

**Public Hearing Notice  
Caribou Planning Board**

The Caribou Planning Board will hold a Public Hearing on Thursday September 11, 2025, at 6:00 pm at the Caribou Municipal Building, 25 High Street Caribou in the Caribou City Council Chambers.

The public hearing is for a Site Design Review Application for:

A renewable energy solar farm, 17 Buck Road, Map 5 Lot 10-D, in the RC-2 zone

Information will be posted on the City of Caribou website at:  
[www.cariboumaine.org/government/planning-board/](http://www.cariboumaine.org/government/planning-board/)

All persons wishing to make comments or ask questions about the proposal are invited to attend this Public Hearing. Comments may be submitted in writing to: Penny Thompson, Caribou City Manager at 25 High Street Caribou Maine 04736 or by email to [pthompson@cariboumaine.org](mailto:pthompson@cariboumaine.org) at any time prior to the Public Hearing. TDD/TTY users may call 711. If you are physically unable to access any of the City's programs or services, please call City Clerk Danielle Brissette at (207) 493-5976 so that accommodations can be made.

Interested individuals are encouraged to attend.



**EQUAL HOUSING  
OPPORTUNITY**

City of Caribou Maine

September 3, 10, 2025



## Site Design Application

Planning & Code Enforcement  
City of Caribou  
25 High St.  
Caribou, Maine 04736

(207) 493 – 3324 option 3  
[pthompson@cariboumaine.org](mailto:pthompson@cariboumaine.org)

**Note to Applicant:** Complete this application and return it with the required documents. In addition, the required fee must be returned along with this completed application. Make checks payable to: "City of Caribou", in the amount of \$90.00 plus \$10.00 per 2000 square feet of total gross floor area for commercial, industrial or other non residential applications.

### Please print or type all information

Name of Property Owner / Developer: Irving Farms Inc.  
Development Name: Irving Farms  
Location of Property (Street Locations): 17 Buck Road, Caribou, ME 04736  
City of Caribou Tax Map: 5 Lot: 10-D Zone: RC-2

### Site Design Review Application – City of Caribou, Maine

Site Design approval will not be considered complete until the Planning Board has determined it has all of the necessary information to review the proposal and render a decision. You are advised to meet with the Code Enforcement Officer prior to completing the application as it may not be necessary to comply with all of the items shown on the form. The review of your application shall consist of at least (2) two presentations to the Planning Board and possibly additional presentations until all required information has been provided. A "Performance Bond" may be required prior to approval of this project.

## Applicant Information

Please provide a brief description of this project.

Renewable energy solar farm

Person and address to which all correspondence regarding this application should be sent to:

Jeff Irving

Phone: 207-492-0600

PO Box 667

Caribou, ME 04736

E-mail: jeff@irvingspuds.com

If applicant is a corporation, check if licensed in Maine ( ☒ ) Yes ( ☐ ) No  
(Attach copy of Secretary of State Registration)

Name of Land Surveyor, Engineer, Architect or other Design Professionals. (attach list if needed)

RLC Engineering

Phone: 207-621-1077

Blackstone Land Surveying

Phone: 498-3321

What legal interest does the applicant have in property to be developed (ownership, owners representative, option, purchase & sales contract, etc?)

Ownership

(Attach supportive legal documentation)

## General Information

Aroostook County Registry Deeds: Book # 4612 Page # 143 (attach copy of deed)

What interest does the applicant have in any abutting property? Ownership

Is any portion of the property within 250 feet of the normal high water line of a lake, pond, river, or wetland or within 75 feet of any stream? ( ☐ ) Yes ( ☒ ) No

Is any portion of the property within a Flood Hazard Zone? ( ☐ ) Yes ( ☒ ) No

Total area or acreage of parcel: 29 Total area or acreage to be developed: 1.8

Has this land been part of subdivision in the past five years? ( ☐ ) Yes ( ☒ ) No

Identify existing use(s) of land (farmland, woodlot, residential, etc.) farm land

Indicate any restrictive covenants to be placed in the deed -- (Please attach list)

Does the applicant propose to dedicate any recreation area, or common lands? ☐ Yes ☒ No

Recreation area(s) Estimated Area & Description: n/a

Common land(s) Estimated Area & Description: n/a

Anticipated start date for construction: month / year \_\_\_\_/\_\_\_\_ Completion: \_\_\_\_/\_\_\_\_

Does any portion of the proposal cross or abut an adjoining municipal line? ☐ Yes ☒ No

Does this development require extension of public services? ☐ Yes ☒ No

Roads: \_\_\_\_\_ Storm Drainage: \_\_\_\_\_ Sidewalks: \_\_\_\_\_ Sewer Lines: \_\_\_\_\_ Other: \_\_\_\_\_

Estimated cost for infrastructure improvements: \$ \_\_\_\_\_

Water Supply: Private Well: ☐ Public Water Supply: ☐ n/a

Sewerage Disposal: Private SSWD: ☐ Public Sewer: ☐ n/a

Estimated sewerage disposal gallons per day: (\_\_\_\_\_/day) n/a

**Does the building require plan review by the State Fire Marshal Office?** ☐ Yes ☒ No  
(Attach Barrier free and Construction Permits from SFMO)

**Have the plans been reviewed & approved by the Caribou Fire Chief?** n/a ☐ Yes ☐ No

Does the building have an automatic sprinkler system? n/a ☐ Yes ☐ No

Does the building have an automatic fire detection system? n/a ☐ Yes ☐ No

Will the development require a hydrant or dry hydrant fire pond? ☐ Yes ☒ No

### Concept Plan Review Criterion

The Planning Board shall review applications first as a Concept Plan. Concept Plan Review is intended to insure the proposed plan is in conformance with the Caribou Comprehensive Plan and all City Ordinances. The completed application and concept plans shall be delivered to the Code Enforcement Office no less than 21 days prior to the first day of the next month. The

Chairman of the Planning Board shall determine the schedule and agenda of the next meeting when the application and plans will receive Concept Plan Review. At a minimum, Concept Plan applications shall include the following:

