COUNTY

## Planning & Community Development Services Agency Environmental Health Department

225 N Tehama St.  
Willows, CA 95988  
Tel: 530.934.6102 Fax: 530.934.6103  
[www.countyofglenn.net](http://www.countyofglenn.net)



Mardy Thomas, Director

Date: November 27, 2023

To: Marie Amaro, Assistant Planner  
Planning & Community Development Services Agency (PCDSA)  
(Via Email)

From: Kevin Backus, REHS  
Director, PCDSA - Environmental Health Department

Re: Site Plan Review 2023-009, APN 021-030-042, Ledbetter Electric Inc., (Solar)

We have reviewed the application information for the project noted above and recommend it be found complete for further processing. We have the following comments:

1. The parcel has a proposed agricultural water well.

Please contact Environmental Health at 530-934-6102 with any questions on this matter.

**RE: SPR2023-009, Ledbetter Electric Inc., Request for Review**

Newell, Justin &lt;J2NF@pge.com&gt;

Fri 12/1/2023 11:44 AM

To: Marie Amaro &lt;mamaro@countyofglenn.net&gt;

You don't often get email from j2nf@pge.com. [Learn why this is important](#)

**Classification: Public**

Hello Marie,

The applicant may explore PG&E's Interconnection and EGI resources at: [Interconnections \(pge.com\)](#). This webpage should have all necessary resources for the applicant to explore interconnection and apply for their project as needed. There are no impact to PG&E facilities or easements.

Thank you,

**Justin Newell** | Land Agent | Land Rights Records

Pacific Gas and Electric Company

916-594-4068

Click here to access the [PG&E Greenbook](#)Click here to [Submit an Application](#)Click here to access [Customer Connections Online](#)

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**From:** PGE Plan Review**Sent:** Tuesday, November 21, 2023 11:50 AM**To:** Marie Amaro <mamaro@countyofglenn.net>**Subject:** RE: SPR2023-009, Ledbetter Electric Inc., Request for Review**Classification: Public**

Dear Marie Amaro,

Thank you for submitting the SPR2023-009 plans. The PG&E Plan Review Team is currently reviewing the information provided. Should this project have the potential to interfere with PG&E's facilities, we intend to respond to you with project specific comments. Attached is some general information when working near PG&E facilities that must be adhered to when working near PG&E's facilities and land rights.

This email and attachment does not constitute PG&E's consent to use any portion of PG&E's land rights for any purpose not previously conveyed. If there are subsequent modifications made to your design, we ask that you resubmit the plans to the email address listed below.

If you have any questions regarding our response, please contact the PG&E Plan Review Team at [pgeplanreview@pge.com](mailto:pgeplanreview@pge.com).

Thank you,





**Pacific Gas and Electric Company**

**Plan Review Team**

Email: [pgeplanreview@pge.com](mailto:pgeplanreview@pge.com)

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**From:** Marie Amaro <[mamaro@countyofglenn.net](mailto:mamaro@countyofglenn.net)>  
**Sent:** Tuesday, November 21, 2023 10:26 AM  
**Cc:** Planning Email Group <[Planning@countyofglenn.net](mailto:Planning@countyofglenn.net)>  
**Subject:** SPR2023-009, Ledbetter Electric Inc., Request for Review

**CAUTION: EXTERNAL SENDER!**

This email was sent from an EXTERNAL source. Do you know this person? Are you expecting this email? Are you expecting any links or attachments? If suspicious, do not click links, open attachments, or provide credentials. Don't delete it. **Report it by using the "Report Phish" button.**

To Whom it May Concern,

Please accept the following Request for Review for comments.

[SPR2023-009, Ledbetter Electric Inc., Request for Review.pdf](#)

Comments are being requested by Tuesday, December 5, 2023.

Thank you for your time and consideration regarding this matter.

Sincerely,

Marie Amaro, Assistant Planner  
Glenn County Planning &  
Community Development Services Agency  
225 North Tehama Street  
Willows, CA 95988  
530-934-6540

You can read about PG&E's data privacy practices at [PGE.com/privacy](https://www.pge.com/privacy).



November 21, 2023

Marie Amaro  
County of Glenn  
225 North Tehama St  
Willows, CA 95988

Ref: Gas and Electric Transmission and Distribution

Dear Marie Amaro,

Thank you for submitting the SPR2023-009 plans for our review. PG&E will review the submitted plans in relationship to any existing Gas and Electric facilities within the project area. If the proposed project is adjacent/or within PG&E owned property and/or easements, we will be working with you to ensure compatible uses and activities near our facilities.

Attached you will find information and requirements as it relates to Gas facilities (Attachment 1) and Electric facilities (Attachment 2). Please review these in detail, as it is critical to ensure your safety and to protect PG&E's facilities and its existing rights.

Below is additional information for your review:

1. This plan review process does not replace the application process for PG&E gas or electric service your project may require. For these requests, please continue to work with PG&E Service Planning: [https://www.pge.com/en\\_US/business/services/building-and-renovation/overview/overview.page](https://www.pge.com/en_US/business/services/building-and-renovation/overview/overview.page).
2. If the project being submitted is part of a larger project, please include the entire scope of your project, and not just a portion of it. PG&E's facilities are to be incorporated within any CEQA document. PG&E needs to verify that the CEQA document will identify any required future PG&E services.
3. An engineering deposit may be required to review plans for a project depending on the size, scope, and location of the project and as it relates to any rearrangement or new installation of PG&E facilities.

Any proposed uses within the PG&E fee strip and/or easement, may include a California Public Utility Commission (CPUC) Section 851 filing. This requires the CPUC to render approval for a conveyance of rights for specific uses on PG&E's fee strip or easement. PG&E will advise if the necessity to incorporate a CPUC Section 851 filing is required.

This letter does not constitute PG&E's consent to use any portion of its easement for any purpose not previously conveyed. PG&E will provide a project specific response as required.

Sincerely,

Plan Review Team  
Land Management

## Attachment 1 – Gas Facilities

There could be gas transmission pipelines in this area which would be considered critical facilities for PG&E and a high priority subsurface installation under California law. Care must be taken to ensure safety and accessibility. So, please ensure that if PG&E approves work near gas transmission pipelines it is done in adherence with the below stipulations. Additionally, the following link provides additional information regarding legal requirements under California excavation laws: <https://www.usanorth811.org/images/pdfs/CA-LAW-2018.pdf>

1. **Standby Inspection:** A PG&E Gas Transmission Standby Inspector must be present during any demolition or construction activity that comes within 10 feet of the gas pipeline. This includes all grading, trenching, substructure depth verifications (potholes), asphalt or concrete demolition/removal, removal of trees, signs, light poles, etc. This inspection can be coordinated through the Underground Service Alert (USA) service at 811. A minimum notice of 48 hours is required. Ensure the USA markings and notifications are maintained throughout the duration of your work.
2. **Access:** At any time, PG&E may need to access, excavate, and perform work on the gas pipeline. Any construction equipment, materials, or spoils may need to be removed upon notice. Any temporary construction fencing installed within PG&E's easement would also need to be capable of being removed at any time upon notice. Any plans to cut temporary slopes exceeding a 1:4 grade within 10 feet of a gas transmission pipeline need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.
3. **Wheel Loads:** To prevent damage to the buried gas pipeline, there are weight limits that must be enforced whenever any equipment gets within 10 feet of traversing the pipe.

Ensure a list of the axle weights of all equipment being used is available for PG&E's Standby Inspector. To confirm the depth of cover, the pipeline may need to be potholed by hand in a few areas.

Due to the complex variability of tracked equipment, vibratory compaction equipment, and cranes, PG&E must evaluate those items on a case-by-case basis prior to use over the gas pipeline (provide a list of any proposed equipment of this type noting model numbers and specific attachments).

No equipment may be set up over the gas pipeline while operating. Ensure crane outriggers are at least 10 feet from the centerline of the gas pipeline. Transport trucks must not be parked over the gas pipeline while being loaded or unloaded.

4. **Grading:** PG&E requires a minimum of 36 inches of cover over gas pipelines (or existing grade if less) and a maximum of 7 feet of cover at all locations. The graded surface cannot exceed a cross slope of 1:4.
5. **Excavating:** Any digging within 2 feet of a gas pipeline must be dug by hand. Note that while the minimum clearance is only 24 inches, any excavation work within 24 inches of the edge of a pipeline must be done with hand tools. So to avoid having to dig a trench entirely with hand tools, the edge of the trench must be over 24 inches away. (Doing the math for a 24 inch



wide trench being dug along a 36 inch pipeline, the centerline of the trench would need to be at least 54 inches [ $24/2 + 24 + 36/2 = 54$ ] away, or be entirely dug by hand.)

Water jetting to assist vacuum excavating must be limited to 1000 psig and directed at a 40° angle to the pipe. All pile driving must be kept a minimum of 3 feet away.

Any plans to expose and support a PG&E gas transmission pipeline across an open excavation need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.

6. Boring/Trenchless Installations: PG&E Pipeline Services must review and approve all plans to bore across or parallel to (within 10 feet) a gas transmission pipeline. There are stringent criteria to pothole the gas transmission facility at regular intervals for all parallel bore installations.

For bore paths that cross gas transmission pipelines perpendicularly, the pipeline must be potholed a minimum of 2 feet in the horizontal direction of the bore path and a minimum of 24 inches in the vertical direction from the bottom of the pipe with minimum clearances measured from the edge of the pipe in both directions. Standby personnel must watch the locator trace (and every ream pass) the path of the bore as it approaches the pipeline and visually monitor the pothole (with the exposed transmission pipe) as the bore traverses the pipeline to ensure adequate clearance with the pipeline. The pothole width must account for the inaccuracy of the locating equipment.

7. Substructures: All utility crossings of a gas pipeline should be made as close to perpendicular as feasible ( $90^\circ \pm 15^\circ$ ). All utility lines crossing the gas pipeline must have a minimum of 24 inches of separation from the gas pipeline. Parallel utilities, pole bases, water line 'kicker blocks', storm drain inlets, water meters, valves, back pressure devices or other utility substructures are not allowed in the PG&E gas pipeline easement.

If previously retired PG&E facilities are in conflict with proposed substructures, PG&E must verify they are safe prior to removal. This includes verification testing of the contents of the facilities, as well as environmental testing of the coating and internal surfaces. Timelines for PG&E completion of this verification will vary depending on the type and location of facilities in conflict.

8. Structures: No structures are to be built within the PG&E gas pipeline easement. This includes buildings, retaining walls, fences, decks, patios, carports, septic tanks, storage sheds, tanks, loading ramps, or any structure that could limit PG&E's ability to access its facilities.

9. Fencing: Permanent fencing is not allowed within PG&E easements except for perpendicular crossings which must include a 16 foot wide gate for vehicular access. Gates will be secured with PG&E corporation locks.

10. Landscaping: Landscaping must be designed to allow PG&E to access the pipeline for maintenance and not interfere with pipeline coatings or other cathodic protection systems. No trees, shrubs, brush, vines, and other vegetation may be planted within the easement area. Only those plants, ground covers, grasses, flowers, and low-growing plants that grow unsupported to a maximum of four feet (4') in height at maturity may be planted within the easement area.



11. Cathodic Protection: PG&E pipelines are protected from corrosion with an “Impressed Current” cathodic protection system. Any proposed facilities, such as metal conduit, pipes, service lines, ground rods, anodes, wires, etc. that might affect the pipeline cathodic protection system must be reviewed and approved by PG&E Corrosion Engineering.

12. Pipeline Marker Signs: PG&E needs to maintain pipeline marker signs for gas transmission pipelines in order to ensure public awareness of the presence of the pipelines. With prior written approval from PG&E Pipeline Services, an existing PG&E pipeline marker sign that is in direct conflict with proposed developments may be temporarily relocated to accommodate construction work. The pipeline marker must be moved back once construction is complete.

13. PG&E is also the provider of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E’s facilities must be reviewed and approved by PG&E to ensure that no impact occurs which may endanger the safe operation of its facilities.



## Attachment 2 – Electric Facilities

It is PG&E's policy to permit certain uses on a case by case basis within its electric transmission fee strip(s) and/or easement(s) provided such uses and manner in which they are exercised, will not interfere with PG&E's rights or endanger its facilities. Some examples/restrictions are as follows:

1. Buildings and Other Structures: No buildings or other structures including the foot print and eave of any buildings, swimming pools, wells or similar structures will be permitted within fee strip(s) and/or easement(s) areas. PG&E's transmission easement shall be designated on subdivision/parcel maps as **"RESTRICTED USE AREA – NO BUILDING."**
2. Grading: Cuts, trenches or excavations may not be made within 25 feet of our towers. Developers must submit grading plans and site development plans (including geotechnical reports if applicable), signed and dated, for PG&E's review. PG&E engineers must review grade changes in the vicinity of our towers. No fills will be allowed which would impair ground-to-conductor clearances. Towers shall not be left on mounds without adequate road access to base of tower or structure.
3. Fences: Walls, fences, and other structures must be installed at locations that do not affect the safe operation of PG&E's facilities. Heavy equipment access to our facilities must be maintained at all times. Metal fences are to be grounded to PG&E specifications. No wall, fence or other like structure is to be installed within 10 feet of tower footings and unrestricted access must be maintained from a tower structure to the nearest street. Walls, fences and other structures proposed along or within the fee strip(s) and/or easement(s) will require PG&E review; submit plans to PG&E Centralized Review Team for review and comment.
4. Landscaping: Vegetation may be allowed; subject to review of plans. On overhead electric transmission fee strip(s) and/or easement(s), trees and shrubs are limited to those varieties that do not exceed 10 feet in height at maturity. PG&E must have access to its facilities at all times, including access by heavy equipment. No planting is to occur within the footprint of the tower legs. Greenbelts are encouraged.
5. Reservoirs, Sumps, Drainage Basins, and Ponds: Prohibited within PG&E's fee strip(s) and/or easement(s) for electric transmission lines.
6. Automobile Parking: Short term parking of movable passenger vehicles and light trucks (pickups, vans, etc.) is allowed. The lighting within these parking areas will need to be reviewed by PG&E; approval will be on a case by case basis. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications. Blocked-up vehicles are not allowed. Carports, canopies, or awnings are not allowed.
7. Storage of Flammable, Explosive or Corrosive Materials: There shall be no storage of fuel or combustibles and no fueling of vehicles within PG&E's easement. No trash bins or incinerators are allowed.



8. Streets and Roads: Access to facilities must be maintained at all times. Street lights may be allowed in the fee strip(s) and/or easement(s) but in all cases must be reviewed by PG&E for proper clearance. Roads and utilities should cross the transmission easement as nearly at right angles as possible. Road intersections will not be allowed within the transmission easement.

9. Pipelines: Pipelines may be allowed provided crossings are held to a minimum and to be as nearly perpendicular as possible. Pipelines within 25 feet of PG&E structures require review by PG&E. Sprinklers systems may be allowed; subject to review. Leach fields and septic tanks are not allowed. Construction plans must be submitted to PG&E for review and approval prior to the commencement of any construction.

10. Signs: Signs are not allowed except in rare cases subject to individual review by PG&E.

11. Recreation Areas: Playgrounds, parks, tennis courts, basketball courts, barbecue and light trucks (pickups, vans, etc.) may be allowed; subject to review of plans. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications.

12. Construction Activity: Since construction activity will take place near PG&E's overhead electric lines, please be advised it is the contractor's responsibility to be aware of, and observe the minimum clearances for both workers and equipment operating near high voltage electric lines set out in the High-Voltage Electrical Safety Orders of the California Division of Industrial Safety (<https://www.dir.ca.gov/Title8/sb5g2.html>), as well as any other safety regulations. Contractors shall comply with California Public Utilities Commission General Order 95 ([http://www.cpuc.ca.gov/gos/GO95/go\\_95\\_startup\\_page.html](http://www.cpuc.ca.gov/gos/GO95/go_95_startup_page.html)) and all other safety rules. No construction may occur within 25 feet of PG&E's towers. All excavation activities may only commence after 811 protocols has been followed.

Contractor shall ensure the protection of PG&E's towers and poles from vehicular damage by (installing protective barriers) Plans for protection barriers must be approved by PG&E prior to construction.

13. PG&E is also the owner of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs that may endanger the safe and reliable operation of its facilities.

# GLENN COUNTY

## Planning & Community Development Services Agency

225 North Tehama Street  
Willows, CA 95988  
530.934.6540  
[www.countyofglenn.net](http://www.countyofglenn.net)



Mardy Thomas, Director

### REQUEST FOR REVIEW

#### COUNTY DEPARTMENTS/DISTRICTS

- Glenn County Agricultural Commissioner
- Glenn County Air Pollution Control District/CUPA
- Glenn County Assessor
- Glenn County Building Inspector
- Glenn County Engineering & Surveying Division
- Glenn County Environmental Health Department
- Glenn County Sheriff's Department
- Glenn County Board of Supervisors
- Glenn County Counsel
- Glenn County Planning Commission
- Glenn LAFCO

#### FEDERAL AGENCIES

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- U.S. Department of Agriculture
- U.S. Bureau of Reclamation – Willows

#### OTHER

- Western Area Power Administration
- Sacramento River National Wildlife Refuge
- City of:
- Community Services District:
- Pacific Gas and Electric Company (PG&E)
- Fire Protection District: Kanawha
- Glenn County Resource Conservation District
- School District:

#### STATE AGENCIES

- Central Valley Flood Protection Board
- Central Valley Regional Water Quality Control Board (RWQCB)
- State Water Resources Control Board – Division of Drinking Water
- Department of Alcoholic Beverage Control (ABC)
- Department of Conservation, Division of Land Resource Protection
- Department of Conservation, Office of Mine Reclamation (OMR)
- Dept. of Conservation, Division of Oil, Gas, and Geothermal Resources
- Department of Fish and Wildlife
- Department of Food and Agriculture
- Department of Forestry and Fire Protection (Cal Fire)
- Department of Housing and Community Development (HCD)
- Department of Public Health
- Department of Toxic Substances Control (DTSC)
- Department of Transportation (Caltrans)
- Department of Water Resources (DWR)
- Office of the State Fire Marshal
- CalRecycle

- NE Center of the CA Historical Resources Information System
- Railroad:
- Reclamation District:
- Water/Irrigation District:
- Special District:
- Tehama-Colusa Canal Authority
- UC Cooperative Extension Office

DATE: November 21, 2023

PROPOSAL: **Site Plan Review 2023-009, Ledbetter Electric Inc., Solar**

PLANNER: Marie Amaro, Assistant Planner  
[mamaro@countyofglenn.net](mailto:mamaro@countyofglenn.net)



APPLICANT: Ledbetter Electric, Inc.  
1004 Yuba Street  
Marysville, CA 95901  
(530) 237-3288  
[office@ledbetterelectric.com](mailto:office@ledbetterelectric.com)

LANDOWNER: Amande Glenn Farm LLC  
P.O. Box 5379  
Fresno, CA 93755

ENGINEER: Jarred Glenn  
1005 Yuba Street  
Marysville, CA 95901  
(530) 237-3288  
[jarred@ledbetterelectric.com](mailto:jarred@ledbetterelectric.com)

PROPOSAL: **Site Plan Review 2023-009, Ledbetter Electric Inc., Solar**  
Ledbetter Electric Inc. has applied for SPR2023-009 to install a 734.4 kW ground mounted photovoltaic solar array. The array will include 1,400 525W bi-facial solar modules, and be 68,900 square feet in total.

LOCATION: The project is located west of County Road D, north of County Road 48, south of County Road 35, and east of Salt Gulch within the unincorporated area of Glenn County, California. N 39 56' 79.47 (Latitude), W -122 24' 96.45 (Longitude).

APN: 021-030-042; (284.56± Acres)

ZONING: "FS-80," Farmland Security Zone

GENERAL PLAN: "Intensive Agriculture"

FLOOD ZONE: The project is located within Flood Zone "A" (shaded). 06021C0600D, dated August 5, 2010 issued by the Federal Emergency Management Agency (FEMA). Flood Zone A consists of areas with a 1% annual chance of flooding. No depths or base flood elevations are show within these zones.

The Glenn County Planning Division is requesting comments on this proposal for determination of completeness, potential constraints, and/or proposed Compliance Requirement. If comments are not received by **Tuesday, December 5, 2023**, it is assumed that there are no specific comments to be included in the analysis of the project. Comments submitted by e-mail are acceptable. Thank you for considering this matter.

**AGENCY COMMENTS:**

Please consider the following:

1. Is the information in the application complete enough to analyze impacts and conclude review?
2. Comments may include project-specific code requirements unique to the project. Cite code section and document (i.e., General Plan, Subdivision Map Act, etc.).
3. What are the recommended Compliance Requirements for this project and justification for each Requirement? When should each Compliance Requirement be accomplished (i.e., prior to any construction at the site, prior to recording the parcel map, filing the Final Map, or issuance of a Certificate of Occupancy, etc.)?

Date Submitted: \_\_\_\_\_

**GLENN COUNTY  
PLANNING AND COMMUNITY  
DEVELOPMENT SERVICES AGENCY**  
225 North Tehama Street  
Willows, CA 95988  
(530) 934-6540  
[planning@countyofglenn.net](mailto:planning@countyofglenn.net)

**APPLICATION FOR SITE PLAN REVIEW**

NOTE: FAILURE TO ANSWER APPLICABLE QUESTIONS AND REQUIRED ATTACHMENTS COULD DELAY THE PROCESSING OF YOUR APPLICATION.

1. Applicant(s):

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail \_\_\_\_\_

x 2. Property Owner(s):

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail \_\_\_\_\_

3. Engineer/Person who Prepared Site Plan (if applicable):

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail \_\_\_\_\_

4. Name and address of property owner's duly authorized agent (if applicable) who is to be furnished with notice of hearing (§65091 California Government Code).

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

5. Existing Use of Property: \_\_\_\_\_

6. Request or Proposal:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Address and Location of Project: \_\_\_\_\_

8. Current Assessor's Parcel Number(s): \_\_\_\_\_

9. Existing Zoning (<http://gis.gcppwa.net/zoning/>): \_\_\_\_\_

10. Provide any additional information that may be helpful in evaluating your proposal. *Example - number of employees, hours of operation, number of truck deliveries/loadings per day:*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Setback Dimensions (Distance from property line to proposed structure):  
North: \_\_\_\_\_ ft.                      South: \_\_\_\_\_ ft.  
East: \_\_\_\_\_ ft.                      West: \_\_\_\_\_ ft.  
Other Setback/s: \_\_\_\_\_ ft.

12. Provide the following information:  
Size of Assessor Parcel: \_\_\_\_\_ sq.ft.                      \_\_\_\_\_ acres  
Mean height of structure: \_\_\_\_\_ ft.                      Peak height of structure: \_\_\_\_\_ ft.  
Dimensions of proposed including overhangs: \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
Total Square Footage (Existing): \_\_\_\_\_ sq.ft.  
Total Square Footage (Proposed): \_\_\_\_\_ sq.ft.

**DECLARATION UNDER PENALTY OF PERJURY**

(Must be signed by Applicant(s) and Property Owner(s))  
(Additional sheets may be necessary)

The Applicant(s) and/or Property Owner(s), by signing this application, shall be deemed to have agreed to defend, indemnify, release and hold harmless the County, its agents, officers, attorneys, employees, boards and commissions from any claim, action or proceeding brought against the foregoing individuals or entities, the purpose of which is to attack, set aside, void or null the approval of this development entitlement or approval or certification of the environmental document which accompanies it, or to obtain damages relating to such action(s). This indemnification agreement shall include, but not be limited to, damages, costs expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of the entitlement whether or not there is concurrent passive or active negligence on the part of the County.

Applicant(s):

Signed: \_\_\_\_\_

Print: \_\_\_\_\_

Date: \_\_\_\_\_

Address: \_\_\_\_\_

I am (We are) the owner(s) of property involved in this application and I (We) have completed this application and all other documents required.

I am (We are) the owner(s) of the property involved in this application and I (We) acknowledge the preparation and submission of this application.

I (We) declare under penalty of perjury that the foregoing is true and correct.

Property Owner(s):

Signed: \_\_\_\_\_

Print: \_\_\_\_\_

Date: \_\_\_\_\_

Address: \_\_\_\_\_

GENERAL NOTES:

- G1. ALL WORK SHALL BE PERFORMED IN A SAFE, EFFICIENT, AND WORKMAN LIKE MANNER.
- G2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL MANUFACTURER'S OR ENGINEER'S DIRECTIONS AND INSTRUCTIONS SHOWN HERE.
- G3. THE ELECTRICAL CONTRACTOR IS ADVISED THAT ALL DRAWINGS, COMPONENT MANUALS, ESPECIALLY THE INVERTER MANUALS, ARE TO BE READ AND UNDERSTOOD PRIOR TO INSTALLATION OR ENERGIZING OF ANY EQUIPMENT. THE CONTRACTOR IS ALSO ADVISED TO HAVE ALL COMPONENT SWITCHES IN THE OFF (OPEN) POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.
- G4. INSTALLATION CREW IS TO HAVE A MINIMUM OF ONE JOURNEYMAN LEVEL ELECTRICIAN PER THREE APPRENTICE'S ON SITE AT ALL TIMES WHEN ELECTRICAL WORK IS BEING PERFORMED.
- G5. CONTRACTOR SHALL HAVE A NABCEP-CERTIFIED INSTALLER DIRECTLY SUPERVISE ALL PV SYSTEM INSTALLATION WORK.
- G6. FOR SAFETY IT IS RECOMMENDED THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PEOPLE WORKING TOGETHER.
- G7. THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE INSTALLED FOLLOWING THE CONVENTIONS OF THE CEC. ANY LOCAL CODE WHICH MAY SUPERSEDE THE CEC SHALL GOVERN.
- G8. ALL COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE LISTED BY A THIRD PARTY TESTING AGENCY (UL, ETL, ETC.). EQUIPMENT SHALL BE NEMA 3R OUTDOOR RATED OR BETTER, UNLESS LOCATED INDOORS.
- G9. THE ENGINEER SPECIFIES THE MINIMUM REQUIRED EQUIPMENT AND SPECIFICATIONS TO ACCOMPLISH THE PROJECT AND THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE SPECIFICATIONS ARE MET OR EXCEEDED WITH GOOD QUALITY EQUIPMENT, WORKMANSHIP AND SKILL.
- G10. DC VOLTAGE FROM THE ARRAY IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THIS PHOTOVOLTAIC SYSTEM MUST BE WARNED THAT SOLAR MODULES ARE ENERGIZED WHEN EXPOSED TO DAYLIGHT. THE LINE AND LOAD TERMINALS ON THE DC DISCONNECTS MAY BE ENERGIZED IN THE OPEN POSITION AND THE SWITCH IS TO BE LABELED TO COMPLY WITH ARTICLE 690.17 OF THE CEC.
- G11. ALL PORTIONS OF THIS SOLAR ELECTRIC SYSTEM SHALL BE CLEARLY MARKED IN ACCORDANCE WITH CEC ARTICLE 690.
- G12. FOR PROPER MAINTENANCE AND ISOLATION OF INVERTERS, REFER TO ISOLATION PROCEDURE IN INVERTER OPERATION MANUAL. CONTRACTOR PERFORMING THE MAINTENANCE IS RESPONSIBLE TO FOLLOW ALL LOCKOUT/TAGOUT PROCEDURES.
- G13. THIS PHOTOVOLTAIC SYSTEMS UTILITY INTERCONNECTION POINT SHALL MEET THE SPECIFIC REQUIREMENTS OF CEC ARTICLE 705.12. FOLLOW THE SPECIFIC INSTRUCTIONS IN THIS DRAWING SET TO MEET THIS CODE REQUIREMENT.
- G14. THE GROUNDING OF THE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH CEC 690.45 AND CEC 690.47. IF THE REQUIREMENTS DESCRIBED IN THIS DRAWING SET ARE CLOSELY FOLLOWED, THE GROUNDING REQUIREMENT SHALL BE MET. ANY CHANGES SHALL BE REVIEWED AND DEEMED ACCEPTABLE BY THE ENGINEER, MANUFACTURER AND LISTING AGENCY FOR PRODUCT SAFETY.
- G15. ELECTRICAL CONTRACTOR SHALL COORDINATE EQUIPMENT ACCEPTANCE TESTING AND COMMISSIONING.
- G16. THE CONTRACTOR IS RESPONSIBLE FOR MOUNTING ALL EQUIPMENT PER THE ENGINEER'S REPORT OR MANUFACTURER'S SPECIFICATIONS. IF SPECIFICATIONS ARE NOT APPARENT, THE CONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID IN ORDER TO LAST THE LIFETIME OF THIS SOLAR ELECTRIC SYSTEM.
- G17. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ENCLOSURE INTERIORS, TOP SURFACES OF ENCLOSURES, THE GROUND SURFACE, ROOFS AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.
- G18. THE ELECTRICAL CONTRACTOR SHALL CONSIDER THE WEATHERING OF EQUIPMENT OVER TIME AND ELIMINATE THE POSSIBILITY OF DEGRADATION OF EQUIPMENT DUE TO WATER ENTRY AND UV EXPOSURE. AS A RESULT, CONTRACTOR REQUIRES THE USE OF UNISTRUT OR SIMILAR MOUNTING SYSTEMS TO MOUNT ENCLOSURES, PULL BOXES, LOAD CENTERS, FUSE BOXES OR OTHER EQUIPMENT TO ROOFTOPS AND WALLS TO PREVENT WATER BUILD-UP. WEEP HOLES SHALL NOT BE PROVIDED IN ENCLOSURES THAT WOULD CAUSE A REDUCTION IN THE ENCLOSURES' NEMA RATING. SEALING CONDUIT WITH A FIRE RETARDANT FOAM OR CAULK AT ENCLOSURE ENTRY POINTS IS RECOMMENDED TO MINIMIZE CONDENSATION AND PESTS IN ENCLOSURES. FOR CONDUIT LOCATIONS RUNNING THROUGH WALLS FIRE RETARDANT FOAM OR CAULK MUST BE USED TO MAINTAIN THE CURRENT FIRE RATING OF THE WALL AND MUST COMPLY WITH UL 1479 & UL 723 STANDARDS FOR THROUGH PENETRATIONS.
- G19. ALL MATERIAL SHALL BE NEW AND RATED FOR UV EXPOSURE WHERE EXPOSED TO SUNLIGHT.
- G20. CONSTRUCTION STAGING OF CONCENTRATED LOADS ON ROOF SHALL BE MINIMIZED. SPECIAL ATTENTION SHALL BE PAID TO ROOF LOADING DURING INSTALLATION SUCH THAT HEAVY ITEMS ARE NOT LOADED IN A MANNER THAT WOULD OVERLOAD THE ROOF.
- G21. CONTRACTOR SHALL COORDINATE SOLAR ARRAY INSTALLATION WORK WHERE MINIMAL DAMAGE OCCURS TO LANDSCAPE. CONTRACTOR SHALL RESTORE ALL DAMAGED LANDSCAPE TO ORIGINAL CONDITION.
- G22. CONTRACTOR SHALL RESTORE INTERIOR/EXTERIOR FINISHES TO ORIGINAL OR BETTER CONDITION.
- G23. EXISTING TREES REMOVED AS PART OF CONSTRUCTION SHALL HAVE THEIR STUMPS GROUND TO 12" BELOW GRADE AND COVERED WITH NATIVE TOPSOIL. TOPSOIL SHALL BE FILLED AND COMPACTED TO MATCH EXISTING GRADE.
- G24. PROVIDE AND INSTALL GROUNDING TYPE BUSHING WITH GND WIRE TO ENCLOSURE ON ALL CONCENTRIC OR ECCENTRIC KNOCKOUTS.

