



Historic Preservation Services

Community Development & Neighborhood Services

281 North College Avenue
P.O. Box 580
Fort Collins, CO 80522.0580

970.416.4250

preservation@fcgov.com

fcgov.com/historicpreservation

CERTIFICATE OF APPROPRIATENESS – Minor Alteration (No Application Required)

ISSUED: October 13, 2020

EXPIRATION: October 13, 2021

Colleen McKee and John Parks
224 E. Elizabeth Street
Fort Collins, CO 80524

Dear Ms. McKee and Mr. Parks:

This letter provides you with certification that proposed work to your designated historic property, the D.C. Coulton House at 224 E. Elizabeth Street, a duplex and contributing property to the Laurel School Historic District, listed in the National Register of Historic Places in 1980, has been approved without an application by the City's Historic Preservation Division (HPD) because the proposed work appears to have minimal effects to the historic resource and meets the requirements of Chapter 14, [Article IV](#) of the Fort Collins Municipal Code.

The alterations reviewed include:

- Rooftop solar installation on south slope of non-historic (2003) garage at rear of lot.

Notice of the approved application has been provided to building and zoning staff to facilitate the processing of any permits that are needed for the work. Please consider National Park Service guidance on [solar panels](#) as you complete this project.

Please note that work beyond that indicated in your permit application/correspondence requires additional approval. If the approved work is not completed prior to the expiration date noted above, you may apply for an extension by contacting staff at least 30 days prior to expiration. Extensions may be granted for up to 12 additional months, based on a satisfactory staff review of the extension request.

If you have any questions regarding this approval, or if I may be of any assistance, please do not hesitate to contact me. I may be reached at jbortolini@fcgov.com or 970-416-4250.

Sincerely,

Jim Bertolini
Historic Preservation Planner



Community Development & Neighborhood Services
281 North College Avenue
P.O. Box 580
Fort Collins, CO 80522.0580

970.416.2740
970.224.6134- fax
fcgov.com

Roof Mounted Photovoltaic Systems Residential Installation Standards

Roof Access, Walking Pathways, and Spacing Criteria

Roof access points.

- Shall be located in areas that do not require the placement of ground ladders over openings such as windows or doors,
- Located at strong points of building construction locations
- Where the access point does not conflict with overhead obstructions such as tree limbs, wires or signs.

Hip roof layouts.

- Panels and modules shall be located in a manner that provides a clear access pathway not less than 3 feet (914 mm) in width from the eave to the ridge on each roof slope where panels and modules are located.
- 18" of access pathway required at the top of ridge/hip where someone can stand on opposite roof plane.
- The access pathway shall be located at a structurally strong location on the building capable of supporting the live load of fire fighters accessing the roof.

Single ridge roofs.

- Panels and modules shall be located in a manner that provides two, 3-foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where panels or modules are located.
- A single shed roof must provide 36" access pathway along the top of the roof.

Roofs with hips and valleys.

- Panels and modules shall not be located less than 18 inches (457 mm) from a hip or valley where panels or modules are to be placed on both sides of a hip or valley.
- Where panels are to be located on one side only of a hip or valley that is of equal length, the 18-inch (457 mm) clearance does not apply.

Exceptions

- Detached, non-habitable Group U Occupancies
- Roof Structures with a slope of less than 2:12
- Panels may be placed adjacent to the roof ridge if an alternate fire-fighting smoke ventilation method is approved by the Building Official.

Russ Hovland CBO
11/2017

September 17, 2020

To: Blue Raven Solar
1403 North Research Way, Building J
Orem, UT. 84097

Subject: Certification Letter
Parks Residence
224 East Elizabeth St
Fort Collins, CO. 80524

To Whom It May Concern,

A jobsite observation of the condition of the existing framing system was performed by an audit team of Blue Raven Solar as a request from Domus Structural Engineering. All review is based on these observations and the design criteria listed below and only deemed valid if provided information is true and accurate.

On the above referenced project, the roof structural framing has been reviewed for additional loading due to the installation of the solar PV addition to the roof. The structural review only applies to the section of the roof that is directly supporting the solar PV system and its supporting elements. The observed roof framing is described below. If field conditions differ, contractor to notify engineer prior to starting construction.