1. \_\_\_\_\_ Name and address of the owner of record and applicant (if different).
2. \_\_\_\_\_ Name of the proposed development and location.
3. \_\_\_\_\_ Names and addresses of all property owners within 500 feet of the property.
4. \_\_\_\_\_ A copy of the deed to the property, option to purchase the property, or other documentation to demonstrate right, title, or interest in the property on the part of the applicant.
5. \_\_\_\_\_ Names and addresses of all consultants working on the project.
6. \_\_\_\_\_ 1 complete set of plans, 24" X 36" & 10 complete sets of plans, 11" X 17"  
Plans to be included:
  - Boundary Survey
  - Storm Water Management
  - Erosion and Sediment Control
  - Finish Grading Plan
  - Site Improvement Detail
  - Building Elevations and Structural Plans
7. **Plans to show the following elements for review:**
  - \_\_\_\_\_ a. Graphic scale and north arrow.
  - \_\_\_\_\_ b. Location and dimensions of any existing or proposed easements and copies of existing covenants or deed restrictions.
  - \_\_\_\_\_ c. Name, registration number, and seal of the land surveyor, architect, engineer, and/or similar professional who prepared the Plan.
  - \_\_\_\_\_ d. All property boundaries, land area, and zoning designations of the site, regardless of whether all or part is being developed at this time.
  - \_\_\_\_\_ e. Size, shape, and location of existing and proposed buildings on the site including dimensions of the buildings and setbacks from property lines.
  - \_\_\_\_\_ f. Access for Emergency Vehicles, location and layout design of vehicular parking, circulation areas, loading areas, and walkways including curb cuts, driveways, parking space and vehicle turn around areas.
  - \_\_\_\_\_ g. Location and names of streets and rights-of-way within 200' and adjacent to the proposed development.
  - \_\_\_\_\_ h. Proposed finish grades and graphic arrows indicating the direction of storm water runoff.
  - \_\_\_\_\_ i. Conceptual treatment of on and off site storm water management facilities.
  - \_\_\_\_\_ j. Location and sizes of existing and proposed sewer and water services including connections.
  - \_\_\_\_\_ k. Conceptual treatment of landscaping buffers, screens, and plantings.

- \_\_\_\_\_ l. Location of outdoor storage areas, fences, signage and accessory structures.
- \_\_\_\_\_ m. Context map illustrating the area surrounding the site which will be affected by the proposal including all streets, sidewalks, intersections, storm water drainage ways, sanitary sewer lines and pump stations, nearby properties and buildings, zoning Districts, and geographic features such as, but not limited to, wetlands, natural features, historic sites, flood plains, significant scenic areas, and significant wildlife habitats as provided in the Comprehensive Plan.
- \_\_\_\_\_ n. All proposed signage and exterior lighting including the location, size and wording of all signs, type of exterior lights, radius of light, manufacturer's specifications sheet, and the ground level intensity in foot- candles of all exterior lights.

### **Final Site Design Plan Requirements**

Following approval of the Concept Plan Review, the Planning Board may by majority vote schedule the Site Design Application for Final Plan Review. Final Plan Review must be at least 30 days following Concept Plan Approval. If additional information is required by the Planning Board following the Concept Plan Review, a complete set of revised plans shall be provided for final review and approval. If additional information or a change of information is required, the revised plans shall be delivered to the Code Enforcement Office at least 21 days prior to the next scheduled meeting.

Final Site Design Plan Review shall require three (3) 24" X 36" sets of plans for Board Signatures.

If the Planning Board determines that third party review will be necessary to make a sound decision, the applicant will be responsible for any fees incurred for the third party review.

During the Final Site Design Review the Chairman or designee shall determine that all of the elements of review 7-a., through 7-n. above have been addressed. The chair may then call for a motion.

If the Final Plan is approved by the Planning Board, no work may commence for a period of 30 days following the date of approval.

Final Site Design Plans shall provide an area designated for all seven Planning Board members signatures.

**Applicant Signature:**

**To the best of my knowledge, all of the information submitted in this application is true and correct.**

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

## Final Site Design Review Criteria by Planning Board

Date: _____	<u>Yes</u>	<u>No</u>	<u>N/A</u>
A. Conformance with Comprehensive Plan	_____	_____	_____
B. Traffic	_____	_____	_____
C. Site Access	_____	_____	_____
D. Parking & Vehicle Circulation	_____	_____	_____
	<u>Yes</u>	<u>No</u>	<u>N/A</u>
E. Pedestrian Circulation	_____	_____	_____
F. Site Conditions	_____	_____	_____
G. Open Space	_____	_____	_____
H. Sanitary Sewage	_____	_____	_____
I. Water	_____	_____	_____
J. Emergency Vehicle Access	_____	_____	_____
K. Waste Disposal	_____	_____	_____
L. Buffering	_____	_____	_____
M. Natural Areas	_____	_____	_____
N. Exterior Lighting	_____	_____	_____
O. Stormwater Management	_____	_____	_____
P. Erosion & Sediment Control	_____	_____	_____
Q. Buildings	_____	_____	_____
R. Existing Landscaping	_____	_____	_____
S. Infrastructure	_____	_____	_____
T. Advertising Features	_____	_____	_____
U. Design Relationship to Site	_____	_____	_____
& Surrounding Properties	_____	_____	_____

V.	Scenic Vistas & Areas	_____	_____	_____
W.	Utilities	_____	_____	_____
X.	Mineral Exploration	_____	_____	_____
Y.	General Requirements	(Pg. 859)	_____	_____
Z.	Phosphorus Export	_____	_____	_____

**City of Caribou, Maine  
Planning Board**

Site Design Review for: \_\_\_\_\_

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

On \_\_\_\_\_ (date) the members of the Caribou Planning Board met to consider the application for Site Design Review on the property referenced above.

