

**A Day in the Life:
A Female Installer at an Employee-Owned Cooperative**

**Riley Neugebauer
ASES 2023
Boulder, Colorado**

Hello! I'm a Solar Installer, and a Woman! It's Rare!



I Work for Namaste Solar Electric.



Namaste Solar is an Employee-Owned Cooperative.



Certified



This company meets the highest standards of social and environmental impact

Corporation

7 Cooperative Principles



1 VOLUNTARY AND OPEN MEMBERSHIP

DEMOCRATIC MEMBER CONTROL



3 MEMBERS' ECONOMIC PARTICIPATION

AUTONOMY AND INDEPENDENCE



5 EDUCATION, TRAINING AND INFORMATION

COOPERATION AMONG COOPERATIVES



7 CONCERN FOR COMMUNITY

Steps in My Day as a Full-Time Residential Installer

1. Get Up Very Early
2. Load /Prep Vans at the Warehouse, Meet with Crew
3. Drive to Site
4. Stretch, Safety Sheets, and Review Job Design / Notes
5. Roof Crew: Install Anchors, Do Layout
6. AC Crew: Determine Plan for Hanging Equipment, Running Conduit
7. Roof Crew: Attach Racking to Roof & Install Roof Junction Box
8. AC Crew: Hang Equipment, Run Conduit, Electric Work
9. Roof Crew: Attach Microinverters to Rack, Make Micro / String Map, Manage Wires
10. AC Crew: Run Wire Between Roof and Equipment
11. Roof Crew: Wire Roof Junction Box
12. AC Crew: Continue Wiring & Complete Interconnection
13. Roof Crew: Stage Modules from Van Clear to Roof
14. Roof Crew: With Help from AC Crew, Modules Get Passed Up to Roof and Staged in Place
15. AC Crew: Once all Modules Installed, Conduct Commissioning of System to Ensure it's Working
16. Final Walk Through with Customer, Turn System off to Await Final Inspection
17. Clean Up & Go to Warehouse, Clean Out Vans
18. Go Home!



THERE'S A LOT!

Start the Day - Get Up at 5 AM, Be at Work by 6:30!



The Crew! It's Your Work Family...

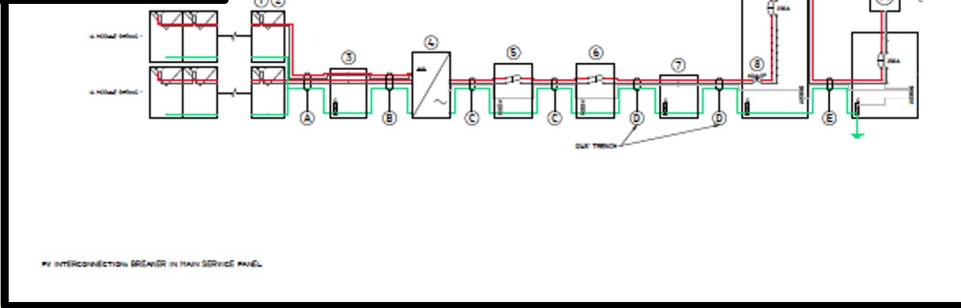


Once on Site, Develop Safety Plan & Review Job Info

HAZARD ANALYSIS													
DATE PREPARED:		PREPARED BY:											
OPERATION:		COMPETENT PERSON:											
Special Permits:		QUALIFIED PERSON:											
PPE Required:		Access Identification											
Hard Hat		Location	Type										
Gloves													
Safety Vest													
Overall Risk Assessment Code (RAC) (Use highest code)													
Risk Assessment Code (RAC) Matrix													
Severity	Probability												
	Frequent	Likely	Occasional	Seldom									
Catastrophic	E	E	H	H									
Critical	E	H	H	M									
Marginal	H	M	M	L									
Negligible	M	L	L	L									
Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)													
RAC Chart													
<table border="1"> <tr> <td>E</td> <td>H</td> <td>H</td> <td>M</td> <td>L</td> </tr> <tr> <td>Extremely High Risk</td> <td>High Risk</td> <td>Moderate Risk</td> <td>Low Risk</td> <td></td> </tr> </table>				E	H	H	M	L	Extremely High Risk	High Risk	Moderate Risk	Low Risk	
E	H	H	M	L									
Extremely High Risk	High Risk	Moderate Risk	Low Risk										
RAC as E, H, M, Or L for each "Hazard" on AHA.													
Prepared and Reviewed By:													
Name	Signature												