ELECTRICAL NOTES:

- E1. IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE CONDUCTORS MAY NOT BE READILY IDENTIFIED BY NAMEPLATE MARKINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY OR PHASE.
- E2. THE LAYOUT OF CONDUIT SHOWN IN THESE PLANS IS INDICATIVE ONLY. CONTRACTOR SHALL ROUTE AND LOCATE THE CONDUITS TO SUIT SITE CONDITIONS BUT SHALL NOT EXCEED THE MAXIMUM CONDUIT LENGTHS IDENTIFIED ON THE CONDUCTOR SCHEDULE. CONTRACTOR SHALL COORDINATE ALL CHANGES IN CONDUCTOR AND CONDUIT WITH THE ENGINEER VIA AN RFI.
- E3. WHERE CONDUCTOR AND CABLE ROUTING IS NOT SHOWN, AND DESTINATION ONLY IS INDICATED, CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LENGTHS REQUIRED. A SHOP DRAWING OF PROPOSED INSTALLATION SHALL BE SUPPLIED PRIOR TO INSTALLATION.
- E4. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAYS (NO KINKS).
- E5. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH REQUIREMENTS IN CEC 300.19.
- E6. INSTALL ALL CONDUCTOR MATERIALS IN A NEAT WORKMANLIKE MANNER. USE GOOD TRADE PRACTICES AS REQUIRED BY CHAPTER 3 OF THE CEC.
- E7. INSTALL CONDUIT TO MAINTAIN PROPER CLEARANCES AND IN A NEAT INCONSPICUOUS MANNER. RUN PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL MEMBERS OR OTHER CONDUITS. PROVIDE BOXES, FITTINGS AND BENDS FOR CHANGES IN DIRECTION. FASTEN CONDUIT SECURELY IN PLACE.
- E8. SUPPORT CONDUIT USING STEEL PIPE STRAPS (OAE), LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS OR SPLIT-HANGERS. HANGER SPACING SHALL BE INSTALLED PER CEC REQUIREMENTS FOR THE TYPE OF CONDUIT BEING INSTALLED. USE APPROVED BEAM CLAMPS FOR CONNECTION TO STRUCTURAL MEMBERS.
- E9. PROVIDE PULL, JUNCTION, OR CHRISTY BOXES WHERE REQUIRED TO FACILITATE THE INSTALLATION OF CONDUCTOR IN ADDITION TO THOSE SHOWN ON THE DRAWINGS. BENDS IN CONDUITS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS.
- E10. RACEWAY EXPANSION FITTINGS SHALL BE INSTALLED TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION WHERE NECESSARY. PER CEC 300.7(B), MANUFACTURER INSTRUCTIONS SHALL BE FOLLOWED AND ALL ACCESSORIES SHALL BE INSTALLED TO ENSURE PROPER FUNCTIONING OF FITTINGS.
- E11. WHEN FIELD CUTTING IS REQUIRED, THE CONDUIT SHALL BE CUT SQUARE AND DEBURRED.
- E12. CONDUIT SIZES NOT SPECIFIED SHOULD CONFORM TO CEC SPECIFICATIONS, TO INCLUDE FILL FACTOR AND DERATING FOR NUMBER OF CONDUCTORS.
- E13. THE POWER CONDUCTORS MINIMUM SIZE SHALL BE #12 AWG.
- E14. SAFETY REGULATIONS (LOCK OUT - TAG OUT, ETC.) IS THE FULL RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION.
- E15. THE CONDUCTOR SIZE IS BASED ON THE ESTIMATED CONDUIT ROUTING AS SHOWN IN THIS DRAWING PACKAGE. SHOULD THE CONDUIT'S LENGTH INCREASE DUE TO RELOCATION OF SOURCE AND/OR ROUTING, THE CONDUITS AND THE CONDUCTORS MAY NEED TO BE RESIZED.
- E16. ALL CONDUCTORS IN CONDUIT SHALL BE THHN-2, XHHW-2, RHH-2, PVWIRE, OR XLPE. USE BARE COPPER FOR GROUND FOR ALL EXTERNAL GROUNDING. PVWIRE OR APPROVED EQUIVALENT SHALL BE USED FOR ALL EXPOSED OR HOMERUN CONDUCTORS.
- E17. FOR INTERCONNECTION VIA BUS TAP:
  - A. OVERCURRENT PROTECTION (SWITCHING DEVICE AND MEANS OF DISCONNECT) MUST BE LOCATED PER CEC 240.21.
  - B. THE CONDUCTORS SHALL BE CRIMPED WITH A CRIMP-ON TERMINAL LUG, MANUFACTURED BY ILSCO, BURNDY, OAE. THE TERMINAL LUG SHALL HAVE IDENTIFICATION OR COLOR CODING TO MATCH THE CONDUCTOR SIZE. TERMINAL LUGS SHALL HAVE LONG BARRELS TO PROVIDE 2 CRIMPS PER TERMINAL LUG PER CONDUCTOR.
  - C. CRIMPED TERMINAL LUGS SHALL BE CONSTRUCTED OF PURE COPPER AND TIN-PLATED FOR HIGH CONDUCTIVITY AND RATED FOR 600V AT 90°C WHEN USED WITH COPPER CONDUCTORS.
  - D. THE CRIMP MUST BE MADE WITH THE MANUFACTURER'S APPROVED TOOL DEVICE TO ACHIEVE THE PROPER CRIMP CONNECTION.
  - E. USE STAINLESS STEEL HARDWARE WITH THE FASTENER TORQUED TO MANUFACTURER'S RECOMMENDATIONS ON ALL THREE PHASES TO COMPLY WITH ARTICLE 110.14 OF THE CEC.
  - F. MINIMUM BEND RADIUS SHALL BE OBSERVED TO MAINTAIN GOOD CONDUCTOR QUALITY AND CONDUCTOR MANAGEMENT IN THE LOAD CENTER OR TRANSFORMER. IF THIS BEND RADIUS IS TOO CONSTRICTING, USE A 90° CRIMP-ON LUG MANUFACTURED BY ILSCO, BURNDY, OAE. 90° CRIMP-ON LUG MUST BE INSTALLED WITH RATED INSULATION THAT MEETS OR EXCEEDS THE CONDUCTORS' INSULATION IT IS BEING USED WITH. IT IS RECOMMENDED THAT ACCEPTABLE CLEARANCES ARE MAINTAINED WITH THIS BUS TAP FOR SAFE, CONTINUOUS OPERATION.
  - G. FOLLOW MANUFACTURER'S GUIDELINES, OR THE APPLICABLE AHJ, FOR MODIFICATION OF BUS BAR(S).
- E18. ALL CONDUITS SHALL BE FREE OF ANY OBSTRUCTIONS AND PROPERLY SECURED BEFORE CONDUCTOR IS PULLED.
- E19. ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNAGE TO ALL ELECTRICAL BOXES, JUNCTION BOXES, PULL BOXES, DC DISCONNECTS, CONDUIT RUNS, AC DISCONNECTS, SUB PANELS AND MAIN SERVICES PER CEC ARTICLE 690.
- E20. THE ELECTRICAL CONTRACTOR SHALL PERFORM INITIAL HARDWARE CHECKS AND CONDUCTOR CONDUCTIVITY CHECKS PRIOR TO TERMINATING ANY CONDUCTORS. COMPLETE MEGGER (INSULATION RESISTANCE) TESTING IN REFERENCE TO GROUND AND TO EACH CONDUCTOR IN THE SAME CONDUIT ON ALL AC AND DC POWER CONDUCTORS. VERIFY AND DOCUMENT A RESISTANCE OF AT LEAST 100MΩ ON EACH CONDUCTOR USING A 1000V RAMP-UP TEST FOR ONE MINUTE. DO NOT MEGGER THE SOLAR MODULES. MEGGERING IS INTENDED FOR ALL POWER CONDUCTORS INSTALLED BY THE ELECTRICAL CONTRACTOR.
- E21. ENSURE THAT ANY EXISTING LIGHTNING PROTECTION AIR TERMINALS EXTEND A MINIMUM OF 10" ABOVE THE TOP OF THE PV MODULES. THIS CAN BE ACCOMPLISHED BY EXTENDING THE EXISTING AIR TERMINAL OR BY INSTALLING A NEW, TALLER AIR TERMINAL WITH RATINGS EQUIVALENT TO THE EXISTING AIR TERMINAL.

- E22. TORQUE: ALL CONDUCTORS LANDING IN SCREW CONNECTIONS MUST BE PROPERLY TIGHTENED TO THE MANUFACTURER'S TORQUE REQUIREMENTS. ALL BOLTED CONDUCTOR TERMINATIONS MUST BE TORQUED TO THEIR RATED VALUE. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONDUCTORS WITH TORQUE REQUIREMENTS HAVE BEEN MARKED WITH A PAINT PEN OR PERMANENT MARKER **AT THE TIME THAT THE TORQUE TEST WAS DONE.**
- E23. ALL METALLIC ENCLOSURES SHALL BE GROUNDED PER CEC ART. 250.
- E24. EQUIPMENT USED SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS BEING INSTALLED (I.E. NEMA 1, 3R, 4, 4X, 12).
- E25. CONTRACTOR SHALL COMPLY WITH THE GENERAL DC CONDUCTOR CONDUIT MAX FILL OUTLINED IN THE TABLE BELOW. A SINGLE #6 THWN-2 EGC HAS BEEN INCLUDED IN THE FILL CALCULATIONS.

10 AWG PV WIRE CONDUIT FILL						
CONDUIT SIZE	EMT	IMC	RMC	PVC40	HDPE	LFMC
3/4"	2	3	2	2	2	2
1"	5	5	5	4	4	5
1-1/4"	9	10	9	9	9	9
1-1/2"	13	14	13	12	12	12
2"	22	24	22	22	22	21
2-1/2"	40	34	33	31	31	33

ROOFING AND SEALING NOTES: (IF APPLICABLE)

- R1. A POLYURETHANE BASED ADHESIVE SHALL BE APPLIED TO ANY DRILLED HOLE FOR FASTENING.
- R2. ALL STANDOFFS SHALL BE MADE WATERTIGHT USING APPROVED METHODS BY THE ROOFING MATERIAL MANUFACTURER, DISTRIBUTOR OR ENGINEER OF RECORD.
- R3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TRANSITION MATERIAL WHERE A DIFFERENCE OF 14" OF HEIGHT OR MORE BETWEEN THE ROOF AND STANDOFF BASE.
- R4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF RIGID FOAM OR SPRAY FOAM TO FILL ANY VOID AROUND THE STANDOFF, FROM THE BASE UP TO 6" ABOVE THE ROOF.

MODULE INSTALLATION NOTES:

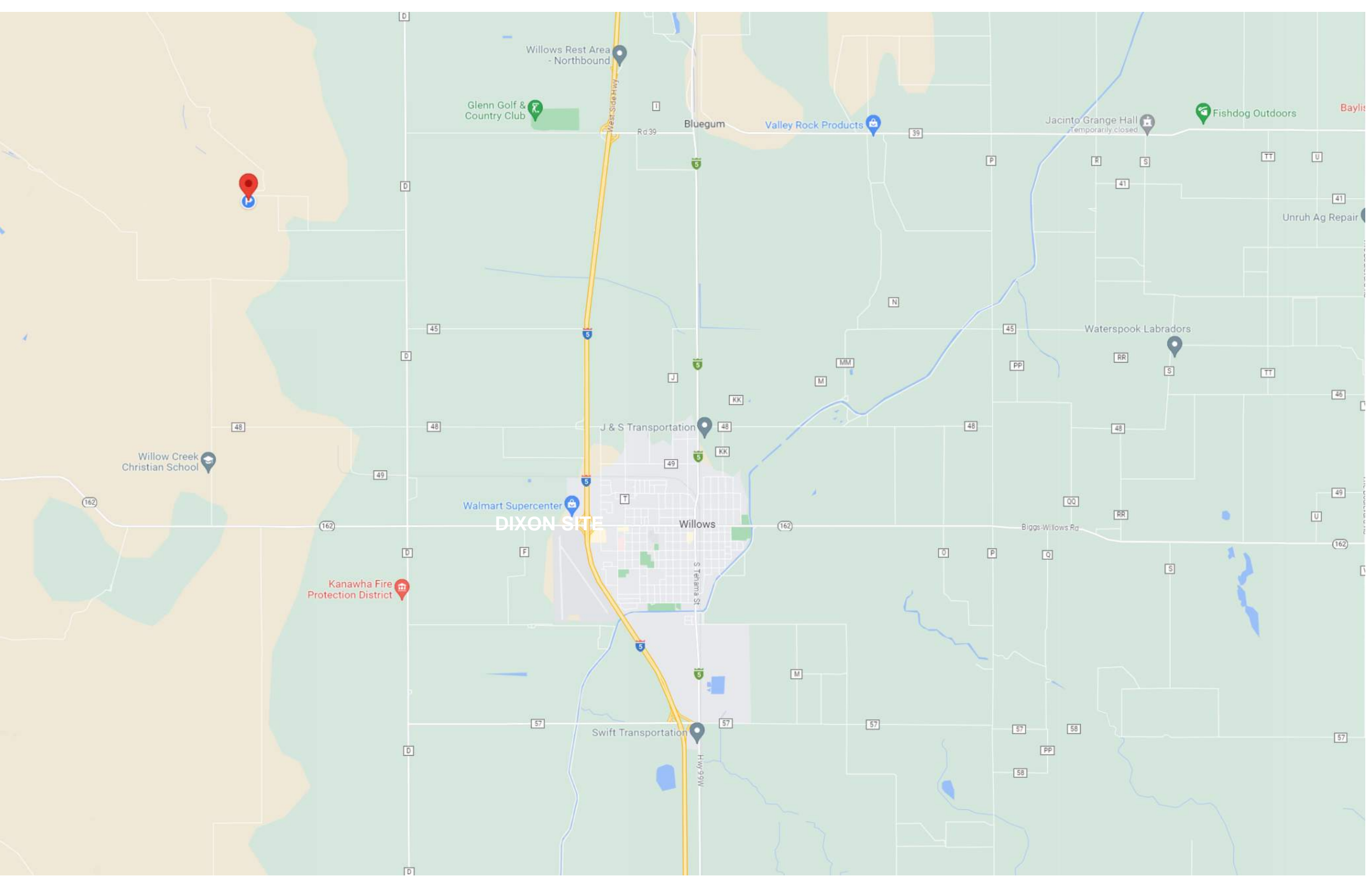
- M1. REFER TO THE MODULE MANUAL FOR DETAILS ON RIGGING, UNPACKING, HANDLING, PLANNING, AND INSTALLATION.
- M2. THE MODULES MAY BE SHIPPED WITH SEVERAL MODULES PER BOX. TAKE CARE WHEN OPENING THE BOX TO ENSURE THAT ALL MODULES ARE SECURELY HANDLED.
- M3. NEVER LEAVE A MODULE UNSUPPORTED OR UNSECURED. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL HANDLING ON THE JOB SITE.

GENERAL SAFETY NOTE:

THE ARRAY LAYOUT INCORPORATES DESIGN CONSIDERATIONS SET-FORTH BY THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION, THE CFC AND THE IFC. THESE GUIDELINES INCLUDE OFFSETS AND AISLE-WAYS TO ACCOMMODATE MOVEMENT ACROSS THE ROOF-TOP IN THE EVENT OF A FIRE. THERE ARE ALSO CONSIDERATIONS FOR MAXIMUM DIMENSIONS OF A CONTINUOUS ARRAY OR SUB-ARRAY. SINCE PHOTOVOLTAIC (PV) SOURCE AND OUTPUT CIRCUITS WILL BE ENERGIZED AS LONG AS THERE IS VISIBLE LIGHT, LABELING IS SPECIFIED IN THE PLANS TO DISTINGUISH PV CONDUITS FROM EXISTING SITE CONDUIT. BEYOND CAL-FIRE, THESE PLANS INCORPORATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES. THIS MAINLY PERTAINS TO MINIMUM OFFSETS FROM PARAPETS OR THE ROOF EDGE.

ELECTRICALLY, THE DESIGN SHALL MEET ALL EQUIPMENT WORKING CLEARANCES AS DEFINED IN CEC ARTICLE 110.26 AS WELL AS CAREFUL CONSIDERATION OF EGRESS PATHS WHEN EQUIPMENT DOORS ARE OPENED. EQUIPMENT ELEVATION DRAWINGS INCORPORATE TRUE-SCALED DIMENSIONS OF TRADE-SIZE CONDUIT BODIES AND SWEEPS TO ENSURE PROPER CONDUCTOR BEND RADI. THIS MEASURE WILL ENSURE THAT THE CORRECT CONDUIT FITTING WILL FIT THE ALLOTTED SPACE. FURTHER, ALL EQUIPMENT SPECIFIED SHALL BE LISTED BY A NATIONALLY RECOGNIZED TEST LAB (UL, IEEE, ETC.).

THE PLANS ALSO INCORPORATE EQUIPMENT AND GROUNDING DETAILS TO ENSURE PROPER INSTALLATION AS WELL AS A COMPLETE SHEET OF THE REQUIRED LABELS AND MARKINGS. THE LABELS ADDRESS PERTINENT ARTICLES OF THE CEC AS WELL AS STANDARDS ADOPTED FROM PAST PROJECTS WITH VARIOUS UTILITY COMPANIES AND LOCAL AUTHORITIES HAVING JURISDICTION.

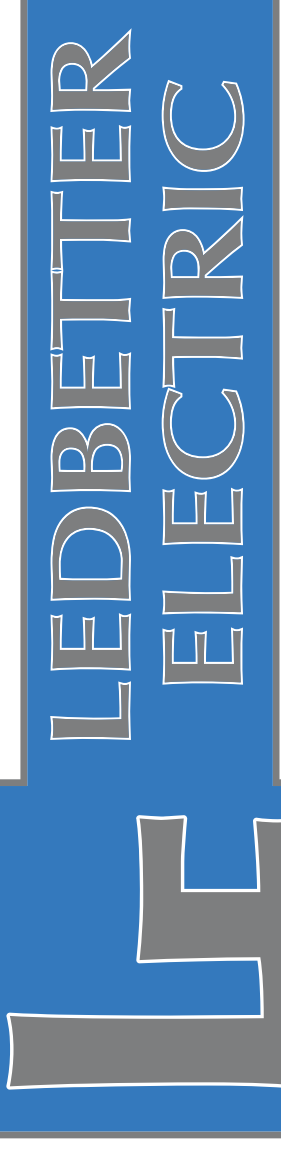


2 VICINITY MAP

SCALE: NTS

1 GENERAL NOTES

**LEDBETTER ELECTRIC, INC.**  
 1004 YUBA ST  
 MARYSVILLE, CA 95901



Lic.#0994171

**INTERNATIONAL AG INVESTMENT FIRM**  
**SOLAR INSTALLATION**  
**WILLOWS - 734.4 kW DC STC RATING**  
 (39.567947, -122.249645)

APN: 021030042000

DATE: 10/30/2023

REVISIONS:

**E1.0**  
**GENERAL NOTES & VICINITY MAP**

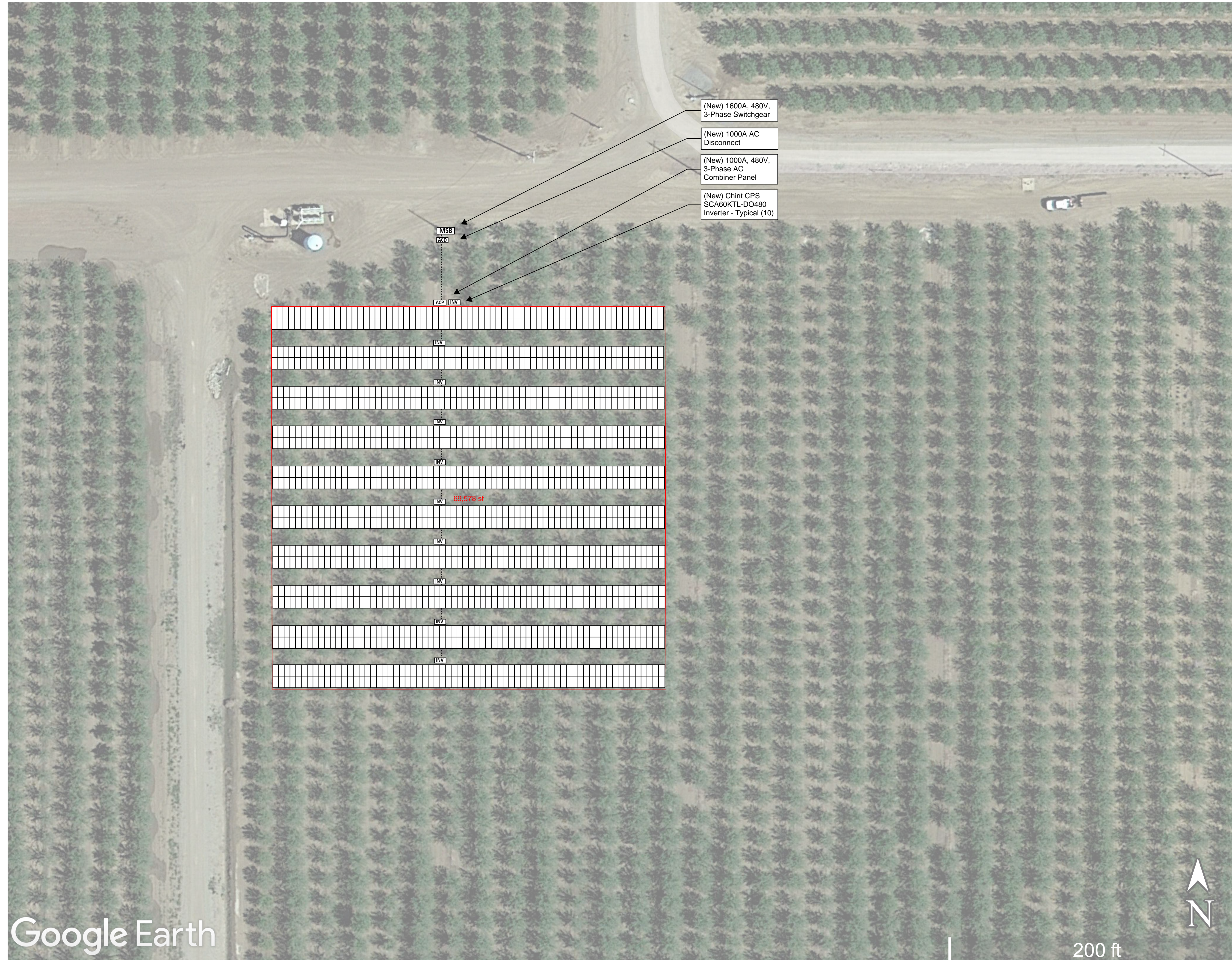
PLANS ARE NOT FOR CONSTRUCTION. PLANS REPRESENT AN EXAMPLE OF THE PLANNED INSTALLATION. FINAL PLAN SET IS SUBJECT TO MODIFICATION AND REQUIRES CUSTOMER/OWNER APPROVAL.

THIS WORK IS DESIGNED BY AND SHALL BE INSTALLED BY THE LISTED ELECTRICAL CONTRACTOR PER CBC 107 & BUSINESS PROFESSIONS CODE SECTION 6737.3.

PHOTOVOLTAIC ARRAY  
 (1,360) JINKO JKM540M-72HL4-TV MODULES  
 (10) CHINT POWER SYSTEMS CPS SCA60KTL-DO/480  
 RACKING SHALL BE UL2703 LISTED AS AN EGC  
 BARE 6 AWG EGC ATTACHED TO RAIL ENDS WITH WEEB LUGS  
 2000V PV WIRE FOR ALL SOURCE WIRING

PV SOLAR SYSTEM SUMMARY - WILLOWS/BLOSSOM	
(TOTAL MODULE COUNT) MODULE MANF. & MODULE NUMBER / STC DC RATING	(1,360) JINKO JKM540-72HL4-TV (540W) MODULES
PV ARRAY RACKING/MANUFACTURER AND MODEL	OMCO RACKING - FIXED TILT
TOTAL STC DC SYSTEM SIZE	734.4 kW
(TOTAL INVERTER COUNT) INVERTER MANF. & MODEL	(10) CHINT POWER SYSTEMS CPS SCA60KTL-DO/US-480
INVERTER CEC EFFICIENCY	98.50%
SITE LATITUDE	39.567947, -122.249645
ARRAY AZIMUTH/MODULE TILT	180° / 20°
INTERCONNECTION VOLTAGE	480 VAC - 3-PHASE
INTERCONNECTION OCPD RATING	1600A
INTERCONNECTION TAP	LINE SIDE TAP

2 SYSTEM SUMMARY



1. There are no existing wells or septic systems within the area around the solar array. The nearest well is roughly 3,110' due East of the MSB associated with the solar array.