The application was: **Denied** / **Approved** / **Approved with conditions**

**Approved by the Caribou Planning Board**

Signed: \_\_\_\_\_ Chairman of the Planning Board

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**Conditions of Approval:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

IRVING FARMS SOLAR, LLC  
304.2 KW DC / 200 KW AC

IFC - ISSUED FOR CONSTRUCTION

BUCK ROAD  
CARIBOU, ME 04736

APRIL 01, 2025  
RLC PROJECT NUMBER: 22765-05



STATE OF MAINE  
NTS



VICINITY MAP  
NTS



DRAWING INDEX

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0285	0285	1	04/01/25
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4. APPROXIMATE CONSTRUCTION OF THE MODEL: THE ELECTRICAL STRUCTURE OF THE MODEL REPRESENTS THE APPROXIMATE REPRESENTATION OF THE ELECTRICAL STRUCTURE OF THE ACTIVITY-MANUAL OPERATION.
5. ALL COMPONENTS OF THE ELECTRICAL STRUCTURE OF THE MODEL MUST BE IDENTIFIED AND THE CONSTRUCTION OF THE MODEL MUST BE COMPLETED BY THE MODEL.
6. THE ELECTRICAL STRUCTURE OF THE MODEL MUST BE IDENTIFIED AND THE CONSTRUCTION OF THE MODEL MUST BE COMPLETED BY THE MODEL.
7. ELECTRICAL STRUCTURE OF THE MODEL MUST BE IDENTIFIED AND THE CONSTRUCTION OF THE MODEL MUST BE COMPLETED BY THE MODEL.

THE ELECTRICAL CONTRACTOR IN RESPONSIBILITY FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS DESCRIBED IN THE DRAWINGS SHALL:

1. BE A QUALIFIED ELECTRICIAN OR MECHANIC, LICENSED BY THE STATE OF CALIFORNIA.
2. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
3. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
4. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
5. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
6. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
7. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
8. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
9. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.
10. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT ALL COMPONENTS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CITY, STATE AND FEDERAL LAWS AND ORDINANCES.

- [illegible]

5. THE DEVELOPER OR A DESIGNER REPRESENTS THAT SHE/HE SUBMITTAL FOR ALL ELECTRONIC SUBMISSIONS SUPPORTED THROUGH PAPER TO PAPER/ALL-ROUNDS.

- [illegible]

- 
- A horizontal number line with 26 tick marks labeled with lowercase letters from a to z. The labels are evenly spaced along the line.

[illegible]

1. MONITOR THE WIRELESS INSTALLATION WORKING FOR PERFORMANCE (SPEED, JITTER, THROUGH AND INSTALLATION TIME)
2. THE WIRELESS MAY BE SHIPPED WITH SOME PRE-INSTALLED SOFTWARE FOR EASY, QUICK, AND EASY INSTALLATION.
3. MONITOR THE WIRELESS INSTALLATION.
4. IT IS THE BEST, A PARTIAL INSTALLATION OF THE WIRELESS WITH A FULL INSTALLATION (SPEED).

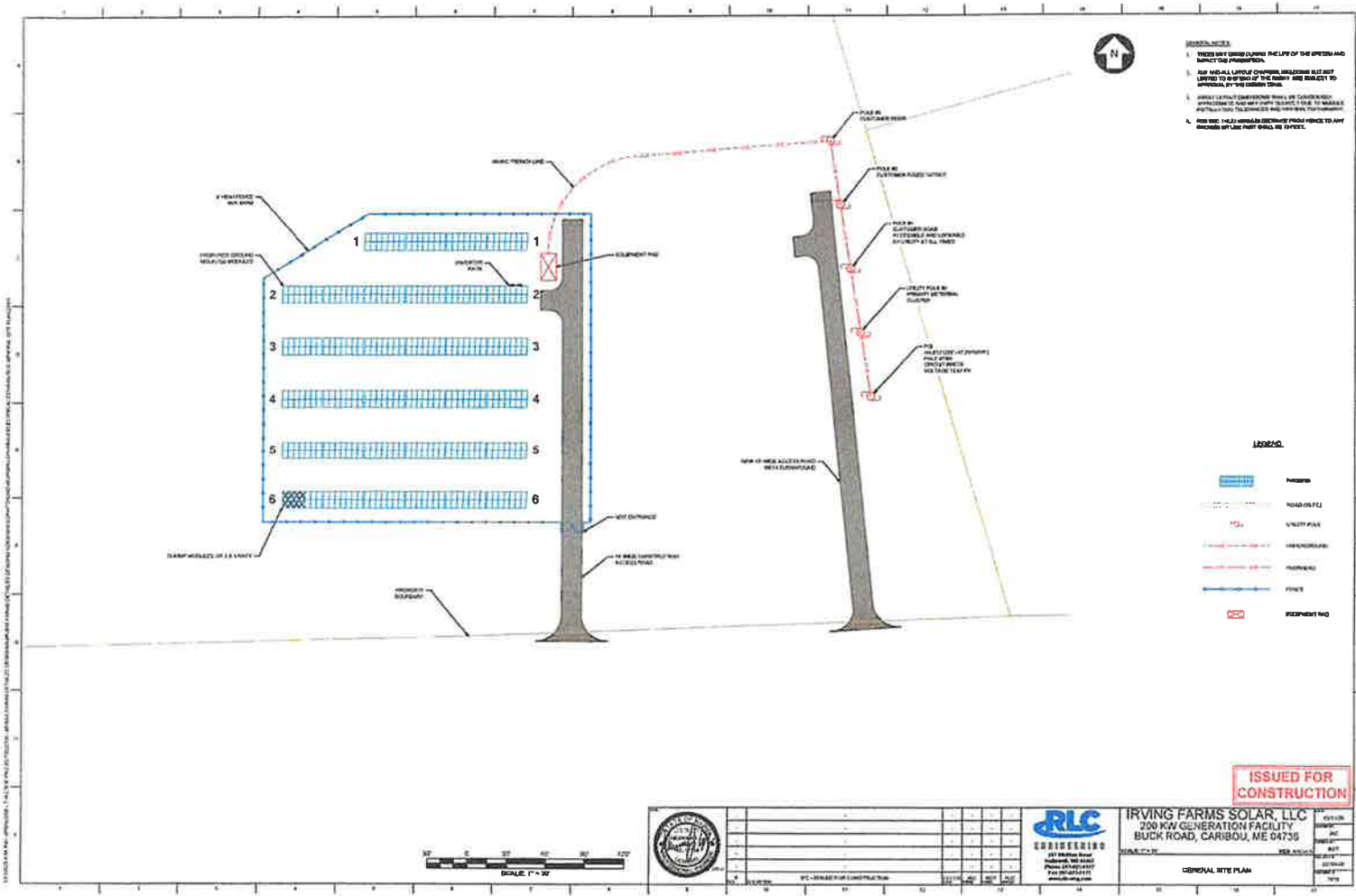
[illegible]