The roof structure of (MP1) consists of composition shingle on roof plywood that is supported by pre-manufactured trusses that are spaced at @ 24" o.c.. The top chords, sloped at 40 degrees, are 2x6 sections, the bottom chords are 2x6 sections and the web members are 2x4 sections. The truss members are connected by steel gusset plates. The max unsupported projected horizontal top chord span is approximately 7'-0".

The existing roof framing system of (MP1) is judged to be adequate to withstand the loading imposed by the installation of the solar panels. No reinforcement is necessary.

The spacing of the solar standoffs should be kept at 72" o.c. for landscape and 48" o.c. for portrait orientation, with a staggered pattern to ensure proper distribution of loads.

The scope of this report is strictly limited to an evaluation of the fastener attachment, underlying framing and supporting structure only. The attachment's to the existing structure are required to be in a staggered pattern to ensure proper distribution of loading. All panels, racking and hardware shall be installed per manufacturer specifications and within specified design limitations. All waterproofing shall be provided by the manufacturer. Domus Structural Engineering assumes no responsibility for misuse or improper installation of the solar PV panels or racking.

Note: Seismic check is not required since $S_s < 4g$ and Seismic Design Category (SDC) < B

Design Criteria:

- Applicable Codes = 2018 IBC/IRC, ASCE 7-16
- Roof Dead Load = 8 psf (MP1)
- Roof Live Load = 20 psf
- Wind Speed = 140 mph (Vult), Exposure B
- Roof Snow Load = 30 psf
- Attachments: 1 - 5/16" dia. lag screw with 2.5 inch min embedment depth, at spacing shown above.



Please contact me with any further questions or concerns regarding this project.

Sincerely,

Ryan Atwell, P.E.
Project Engineer

Parks Residence, Fort Collins, CO.xlsm 1

Gravity Loading

Roof Snow Load Calculations		
p_g = Ground Snow Load =	30 psf	
$p_f = 0.7 C_e C_t I p_g$		(ASCE7 - Eq 7-1)
C_e = Exposure Factor =	1	(ASCE7 - Table 7-2)
C_t = Thermal Factor =	1	(ASCE7 - Table 7-3)
I = Importance Factor =	1	
p_f = Flat Roof Snow Load =	30.0 psf	
$p_s = C_s p_f$		(ASCE7 - Eq 7-2)
C_s = Slope Factor =	1	
p_s = Sloped Roof Snow Load =	30.0 psf	

PV Dead Load = 3 psf (Per Blue Raven Solar)	
DL Adjusted to 40 Degree Slope	3.92 psf
PV System Weight	
Weight of PV System (Per Blue Raven Solar)	3.0 psf
X Standoff Spacing =	4.00 ft
Y Standoff Spacing =	5.50 ft
Standoff Tributary Area =	22.00 sft
Point Loads of Standoffs	66 lb
Note: PV standoffs are staggered to ensure proper distribution of loading	

Roof Live Load = 20 psf	
Note: Roof live load is removed in area's covered by PV array.	

Roof Dead Load (MP1)		
Composition Shingle	4.00	
Roof Plywood	2.00	
2x6 Top Chords @ 24"o.c.	1.15	
Vaulted Ceiling	0.00	(Ceiling Not Vaulted)
Miscellaneous	0.85	
Total Roof DL (MP1)	8.0 psf	
DL Adjusted to 40 Degree Slope	10.4 psf	

Wind Calculations
Per ASCE 7-16 Components and Cladding

Input Variables	
Wind Speed	140 mph
Exposure Category	B
Roof Shape	Gable Roof
Roof Slope	40 degrees
Mean Roof Height	20 ft
Effective Wind Area	19.3 ft
Ground Elevation	0 ft