3 GENERAL NOTES

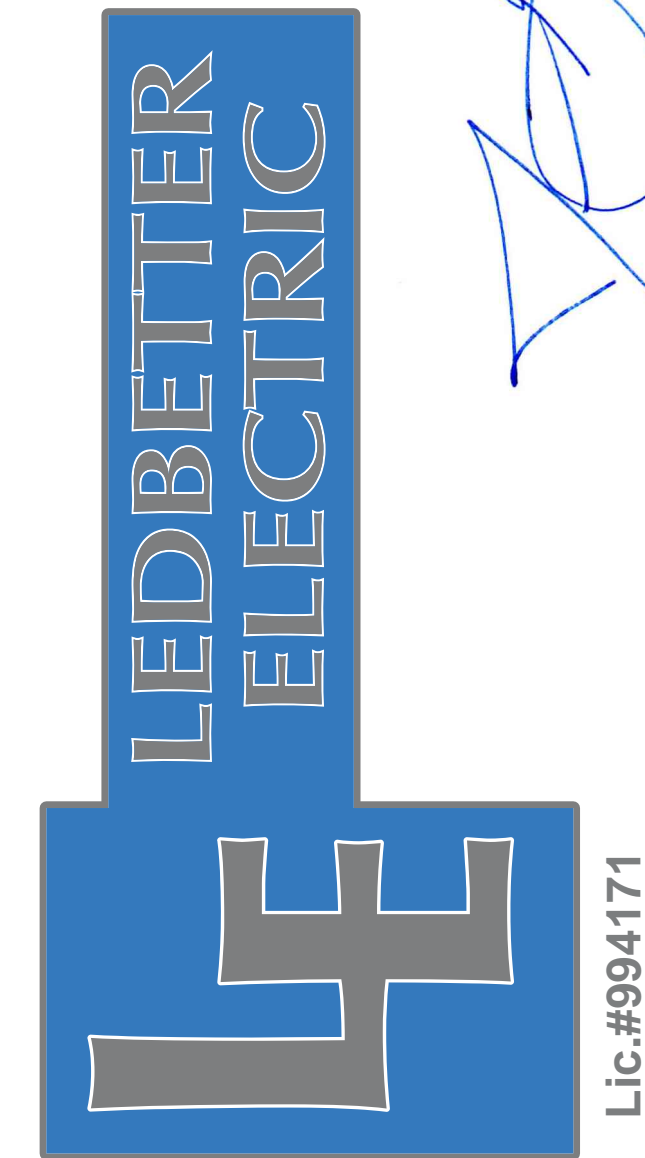
Google Earth

1 SITE PLAN - WILLOWS - BLOSSOM - 734.4kW

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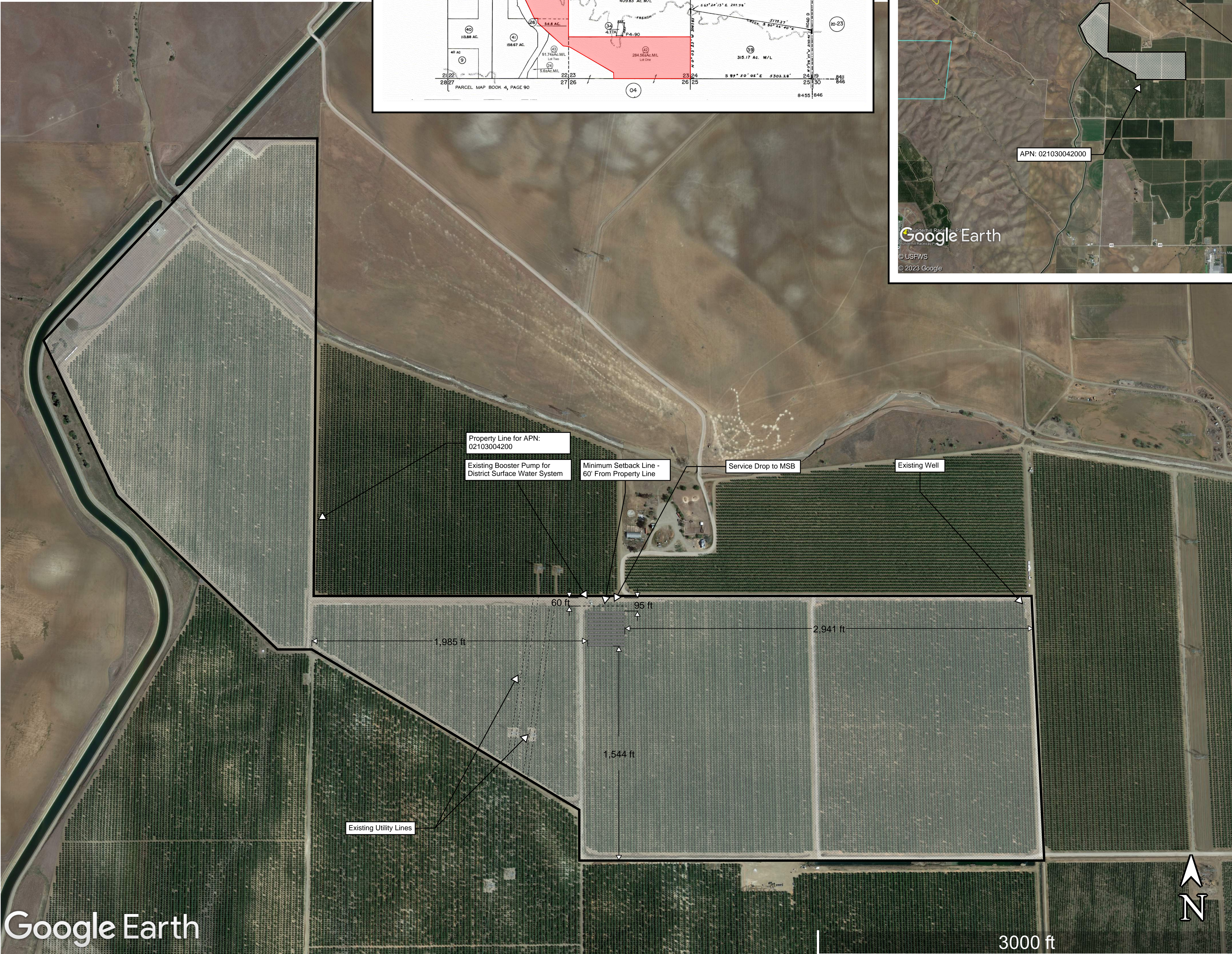
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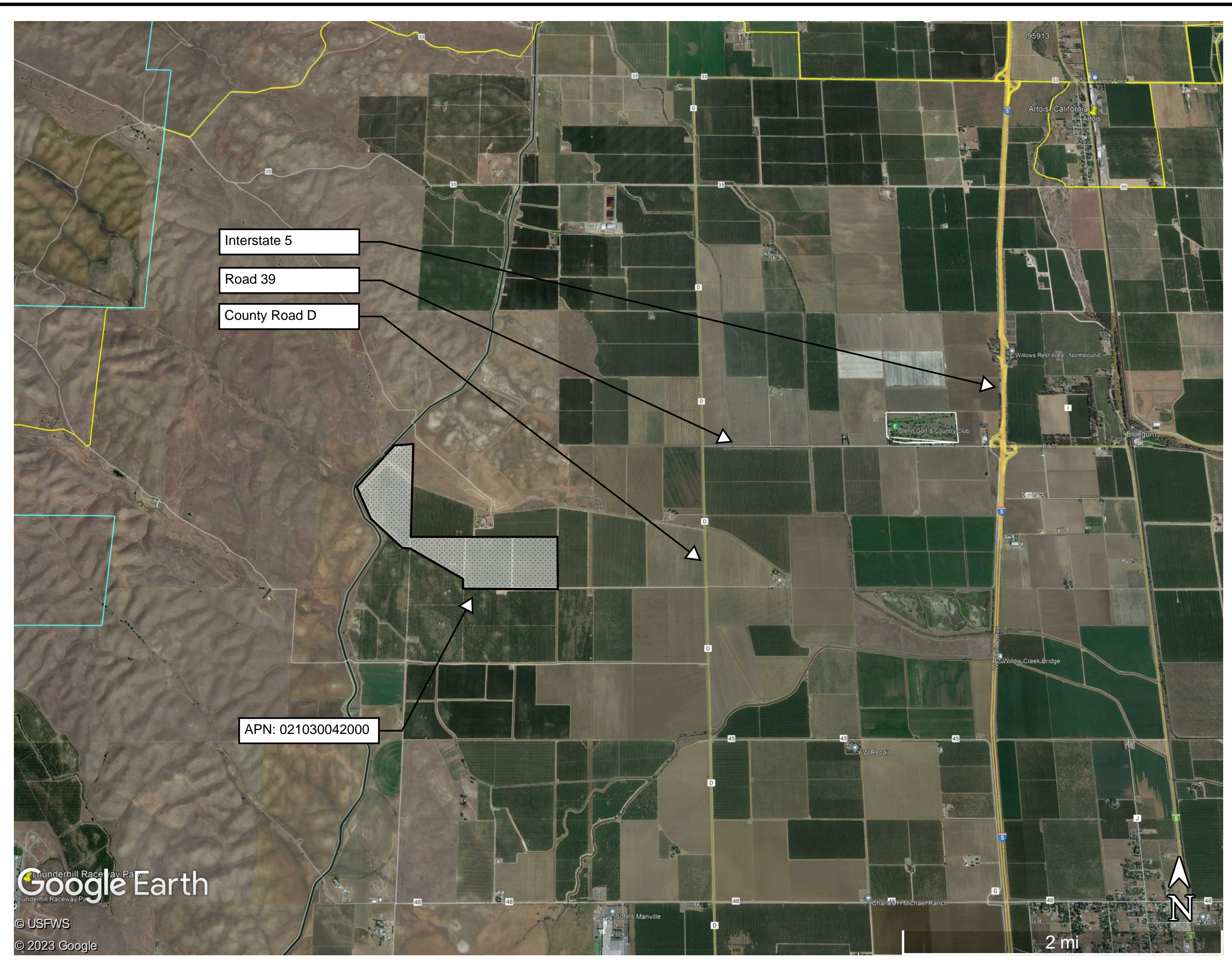
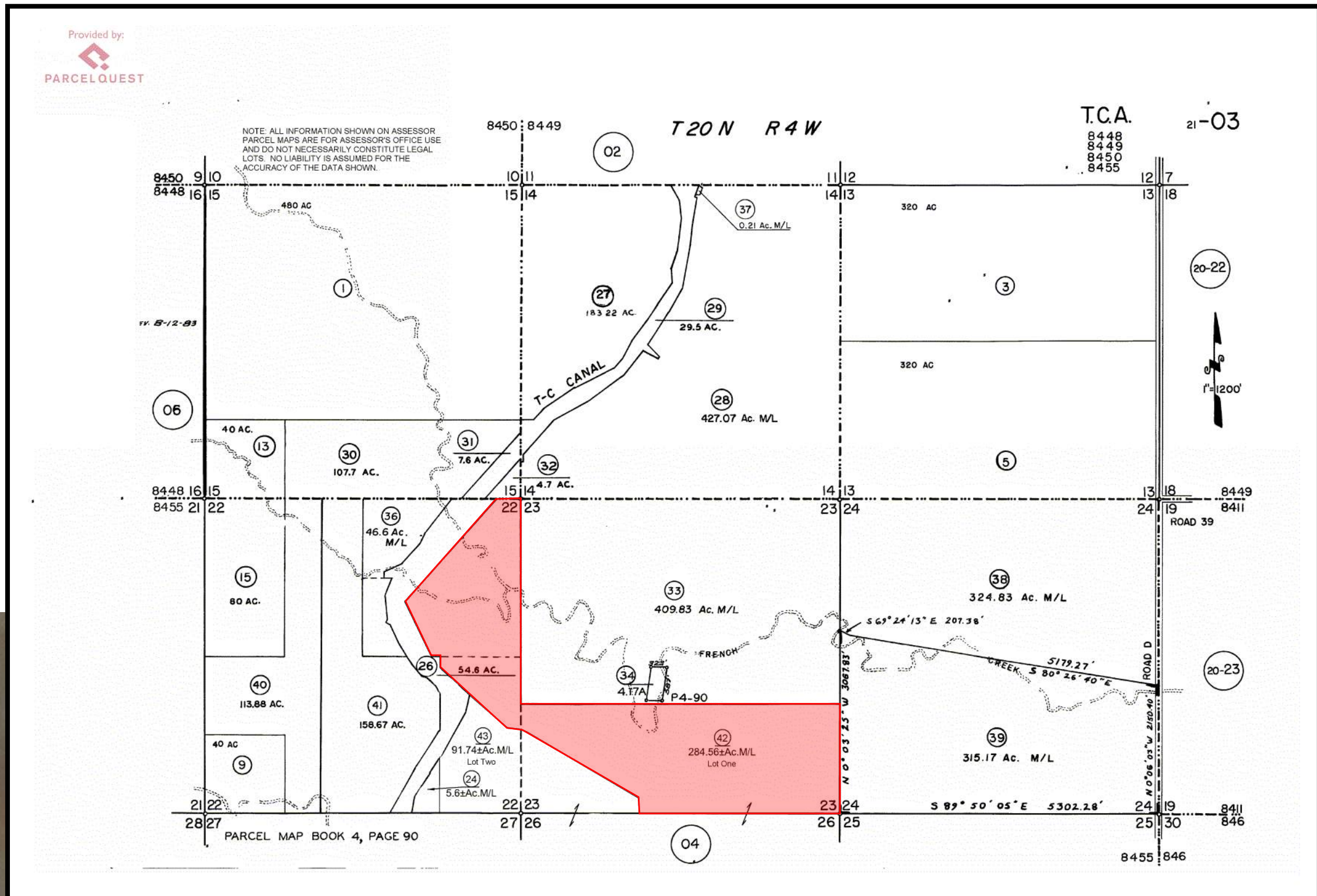
INTERNATIONAL AG INVESTMENT FIRM  
 SOLAR INSTALLATION  
 WILLOWS - 734.4 kW DC STC RATING  
 (39.567947, -122.249645)  
 APN: 021030042000

DATE: 10/30/2023  
 REVISIONS:  
 11/08/2023 - PLAN CHECK COMMENTS

**E2.0**  
 SITE PLAN -  
 WILLOWS/BLOSSOM



Google Earth



1. Property Owner: Amande Glenn Farm LLC.
  2. The nearest County Road is County Road D - roughly 5,295' due East of the eastern edge of the property line.
  3. There are no sewage systems and/or existing buildings within the property line.
  4. The solar array will be roughly 95' off the property line, maintaining the required 60' setback per 15.860-Power Generation Facilities.
  5. The solar array will be roughly 270' from the existing overhead utility lines.
  6. The solar array is roughly 265' x 260' (68,900 sqft).
- \*Exact measurements may differ slightly in the field, but setback requirements will be maintained.

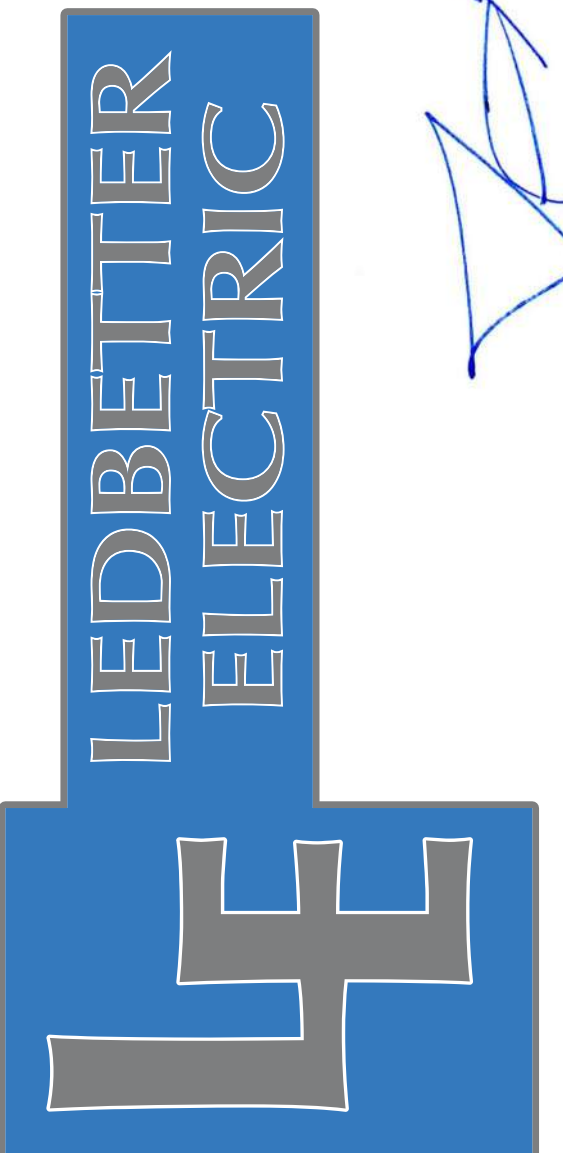
2 GENERAL NOTES

1 PLOT PLAN - WILLOWS - BLOSSOM - 734.4kW

PLANS ARE NOT FOR CONSTRUCTION. PLANS REPRESENT AN EXAMPLE OF THE PLANNED INSTALLATION. FINAL PLAN SET IS SUBJECT TO MODIFICATION AND REQUIRES CUSTOMER/OWNER APPROVAL.

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LEDBETTER ELECTRIC, INC.  
1004 YUBA ST  
MARYSVILLE, CA 95901



Lic.#994171

INTERNATIONAL AG INVESTMENT FIRM  
SOLAR INSTALLATION  
WILLOWS - 734.4 kW DC STC RATING  
(39.567947, -122.249645)

APN: 021030042000

DATE: 11/14/2023

REVISIONS:  
▲ 11/14/2023 - PLAN  
CHECK COMMENTS

E2.1  
PLOT PLAN -  
WILLOWS/BLOSSOM



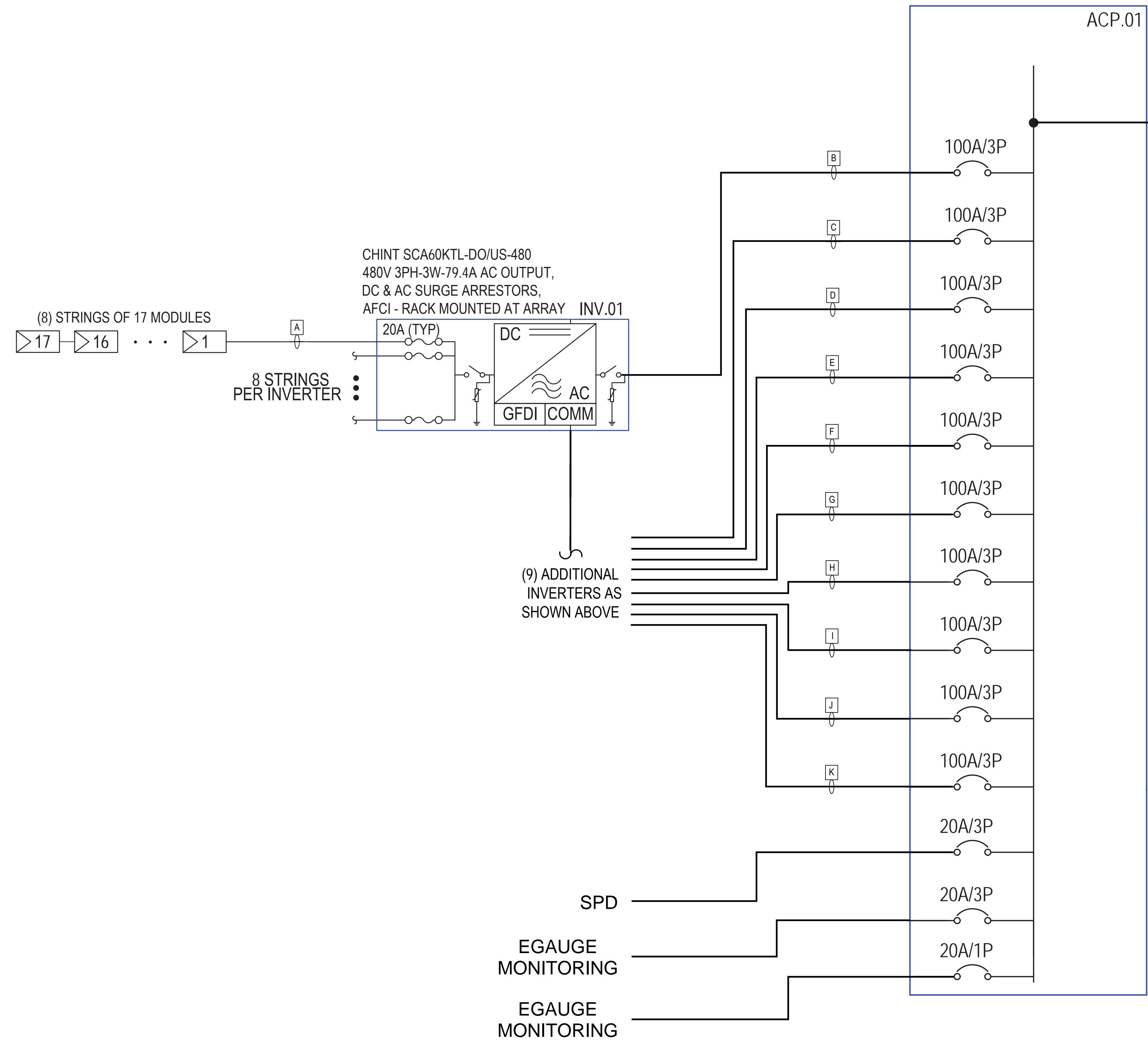
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 RACKING SHALL BE UL2703 LISTED AS AN EGC  
 BARE 6 AWG EGC ATTACHED TO RAIL ENDS WITH WEEB LUGS  
 2000V PV WIRE FOR ALL SOURCE WIRING

DC STRINGS TABLE										
KEYS	FROM	TO	TOTAL NUMBER OF EACH STRING	WIRE TYPE	WIRE INSULATION	CONDUIT TYPE	CONDUIT COUNT	CONDUIT SIZE	WIRE SIZE	EGC
A	STRING OF (17) MODULES	INVERTERS 1 - 10	80	CU	PV WIRE	IMC/FREE AIR	1	SEE E1.0 - NOTE E25	10	6

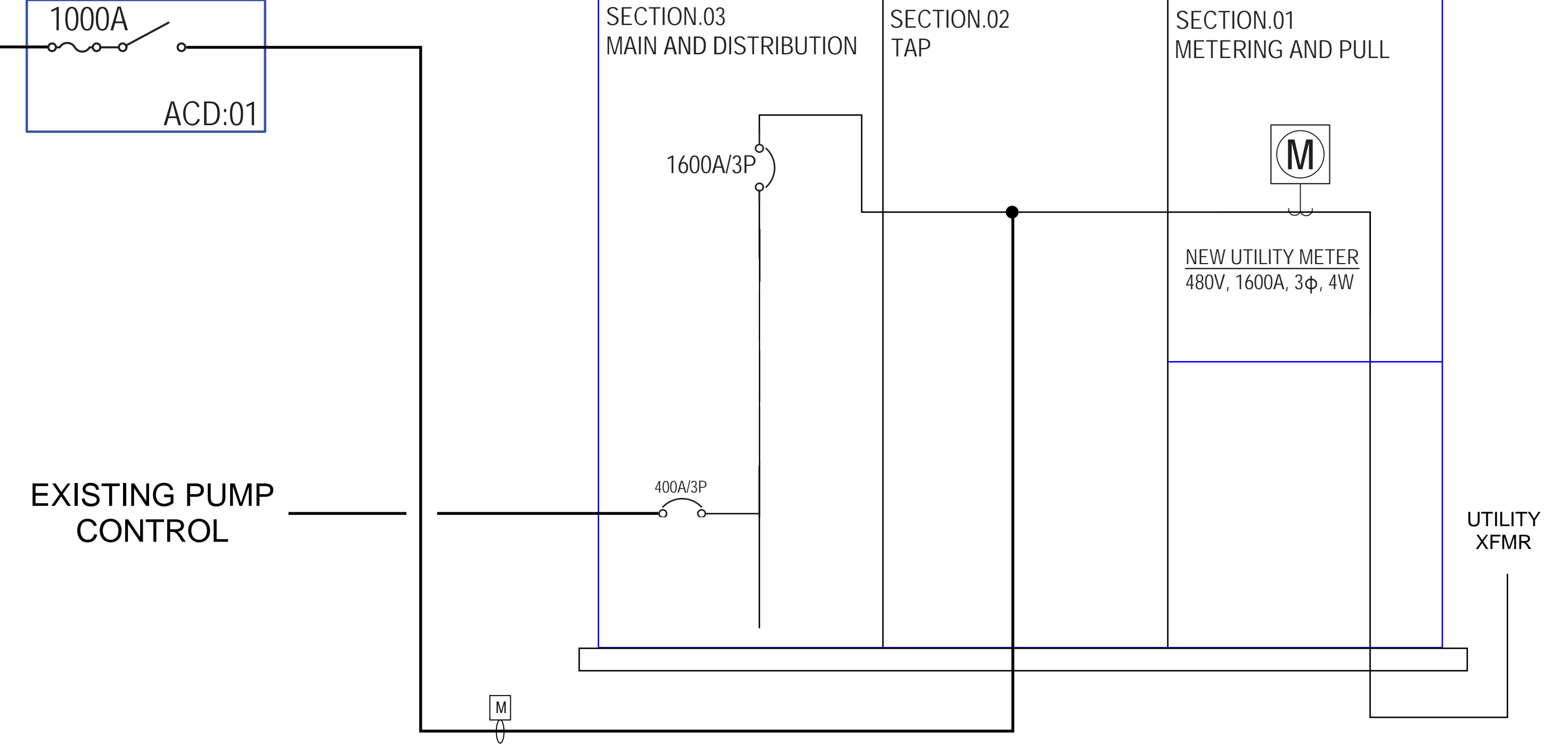
AC AGGREGATION TABLE													
KEYS	FROM	TO	WIRE TYPE	WIRE INSULATION	NUMBER OF PHASES	CURRENT CARRYING CONDUCTORS	CURRENT CARRIER WIRE SIZE	NEUTRAL REQUIRED IN CIRCUIT	NEUTRAL WIRE SIZE	EGC	CONDUIT COUNT	CONDUIT TYPE	CONDUIT SIZE
B	INV.01	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
C	INV.02	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
D	INV.03	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
E	INV.04	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
F	INV.05	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
G	INV.06	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
H	INV.07	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
I	INV.08	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
J	INV.09	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
K	INV.10	ACP.01	AL	XHHW-2	3	3	1	NO	N/A	8	1	PVC	1-1/4"
L	ACP.01	MSB	AL	XHHW-2	3	3	350KCMIL	NO	N/A	2	4	PVC	3"
M	ACP.01	MSB	CU	THWN-2	3	3	400KCMIL	NO	N/A	3/0	3	EMT	3"

2 FEEDER SCHEDULE

AC PANELBOARD  
 480V, 1000A BUS (OAE)  
 NEMA 3R, 3φ, 3W  
 CEC 705.12(B)(2)(3)(C)  
 RACK MOUNTED AT ARRAY



UTILITY DISCONNECT (ACD.01)  
 480V, 1000A FUSIBLE - 1000A  
 FUSES, NEMA 3R, 3P, 3W  
 RACK MOUNTED (LOCKABLE,  
 VISIBLE BREAK, LABELED)



1 ELECTRICAL SLD - WILLOWS - BLOSSOM - 734.4kW

**LED BETTER ELECTRIC, INC.**  
 1004 YUBA ST  
 MARYSVILLE, CA 95901

Lic.#994171

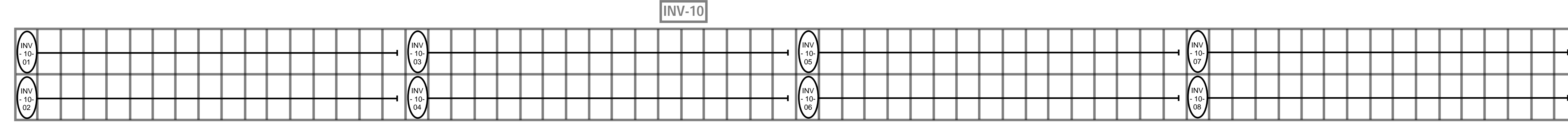
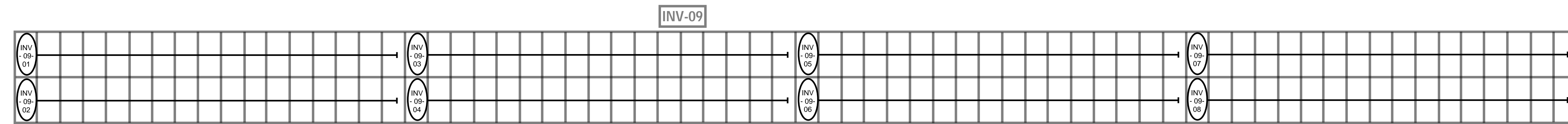
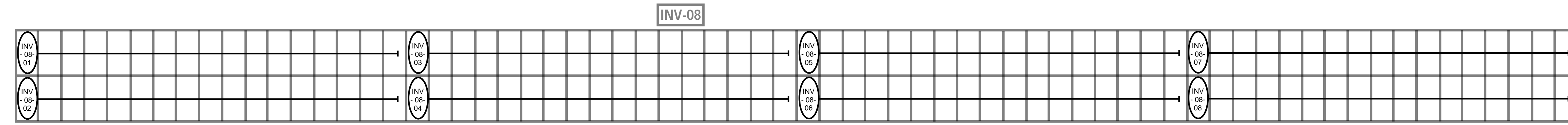
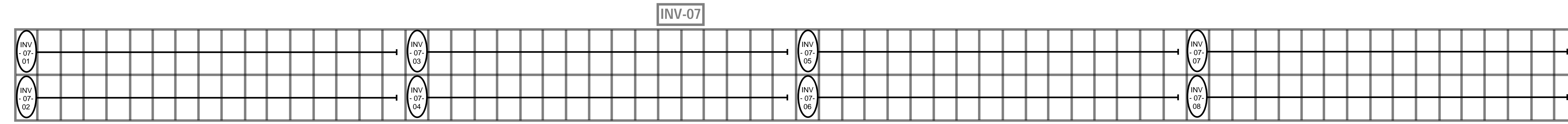
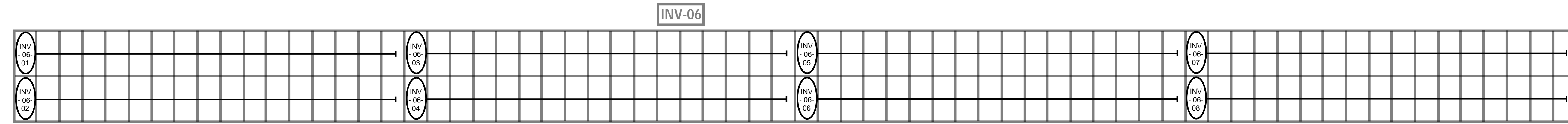
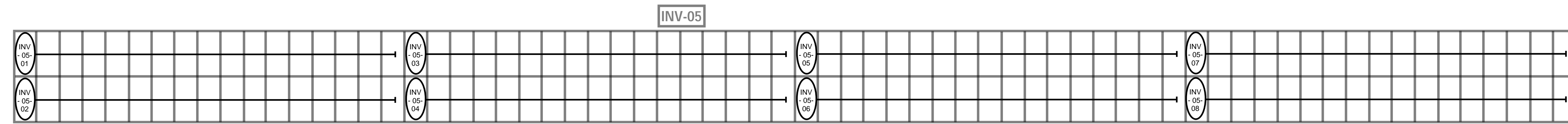
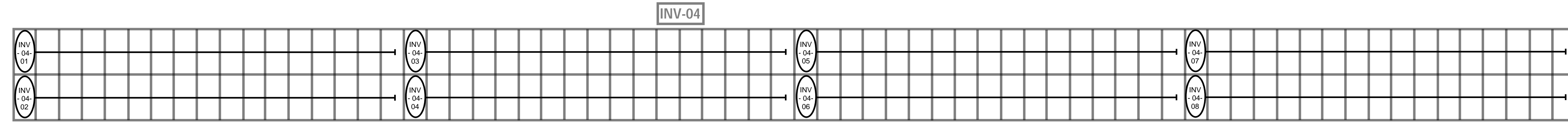
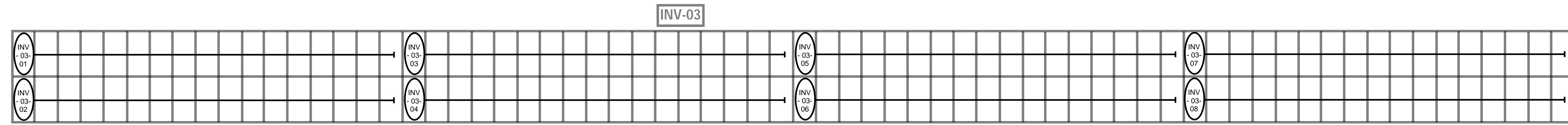
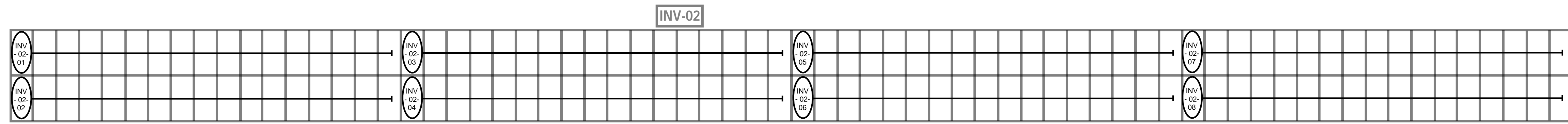
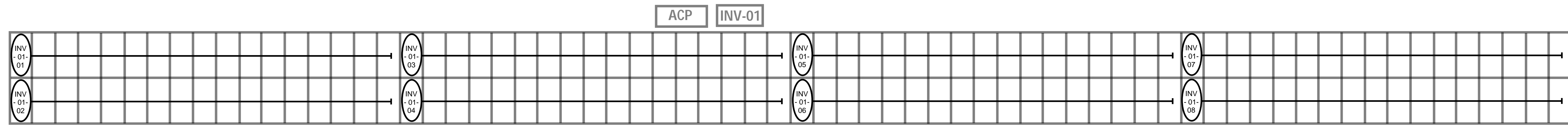
**INTERNATIONAL AG INVESTMENT FIRM**  
 SOLAR INSTALLATION  
 WILLOWS - 734.4 kW DC STC RATING  
 (39.567947, -122.249645)  
 APN: 021030042000

DATE: 10/30/2023  
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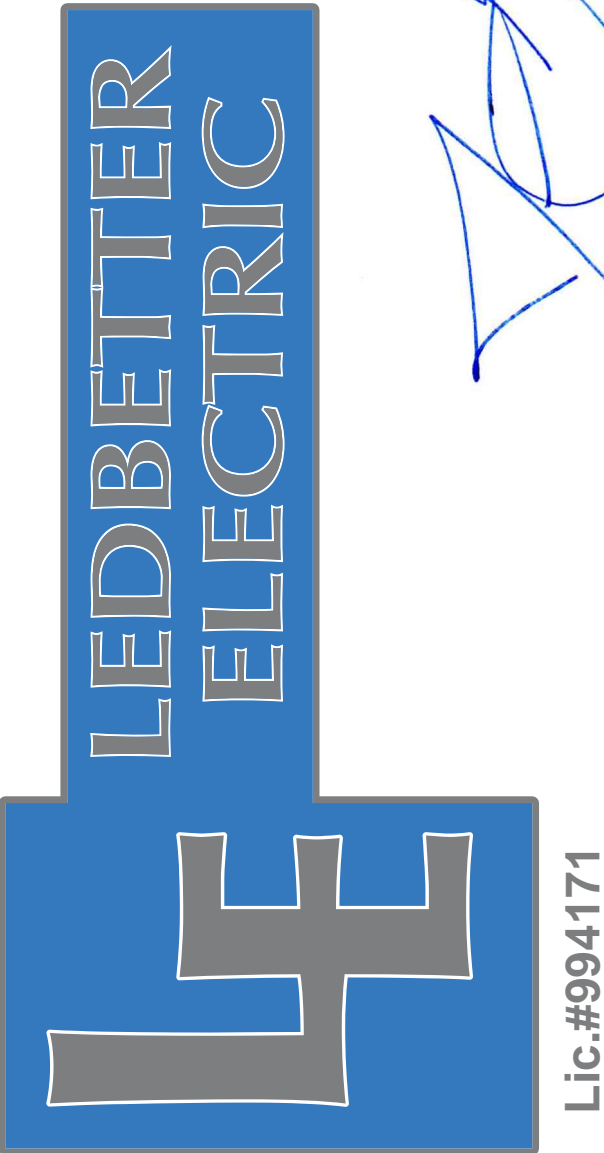
**E3.0**  
 ELECTRICAL SLD -  
 WILLOWS/BLOSSOM

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LEDBETTER ELECTRIC, INC.  
1004 YUBA ST  
MARYSVILLE, CA 95901



Lic.#994171

*[Handwritten signature]*

INTERNATIONAL AG INVESTMENT FIRM  
SOLAR INSTALLATION  
WILLOWS - 734.4 kW DC STC RATING  
(39.567947, -122.249645)

APN: 021030042000

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REVISIONS:

**E4.0**  
STRING WIRING -  
WILLOWS/BLOSSOM

PLACE ONE PLACARD ON EACH RESPECTIVE INVERTER

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.01**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.02**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.03**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.04**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.05**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.06**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.07**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.08**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.09**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT INV.10**

Nameplate AC Voltage 480 V  
 Nameplate AC Current 79.4 A  
 Nameplate AC Power 60 kW

5" 2-1/2"

1 EQUIPMENT LABELS - INVERTER AC DISCONNECT

PLACE ONE PLACARD ON EACH RESPECTIVE INVERTER

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.01**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.02**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.03**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.04**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.05**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

5"

PLACE ONE PLACARD ON EACH RESPECTIVE INVERTER

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.06**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.07**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.08**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.09**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

**PHOTOVOLTAIC SYSTEM  
DC DISCONNECT INV.10**

Operating Voltage 695.5 V DC  
 Operating Current 105.6 A DC  
 Maximum Voltage 906.4 V DC  
 Short Circuit Current 122.1 A DC

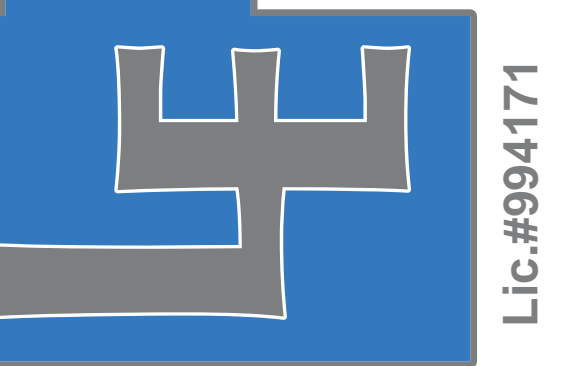
**WARNING**  
 ELECTRIC SHOCK HAZARD.  
 THE DC CONDUCTORS OF THIS  
 PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
 AND MAY BE ENERGIZED.