Seq	Desc	Control
1
2
3
4
5
6
7

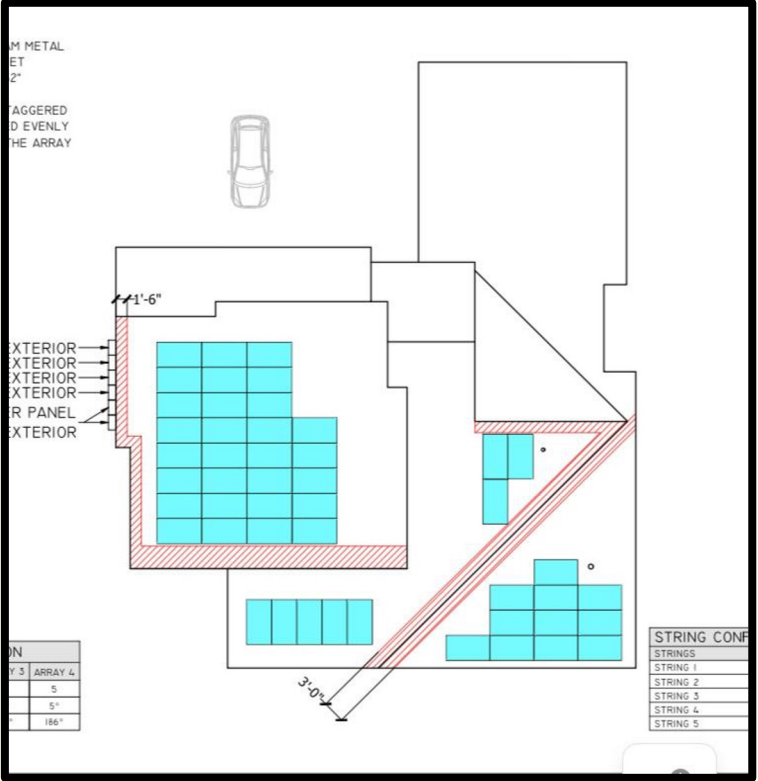


MENSCHEL RESIDENCE
UTILITY CONTACT/LAUREN HEISCHKE
7561 NORTH 49TH STREET
LONGMONT, CO 80503

PREPARED BY: [Name]
DATE: [Date]
SCALE: [Scale]
DRAWING NO: [Number]