6. The following information was obtained from the records of the company for the electrical equipment:

- [illegible]



<b>IRVING FARMS SOLAR, LLC</b>		<b>DATE:</b>
<b>200 KW GENERATION FACILITY</b>		<b>SHEET NO.:</b>
<b>BUCK ROAD, CARIBOU, ME 04736</b>		<b>DWG. NO.:</b>
<b>REVISIONS:</b>	<b>REV. DATE:</b>	<b>NOTES:</b>
		<b>NO. OF SHEETS:</b>
<b>GENERAL NOTES</b>		<b>NO.</b>

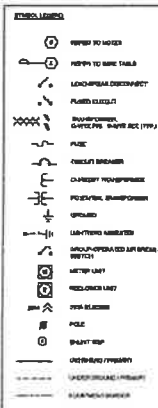


PROJECT NO.	IRVING FARMS SOLAR, LLC
DATE	01/15/2015
SCALE	1" = 20'
DESIGNED BY	RLC
CHECKED BY	RLC
APPROVED BY	RLC
PROJECT LOCATION	IRVING FARMS SOLAR, LLC
PROJECT DESCRIPTION	200 KW GENERATION FACILITY
PROJECT ADDRESS	BUCK ROAD, CARIBOU, ME 04735
PROJECT OWNER	IRVING FARMS SOLAR, LLC
PROJECT CONTACT	IRVING FARMS SOLAR, LLC
PROJECT PHONE	IRVING FARMS SOLAR, LLC
PROJECT FAX	IRVING FARMS SOLAR, LLC
PROJECT EMAIL	IRVING FARMS SOLAR, LLC
PROJECT WEBSITE	IRVING FARMS SOLAR, LLC
PROJECT SOCIAL MEDIA	IRVING FARMS SOLAR, LLC
PROJECT OTHER	IRVING FARMS SOLAR, LLC



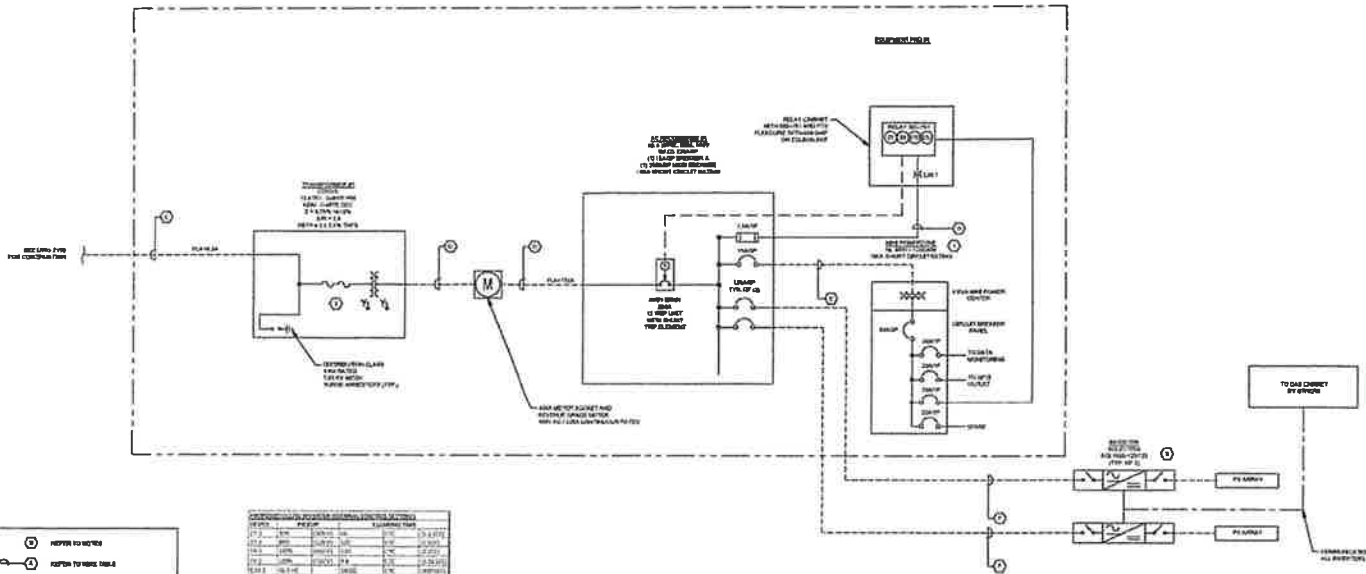
**IRVING FARMS SOLAR, LLC**  
 200 KW GENERATION FACILITY  
 BUCK ROAD, CARIBOU, ME 04735  
 SCALE: 1" = 20'  
 SHEET NO. 1 OF 1  
 DATE: 01/15/2015  
 DESIGNED BY: RLC  
 CHECKED BY: RLC  
 APPROVED BY: RLC  
 PROJECT LOCATION: IRVING FARMS SOLAR, LLC  
 PROJECT DESCRIPTION: 200 KW GENERATION FACILITY  
 PROJECT ADDRESS: BUCK ROAD, CARIBOU, ME 04735  
 PROJECT OWNER: IRVING FARMS SOLAR, LLC  
 PROJECT CONTACT: IRVING FARMS SOLAR, LLC  
 PROJECT PHONE: IRVING FARMS SOLAR, LLC  
 PROJECT FAX: IRVING FARMS SOLAR, LLC  
 PROJECT EMAIL: IRVING FARMS SOLAR, LLC  
 PROJECT WEBSITE: IRVING FARMS SOLAR, LLC  
 PROJECT SOCIAL MEDIA: IRVING FARMS SOLAR, LLC  
 PROJECT OTHER: IRVING FARMS SOLAR, LLC



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**IRVING FARMS SOLAR, LLC**  
200 KW GENERATION FACILITY  
BUCK ROAD, CARIBOU, ME 04730

ISSUED FOR  
CONSTRUCTION



REFER TO SHEET 1  
REFER TO SHEET 2

ITEM	DESCRIPTION	QUANTITY
1	480V Utility Source	1
2	Transformer (200V/480V)	1
3	Switchgear (200V)	1
4	200V Distribution Panel	1
5	480V Busbar	1
6	Protective Devices (Circuit Breakers, Fuses)	1
7	Wiring (Cables, Conduits)	1