5"

2 EQUIPMENT LABELS - INVERTER DC DISCONNECT

**LEDBETTER ELECTRIC, INC.**  
 1004 YUBA ST  
 MARYSVILLE, CA 95901

**LEDBETTER  
ELECTRIC**



*[Handwritten signature]*

**INTERNATIONAL AG INVESTMENT FIRM**  
**SOLAR INSTALLATION**  
**WILLOWS - 734.4 kW DC STC RATING**  
 (39.567947, -122.249645)

APN: 021030042000

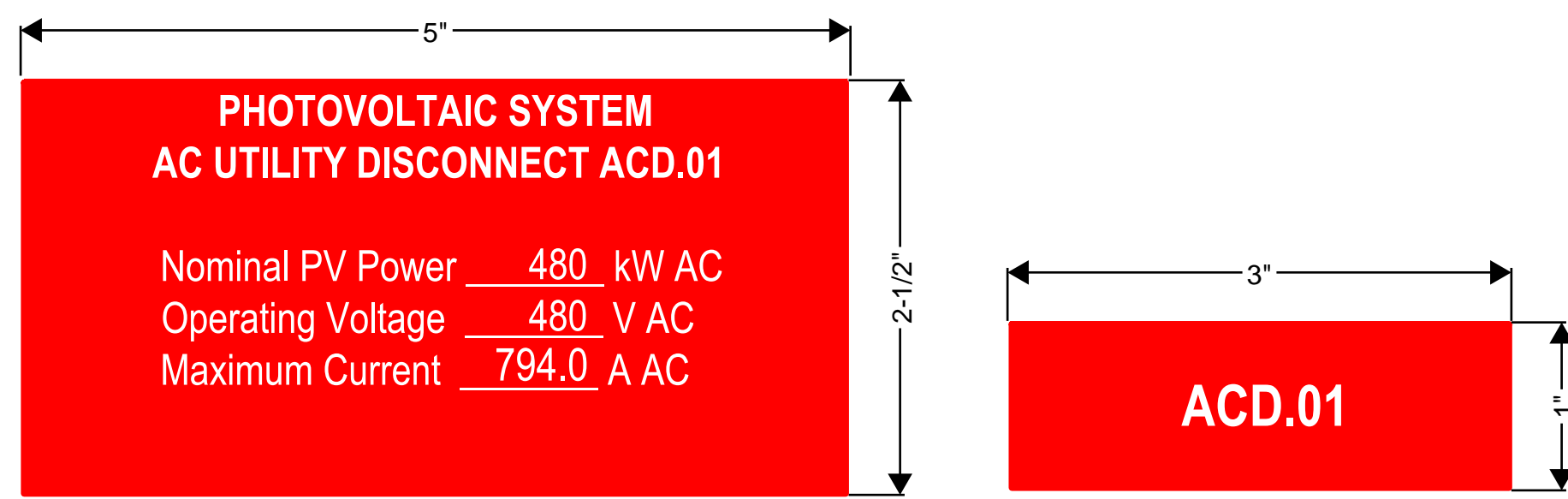
DATE: 10/30/2023

REVISIONS:

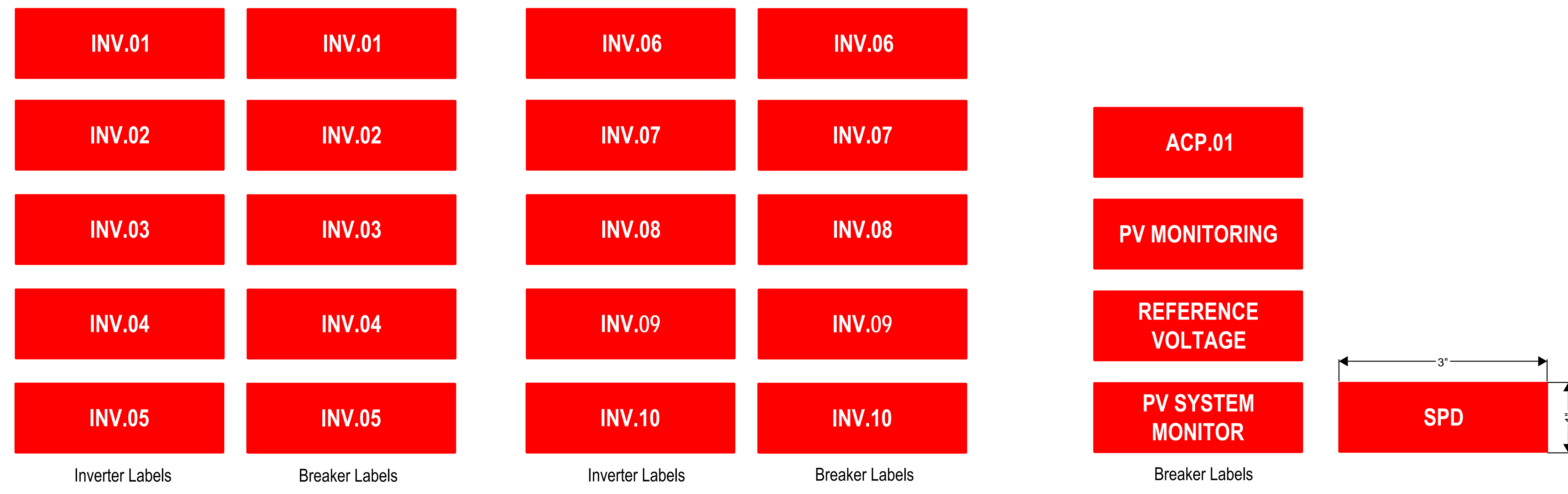
**E5.1**  
**EQUIPMENT LABELS - WILLOWS/BLOSSOM**

PLANS ARE NOT FOR CONSTRUCTION. PLANS REPRESENT AN EXAMPLE OF THE PLANNED INSTALLATION. FINAL PLAN SET IS SUBJECT TO MODIFICATION AND REQUIRES CUSTOMER/OWNER APPROVAL.

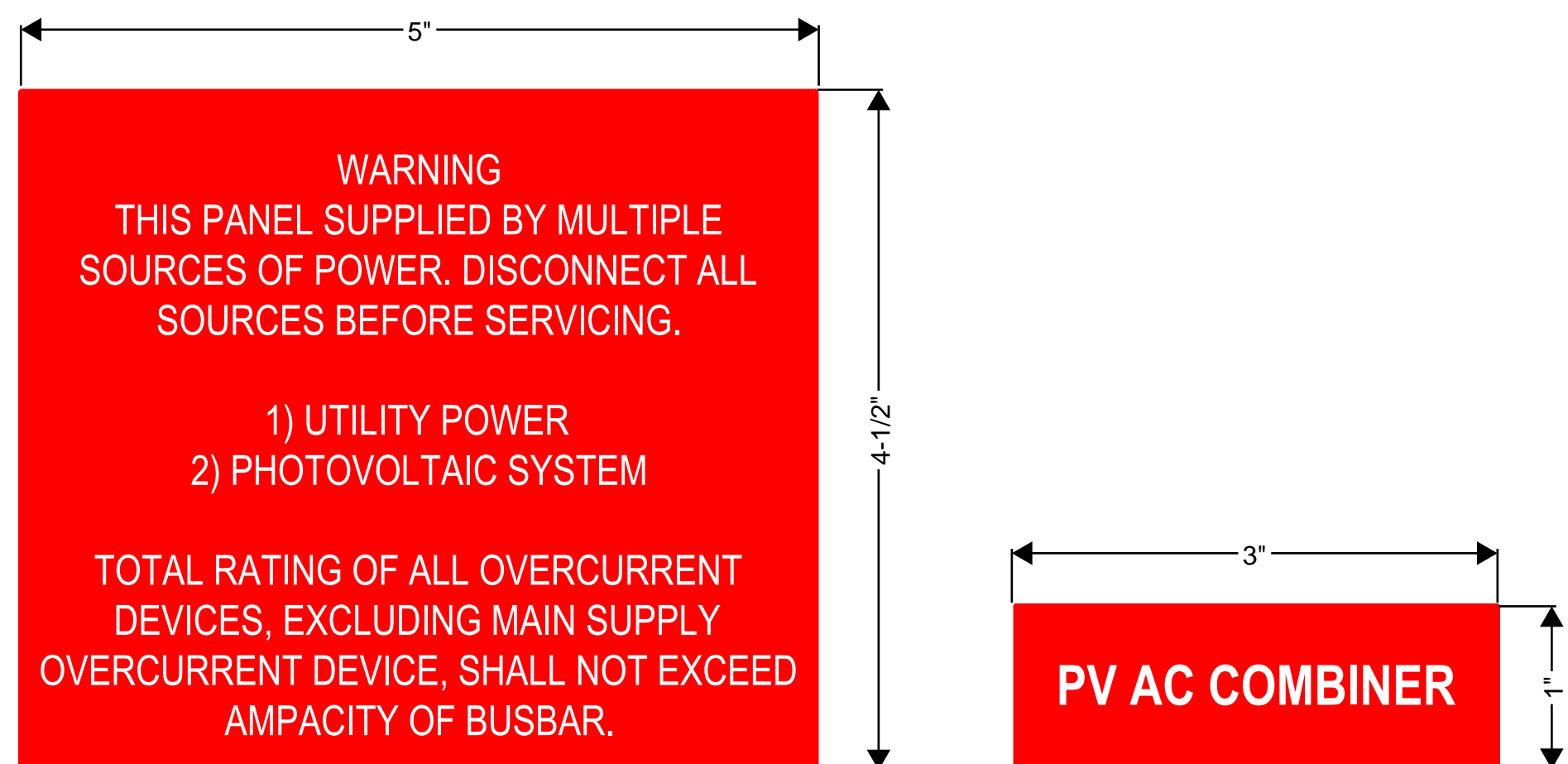
THIS WORK IS DESIGNED BY AND SHALL BE INSTALLED BY THE LISTED ELECTRICAL CONTRACTOR PER CBC 107 & BUSINESS PROFESSIONS CODE SECTION 6737.3.



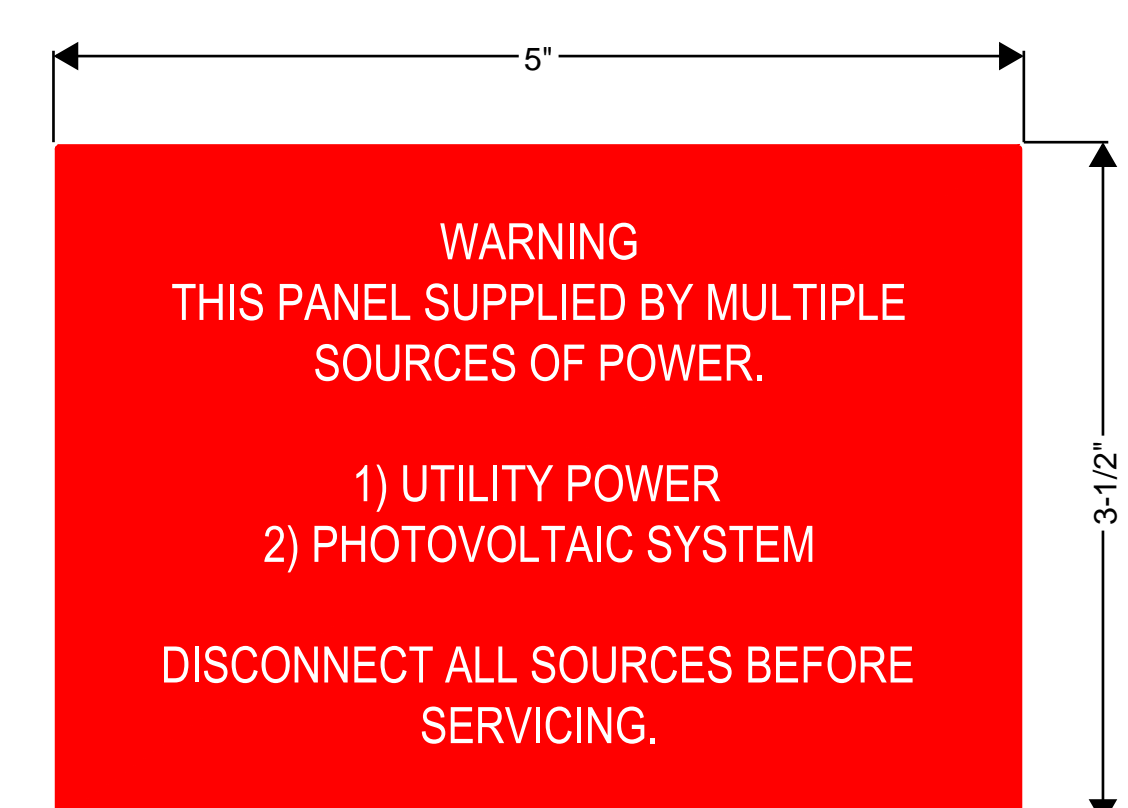
1 EQUIPMENT LABELS - AC DISCONNECT



2 EQUIPMENT LABELS - ID LABELS

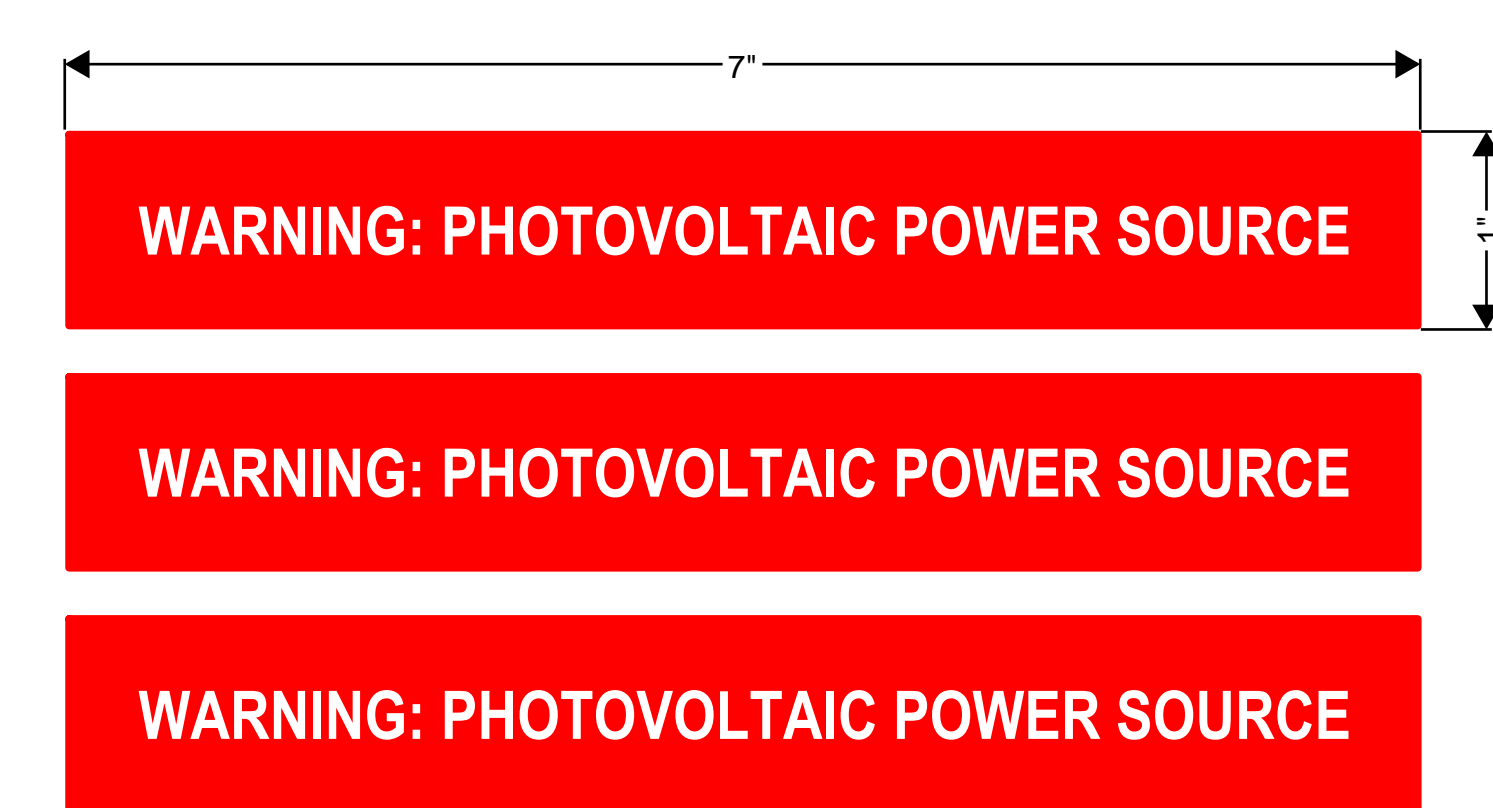


3 EQUIPMENT LABELS - AC PANELBOARDS



4 EQUIPMENT LABELS - AC PANELBOARDS

REFLECTIVE ADHESIVE LABEL. PLACE ON DC CONDUIT EVERY 10 FEET, EXPOSED RACEWAYS/OTHER WIRING, PULLBOX/JUNCTION BOX COVERS.

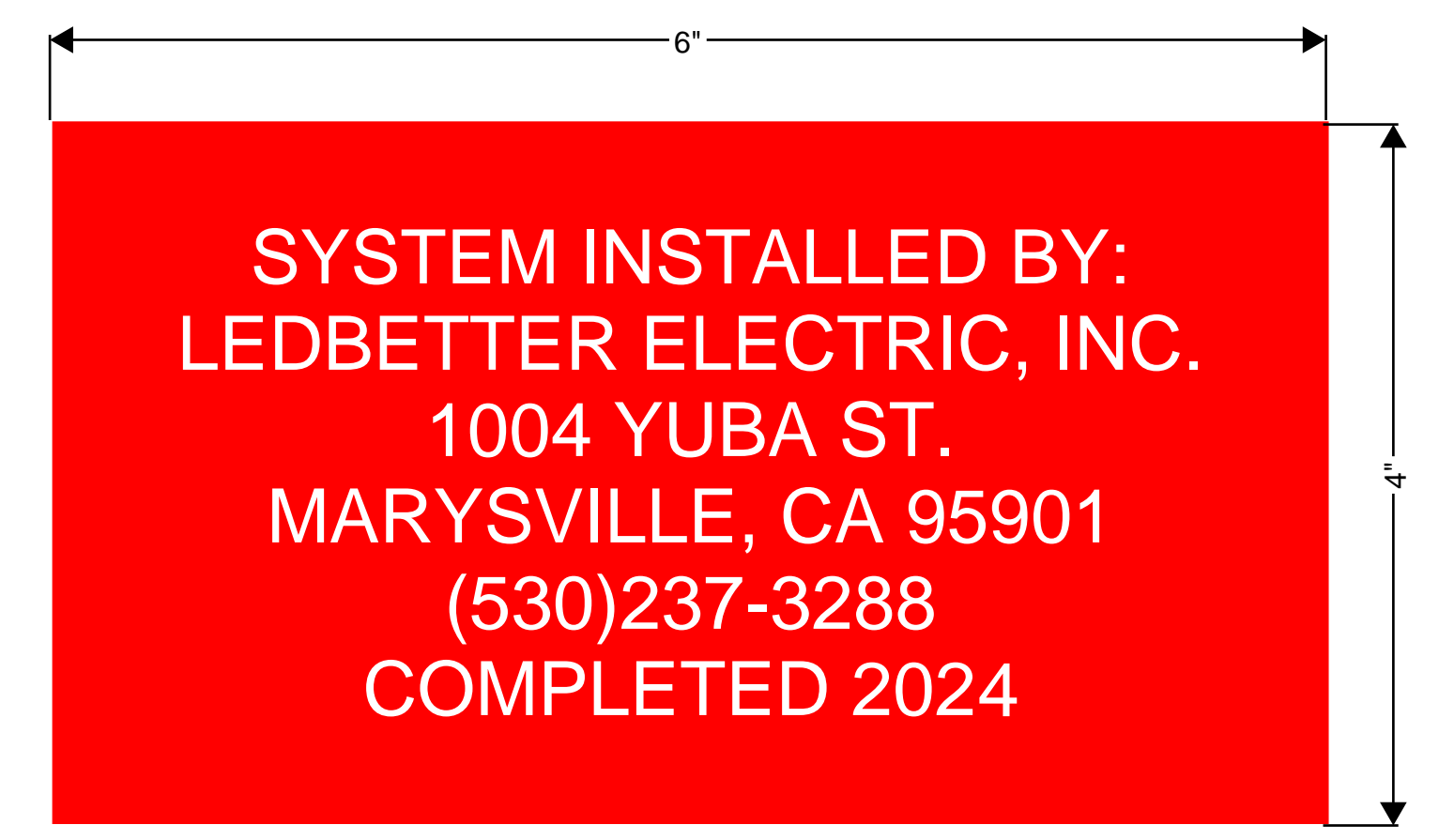


5 EQUIPMENT LABELS - DC CIRCUIT WARNING

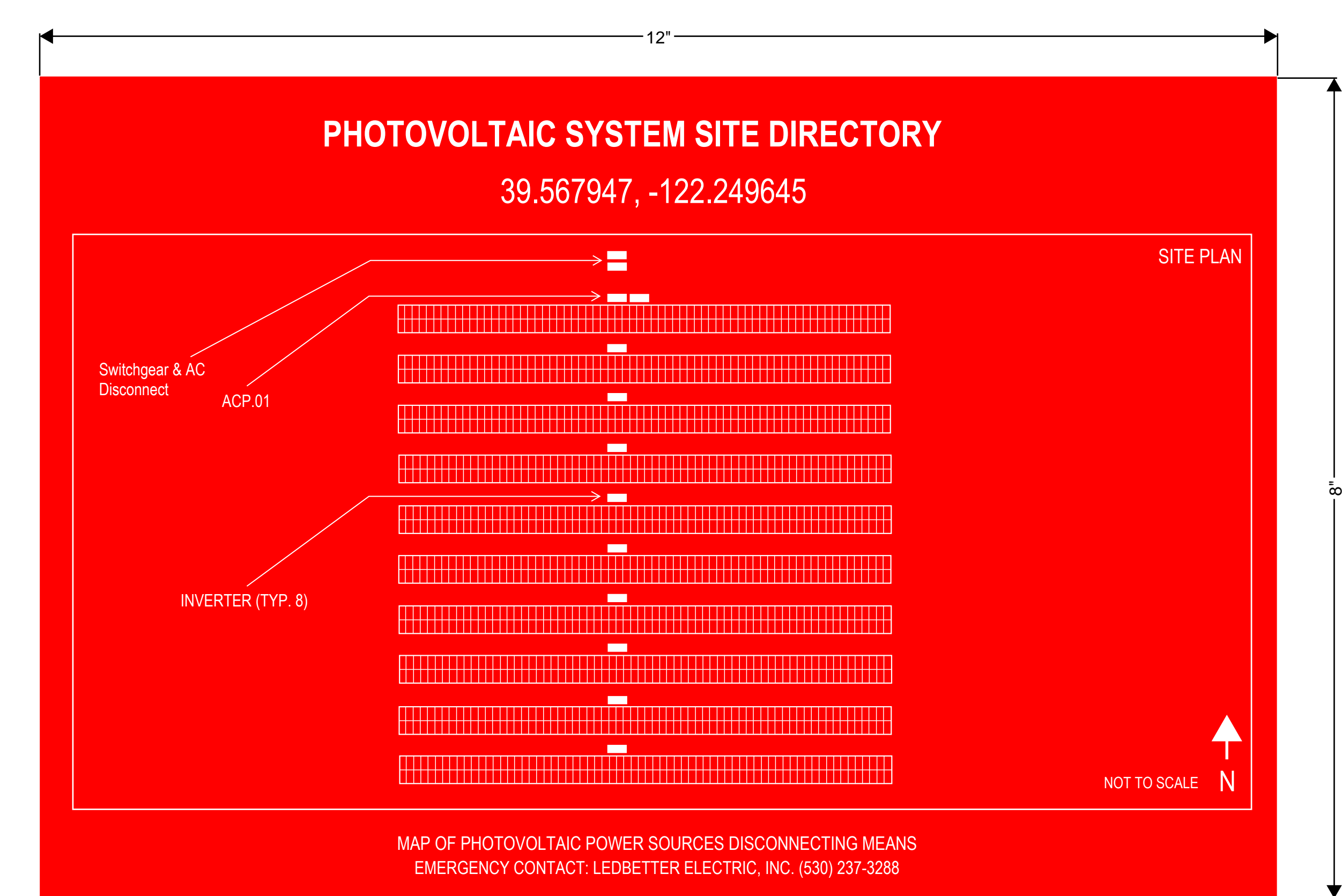
PLACE ON ALL ELECTRICAL EQUIPMENT



6 EQUIPMENT LABELS - MISC.



7 EQUIPMENT LABELS - SYSTEM INSTALLER

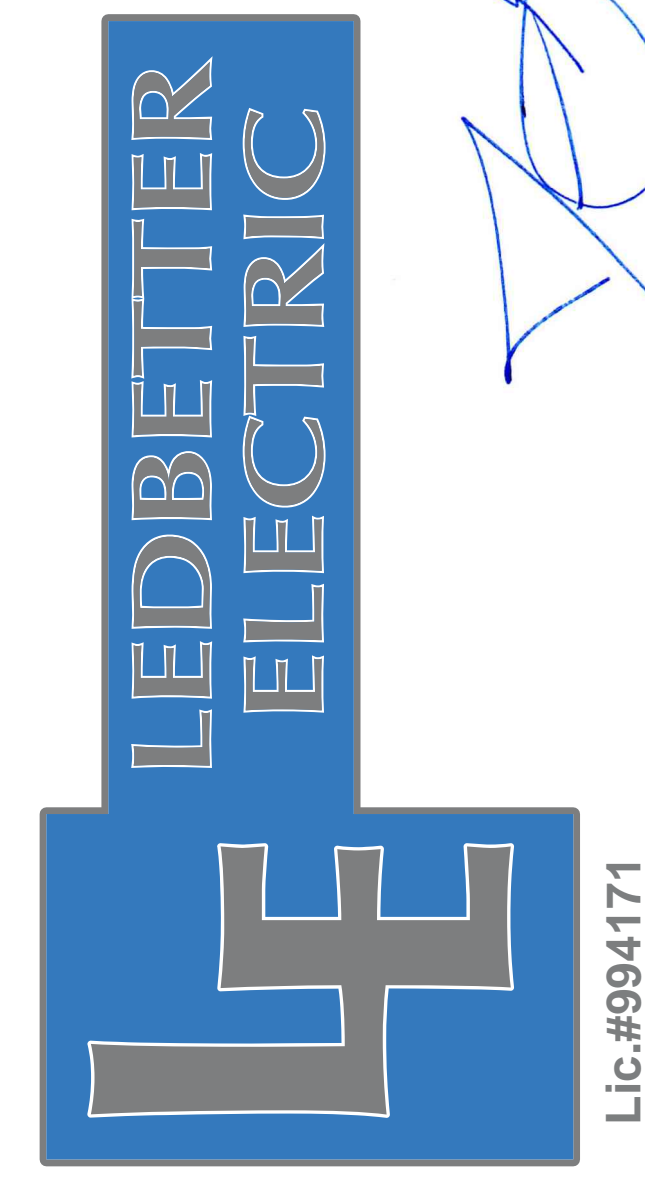


8 EQUIPMENT LABELS - SITE PLACARD

PLANS ARE NOT FOR CONSTRUCTION. PLANS REPRESENT AN EXAMPLE OF THE PLANNED INSTALLATION. FINAL PLAN SET IS SUBJECT TO MODIFICATION AND REQUIRES CUSTOMER/OWNER APPROVAL.

THIS WORK IS DESIGNED BY AND SHALL BE INSTALLED BY THE LISTED ELECTRICAL CONTRACTOR PER CBC 107 & BUSINESS PROFESSIONS CODE SECTION 6737.3.