Design Wind Pressure Calculations	
$q_h = 0.00256 * K_z * K_{zt} * K_d * K_e * V^2$	(Eq. 26.10-1)
K_z (Exposure Coefficient) = 0.62	(Table 30.3-1)
K_{zt} (topographic factor) = 1.00	(Fig. 26.8-1)
K_d (Wind Directionality Factor) = 0.85	(Table 26.6-1)
K_e (Ground Elevation Factor) = 1.00	
V (Design Wind Speed) = 140 mph	(Fig. 26.5-1A)
Risk Category = II	(Table 1.5-1)
$q_h = 26.61$	

Standoff Uplift Calculations-Portrait				
	Zone 1	Zone 2	Zone 3	Positive
$y_a =$	0.68	0.79	0.80	0.68
$GC_p =$	-1.46	-1.97	-2.63	0.76
Uplift Pressure =	-26.6 psf	-41.2 psf	-56.0 psf	13.9 psf
ASD Uplift Pressure =	-15.9 psf	-24.7 psf	-33.6 psf	9.6 psf
X Standoff Spacing =	4.00	4.00	2.67	
Y Standoff Spacing =	5.50	2.75	2.75	
Tributary Area =	22.00	11.00	7.33	
Dead Load on attachment =	66 lb	33 lb	22 lb	
Footing Uplift (0.6D+0.6W) =	-285 lb	-239 lb	-224 lb	

Standoff Uplift Calculations-Landscape				
	Zone 1	Zone 2	Zone 3	Positive
$y_a =$	0.69	0.79	0.80	0.69
$GC_p =$	-1.48	-1.98	-2.65	0.77
Uplift Pressure =	-27.2 psf	-41.9 psf	-56.4 psf	14.2 psf
ASD Uplift Pressure (0.6W)=	-16.3 psf	-25.1 psf	-33.8 psf	9.6 psf
X Standoff Spacing =	6.00	6.00	4.00	
Y Standoff Spacing =	3.50	1.75	1.75	
Tributary Area =	21.00	10.50	7.00	
Dead Load on attachment =	63.00	31.50	21.00	
Footing Uplift (0.6D+0.6W) =	-280 lb	-232 lb	-216 lb	

Standoff Uplift Check	
Maximum Design Uplift =	-285 lb
Standoff Uplift Capacity =	450 lb
450 lb capacity > 285 lb demand Therefore, OK	

Fastener Capacity Check	
Fastener =	1 - 5/16" dia Lag
Number of Fasteners =	1
Embedment Depth =	2.5
Pullout Capacity Per Inch =	250 lb
Fastener Capacity =	625 lb
w/ F.S. of 1.5 & DOL of 1.6=	667 lb
667.2 lb capacity > 285 lb demand Therefore, OK	

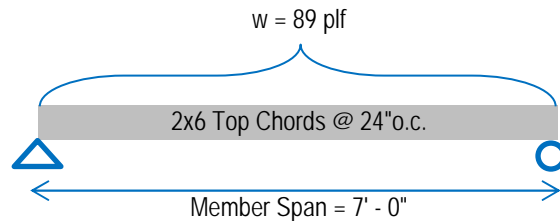
Framing Check

(MP1)

PASS

Dead Load 10.4 psf
PV Load 3.9 psf
Snow Load 30.0 psf

Governing Load Combo = DL + SL
Total Load 44.4 psf



Member Properties				
Member Size	S (in ³)	I (in ⁴)	Lumber Sp/Gr	Member Spacing
2x6	7.56	20.80	DF#2	@ 24"o.c.

Check Bending Stress							
Fb (psi) =	fb	x	Cd	x	Cf	x	Cr
	900	x	1.15	x	1.3	x	1.15

(NDS Table 4.3.1)

Allowed Bending Stress = 1547.3 psi

Maximum Moment = $(wL^2) / 8$
= 543.4036 ft#
= 6520.844 in#

Actual Bending Stress = (Maximum Moment) / S
= 862.3 psi

Allowed > Actual -- 55.8% Stressed -- Therefore, OK

Check Deflection

Allowed Deflection (Total Load) = $L/180$ (E = 1600000 psi Per NDS)
= 0.466 in

Deflection Criteria Based on = Continuous Span

Actual Deflection (Total Load) = $(w \cdot L^4) / (185 \cdot E \cdot I)$
= 0.060 in
= $L/1400 > L/180$ **Therefore OK**