ITEM	DESCRIPTION	QUANTITY
1	480V Utility Source	1
2	Transformer (200V/480V)	1
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4	200V Distribution Panel	1
5	480V Busbar	1
6	Protective Devices (Circuit Breakers, Fuses)	1
7	Wiring (Cables, Conduits)	1

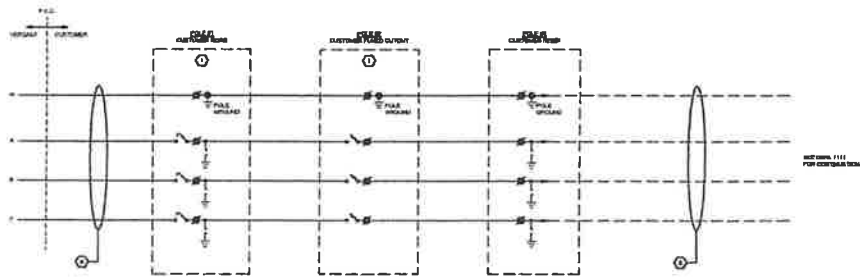
ITEM	DESCRIPTION	QUANTITY
1	480V Utility Source	1
2	Transformer (200V/480V)	1
3	Switchgear (200V)	1
4	200V Distribution Panel	1
5	480V Busbar	1
6	Protective Devices (Circuit Breakers, Fuses)	1
7	Wiring (Cables, Conduits)	1

ISSUED FOR CONSTRUCTION



ITEM	DESCRIPTION	QUANTITY
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2	Transformer (200V/480V)	1
3	Switchgear (200V)	1
4	200V Distribution Panel	1
5	480V Busbar	1
6	Protective Devices (Circuit Breakers, Fuses)	1
7	Wiring (Cables, Conduits)	1

IRVING FARMS SOLAR, LLC  
200 MW GENERATION FACILITY  
BUCK ROAD, GARIBOU, ME 04736  
AC ONE LINE DIAGRAM  
SHEET 2 OF 2



#	DESCRIPTION
1	SEE SHEET 1111 FOR CONNECTIONS

#	REMARKS
1	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.
2	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES.



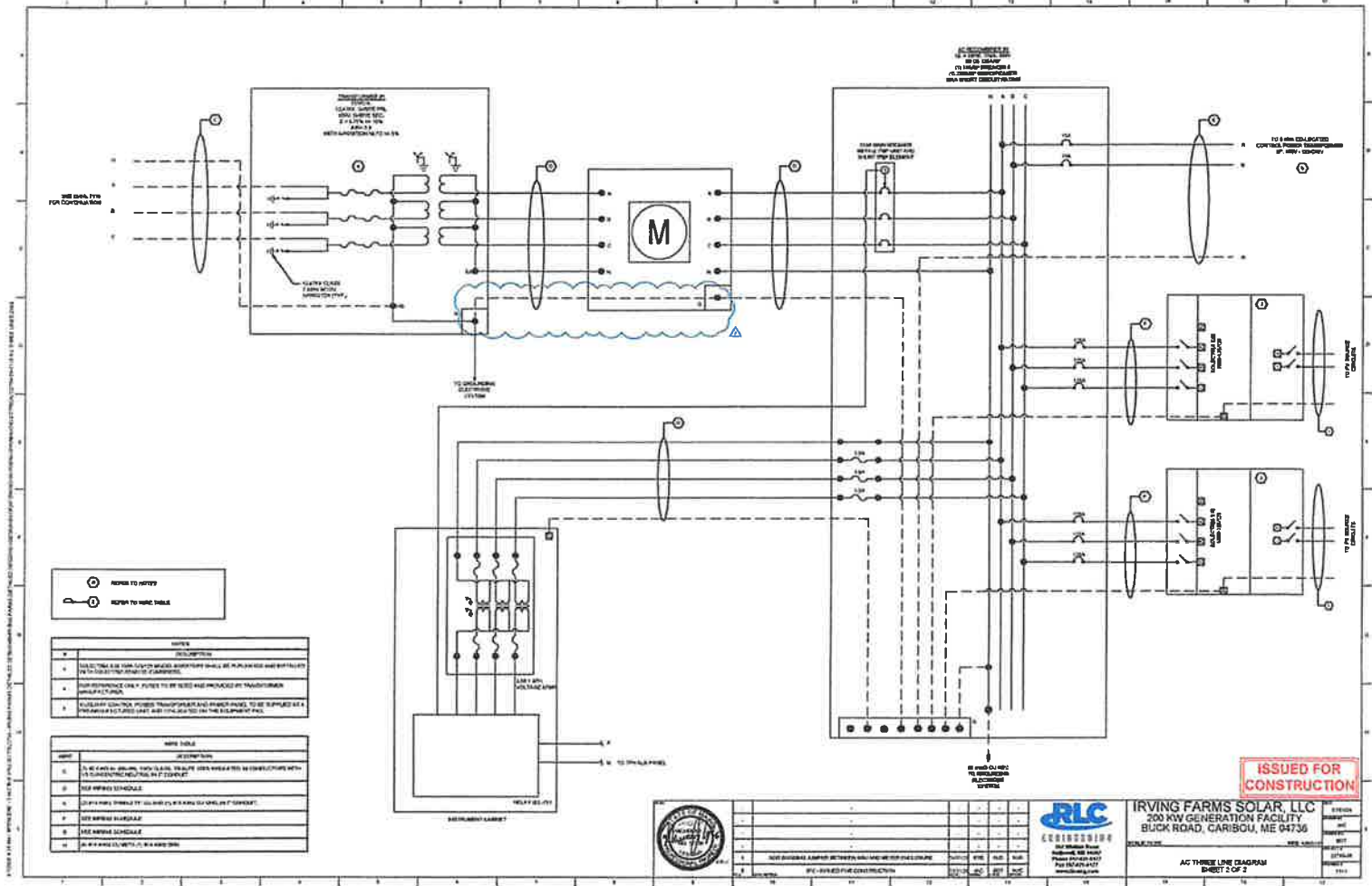
DATE	12/1/2011
BY	RLC
CHECKED	RLC
APPROVED	RLC
DATE	12/1/2011
BY	RLC
CHECKED	RLC
APPROVED	RLC