LEDBETTER ELECTRIC, INC.  
1004 YUBA ST  
MARYSVILLE, CA 95901



Lic.#994171

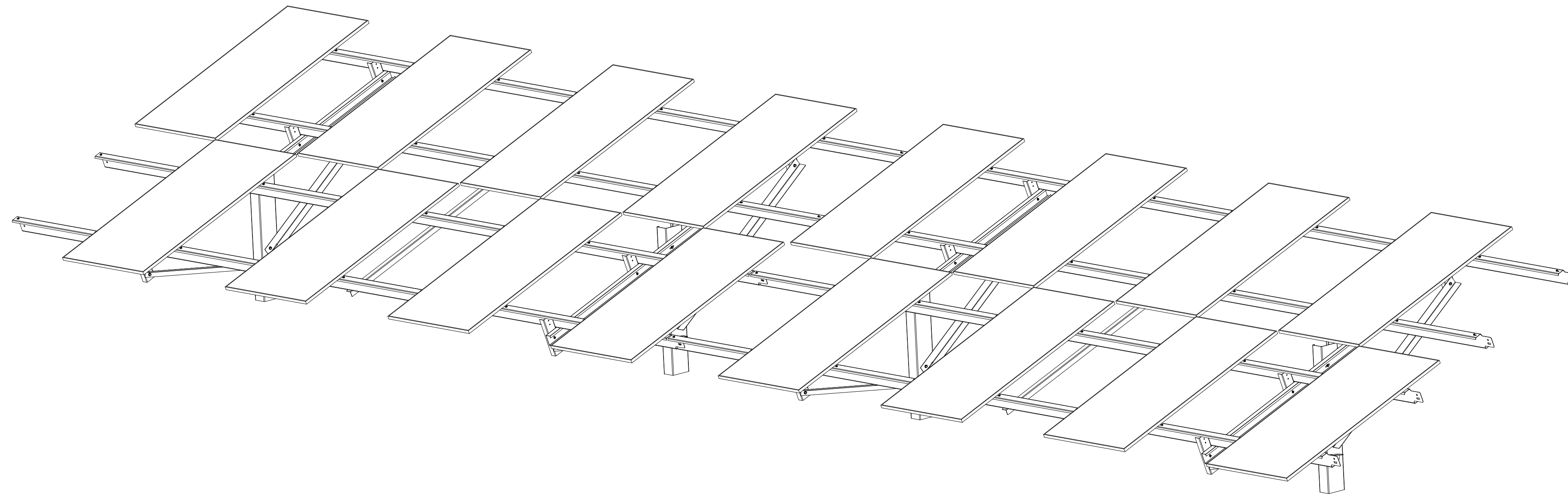
INTERNATIONAL AG INVESTMENT FIRM  
SOLAR INSTALLATION  
WILLOWS - 734.4 kW DC STC RATING  
(39.567947, -122.249645)  
APN: 021030042000

DATE: 10/30/2023  
REVISIONS:

**E5.2**  
EQUIPMENT LABELS - WILLOWS/BLOSSOM



# OMCO SOLAR CHOICE™ GROUND MOUNTED SOLAR STRUCTURES FOR LEDBETTER ELECTRIC



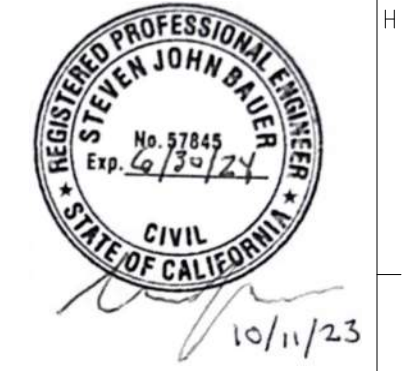
## DRAWING NUMBER

OS1.0  
OS1.1  
OS1.2  
OS2.0  
OS2.1  
OS2.2  
OS3.0  
OS3.1

## DRAWING DESCRIPTION

COVER SHEET  
GENERAL STRUCTURAL NOTES  
FOUNDATIONS  
GENERAL LAYOUT  
TYPICAL SECTIONS  
FRAMING PLANS  
DETAILS AND SECTIONS  
STRUCTURAL DETAILS

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CHOICE GROUND MOUNT  
BLOSSOM WILLOWS  
BLOSSOM WILLOWS  
WILLOWS, CA 95988

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
00	07/31/23	AVG		INITIAL RELEASE

PROJECT NAME:  
BLOSSOM WILLOWS  
PROJECT NUMBER  
4812357887  
DRAWING NAME:  
COVER SHEET  
DRAWING NUMBER:  
**OS1.0**

OMCO SOLAR  
4550 W. WATKINS ST.  
PHOENIX, AZ 85043  
www.omcosolar.com

**GENERAL STRUCTURAL NOTES:**

1. THE TERM "CONTRACTOR" AS REFERRED IN THIS DOCUMENT SHALL MEAN LEDBETTER ELECTRIC. THE TERM "PROJECT OWNER" AS REFERRED TO IN THIS DOCUMENT SHALL MEAN BLOSSOM WILLOWS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE APPROVED STAMPED CONSTRUCTION DOCUMENT IN ITS ENTIRETY PRIOR TO BIDDING THE PROJECT, START OF FABRICATION, ORDERING HARDWARE & MISCELLANEOUS STEEL, START OF CONSTRUCTION AND ASSEMBLY.
3. IF A CONFLICT BETWEEN DRAWING DETAILS, SECTIONS, PLANS AND NOTES IS DISCOVERED, NOTIFY OMCO SOLAR IMMEDIATELY IN WRITING FOR CLARIFICATION AND/OR FOR APPROPRIATE RESPONSE PRIOR TO PROCEEDING WITH CONSTRUCTION AND/OR ASSEMBLY OF THE RACKING SYSTEM.
4. IN THE EVENT A DRAWING DISCREPANCY AND/OR DISCREPANCIES IN MATERIAL RECEIVED IS ENCOUNTERED OR DISCOVERED, NOTIFY OMCO SOLAR IMMEDIATELY IN WRITING FOR CLARIFICATION AND/OR FOR APPROPRIATE RESPONSE PRIOR TO PROCEEDING WITH CONSTRUCTION AND/OR ASSEMBLY OF THE RACKING SYSTEM.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL CONSTRUCTION WORK, RACKING ASSEMBLIES AND INSTALLATIONS ARE IN ACCORDANCE WITH THE LATEST APPROVED STAMPED CONSTRUCTION DOCUMENTS.
6. MEANS AND METHOD OF INSTALLATION, ASSEMBLY AND CONSTRUCTION SEQUENCES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO ENSURE PROPER TECHNIQUES ARE EMPLOYED AND TEMPORARY SHORING AND BRACING ARE PROVIDED FROM START TO COMPLETION OF THE PROJECT CONSTRUCTION PER APPROVED STAMPED CONSTRUCTION DOCUMENTS.
8. ANY WORK COMPLETED DEVIATING FROM THE CONSTRUCTION DOCUMENT SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL LATEST DRAWINGS ARE USED AND DISTRIBUTED TO ALL INVOLVED IN THE PROJECT AND SUBCONTRACTORS.
10. THE PROJECT OWNER SHALL TAKE ALL NECESSARY MEASURES TO PREVENT SOIL EROSIONS, WATER PONDING AND FLOODING AROUND PILES OR IN THE VICINITY.
11. UNLESS SHOWN, DETAILED OR NOTED IN THE CONSTRUCTION DOCUMENT, ANY FIELD MODIFICATIONS, DRILLING, FABRICATION, REPAIRS, DEVIATION AND ADJUSTMENTS IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF OMCO SOLAR.
12. WHERE MEMBER CORROSION PROTECTION IS COMPROMISED DURING STAGING, FIELD HANDLING, CONSTRUCTION, ASSEMBLY, ETC. CONTRACTOR SHALL REPAIR THE DAMAGE PER APPROVED FIELD REPAIR RECOMMENDATIONS PER OMCO SOLAR'S INSTALLATION MANUAL(S).
13. NOTIFY OMCO SOLAR IMMEDIATELY OF ANY FIELD ISSUES THAT MAY BE ENCOUNTERED DUE TO ARISE RELATING TO STRUCTURAL DAMAGE AND/OR CONSTRUCTION CHALLENGES DUE TO INCORRECT INFORMATION.
14. THE CONSTRUCTION AND FOUNDATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED BUILDING CODES AND STANDARDS AND THE LOCAL BUILDING DEPARTMENT "AUTHORITY HAVING JURISDICTIONS" AMENDMENTS.
15. IT IS THE OWNER'S RESPONSIBILITY TO ORDER ANY SPARE PARTS FOR THE PURPOSE OF REPAIRS OR REPLACEMENT AFTER PROJECT COMPLETION AT THE OWNER'S EXPENSE.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SAFE WORKING CONDITIONS EXIST AND SAFE CONSTRUCTION TECHNIQUES ARE FOLLOWED AND ALL NECESSARY PRECAUTIONS ARE IN PLACE, ADDRESSED AND RESPECTED BY ALL PARTIES INVOLVED WITH THE CONSTRUCTION OF THE PROJECT AT ALL TIMES FROM START TO COMPLETION OF THE PROJECT.
17. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, COORDINATE ALL FIELD CONDITIONS WITH THE APPROVED STAMPED CONSTRUCTION DOCUMENTS PRIOR TO PROCEEDING WITH THE PROJECT CONSTRUCTION.
18. IT IS THE RESPONSIBILITY OF THE PROJECT OWNER TO NOTIFY THE CONTRACTOR OF ANY INVESTIGATIONS RELATED TO ANY KNOWN OBSTRUCTION OR UNANTICIPATED SITE CONDITIONS THAT MAY ALTER THE GROUND MOUNT STRUCTURE DESIGN OR MAY HAVE AN ADVERSE EFFECT ON THE PROJECT CONSTRUCTION.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT SOLAR MODULES ARE PROVIDED AND ASSEMBLED PER MODULE MANUFACTURER'S INSTALLATION MANUAL, THIS SET OF DRAWINGS, AND LATEST OMCO SOLAR CHOICE INSTALLATION MANUAL PROVIDED.
20. FIELD CUTTING OR WELDING OF COLD-FORM STRUCTURAL ELEMENTS IS NOT REQUIRED NOR PERMITTED WITHOUT THE WRITTEN APPROVAL BY OMCO SOLAR. IN ANY EVENT WHERE FIELD CUTTING AND/OR WELDING IS NECESSARY OR DESIRED, IT IS CRITICAL THAT OMCO SOLAR BE NOTIFIED IMMEDIATELY IN WRITING PRIOR TO FIELD CUTTING OR WELDING.

**DESIGN CODES, DATA & CRITERIA**

THE SOLAR STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE (CBC) 2022 AND ASCE 7-22.

COLD FORMED STEEL DESIGN STRUCTURAL ELEMENTS SHALL BE PER AISI NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2012 EDITION

FOR STRUCTURE OCCUPANCY AND RISK CATEGORY: I

WIND:

BASIC WIND SPEED (3 SECOND GUST): 90 MPH

WIND EXPOSURE CATEGORY: C

WIND TUNNEL TEST AND WIND LOAD ANALYSIS REPORT: PER CPP PROJECT 9795

WIND DESIGN PRESSURES: VARIES WITH MEMBERS AND COMPONENTS

SEISMIC:

SEISMIC IMPORTANCE FACTOR, I: = 1.00

MAPPED SPECTRAL RESPONSE ACCELERATIONS, SDS: = 0.850g, SD1: = 0.540g

SEISMIC DESIGN CATEGORY: = D

BASIC SEISMIC-FORCE-RESISTING SYSTEMS: = CANTILEVER COLUMN

SEISMIC SHEAR AT BEAM TO TILT: = 166.4 LBS

SEISMIC RESPONSE COEFFICIENT Cs: = 0.680

SEISMIC DESIGN BASE SHEAR: V = 1.33 KIPS

SITE CLASS: D

RESPONSE MODIFICATION COEFFICIENTS: R = 1.25

ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

SNOW:

GROUND SNOW LOAD (Pg): = 6 PSF

SNOW EXPOSURE FACTOR (Ce): = 1.0

SNOW LOAD IMPORTANCE FACTOR (I): = 0.80

THERMAL FACTOR (Ct): = 1.0

SLOPE FACTOR (Cs): = 0.91

FLAT ROOF SNOW LOAD (Pf): = 3.36 PSF

DESIGN SNOW LOAD (Ps): = 3.06 PSF

DEAD LOAD:

MODULE: = 2.33 PSF

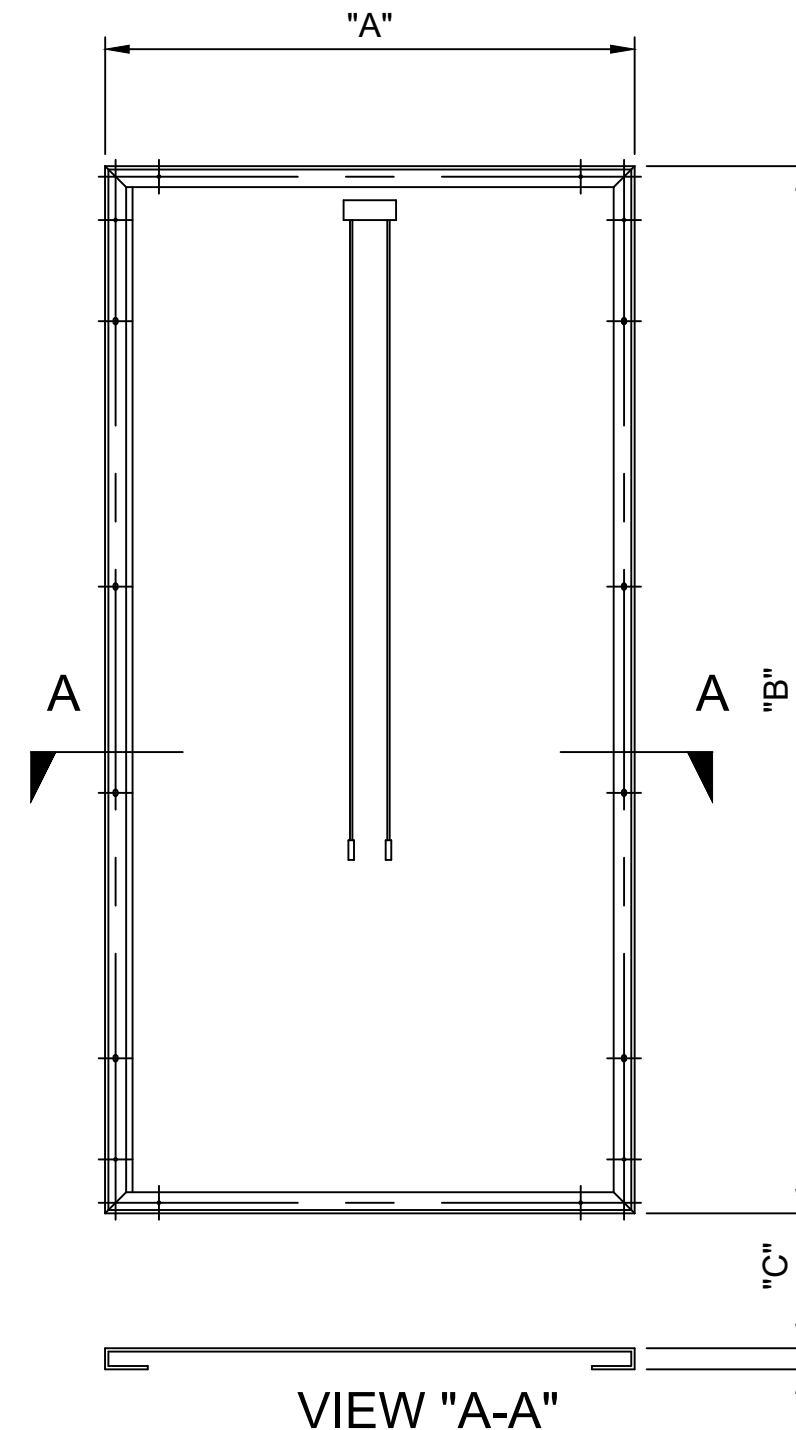
LIVE LOAD:

GROUND MOUNTED: = 0 PSF

**REFERENCE CODES AND STANDARDS (SHALL BE LATEST U.N.O)**

- ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- ANSI - AMERICAN NATIONAL STANDARD INSTITUTE
- ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
- ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS
- AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AISI - AMERICAN IRON AND STEEL INSTITUTE
- IBC - INTERNATIONAL BUILDING CODE

**SOLAR MODULE SPECIFICATIONS**



DIMENSIONS				
DESCRIPTION	"A"	"B"	"C"	WEIGHT
JKM540M-72HL4-TV	44.65" [1134mm]	89.53" [2274mm]	1.57" [40mm]	64.82 LB [29.4KG]

NOTE: MODULE INSTALLATION SHALL BE PER MODULE MANUFACTURERS REQUIREMENTS.

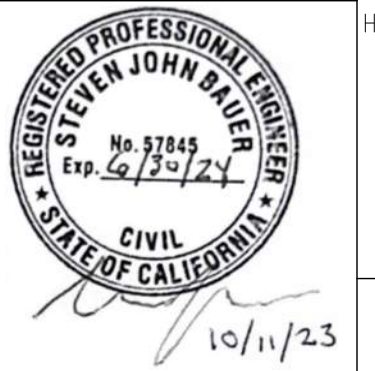
**MATERIAL SPECIFICATION NOTES:**

1. COLD-FORMED STEEL: ASTM A653-17 SS OR HSLAS - MIN. YIELD AND TENSILE STRENGTHS SHOWN ON FRAMING PLANS.
2. STEEL PLATES SHALL BE PER ASTM A36, 36 KSI STEEL.
3. MATERIAL GALVANIZATION MINIMUMS: POSTS/PILES - G235 HARDWARE - 15 MICRON ALL OTHER STEEL - G90
4. M8 FASTENERS: DIN933 CLASS 8.8.
5. FLANGE HEAD: HEX RIV NUT, OPEN END, STEEL THREAD PROOF LOAD MEETS CLASS 8 PER ISO 898-02.
6. M8, M10 AND M12 FLAT WASHERS: DIN125A AND/OR 3/8", 7/16" AND 1/2" USS F436 THRU-HARDENED.
7. M10 AND M12 FASTENERS: DIN933/931 CLASS 8.8.
8. M10 AND M12 HEX NUT: DIN934 CLASS 8.
9. ROUND PIPES SHALL BE PER ASTM A513-15 TYPE 1a, 1b OR 2.
10. MODULE CLAMPS SHALL BE ALUMINUM 6063-T6.
11. CLAMP SPACER SHALL BE ALUMINUM ASTM B221.

**ABBREVIATIONS:**

Assembly Authority Having Jurisdiction	ASS'Y AHJ	Material Maximum Mega Watts	MATL MAX MW
Back to Back	B/B	Micrometer	um
Beam	BM	Millimeter	mm
Beam End	BE	Minimum	MIN
Bearing	BRG	Module	MOD
Between Centers	BC	Module Clamp	MC
Bolt Circle	BTC	Module Rail	MR
Both Faces	BFS	Multiple	MULT
Both Sides	BS	North/South	NS
Bracket	BRKT	Not To Scale	NTS
Cap Screw	CAP SCR	Number	NO
Cantilever	CANT'L	On Center	OC
Connection Bracket Long	CBL	Outside Diameter	OD
Connection Bracket Short	CBS	Outside Face Overall	OF OA
Center	CTR	Perpendicular	PERP
Centerline	C.L.	Photovoltaics	PV
Center to Center	C/C	Places	PLCS
Circular	CIR	Post/Pile	P
Clear	CLR	Point	PT
Clockwise	CW	Pounds	LBS
Configuration	CONFIG	Pounds per Square Foot	PSF
Connection Construction Package	Conn CP	Quantity	QTY
Continuous	CONT	Radial	RDL
Counterclockwise	CCW	Radius	RAD
Decimal	DEC	Rectangle	RECT
Deep/Depth	DP	Reference Line	REFL
Detail	DTL	Required	REQD
Diagonal Brace Lower/Upper	DBL, DBU	Right Hand Round	RH RND
Dimension	DIM	Screw	SCR
Distance	DIST	Scope of Work	SOW
Double	DBLE	Section	SECT
Drawing	DWG	Set screw	SSCR
Each	EA	Sheet	SHT.
East/West Rack Beam Top, Mid, Low	E/W RBT E/W RBM E/W RBL	Similar	SIM.
Elevation	ELEV	Single	SGL
End to End	E/E	Sleeve	SLV
Equal	EQL	Slotted	SLTD
Equally spaced	EQLSP	Socket	SKT
Elevation Existing Exterior	ELEV EX. EXT	Socket head	SCH
Face to Face	F/F	Square	SQ
Fastener	FSTNR	Square Meters	SQM
Field Fast	F.F.	Standard	STD
Fillet	FIL	Steel	STL
Gage	GA	Surface	SURF
Ground Mount	GM	Thick	THK
Hexagonal Horizontal Hot Dipped Galvanization	HEX HORIZ HDG	Thread	TRD
Inch	IN	Through	THRU
Inside diameter	ID	Tilt Bracket	TB
Interior	INT	To Be Determined	TBD
Kilo Pounds Kilowatt	kips kW	Top Of Typical	T.O. TYP
Lateral Brace Left hand	LB LH	Unless Noted Otherwise	UNO
Length	L	Vertical	VERT
Lock Nut	LN	Watt	WT
Lockwasher	LKWASH	Wire Management	WM
Long	LG	Work Point	W.P.

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**CHOICE GROUND MOUNT BLOSSOM WILLOWS BLOSSOM WILLOWS WILLOWS, CA 95988**

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
00	07/31/23	AVG		

PROJECT NAME:  
**BLOSSOM WILLOWS**

PROJECT NUMBER  
4812357887

DRAWING NUMBER:  
**GENERAL NOTES**

DRAWING NUMBER:  
**OS1.1**

OMCO SOLAR  
4550 W. WATKINS ST.  
PHOENIX, AZ 85043  
www.omcosolar.com

# FOUNDATION INSTALLATION

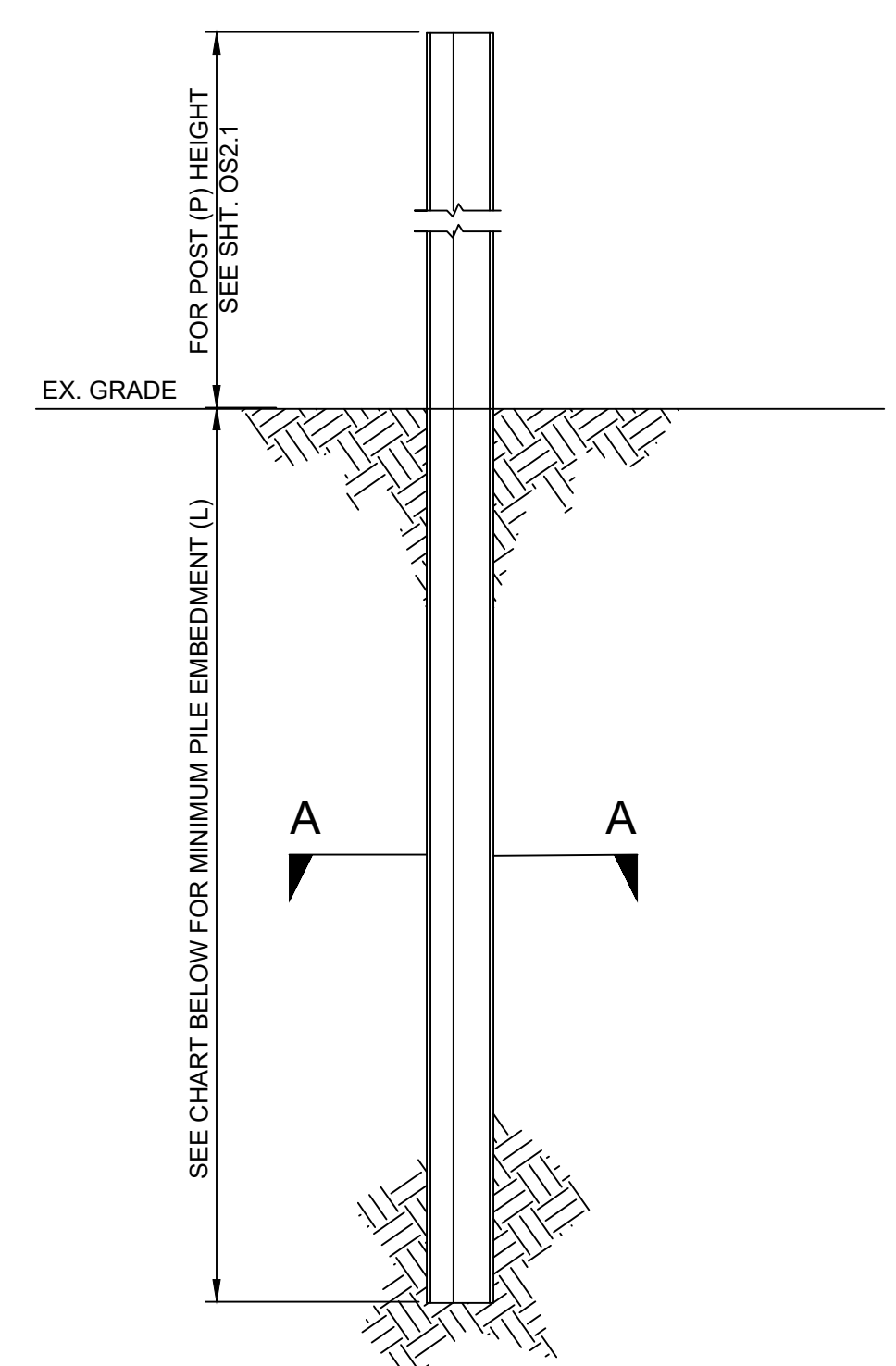
## FOUNDATION NOTES

1. THE FOUNDATION DESIGN OF POST/PILES SHALL BE PER THE LOCAL AHJ ADOPTED BUILDING CODE, PILE REACTIONS AND/OR LOAD TESTING REPORTS PROVIDED. FOUNDATION DESIGN SHALL BE PER THE GOVERNING PILE REACTIONS RESULTING FROM THE STRUCTURAL ANALYSIS UTILIZING THE SPECIFIC PROJECT DESIGN MODULE, WIND LOADS, SNOW, AND SEISMIC LOAD SPECIFIED IN THIS SET. SEE TABLE THIS SHEET FOR POST REACTION AT GRADE AND MINIMUM EMBEDMENT REQUIREMENTS.
2. IT IS CRITICAL FOR PILES TO BE INSTALLED IN THE PROPER ORIENTATION AND LOCATION. REFERENCE LATEST OMCO CHOICE INSTALLATION MANUAL PROVIDED FOR ALL PILE INSTALLATION TOLERANCES, FOR ORIENTATION AND LOCATION.
3. TRENCHING OR EXCAVATION IN THE VICINITY OF PILE FOUNDATIONS SHALL SATISFY THE MINIMUM CLEARANCES NOTED BELOW BETWEEN EDGE OF TRENCH AND PILE.  
EAST-WEST TRENCHING = 60"  
NORTH-SOUTH TRENCHING = 36"
4. ALL CIVIL DESIGN, SITE LAYOUT, AND ASSOCIATED WORK SHALL BE DESIGNED, APPROVED, AND INSTALLED BY OTHERS.
5. PILES NOT DRIVEN TO THE SPECIFIED EMBEDMENT DEPTH SHALL BE REDESIGNED AND/OR MODIFIED AT THE CONTRACTOR'S EXPENSE. REDESIGN SHALL BE APPROVED AND/OR PROVIDED BY OMCO SOLAR.
6. IN THE EVENT OF ENCOUNTERING PILE REFUSAL, NOTIFY OMCO SOLAR IMMEDIATELY PRIOR TO MAKING ANY FIELD ADJUSTMENTS OR MODIFICATIONS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ENGINEER OF RECORD IF FIELD CONDITIONS AND SOIL CONDITIONS ARE NOT PER THE GEOTECHNICAL REPORT OR APPROVED STAMPED CONSTRUCTION DOCUMENTS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE RECOMMENDATIONS PROVIDED IN THIS APPROVED CONSTRUCTION DOCUMENTS AND THE SITE GEOTECHNICAL REPORTS.
9. PILE SHALL NOT BE DRIVEN OR SET IN LOW POINTS WHERE WATER WILL BE ACCUMULATING OR PONDING.
10. FOUNDATION DESIGN PER ON-SITE PILE TESTING REPORT CA-091-23 POT BLOSSOM-WILLOWS BY SUNSTALL, DATED 08/21/2023.

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CHOICE GROUND MOUNT  
BLOSSOM WILLOWS  
BLOSSOM WILLOWS  
WILLOWS, CA 95988



VIEW "A-A"

TYPICAL DRIVEN PILE (PD) 1

NOTE: FOR PILE LOAD TESTING VALUES ON THE MAX POST REACTIONS AT GRADE TABLE SHALL BE MULTIPLIED BY THE APPROPRIATE SAFETY FACTORS AS FOLLOWS: FOR UPLIFT MULTIPLY POST REACTIONS BY 2.0, FOR DOWNFORCE MULTIPLY POST REACTIONS BY 1.65 AND FOR LATERAL MULTIPLY THE MOMENT BY 1.65 AND DIVIDE BY TESTING LOAD APPLICATION HEIGHT. TESTING SHALL BE PERFORMED PER ASTM D3689, D3966, AND D1143 STANDARDS.

