NEW PV SYSTEM: 12.300 kWp

PRATT RESIDENCE

26730 COUNTY ROAD 14,
STEAMBOAT SPRINGS, CO 80487
ASSESSOR'S #: 116100002

GENERAL NOTES

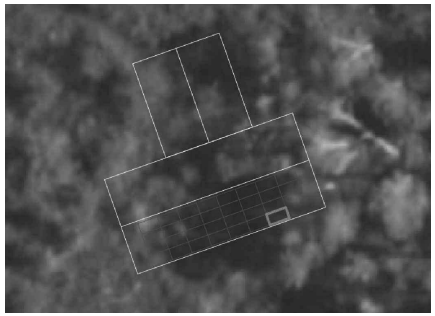
1.1.1 PROJECT NOTES:
1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
1.1.4 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.41(B)
1.1.5 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4:
PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE
INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519
COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
1.1.7 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
1.1.8 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.2.1 SCOPE OF WORK:
1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.

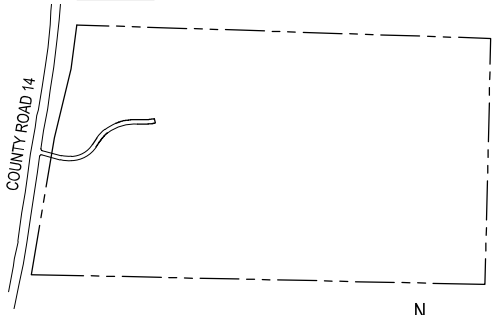
1.3.1 WORK INCLUDES:
1.3.2 PV ROOF ATTACHMENTS - S-5! S-5-S CLAMP
1.3.3 PV RACKING SYSTEM INSTALLATION - IRONRIDGE XR-100
1.3.4 PV MODULE AND INVERTER INSTALLATION -
HYUNDAI ENERGI SOLUTION HIE-S410VG / (30) ENPHASE IQ8PLUS-72-2-US
1.3.5 PV EQUIPMENT GROUNDING
1.3.6 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
1.3.7 PV LOAD CENTERS (IF INCLUDED)
1.3.8 PV METERING/MONITORING (IF INCLUDED)
1.3.9 PV DISCONNECTS
1.3.10 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
1.3.11 PV FINAL COMMISSIONING
1.3.12 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
1.3.13 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

SCOPE OF WORK

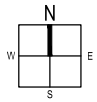
SYSTEM SIZE:	STC: 30 x 410W = 12.300kW PTC: 30 X 383.4W = 11.502KW (30) HYUNDAI ENERGI SOLUTION HIE-S410VG (30) ENPHASE IQ8PLUS-72-2-US
ATTACHMENT TYPE:	S-5! S-5-S CLAMP
MSP UPGRADE:	NO



01 AERIAL PHOTO
NOT TO SCALE



02 PLAT MAP
NOT TO SCALE



SHEET LIST TABLE

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PROJECT INFORMATION

OWNER
NAME: ROBERT PRATT
PHONE:
E-MAIL:

PROJECT MANAGER
NAME:
PHONE:

CONTRACTOR
NAME: E AND M SOLAR LLC
PHONE:

AUTHORITIES HAVING JURISDICTION
BUILDING: ROUTT COUNTY
ZONING: ROUTT COUNTY
UTILITY: YAMPA VALLEY RURAL ELECTRIC

DESIGN SPECIFICATIONS
OCCUPANCY: GROUP R-3
CONSTRUCTION: TYPE III
ZONING: RESIDENTIAL
GROUND SNOW LOAD: 35 PSF
WIND EXPOSURE: C
WIND SPEED: 115 MPH

APPLICABLE CODES & STANDARDS
BUILDING: IBC 2018, IRC 2018
ELECTRICAL: NEC 2020
FIRE: IFC 2018

CONTRACTOR
E AND M SOLAR LLC
ADDRESS: FORT COLLINS, CO
PHONE:
CONTRACTOR #:

PRATT RESIDENCE
RESIDENTIAL GRID INTERACTIVE SOLAR INSTALLATION
26730 COUNTY ROAD 14, STEAMBOAT SPRINGS, CO 80487
APN: 116100002

COVER PAGE

SYSTEM AC SIZE @ STC: 8.700 kW
SYSTEM DC SIZE @ STC: 12.300 kW
(30) HYUNDAI ENERGI SOLUTION HIE-S410VG
(30) ENPHASE IQ8PLUS-72-2-US