**IRVING FARMS SOLAR, LLC**  
200 KW GENERATION FACILITY  
BUCK ROAD, CARIBOU, ME 04736

AS THREE LINE DIAGRAM  
SHEET 1 OF 2

**ISSUED FOR CONSTRUCTION**



ISSUED FOR CONSTRUCTION



PROJECT NO.	200 kW GENERATION FACILITY
CLIENT	IRVING FARMS SOLAR, LLC
LOCATION	BUCK ROAD, CARIBOU, ME 04736
DATE	10/1/2023
BY	J. J. JONES
CHECKED BY	J. J. JONES
APPROVED BY	J. J. JONES
SCALE	AS SHOWN
REVISIONS	



**IRVING FARMS SOLAR, LLC**  
 200 kW GENERATION FACILITY  
 BUCK ROAD, CARIBOU, ME 04736  
 SCALE: AS SHOWN  
 DATE: 10/1/2023  
 BY: J. J. JONES  
 CHECKED BY: J. J. JONES  
 APPROVED BY: J. J. JONES  
 AC THREE LINE DIAGRAM  
 SHEET 2 OF 2



1. **NAME**  
 2. **DATE**  
 3. **TIME**  
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 5. **REMARKS**  
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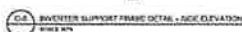


ISSUED FOR  
CONSTRUCTION

[illegible]

**IRVING FARMS SOLAR, LLC**  
200 KW GENERATION FACILITY  
BUCK ROAD, CARIBOU, ME 04735

CONSTRUCTION DETAILS  
Sheet 1 of 4

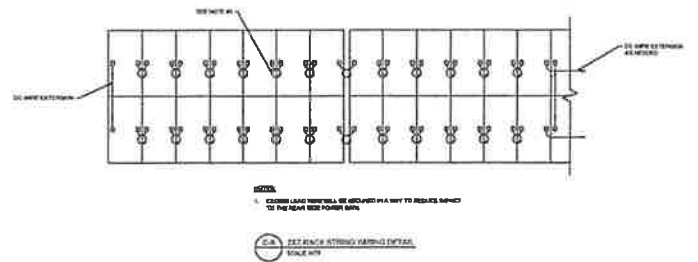
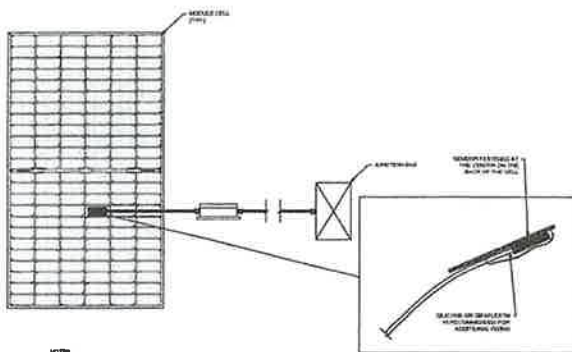
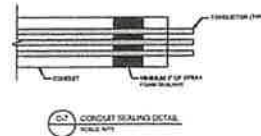
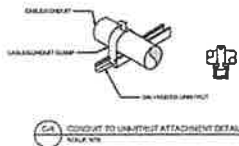


ISSUED FOR  
CONSTRUCTION

NAME	PERIOD
------	--------

CONSTRUCTION DETAILS  
SHEET 2 OF 6

CONSTRUCTION DETAILS  
SHEET 2 OF 6



- NOTES:
1. THE SENSOR SHALL BE PLACED ON A MODULE OR IN A LIGHT 1 MODULE FROM THE EDGE OF THE ARRAY OR AS CLOSE AS POSSIBLE.
  2. CLEAN THE CELL SURFACE BEFORE A SENSOR UNITS IT.

- NOTES:
1. CONDUIT AND WIRING SHALL BE GROUPED IN A WAY TO REDUCE RISK TO THE NEAR BY POWER BARS.



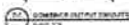
PROJECT	IRVING FARMS SOLAR, LLC
DATE	08/15/2017
BY	RLC
CHECKED	RLC
APPROVED	RLC
SCALE	AS SHOWN



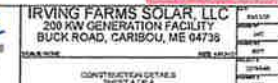
**IRVING FARMS SOLAR, LLC**  
200 KW GENERATION FACILITY  
BUCK ROAD, CARIBOU, ME 04736

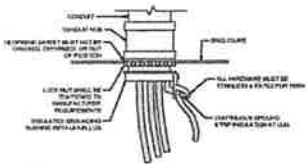
CONSTRUCTION DETAILS  
SHEET 3 OF 4

ISSUED FOR CONSTRUCTION



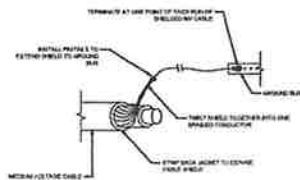
- NOTES**



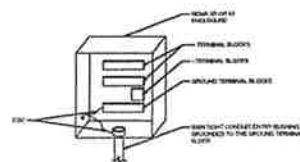


- NOTES:**
1. ALL CONDUIT MUST HAVE A MINIMUM OF 1/2" INSULATED BRASS OR STAINLESS STEEL, TWO OPPOSITE SIDES OF THE CONDUIT MUST BE GROUNDING WIRE.
  2. ALL GROUNDING WIRE MUST BE INSTALLED ON BOTH SIDES OF THE CONDUIT.
  3. ALL GROUNDING WIRE MUST BE INSTALLED ON BOTH SIDES OF THE CONDUIT.
  4. ALL GROUNDING WIRE MUST BE INSTALLED ON BOTH SIDES OF THE CONDUIT.
  5. ALL GROUNDING WIRE MUST BE INSTALLED ON BOTH SIDES OF THE CONDUIT.