MAX. POST REACTION AT GRADE							PILE SPECS
STRUCTURE IDENTIFIER	UPLIFT (KIPS) Y (-)	DOWN (KIPS) Y (+)	SHEAR (KIPS)		MOMENT (KIP-FT)		PD L
			N-S	E-W	Z	X	
E9	2.10	3.26	0.94	0.04	8.14	0.15	6'-0"
P10	2.10	2.93	0.96	0.04	7.43	0.15	6'-0"
I10	1.17	2.08	0.62	0.03	5.68	0.11	6'-0"

DATE	REV	DESCRIPTION
07/31/23	00	INITIAL RELEASE

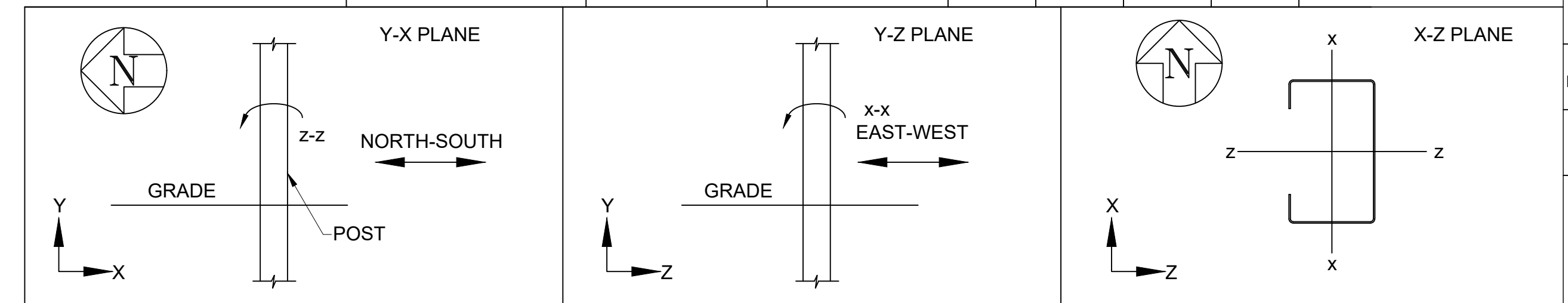
PROJECT NAME:  
BLOSSOM WILLOWS

PROJECT NUMBER:  
4812357887

DRAWING NAME:  
FOUNDATION INSTALLATION

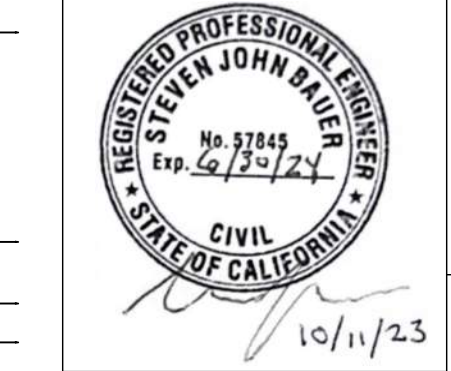
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OS1.2

OMCO SOLAR  
4550 W. WATKINS ST.  
PHOENIX, AZ 85043  
www.omcosolar.com

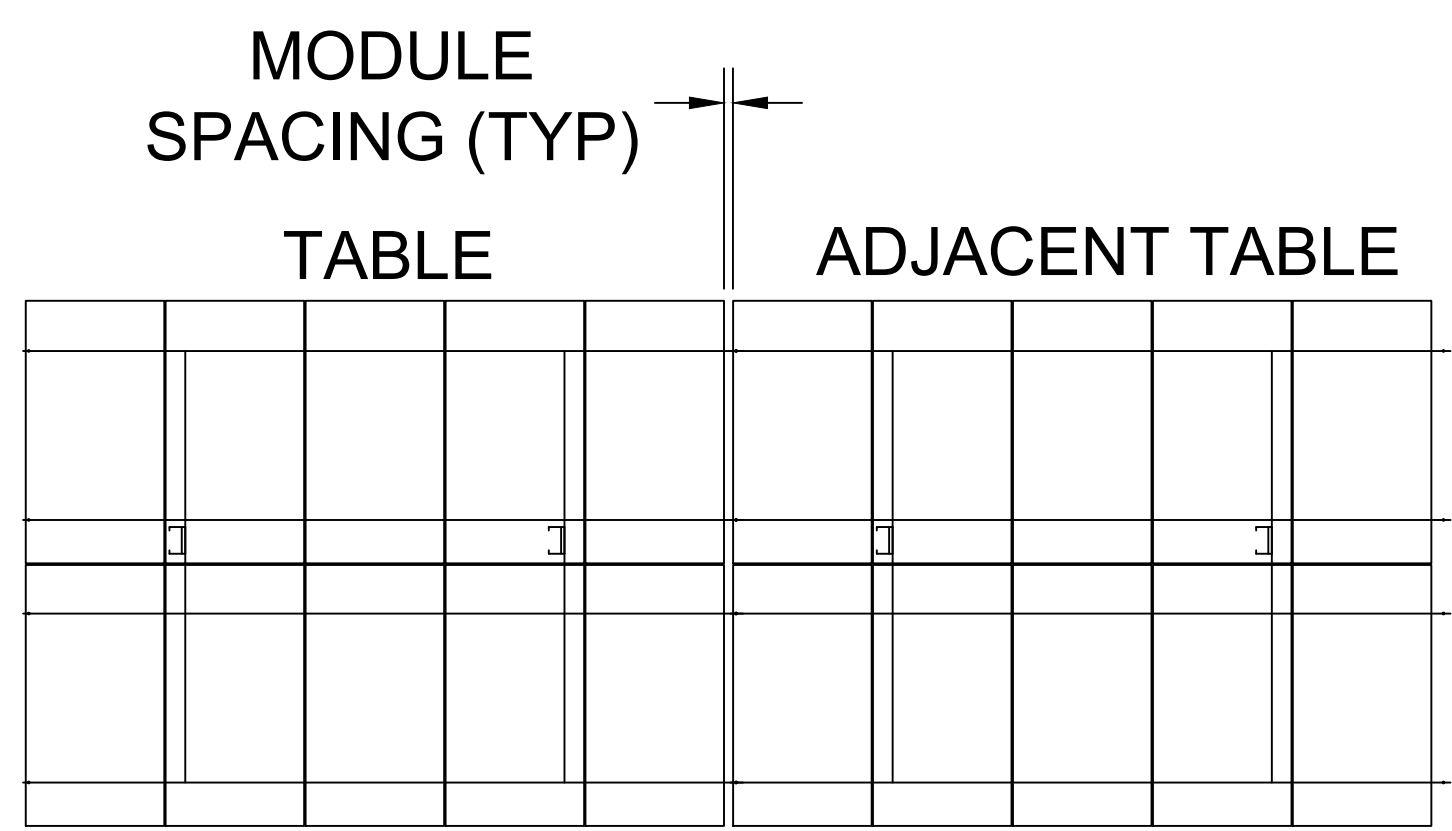
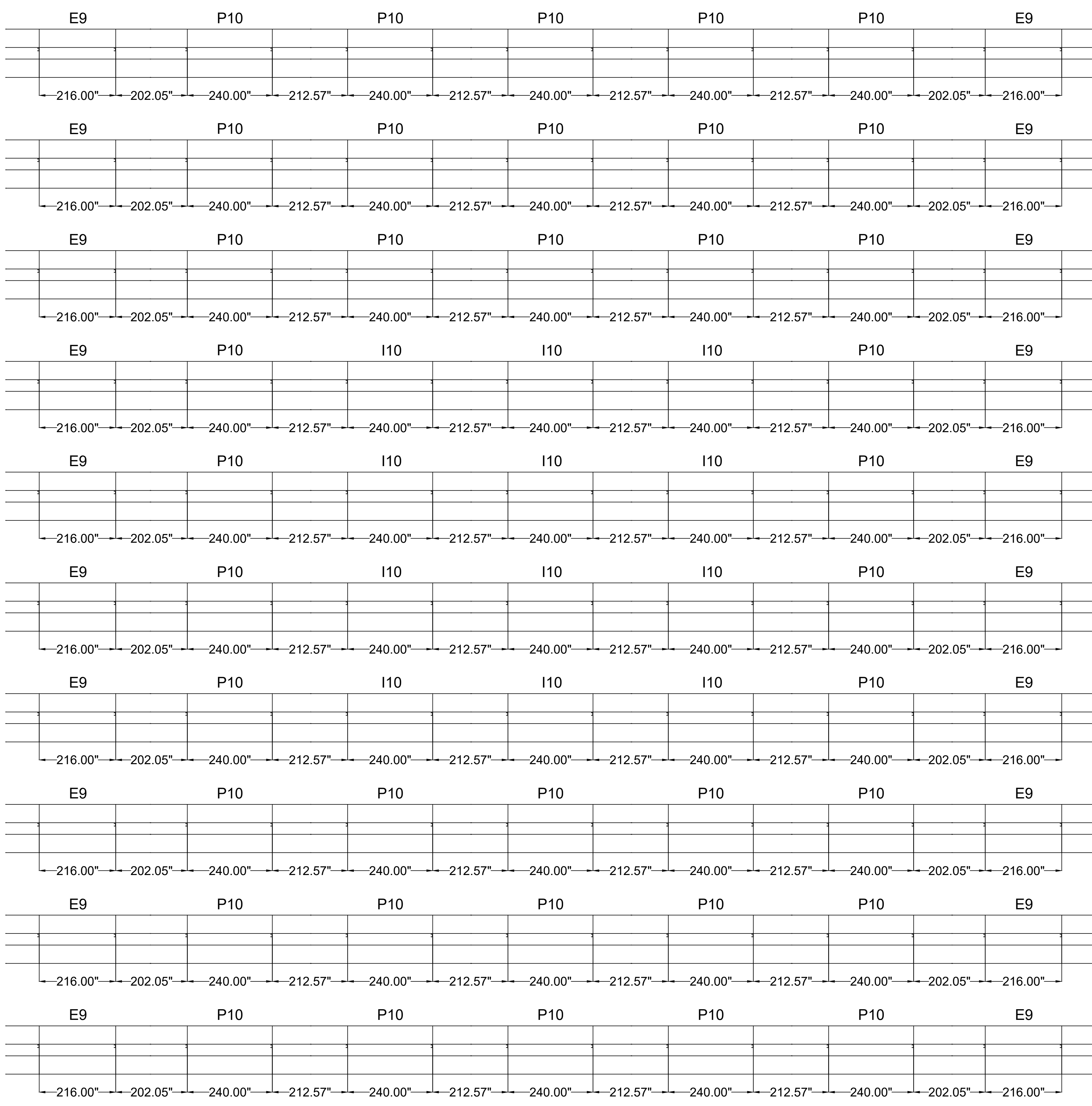




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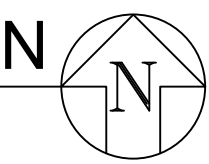
CHOICE GROUND MOUNT  
 BLOSSOM WILLOWS  
 BLOSSOM WILLOWS  
 WILLOWS, CA 95988



END MOD/END MOD	MOD/MOD
2.57"	0.39"

ADJACENT TABLE MODULE SPACING EXAMPLE AND SCHEDULE  
 (NTS)

OVERALL STRUCTURE LAYOUT PLAN  
 (NTS)



REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
00	07/13/23	AVG		INITIAL RELEASE

PROJECT NAME:  
 BLOSSOM WILLOWS

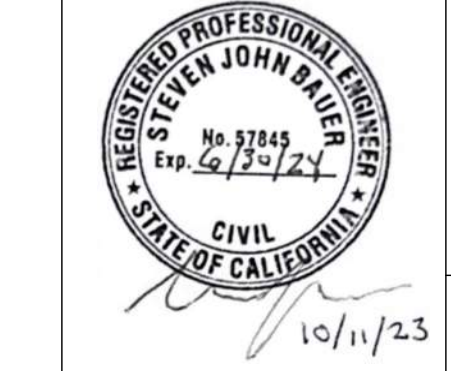
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DRAWING NAME:  
 GENERAL LAYOUT

DRAWING NUMBER:  
 OS2.0

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CHOICE GROUND MOUNT  
 BLOSSOM WILLOWS  
 BLOSSOM WILLOWS  
 WILLOWS, CA 95988

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
00	07/31/23	AVG		INITIAL RELEASE

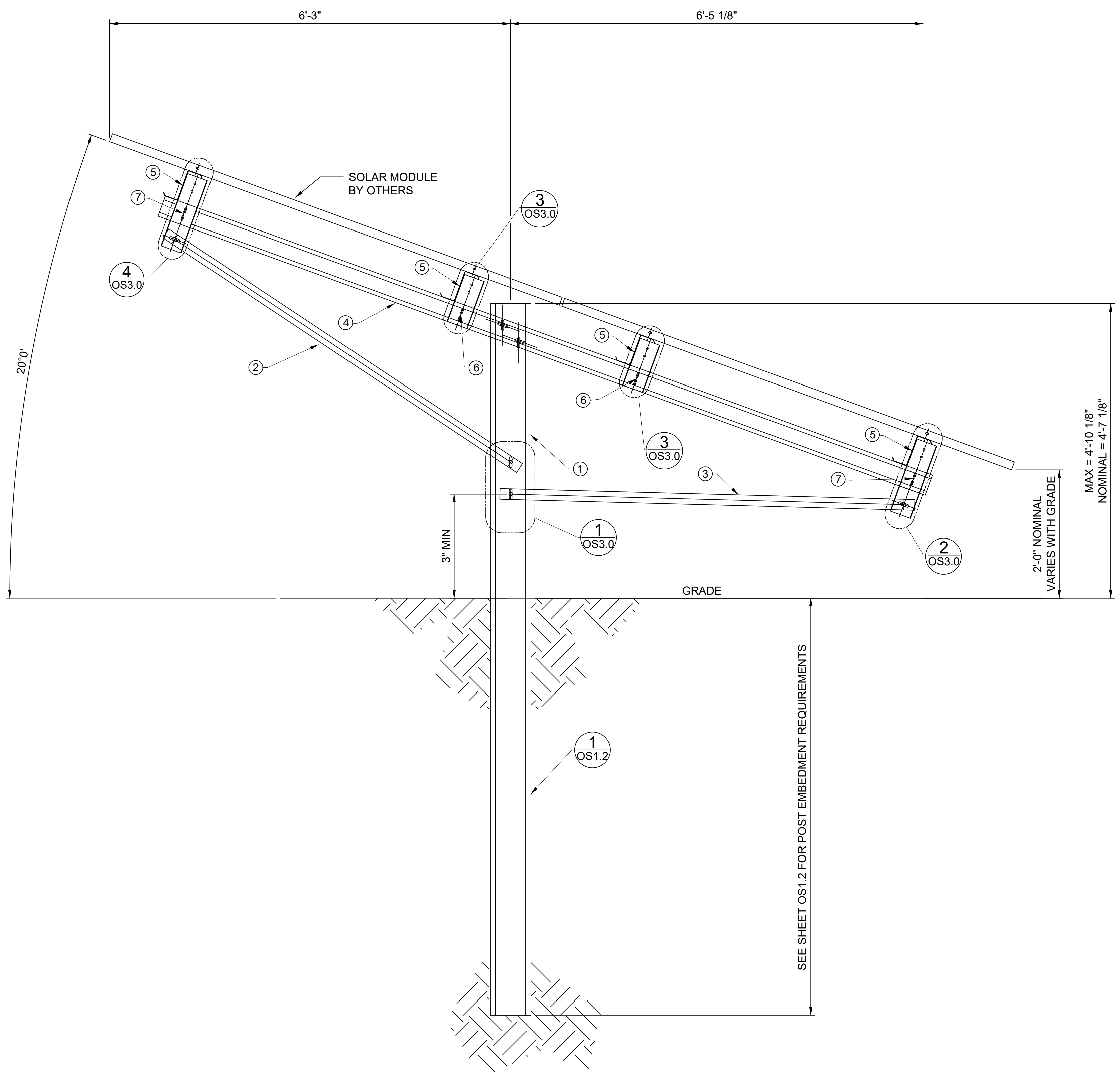
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 BLOSSOM WILLOWS

PROJECT NUMBER:  
 4812357887

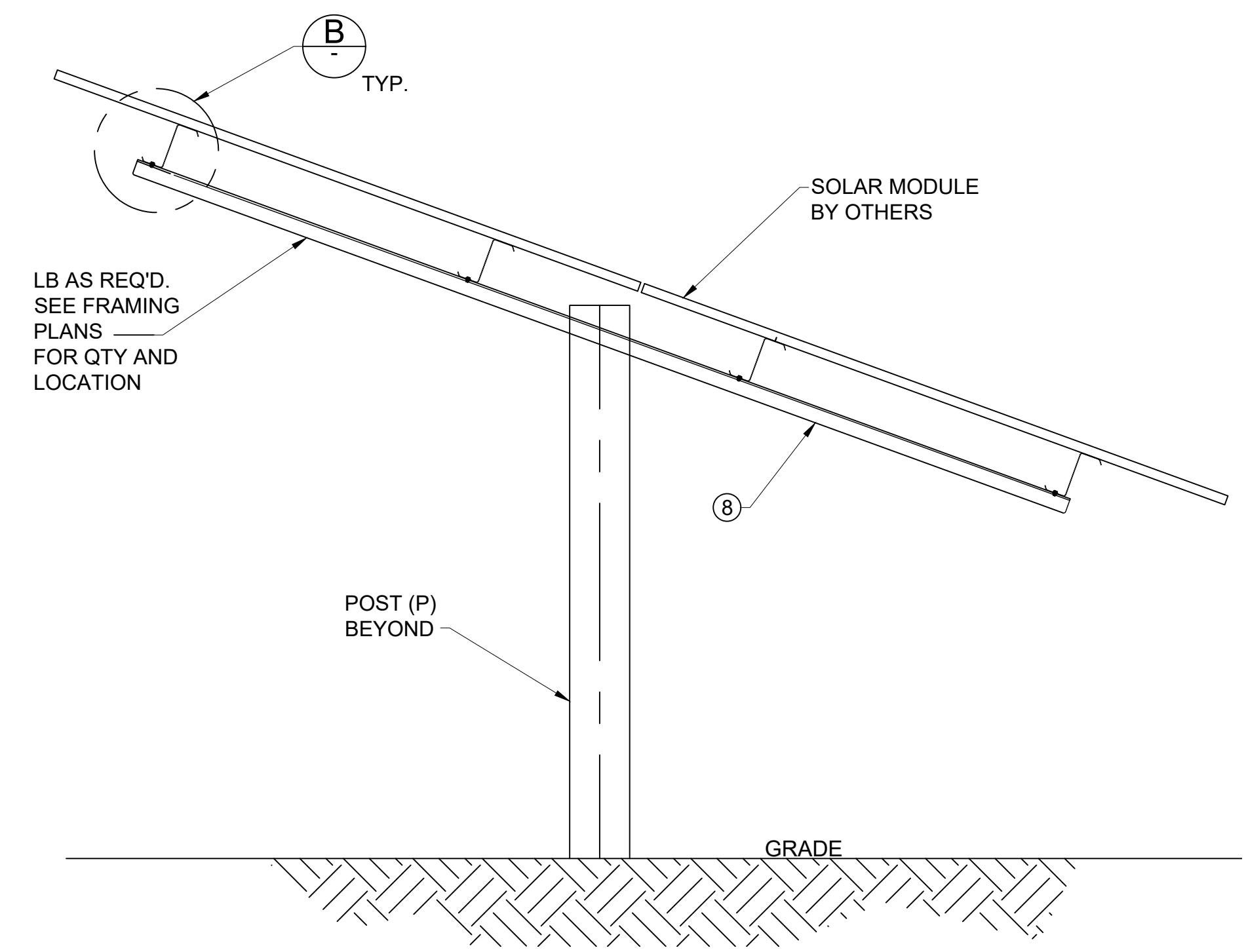
DRAWING NAME:  
 TYPICAL SECTIONS

DRAWING NUMBER:  
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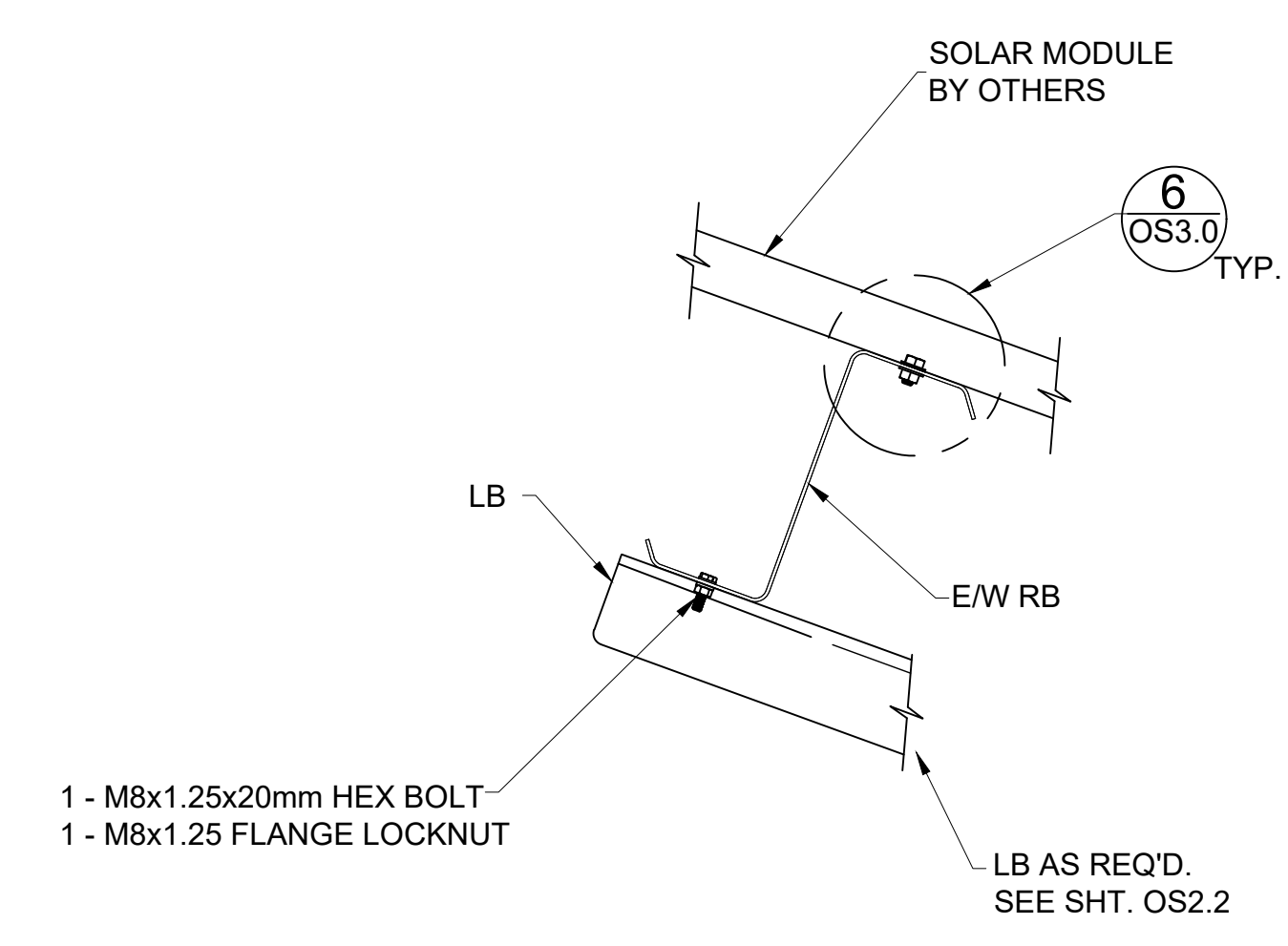
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TYP. SECTION AT POST (A)  
 (NTS)



SECTION AT LB (C)



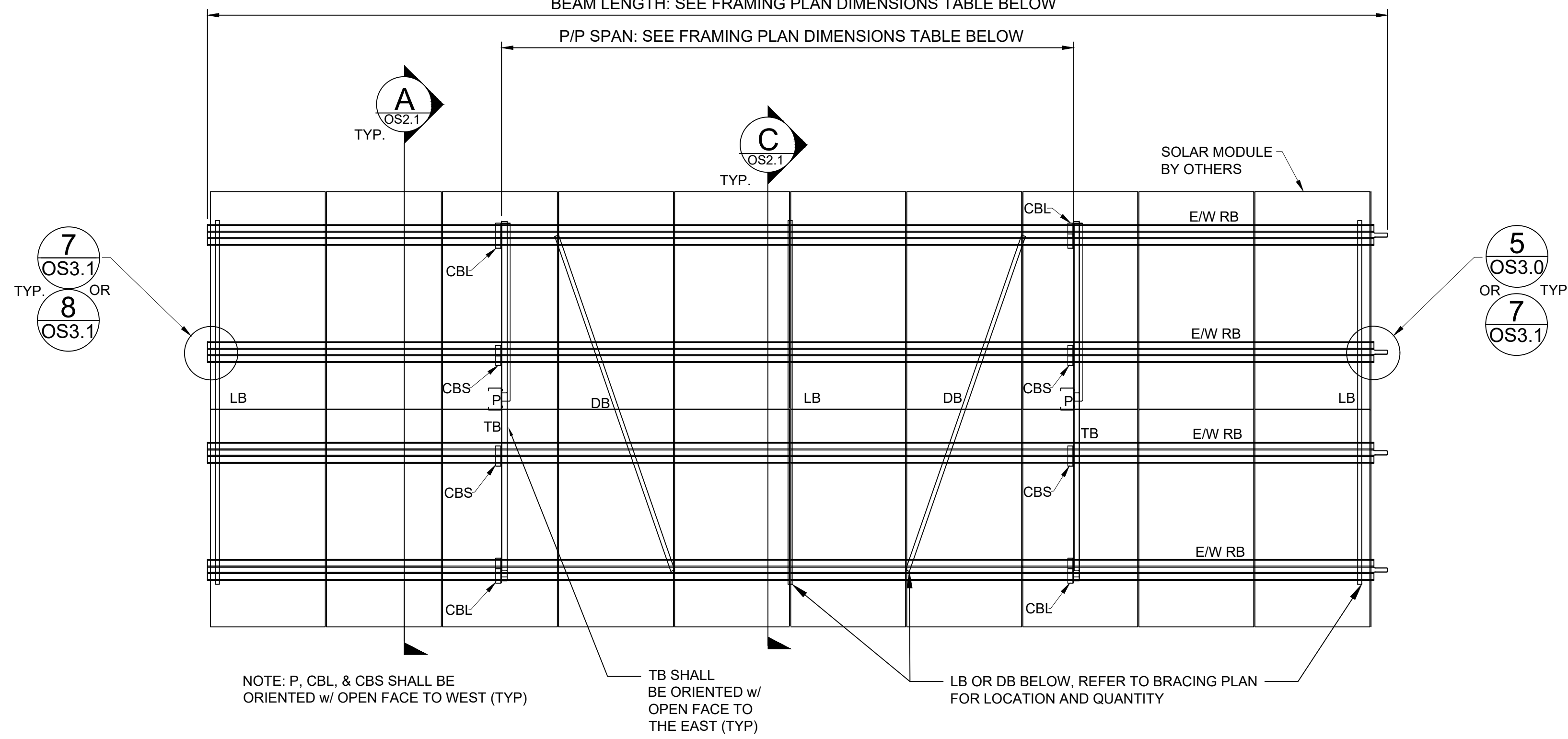
E/W RB TO LB CONNECTION (B)  
 TYP.

COMPONENTS		
ITEM NO.	DESCRIPTION	MARK
①	POST	P
②	DIAGONAL BRACE UPPER	DBU
③	DIAGONAL BRACE LOWER	DBL
④	TILT BRACKET	TB
⑤	EAST/WEST RACK BEAM	E/W RB
⑥	"U" CONNECTOR BRACKET SHORT	CBS
⑦	"U" CONNECTOR BRACKET LONG	CBL
⑧	LATERAL BRACE	LB

NOTE: 10 MODULE WIDE TABLE SHOWN FOR FRAMING SCHEDULE PURPOSE.

BEAM LENGTH: SEE FRAMING PLAN DIMENSIONS TABLE BELOW

P/P SPAN: SEE FRAMING PLAN DIMENSIONS TABLE BELOW



NOTE: P, CBL, & CBS SHALL BE ORIENTED w/ OPEN FACE TO WEST (TYP)

TB SHALL BE ORIENTED w/ OPEN FACE TO THE EAST (TYP)

LB OR DB BELOW, REFER TO BRACING PLAN FOR LOCATION AND QUANTITY

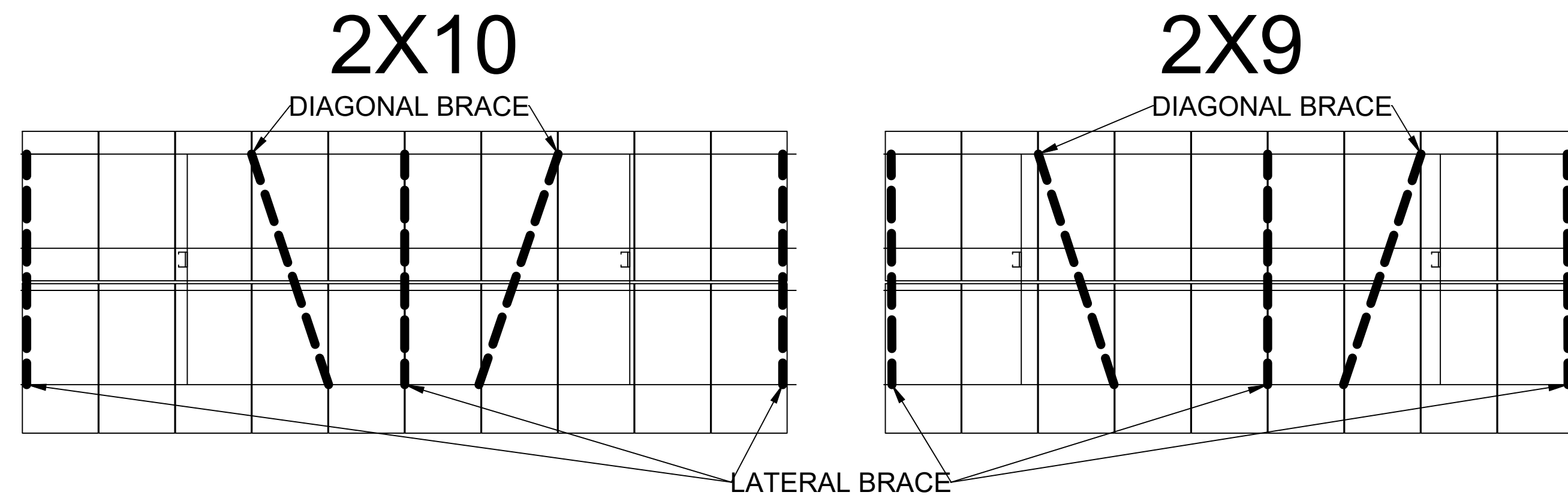
## FRAMING SCHEDULE

E9, P10 & I10								
MARK	MEMBERS	DIMENSIONS					Fy (ksi)	Fu (ksi)
		"a"	"b"	"c"	"t"	"r"		
P	POST	7.63"	4.5"	1"	0.112"	0.27"	57	70
DBU	DIAGONAL BRACE UPPER	2"	2"	-	0.092"	0.13"	57	70
DBL	DIAGONAL BRACE LOWER	3"	2"	-	0.092"	0.13"	57	70
TB	TILT BRACKET	4"	3"	1"	0.055"	0.06"	80	90
E/W RB	EAST/WEST RACK BEAM	6"	3"	-	0.055"	0.25"	80	90
CBS	CONNECTOR BRACKET SHORT	4"	2"	-	0.092"	0.13"	50	60
CBL	CONNECTOR BRACKET LONG	4"	2"	-	0.092"	0.13"	50	60
DB	DIAGONAL BRACE	1"	-	-	0.055"	0.05"	80	90
LB	LATERAL BRACE	1"	-	-	0.055"	0.05"	80	90

## FRAMING PLANS (NTS)

TABLE	BEAM LENGTH	P/P SPAN
E9	411.15"	216"
P10	456.19"	240"
P10	456.19"	240"