DRAWN BY: V.G.
REV:
DATE: 03.23.2025

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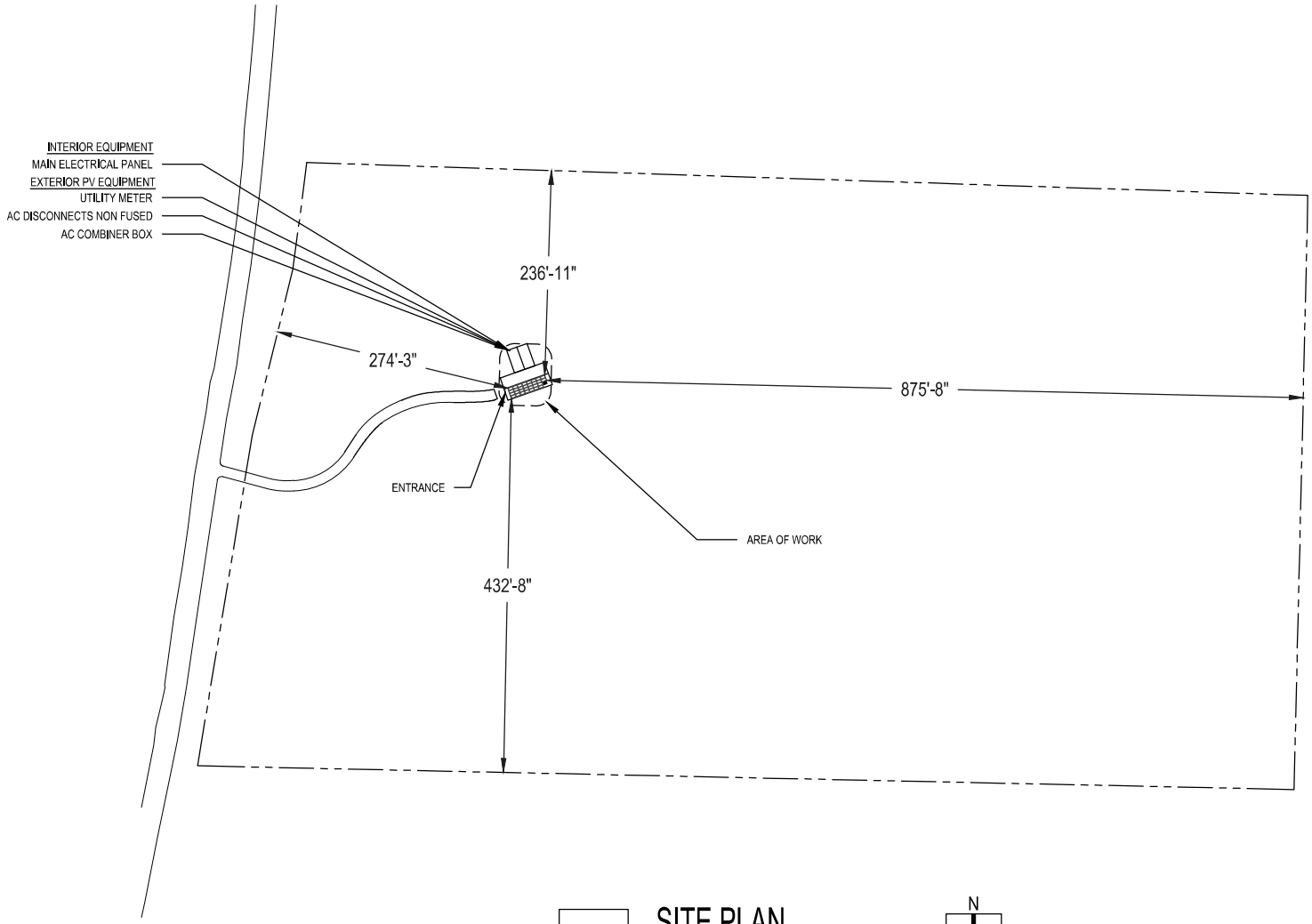
GENERAL NOTES

1. FIELD VERIFY ALL MEASUREMENTS
2. ITEMS BELOW MAY NOT BE ON THIS PAGE



01 SITE PLAN

1/128" = 1'-0"

0 64' 128'

N
W E
S

CONTRACTOR
E AND M SOLAR LLC
ADDRESS: FORT COLLINS, CO
PHONE:
CONTRACTOR #:

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