LINE
DIAGRAM
NOT TO SCALE
PVE-I

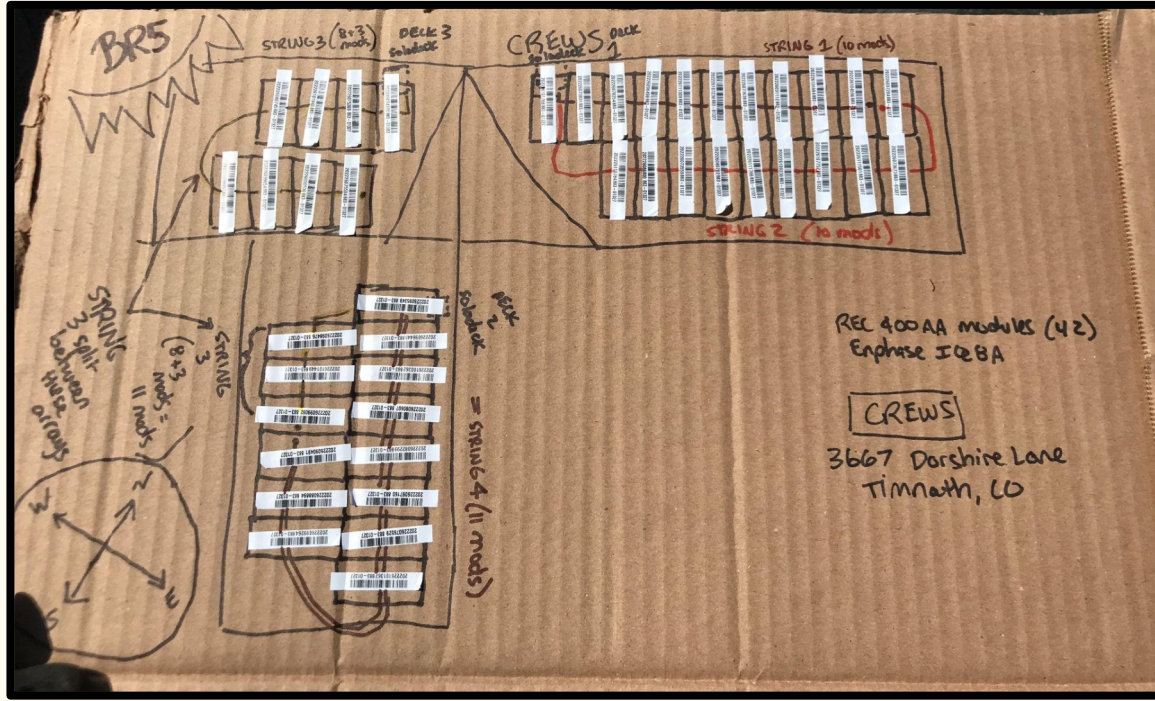
Complete Layout Based on Design



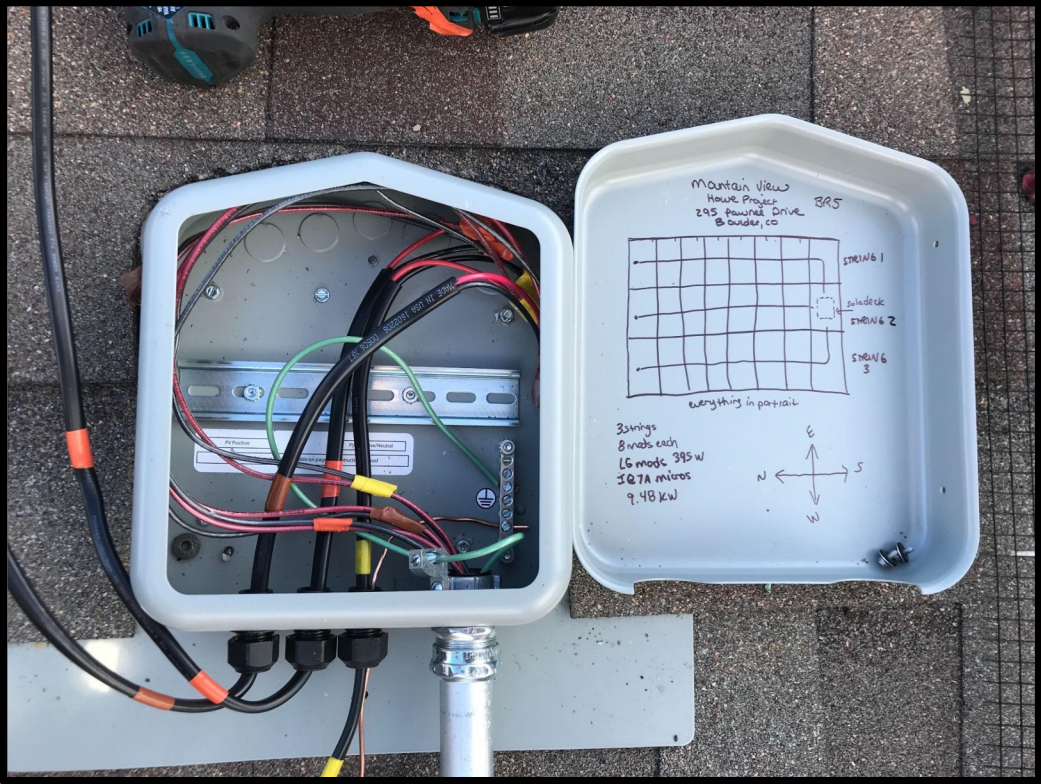
Once Layout is Done, Install Feet & Rails & Micros/Optis



Make String & Optimizer/Micro Maps



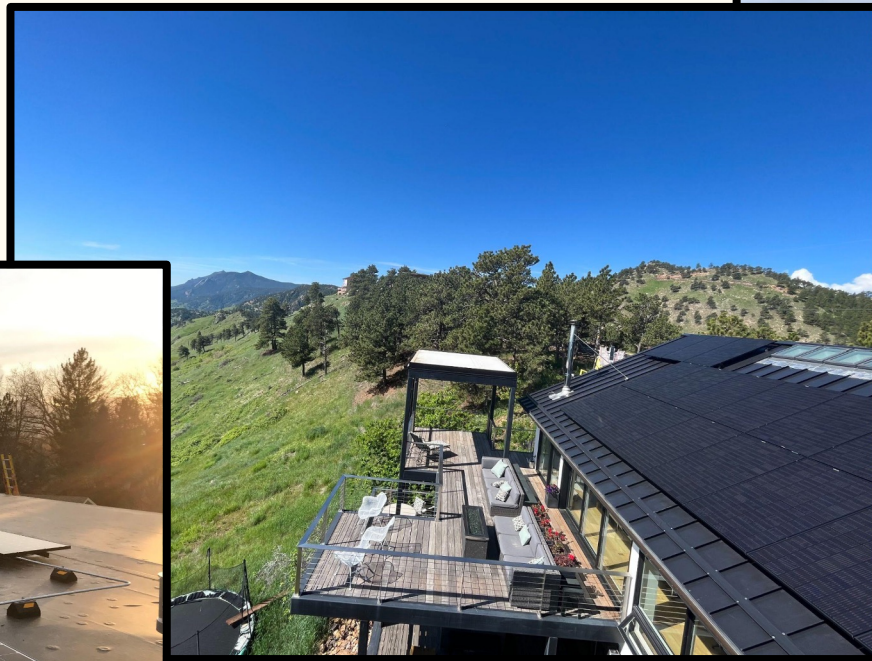
Install a Rooftop Junction Box



Hanging Gear, Bending Conduit & Wiring



Install Modules & Commissioning!



Don't Forget Animal Guard & Attic Work...



Sometimes It's Hard...



But We Usually Make the Best of It!



Sometimes There are Even Other Women Installers!!



Is That a Crack in the Grass Ceiling I see?

What Else?



THANK YOU!

Riley Neugebauer

www.solarforwomen.com

www.namastesolar.com

riley@solarforwomen.com



Solar for Women