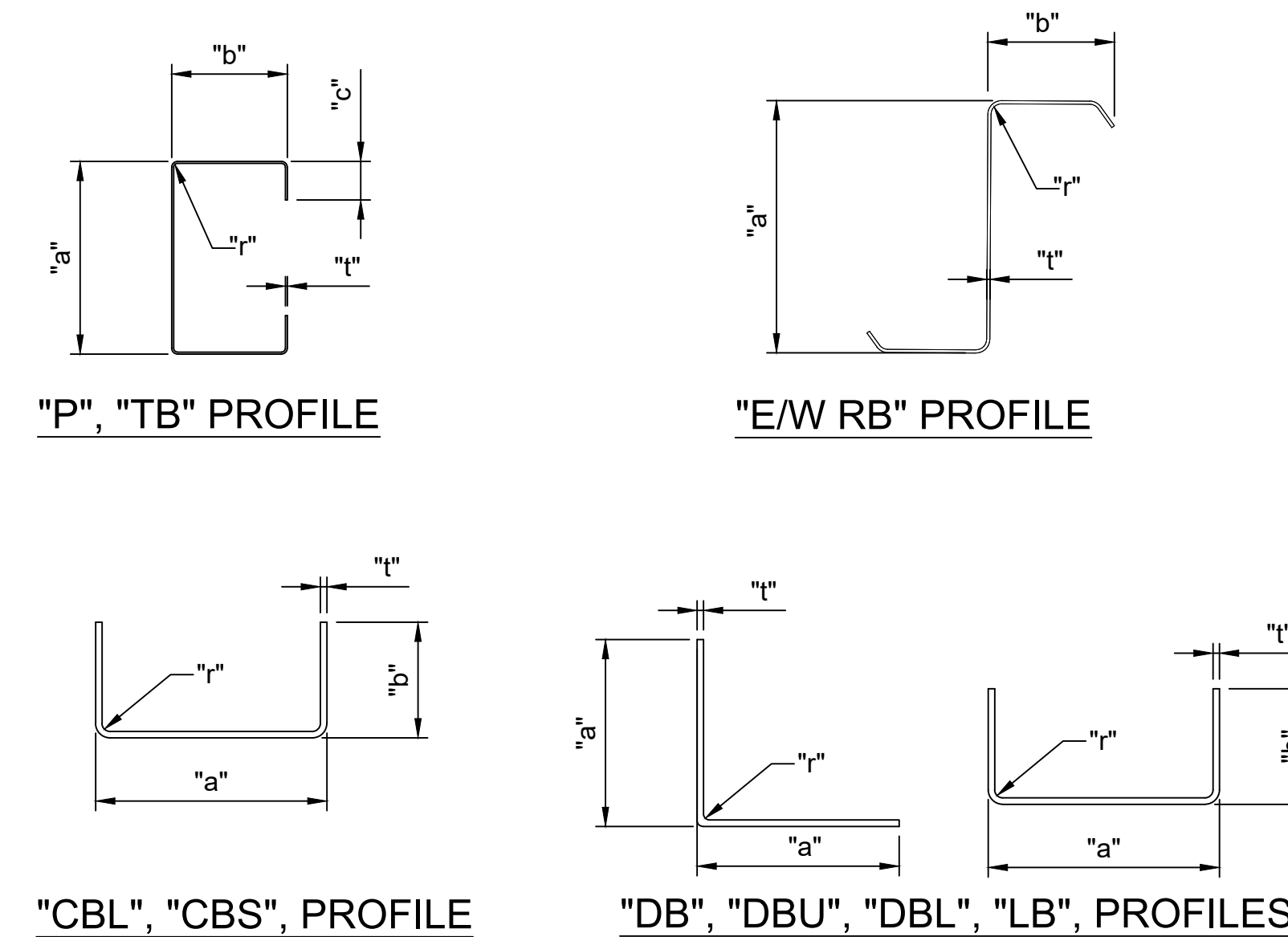
## FRAMING PLAN DIMENSIONS



## BRACING PLANS (NTS)

- BRACE PLAN NOTES:
- AT LATERAL BRACES ATTACH TO ALL FOUR RACK BEAMS
  - AT DIAGONAL BRACES ATTACH TO ONLY THE MOST NORTH AND MOST SOUTH RACK BEAMS
  - ALL BRACING MUST BE INSTALLED AND AT FINAL TORQUE WITH STRUCTURE SQUARE PRIOR TO MODULE INSTALLATION

## MEMBER PROFILES



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BLOSSOM WILLOWS  
BLOSSOM WILLOWS  
WILLOWS, CA 95988

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PROJECT NAME:  
BLOSSOM WILLOWS

PROJECT NUMBER:  
4812357887

DRAWING NAME:  
FRAMING PLANS

DRAWING NUMBER:  
OS2.2

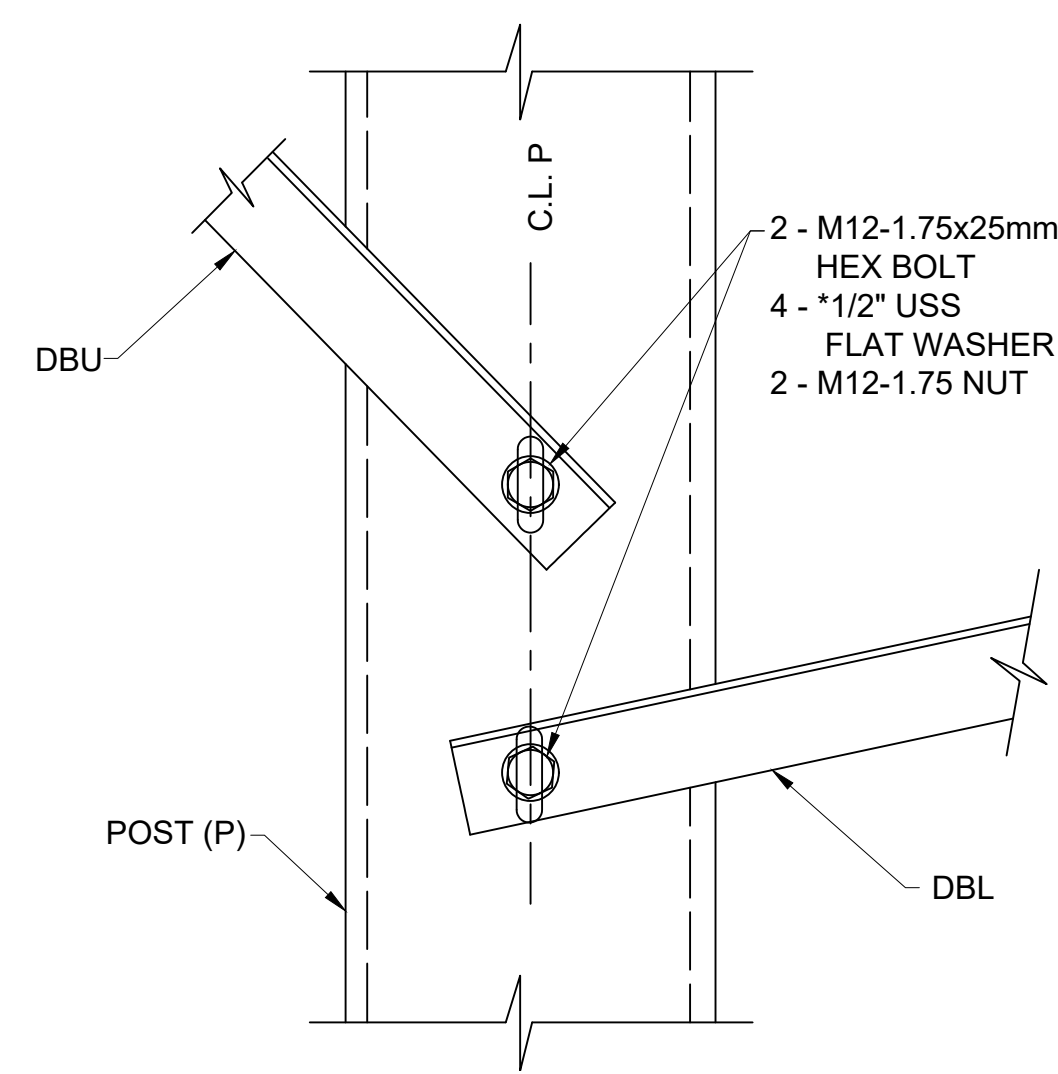
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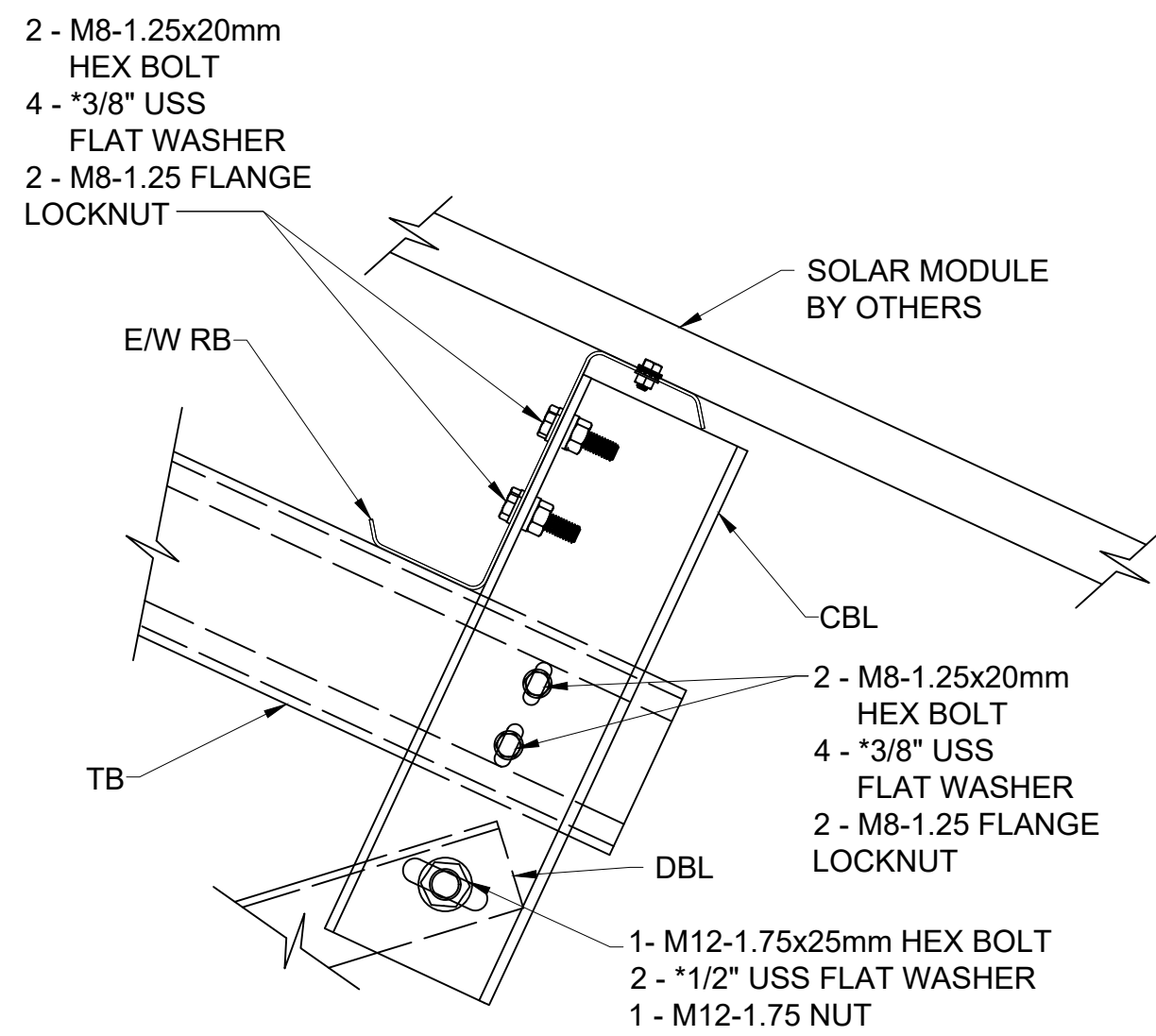


10/11/23

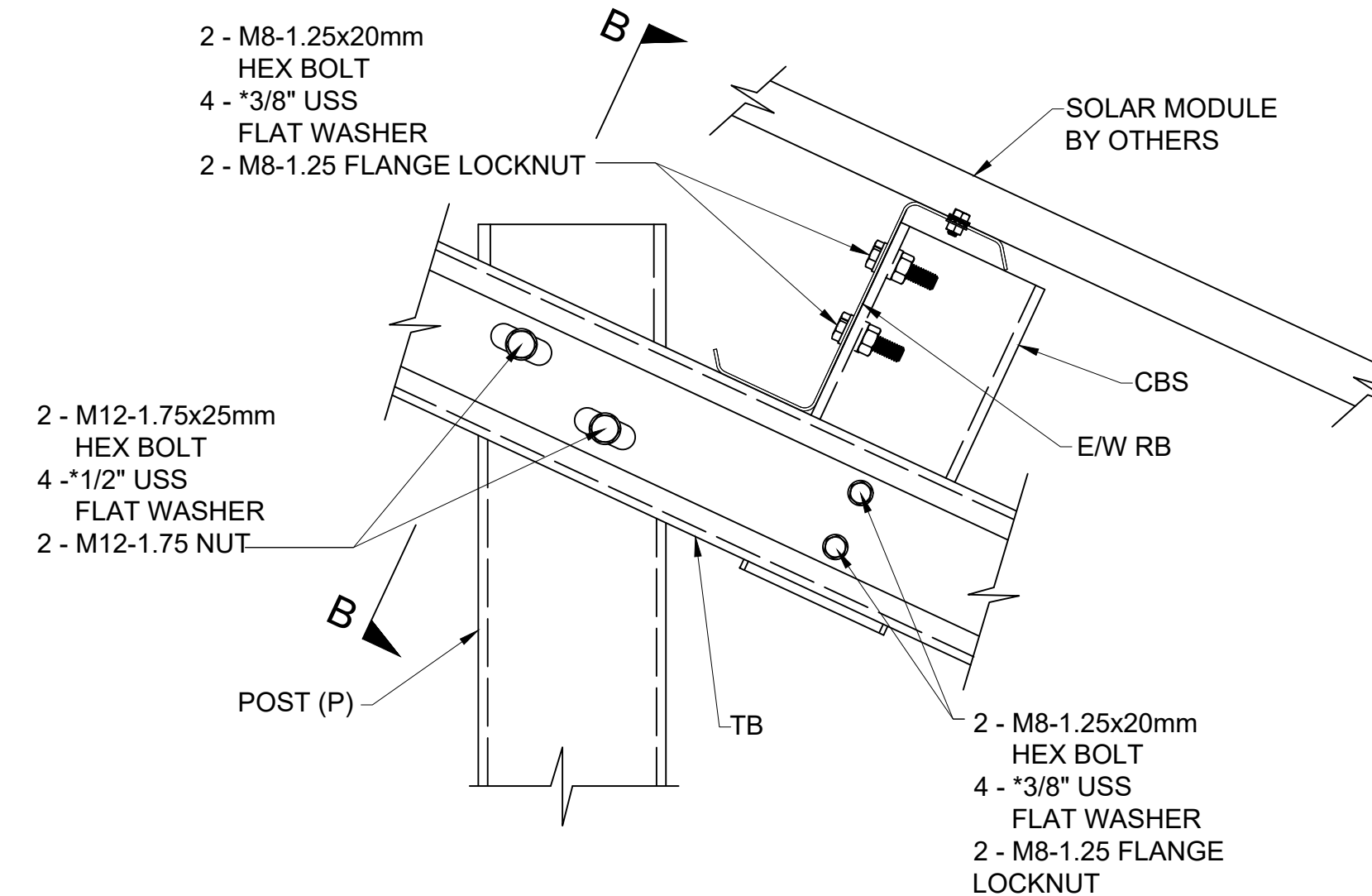
CHOICE GROUND MOUNT  
 BLOSSOM WILLOWS  
 BLOSSOM WILLOWS  
 WILLOWS, CA 95988



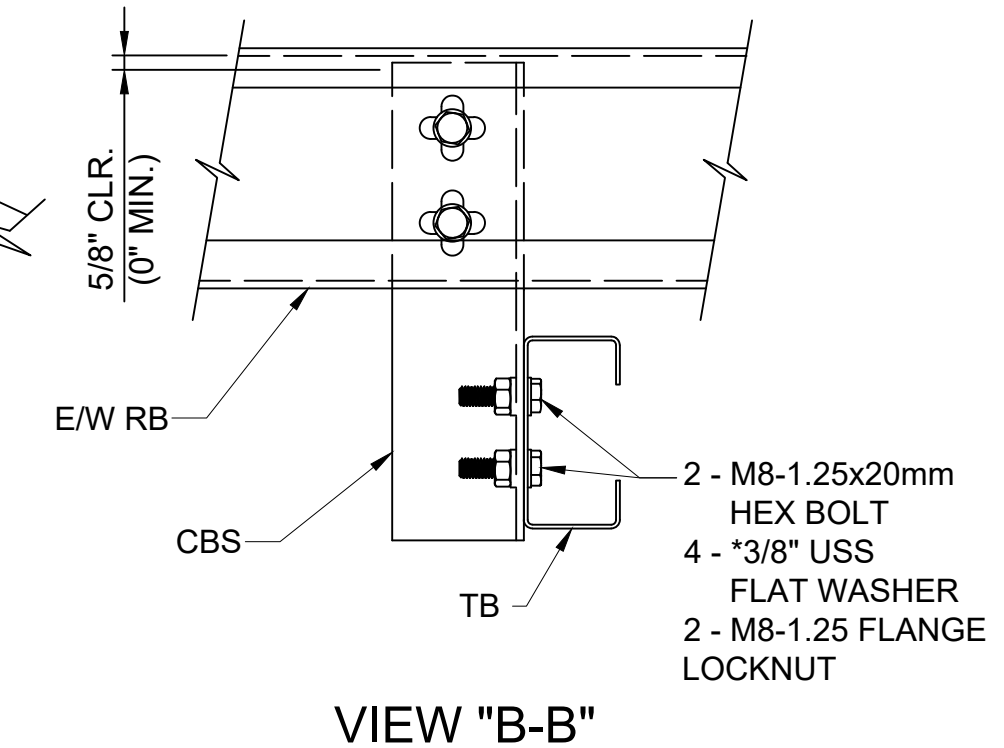
DBU & DBL TO POST 1  
 \*SEE NOTE



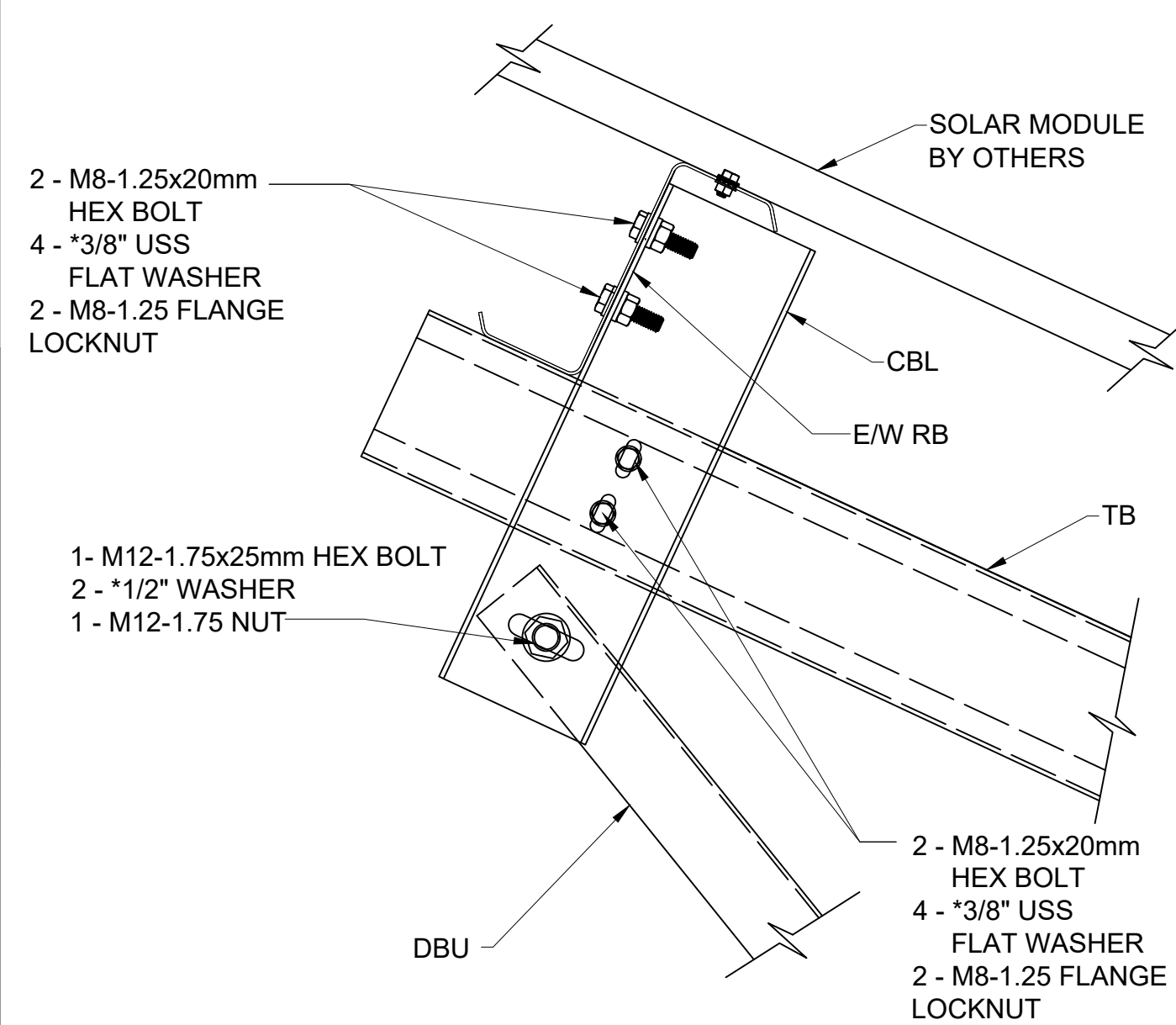
TB TO CBL E/W RB TO CBL 2  
 DBL TO CBL \*SEE NOTE



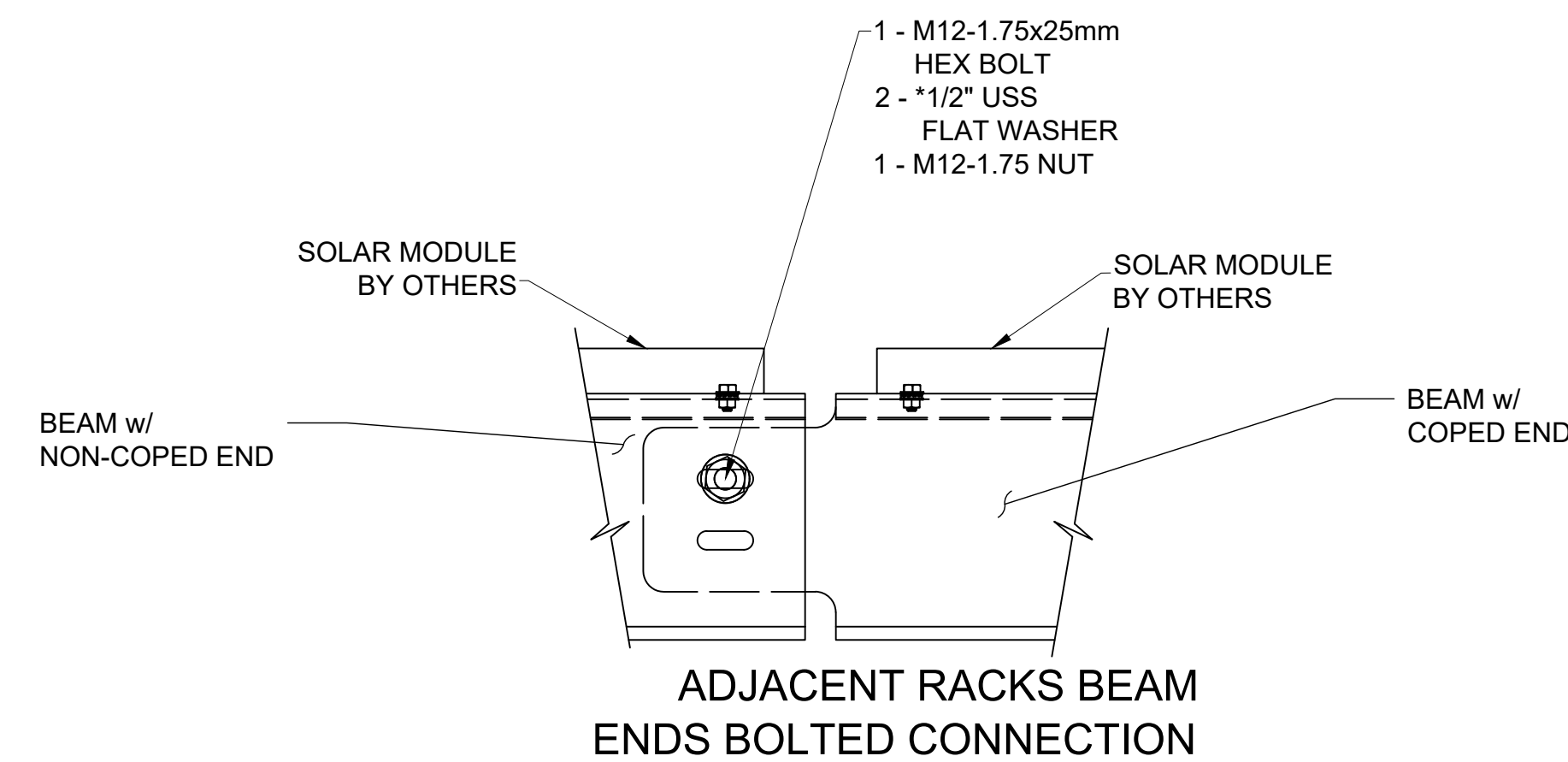
TB TO POST TB TO CBS 3  
 E/W RB TO CBS \*SEE NOTE



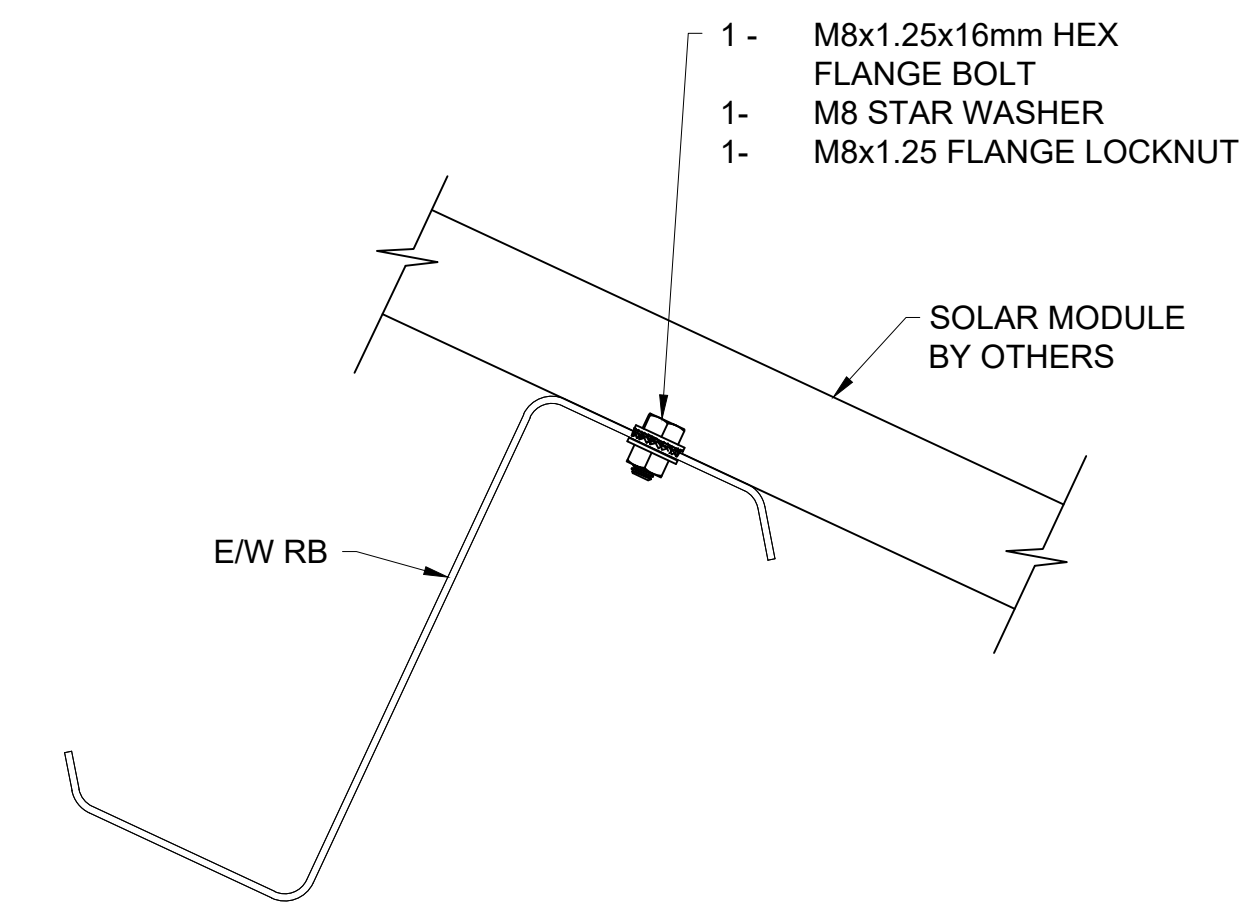
VIEW "B-B"



TB TO CBL E/W RB TO CBL 4  
 DBL TO CBL \*SEE NOTE



BEAM TO BEAM CONNECTION. 5  
 NOTE: AT NON-STRUCTURAL RACK  
 BEAM TO RACK BEAM, CONNECTIONS  
 ONLY SINGLE BOLT IS REQUIRED FOR  
 ELECTRICAL BONDING  
 \*SEE NOTE