**D-1 CONDUIT GROUNDING DETAIL**  
SCALE: 1/2" = 1'-0"



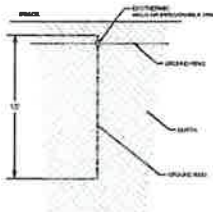
**D-2 MEDIUM VOLTAGE CABLE SHIELD GROUNDING DETAIL**  
SCALE: 1/2" = 1'-0"



**D-3 TYPICAL EQUIPMENT GROUNDING DETAIL**  
SCALE: 1/2" = 1'-0"



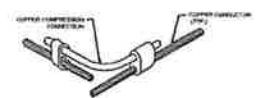
**D-4 GROUNDING ROD DETAIL**  
SCALE: 1/2" = 1'-0"



**D-5 GROUND ROD INSTALLATION DETAIL**  
SCALE: 1/2" = 1'-0"



**D-6 GROUND TEST WELL DETAIL**  
SCALE: 1/2" = 1'-0"



**D-7 COPPER COMPRESSION CONNECTION DETAIL**  
SCALE: 1/2" = 1'-0"



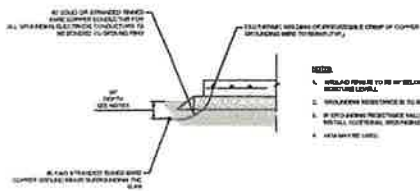
**D-8 COPPER COMPRESSION CONNECTION DETAIL**  
SCALE: 1/2" = 1'-0"



**D-9 COPPER COMPRESSION CONNECTION DETAIL**  
SCALE: 1/2" = 1'-0"

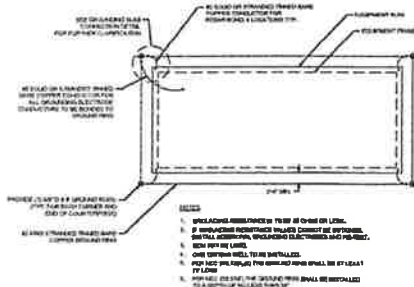
**D-10 COPPER COMPRESSION CONNECTION DETAIL**  
SCALE: 1/2" = 1'-0"

<b>IRVING FARMS SOLAR, LLC</b> 200 KV GENERATION FACILITY BUCK ROAD, CARIBOU, ME 04736 SCALE: 1/2" = 1'-0"				<b>ISSUED FOR CONSTRUCTION</b>			
<b>RLC</b> CONSULTING 111 Main Street Portland, ME 04101 Phone: 603-761-1111 Fax: 603-761-1112 www.rlc-engineers.com				SHEET 1 OF 3 GROUNDING DETAILS			

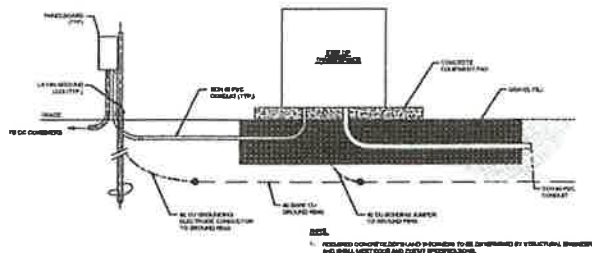


- NOTES:**
1. WELDING SHALL BE TO BE 1/2\"/>

**Q-1A** EQUIPMENT PAD GROUNDING BUS CONNECTION DETAIL  
SCALE: 1/8"



**Q-1B** EQUIPMENT PAD GROUNDING BUS DETAIL  
SCALE: 1/8"



- NOTES:**
1. EQUIPMENT PAD GROUNDING SHALL BE CONFORMED TO ALL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.

**Q-1C** EQUIPMENT PAD GROUNDING MANAGEMENT DETAIL  
SCALE: 1/8"

**ISSUED FOR CONSTRUCTION**

<b>IRVING FARMS SOLAR, LLC</b> 200 KW GENERATION FACILITY BUCK ROAD, CARIBOU, ME 04736				<b>RLC</b> ENGINEERING 101 WINDING ROAD CARIBOU, ME 04736 PHONE: (207) 453-1111 FAX: (207) 453-1112 WWW.RLC-ENGINEERING.COM				SHEET NO. SHEET 1 OF 1 DATE 10/1/2017
PROJECT NO. 17-001				DRAWING DETAILS SHEET 1 OF 1				REVISION 1 10/1/2017



6-11 RACKING TO CONTAINER GRADING



G-13 ABOVE GRADE BACK TO BACK CROWNED  
HALF 3/16

[illegible]

**IRVING FARMS SOLAR, LLC**  
200 KW GENERATION FACILITY  
BUCK ROAD, CARIBOU, ME 04736

CONTINUING DETAIL:  
PAGE 2 OF 2

ISSUED FOR  
CONSTRUCTION

项目	金额
营业收入	1000000
营业成本	600000
营业税金及附加	10000
销售费用	50000
管理费用	30000
财务费用	20000
资产减值损失	10000
公允价值变动损益	0
投资收益	0
营业外收入	0
营业外支出	0
利润总额	390000
所得税费用	97500
净利润	292500

**⚠ DANGER**

**HIGH VOLTAGE  
KEEP OUT**

**AUTHORIZED PERSONNEL ONLY**

**⚡**

**⚠ WARNING**

**PV POWER SOURCE  
TURN OFF PHOTOVOLTAIC  
AC DISCONNECT PRIOR TO  
WORKING INSIDE ENCLOSURE**

- GENERAL NOTES:**
1. LABELS AND WARNINGS SHALL BE APPLIED TO ALL APPROPRIATE COMPARTMENTS IN ACCORDANCE WITH THE NEC AND ANSI STANDARDS.
  2. LABELS AND WARNINGS SHALL BE PERMANENTLY APPLIED IN CONFORMANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER. MAXIMUM VOLTAGE RATED VOLTAGE AND OF ANY APPLICABLE STANDARDS TO BE APPLIED TO THE EQUIPMENT OR TO THE SYSTEM.
  3. ADJUST AND REPLACE TO THE LABELS FOR LABELS, EQUIPMENT TONGS AND USED FOR THE SAME LINE CHARGING ON THE 7/16" EXAMPLE, REPLACE WITH A 7/16" TONGS.
  4. A 3/4" TONGS CHARGING ON THE 7/16" AND ALTERNATE FOR THE SAME TONGS.
  5. TONGS TO BE USED TO REPLACE WITH A 7/16" TONGS.

