



PROJECT: 202200000000

2 Full Lot Site Plan  
Scale: 1" = 40'



Notes:  
1. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
2. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
3. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
4. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
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7. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
8. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
9. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.  
10. See Notes on drawings. NOT ACCESSIBLE DURING CONSTRUCTION.

PV Inverter AC Capacity: 28 x 349 W = 9.8 kW/AC  
PV STC Power: 28 x 360 W = 10.08 kWdc  
Combined Fault Current: 974.4 Apk, 162.4 Arms, 50 ms



365 J Princeton Dr NE  
Albuquerque, NM 87107  
(505) 344-0071  
NM Electrical Contractor's  
License #82573

### Simpson Residence

Utility Interactive Photovoltaic System  
System Size = 10.08kW  
41 Petroglyph Trail  
Pueblo, NM 87001  
DECISION SUPERVISOR  
Number of Modules: 28  
Module Tilt Angle: 9°  
Module Azimuth: 180°  
Average Annual Shading: 4.00%  
Year 1 Production Estimate: 15075 kWh  
DECISION APPROVAL:  
I approve of this design showing all equipment and locations, and ensure production. Any change to this design may result in delays and additional cost.  
Signature:  
Date:

DESIGNER:  
John Brown  
REV: 0  
DESCRIPTION: Final Review  
DATE: 2/2/22

## SITE PLAN PV100



Crystal Simpson <crystal.simpson@positiveenergysolar.com>

MULTI-Purpose State Building Application  
Regulation and Licensing Department

Construction Industries Division  
Phone: (505) 476-4700 Fax: (505) 476-4685  
(505) 222-6800 (505) 765-5870  
(575) 524-6320 (575) 524-6319

Santa Fe 2550 Carlisle Rd  
Albuquerque 5500 San Antonio NE  
Las Cruces 505 S. Main St. Ste. 118

Santa Fe, NM 87505  
Albuquerque, NM 87109  
Las Cruces, NM 89004

Building Permit (Comments include electrical/mechanical/plumbing reviews)  
 New Construction  Alteration/Repairs/Demolition  Additions  Foundation only  Reroof  
 wood  metal frame  masonry  adobe  rammed earth  metal structure  other  
 Residential  Commercial  Pre-Bid  
 Trade Review Only  
 Electrical Review  
 Mechanical/Plumbing Review

Description of work: ROOF MOUNTED GRID TIED SOLAR 28 MODULES  
6185 SQ FT

THE FOLLOWING INFORMATION MUST BE PROVIDED  
41 PETROGLYPH TRAIL PLACITAS 87043  
Physical Address of job site (most precise & physical address) Nearest City/Town/Village Zip Code County  
GPS Coordinates optional X Coordinate Y Coordinate

MUST provide written Directions  
I-25 N TOWARD PLACITAS TAKE EXIT 242 KEEP RIGHT FOLLOW SIGNS FOR NM-116  
MERGE ONTO NM-116 E. LEFT ON TENTREE ROAD RIGHT ONTO PETROGLYPH TRAIL

Property Owner or Homeowner Information:  
SUSANA SIMPSON  
First Name Last Name  
41 PETROGLYPH TRAIL PLACITAS NM 87043 941-840-2280  
Address No. & Street / PO Box / Rural Route City State Zip Code Phone  
Email address:

Contractor Information (must provide proof of contract):  
POSITIVE ENERGY SOLAR 82573  
Company Name NM State License # and classification  
3000 PAN AMERICAN HWY APO nm crystal.simpson@positiveenergysolar.com  
Address No. & Street / PO Box / Rural Route City State Email Address  
CRYSTAL SIMPSON 344-0011  
Contact Information (Name) Phone Fax

Design Professional Information:  
SAME AS ABOVE NM State License #  
Company Name City State  
Address No. & Street / PO Box / Rural Route

Contact Information (Name) Phone E-mail address:  
Type of Construction: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  
Occupancy Group: A B C D E F G H I J K L M N O P Q R S T U  
Division: 1 2 3 4 5  
Square Footage: 6185 SQ FT  
Valuation / Sign Contract: 24,729 Fire Sprinklers Apply Y / N LP gas Appliance Apply Y / N  
Energy Compliance:  Prescriptive  Trade-off  Performance  
Climate Zone: 1 2 3 4 5 6 7  Energy Code Not Applicable

APPLICANT MUST READ AND SIGN THE FOLLOWING: I hereby acknowledge by my signature below that I have read this application and state that the above is correct. I agree to comply with the requirements for the New Mexico Building Code. I waive my right to require any inspector to possess a search warrant before they enter the premises to inspect the building covered by this permit. However, I waive this right only on the following conditions: The inspector must be approved by the Construction Industries Division and this inspection must be made at reasonable times for purpose of determining whether the work of building or structure on the premises complies with the New Mexico Building Code. I understand that the issuance of this permit shall not prevent the Construction Industries Division from requiring compliance with the provisions of the New Mexico Building Code.  
X [Signature] 10/20/20  
Signature Date

Official Use Only  
Date Issued: \_\_\_\_\_ Processed By: \_\_\_\_\_ Tracking Number: \_\_\_\_\_  
Received By: \_\_\_\_\_ Total Fees Due: \_\_\_\_\_  
 Walk In  Mail  E-Mail \_\_\_\_\_ Partial Payment: \_\_\_\_\_  
Paid By: \_\_\_\_\_ Balance Due: \_\_\_\_\_  
 Check  Money Order  Credit Card  Purchase Order

PLANNING/ZONING APPROVED BY: \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  
FLOOD PLAN APPROVED BY: \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  
GENERAL BUILDING APPROVED BY: Justin Moreno Signature \_\_\_\_\_ Date 10/22/20  
UPC/UMC APPROVED BY: \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  
NIC APPROVED BY: \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

PRT\_202003320

STATE OF NEW MEXICO  
CONSTRUCTION INDUSTRIES DIVISION  
RECEIVED  
10/21/2020 1:31:47 PM



October 5, 2020

Mr. John Brown  
Positive Energy Solar  
3651 Princeton Dr NE  
Albuquerque, NM 87107

Re: Simpson Residence – 41 Petroglyph Trail, Placitas, NM 87043  
Positive Energy Solar Project #4476  
Structural Review of Existing Roof for New Photovoltaic Panel Installation

Dear Mr. Brown:

Per your request, we have reviewed the existing roof framing which will receive new roof mounted photovoltaic panels for the above referenced project. Based upon the information on the framing plan, the existing roof framing members are low slope manufactured trusses at 24" on center. The trusses have a maximum span of approximately 26'-0". The roofing material is a single layer of TPO membrane.

There are twenty-eight 370W photovoltaic panels proposed to be installed on the roof of this residence. Unirac RM10 ballasted racking will be used for this project. The photovoltaic loads which will be added to the roof are 5.72, 6.19, 9.39, and 9.39 pounds per square foot, per Unirac Engineering Report for Project ID# 156AED41. The roof trusses were found to be adequate to support the 28 photovoltaic panels, 144 thirty-two-pound ballast blocks, and racking. This review was performed in accordance with the provisions of the 2015 International Building Code.

We are not the original engineer of record for this residence. We did not perform a structural analysis of the entire building and did not inspect the residence for signs of distress. Our structural review was limited to analyzing the existing structural framing members for the addition of photovoltaic panels, based upon our understanding of the existing residence, as described above. The truss connections have not been reviewed. We are also not the engineer of record for the solar racking or the ballast block layout.

If you have any questions or concerns, please contact our office.

Sincerely,  
Unity Engineering, P.C.

*Tarumi Head*  
Tarumi Head, P.E.  
Principal