E/W RB TO MODULE 6

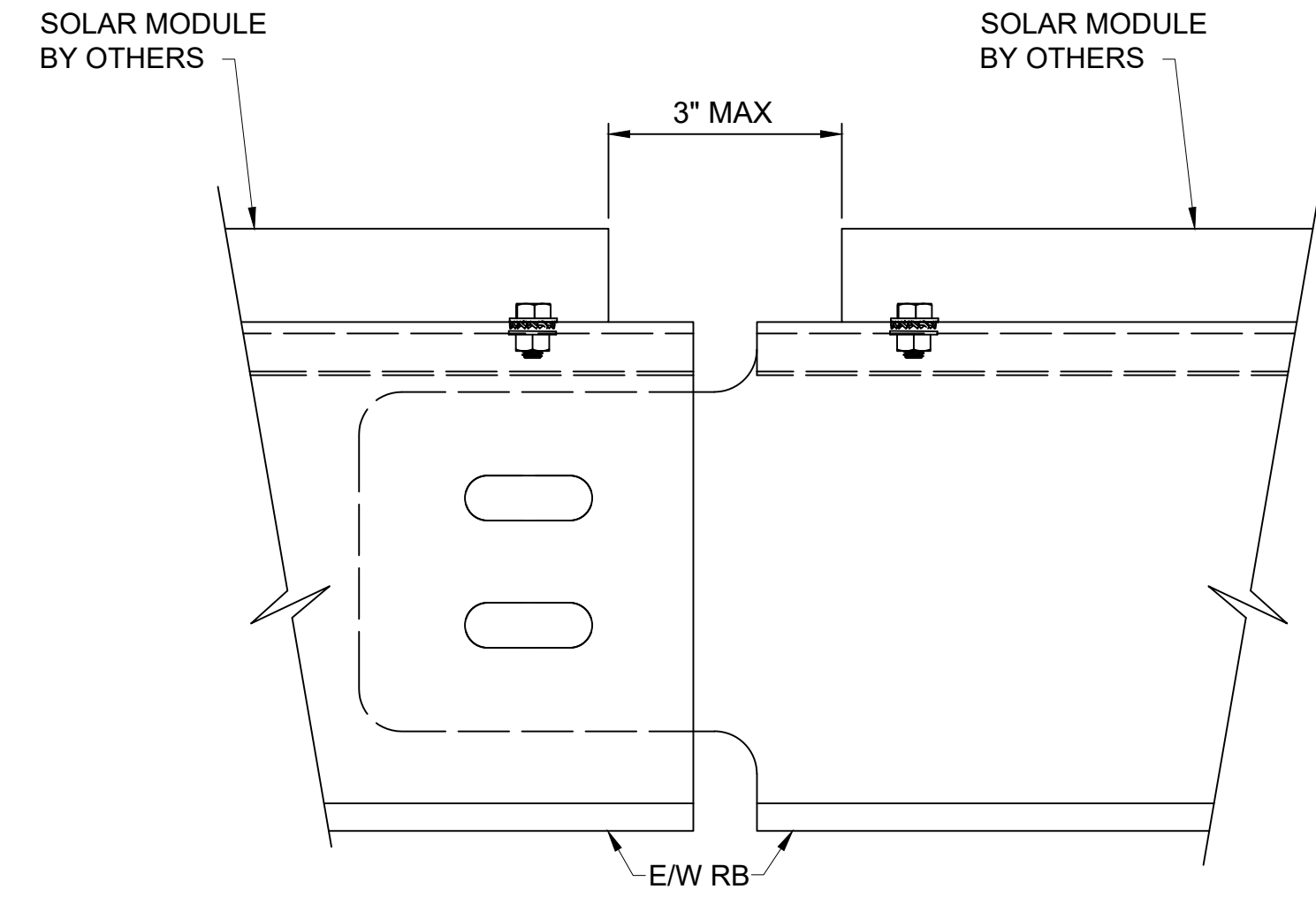
DETAIL	CONN DESC.	HOLE DIA./SLOT SPEC (in/mm)		
		BOLT SIZE	HOLE DIA. / SLOT DIA. - OVERALL LENGTH	
1	DBU & DBL TO POST	M12-1.75x25mm	DBU & DLB 0.512"-0.512"	POST 0.531"-2.00"
	TB TO CBL	M8-1.25x20mm	CBL 0.354/8.99	TB 0.354"-1.00"
2	E/W RB TO CBL	M8-1.25x20mm	CBL 0.354/8.99	E/W RB 0.354"-RADIUS SLOTS
	DBL TO CBL	M12-1.75x25mm	DBU & DLB 0.512"-0.512"	CBL 0.531"-2.00"
3	TB TO POST	M12-1.75x25mm	TB 0.531"-2.00"	POST 0.531"-2.00"
	E/W RB TO CBS	M8-1.25x20mm	CBS 0.354/8.99	E/W RB 0.354"-RADIUS SLOTS
	TB TO CBS	M8-1.25x20mm	TB 0.354"-1.00"	CBS 0.354/8.99
4	TB TO CBL	M8-1.25x20mm	CBL 0.354/8.99	TB 0.354"-1.00"
	E/W RB TO CBL	M8-1.25x20mm	CBL 0.354/8.99	E/W RB 0.354"-RADIUS SLOTS
	DBL TO CBL	M12-1.75x25mm	DBU & DLB 0.512"-0.512"	CBL 0.531"-2.00"
5	E/W RB TO E/W RB	M12-1.75x25mm	E/W RB 0.531"-1.50"	E/W RB 0.531"-1.25"
6	E/W RB TO MOD	M8-1.25x16mm	E/W RB 0.354"-1.75"	MODULE 0.354"-0.551"

TORQUE REQUIREMENTS - UNLESS OTHERWISE NOTED	
CONNECTION TYPE	TORQUE
M6 CONNECTIONS	6.6 ft-lb (9 N-m)
M8 CONNECTIONS	16 ft-lb (22 N-m)
M10 CONNECTIONS	32 ft-lb (43 N-m)
M12 CONNECTIONS	55 ft-lb (75 N-m)

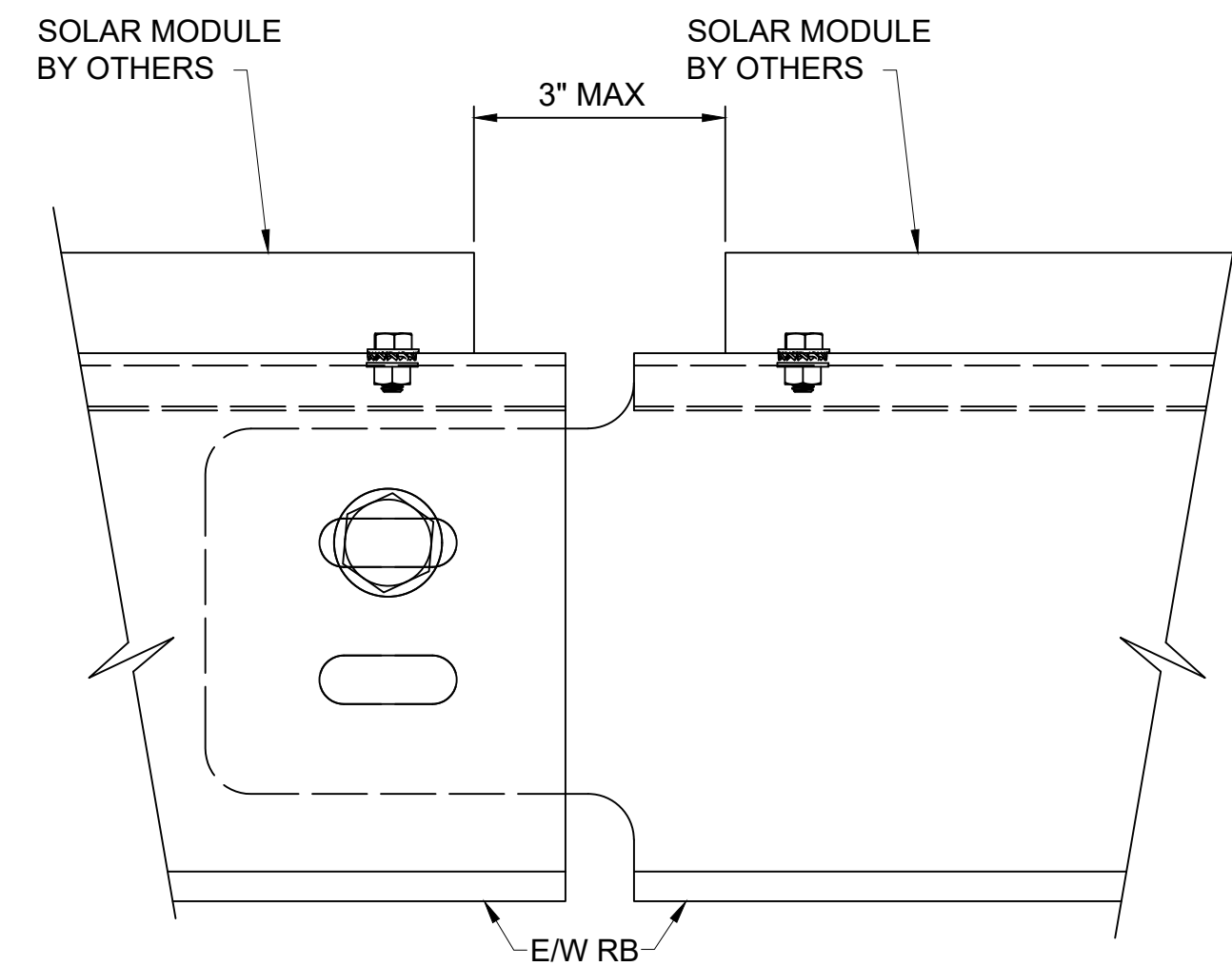
\*NOTE: AT - 3/8", 7/16" AND 1/2" USS "OVERSIZED" FLAT WASHER, USE "OVERSIZED" THRU-HARDENED HIGH STRENGTH PER ASTM F436 (HRC 38 TO 45)

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
00	07/31/23	AVG		INITIAL RELEASE

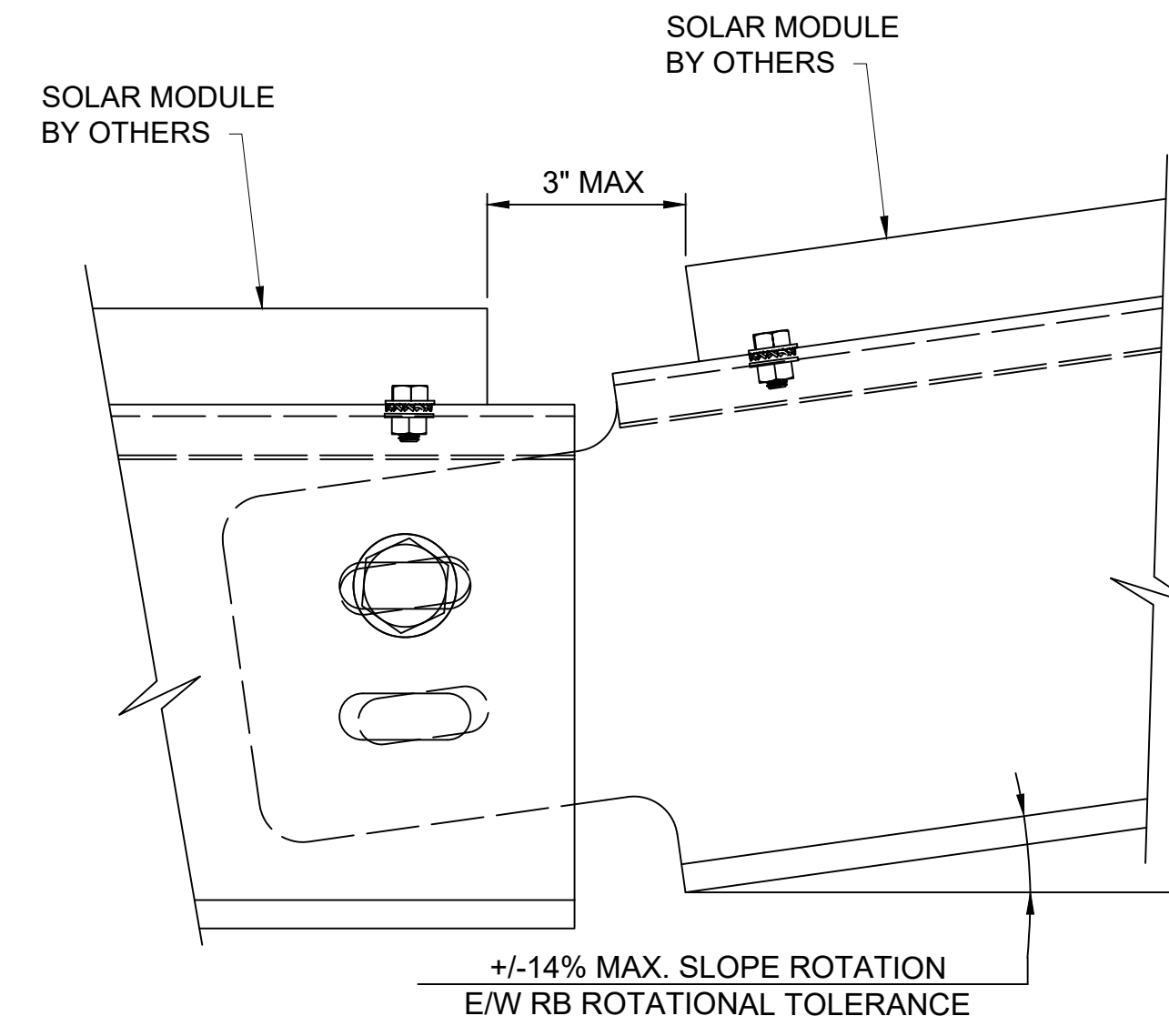
PROJECT NAME:  
 BLOSSOM WILLOWS  
 PROJECT NUMBER:  
 4812357887  
 DRAWING NAME:  
 STRUCTURAL DETAILS  
 DRAWING NUMBER:  
 OS3.0  
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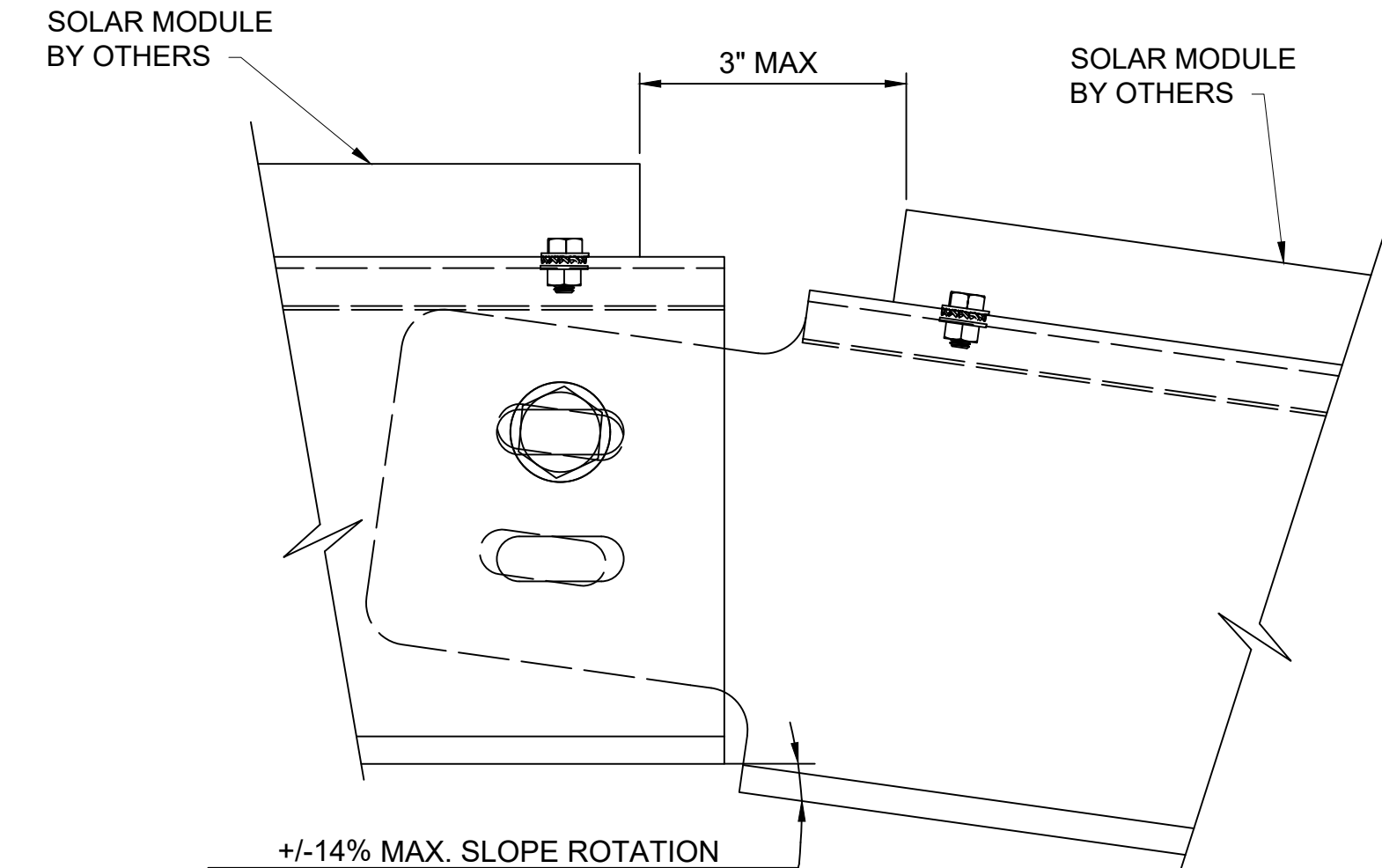
STRUCTURE SEPARATION SPACING



RACK BEAM TO RACK BEAM (CONNECTED)



RACK BEAM TO RACK BEAM (VALLEY CONNECTION)



RACK BEAM TO RACK BEAM (HILL CONNECTION)

ADJACENT E/W RACK BEAM DESIGN SPACING 7

ADJACENT E/W RACK BEAM ARTICULATION 8

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CHOICE GROUND MOUNT  
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REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
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PROJECT NAME:  
BLOSSOM WILLOWS  
PROJECT NUMBER:  
4812357887  
DRAWING NAME:  
STRUCTURAL DETAILS  
DRAWING NUMBER:  
OS3.1

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\*EXCEPTION: WHERE ALL TABLES ARE END TABLES, 3" MAX DOES NOT APPLY

Project: Blossom / Willows Solar Array  
Owner: Amande Glenn Farm LLC  
Size: 734.4 kW Photovoltaic Ground Mount Solar Array

County of Glenn – Permit #B2311-0008

Blossom:

- (1,400) 525W bi-facial solar modules from Jinko Solar, or equivalent
- (10) Chint CPS SCA 60KTL-US/DO-480 3 Phase inverters or equivalent
- (Lot); OMCO ground mount racking system
- (1) eGauge monitoring system
  - Weather Station included
- Service Panel Upgrade to 1,600 amps

This site will have an array that will be mounted on a Southern exposure of 180 degrees on a 20 degree tilt. Rows are designed with a 12 foot spacing between them. Inverters and the AC aggregation panel will be mounted at the end of the array on custom built inverter racks. The inverters will be connected to an AC panelboard that will collect the AC from each unit and deliver it underground to the point of interconnection. The customer will have a Distribution and service panel upgrade required. A pad mounted, 1,600 amp Main Service Panel will be used to interconnect the solar array and existing well pump controller at Blossom. AC disconnects will be mounted on racking attached to the concrete pad, adjacent to the switchgear. This solar array will be used to offset the electrical needs of the farming operation.

Number of Employees: No dedicated employees assigned to remain with the site. Personnel will respond for maintenance or outages as needed.

Hours of Operation: During sunlight hours.

Traffic Count: Multiple work trucks during construction, work truck(s) as required for maintenance or repair. Deliveries of materials and/or equipment throughout the construction phase.

Storage of Materials: Equipment required for the installation of the system, including the system equipment itself. Equipment to include, but not limited to; modules, inverters, racking, wire, Unistrut, AC gear, fusing, work trucks, gradall, trencher, whacker, temporary restrooms.

This project will not be openly accessible to the public and will have no detrimental affect on the health or safety of facility employees or the general public. Individuals on the property and near the array will be trespassing without permission from the property owners. In the event of an emergency, the solar array will be equipped with AC disconnects at the switchgear, and each inverter has an integrated AC and DC switch.

6. Site Plan Requirements, additional comments:

- 6)
  - a. Included
  - b. Pending

- c. Included
- d. Included
- e. Included
- f. Included
- g. There are no existing or proposed buildings. Structural dimensions of the array are included.
- h. Included on Plot Plan
- i. Included on Plot Plan
- j. No existing or proposed fences. Owner/Customer to install fence after the array.
- k. No proposed utilities = N/A. PG&E overhead drop is shown on the plans.
- l. N/A – not a permanent facility for the public for the purpose of needing or requiring restrooms.
- m. N/A – not a permanent facility for the public for the purpose of needing or requiring parking or loading areas.
- n. N/A – not a permanent facility for the public for the purpose of needing or requiring signage. Contractor will have temporary signage at entry road leading deliveries back to the array area.
- o. N/A – not a permanent facility for the public for the purpose of needing or requiring outdoor storage.
- p. N/A – no landscaping plans. Remaining orchard will stay as-is.
- q. N/A – no residential dwellings near the facility. Surrounding land is orchards.
- r. N/A – no hazardous materials or chemicals to be stored at this solar array.
- s. N/A – site was graded and disturbed for the creation of the orchard. No additional grading to be required. If the solar array is ever removed, the site will be viable for re-planting orchards.
- t. Included
- u. N/A

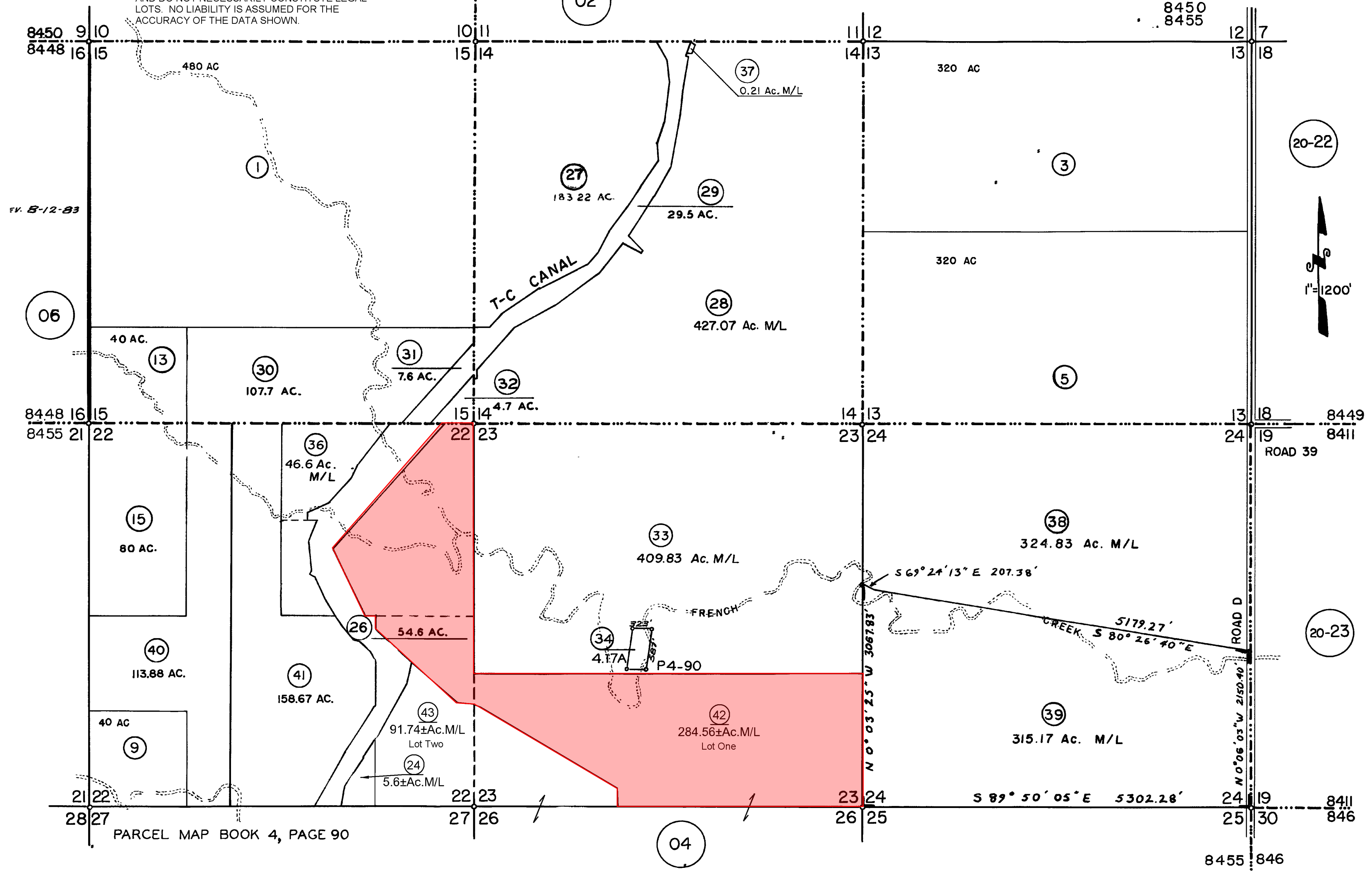
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8450 8449

T20N R4W

T.C.A.  
8448  
8449  
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8455

21-03

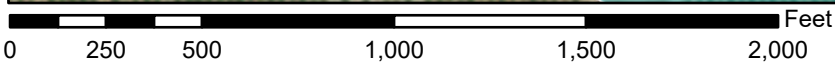




# National Flood Hazard Layer FIRMMette



122°17'6"W 39°34'36"N



1:6,000

122°16'28"W 39°34'8"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                                    |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5 Water Surface Elevation   |
|                                    |  | Coastal Transect   |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
|                                    |  | Jurisdiction Boundary  |
| <b>MAP PANELS</b>                  |  | Coastal Transect Baseline  |
|                                    |  | Profile Baseline   |
|                                    |  | Hydrographic Feature   |
|                                    |  | Digital Data Available   |
|                                    |  | No Digital Data Available  |
|                                    |  | Unmapped   |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/16/2023 at 2:27 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only inland or to U.S. North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction. The projection used in the preparation of this map was UTM Zone 10N. The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, NIMS12  
National Geodetic Survey, SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242 or visit their website at <http://www.ngs.noaa.gov/>.

Base Map Information shown on this FIRM was derived from multiple sources. This information was compiled from the U.S. Geological Survey, 1989; National Geodetic Survey, 2002; National Atlas, 2003 and 2004; U.S. Census Bureau, 2006; U.S. Army Corps of Engineers, 1997; Federal Emergency Management Agency, 1988 and 2007; California Department of Water Resources, 2006, and Rich, Anderson and Rolle, 2007. Additional information was photogrammetrically compiled at a scale of 1:12,000 from U.S. Department of Agriculture aerial photography dated 2005.

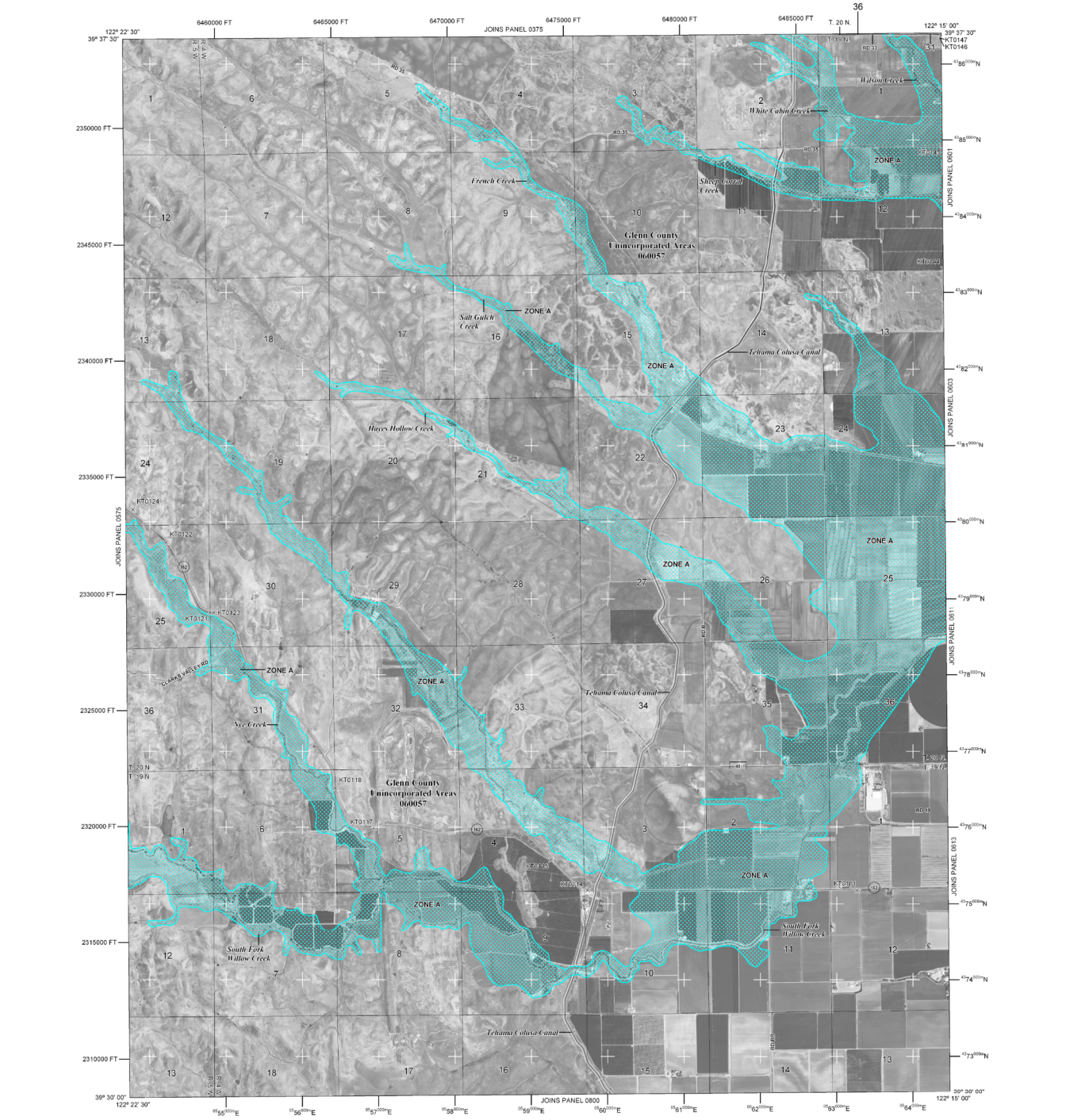
This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report which contains authoritative hydraulic data may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-400-350-9620 and their website at <http://www.fema.gov>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, Zone AE, Zone AH, Zone AO, Zone AR, Zone AS9, Zone V, and Zone VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

**ZONE A:** No Base Flood Elevations determined.

**ZONE AE:** Base Flood Elevations determined.

**ZONE AH:** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO:** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AR:** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently identified. Some structures that the former flood control system is being removed to provide protection from the 1% annual chance or greater flood.

**ZONE AS9:** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V:** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE:** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE A:** The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X:** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than three square miles; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE D:** Areas determined to be outside the 0.2% annual chance floodplain.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

**BOUNDARIES**

1% annual chance floodplain boundary  
0.2% annual chance floodplain boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary  
Boundary enclosing Special Flood Hazard Areas of different Base Flood Elevations, Flood depths or flood velocities.  
Base Flood Elevation line and value; elevation in feet  
Base Flood Elevation area where uniform within zone.

**TRANSVERSE LINES**

Cross section line  
Traverse line  
Culvert, Flume, Penstock or Aqueduct  
Road or Railroad bridge  
Floodridge

**COORDINATE SYSTEMS**

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere  
1000-meter Universal Transverse Mercator grid values, Zone 10  
5000-foot grid lines; California State Plane coordinate system, Zone II (SPZONE 0402), Lambert Conformal Conic Projection  
Bench marks (see explanation in notes to users section of this FIRM panel)

**SYMBOLS**

● BLS  
River Mile

**MAP REPOSITORIES**

Refer to Map Repository List on Map Index.

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP PANEL:**  
REVISÉ 5, 2010

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:**

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the national flood insurance program at 1-800-638-6629.

MAP SCALE 1" = 2000'



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0600D**

**FIRM**

**FLOOD INSURANCE RATE MAP**

**GLENN COUNTY, CALIFORNIA**

**AND INCORPORATED AREAS**

**PANEL 600 OF 900**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY:	NUMBER:	PANEL:	SUFFIX:
	GLENN COUNTY	0600D	0600	D

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used for insurance requirements for the subject community.

**MAP NUMBER 06021C0600D**

**EFFECTIVE DATE AUGUST 5, 2010**

**Federal Emergency Management Agency**