**DAS-1**

**COMMUNICATIONS ENCLOSURE  
DATA ACQUISITION SYSTEM**

**⚠ WARNING**

**ELECTRIC SHOCK HAZARD**

**IF A GROUND FAULT IS INDICATED NORMALLY  
GROUNDED CONDUCTORS MAY BE  
UNGROUND AND ENERGIZED**

**INVERTER-X**

**100 KW - 100 KVA PV INVERTER  
INTEGRAL AC & DC DISCONNECT**

**MAX. AC OUTPUT CURRENT: 95 A  
NOMINAL AC VOLTAGE: 600 V**

**⚠ CAUTION**

**POWER TO THIS SERVICE IS  
ALSO SUPPLIED FROM ON-SITE  
PHOTOVOLTAIC GENERATION**

**MEDIUM VOLTAGE  
TRANSFORMER-1 - 225 KVA**

**PRIMARY VOLTAGE - 12.47KV  
SECONDARY VOLTAGE - 600V**

**⚠ WARNING**

**ARC FLASH AND SHOCK HAZARD  
APPROPRIATE PPE REQUIRED**

**DO NOT TOUCH TERMINALS.  
TERMINALS ON BOTH THE LINE AND  
LOAD SIDES MAY BE ENERGIZED  
IN THE OPEN POSITION.**

**NEVER TO BE OPENED FOR MAINTENANCE**

**⚠ CAUTION**

**PHOTOVOLTAIC SYSTEM  
CIRCUITS ARE BACKFED**

**⚠ WARNING**

**MAXIMUM AVAILABLE FAULT CURRENT:  
901 SYMMETRICAL RMS AMPERES.**

**DATE: MARCH 31, 2024**

**⚠ WARNING**

**MAXIMUM AVAILABLE FAULT CURRENT:  
3,792 SYMMETRICAL RMS AMPERES.**

**DATE: MARCH 31, 2024**

**RELAY-1**

**SEL-751 RELAY CABINET WITH LV POTENTIAL  
TRANSFORMERS**

**ISSUED FOR  
CONSTRUCTION**

	<p><b>RLC ENGINEERING, INC.</b></p> <p>200 HWY 100, SUITE 100 CARIBOU, ME 04736 TEL: 207.453.1234 WWW.RLCENGINEERING.COM</p>	<p><b>IRVING FARMS SOLAR, LLC</b></p> <p>200 KW GENERATION FACILITY BUCK ROAD, CARIBOU, ME 04736</p> <p><b>ENGINEER DETAIL:</b> SHEET 1 OF 2</p>
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## WARNING

DO NOT OPEN, REMOVE OR  
REPLACE FUSES UNDER LOAD

TO BE POSTED AT ALL LOCATIONS  
AND ALL 120V POWER DISCONNECTS



## WARNING

SHOCK HAZARD  
TURN OFF AC AND DC  
DISCONNECTS  
BEFORE WORKING

TO BE POSTED AT ALL LOCATIONS

## NOTICE

PHOTOVOLTAIC  
ELECTRIC SYSTEM DISCONNECT

TO BE POSTED AT ALL LOCATIONS



## WARNING

DUAL POWER SUPPLY  
SOURCES: UTILITY GRID  
AND PV SOLAR  
ELECTRIC SYSTEM

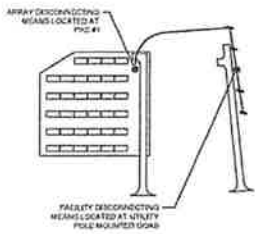
TO BE POSTED AT ALL LOCATIONS

## AC RECOMBINER #1

MAX. AC OUTPUT CURRENT: 192 A  
NOMINAL AC VOLTAGE: 600 V

TO BE POSTED AT ALL LOCATIONS

## PROJECT DIRECTORY MAP



TO BE POSTED AT UTILITY JUNCTION AND DATE DISCONNECT

### GENERAL NOTES:

1. LABELS AND WARNING SHALL BE APPLIED TO ALL EQUIPMENT RE COMPONENTS IN ACCORDANCE WITH THE IEC 60439-1 AND IEC 60439-2.
2. LABELS AND WARNING SHALL BE PERMANENTLY APPLIED TO COMPONENTS SPECIFIED IN THE APPROPRIATE EQUIPMENT SPECIFICATIONS. WARNING LABELS SHOULD BE MAINTAINED AND BE REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN THE EQUIPMENT IN GOOD WORKING ORDER.
3. AC AND DC DISCONNECT SHALL BE MAINTAINED PERMANENTLY AND BE MAINTAINED IN GOOD WORKING ORDER. THE DISCONNECT SHALL BE MAINTAINED IN GOOD WORKING ORDER.
4. DISCONNECT SHALL BE MAINTAINED IN GOOD WORKING ORDER.
5. DISCONNECT SHALL BE MAINTAINED IN GOOD WORKING ORDER.




NO.	DESCRIPTION	DATE	BY	CHECKED	DATE	BY
1	DESIGN	10/1/2023	RLC			
2	REVISION	10/1/2023	RLC			
3	REVISION	10/1/2023	RLC			
4	REVISION	10/1/2023	RLC			
5	REVISION	10/1/2023	RLC			
6	REVISION	10/1/2023	RLC			
7	REVISION	10/1/2023	RLC			
8	REVISION	10/1/2023	RLC			
9	REVISION	10/1/2023	RLC			
10	REVISION	10/1/2023	RLC			



IRVING FARMS SOLAR, LLC 200 KW GENERATION FACILITY BUCK ROAD, CARIBOU, ME 04736	SCALE: 1:100 DATE: 10/1/2023 SHEET: 2 OF 2
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 <p>RLC ENGINEERING</p> <p>307 Phillips Road Farmingdale, NY 11735 Phone 516-461-0237 Fax 516-461-0172 www.rlceng.com</p>	<p><b>IRVING FARMS SOLAR, LLC</b> 200 KW GENERATION FACILITY BUCK ROAD, CARIBOU, ME 04736</p>		<p>WORKING DESIGN PERMIT BID CONSTRUCTION COMMISSIONING O&amp;M</p>
	<p>TELEPHONE: 516-461-0237 FAX: 516-461-0172</p>		
	<p>DATE: 04/07 PROJECT: CP-2</p>		

[illegible][illegible]