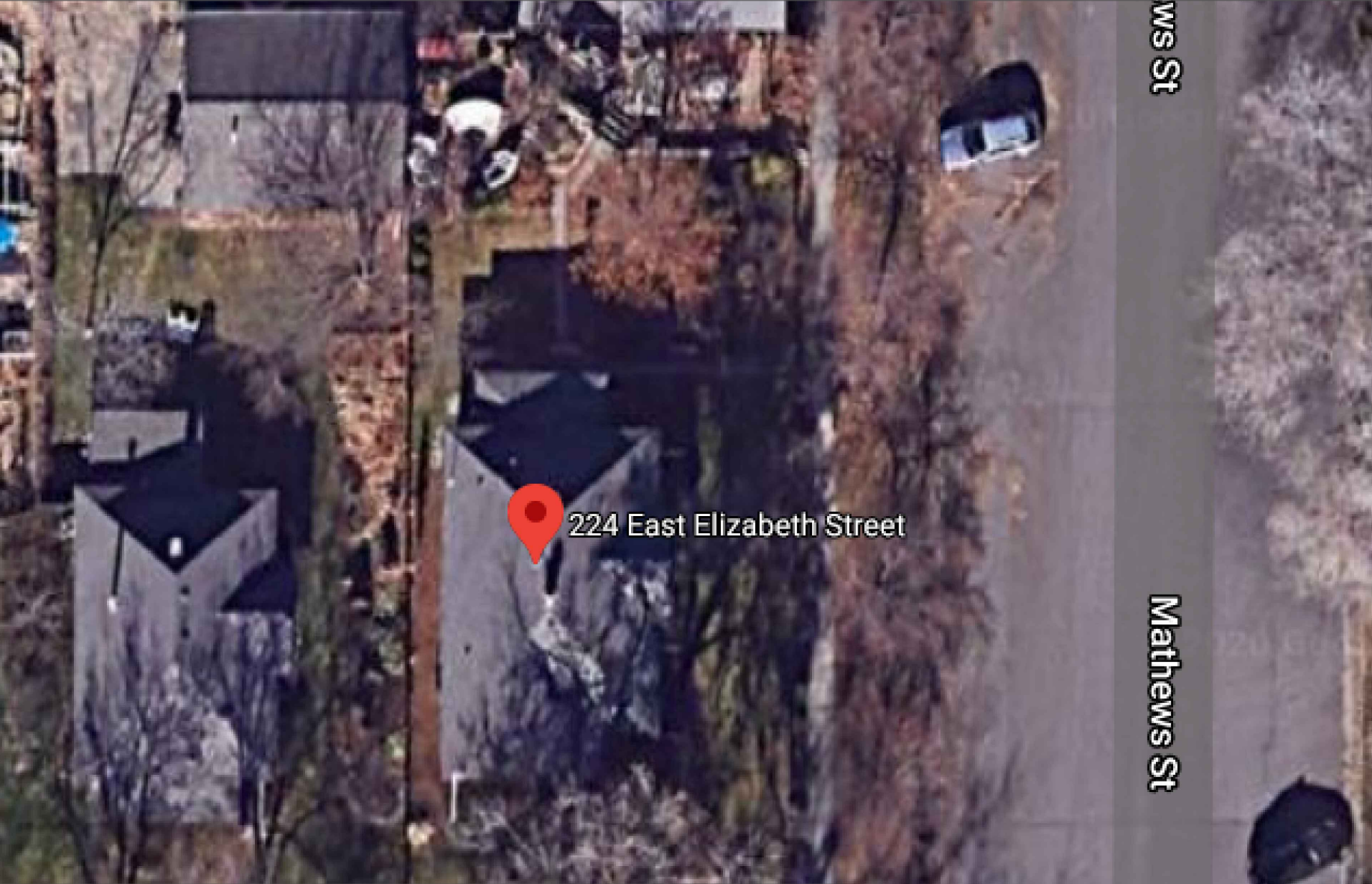


Allowed Deflection (Live Load) = $L/240$

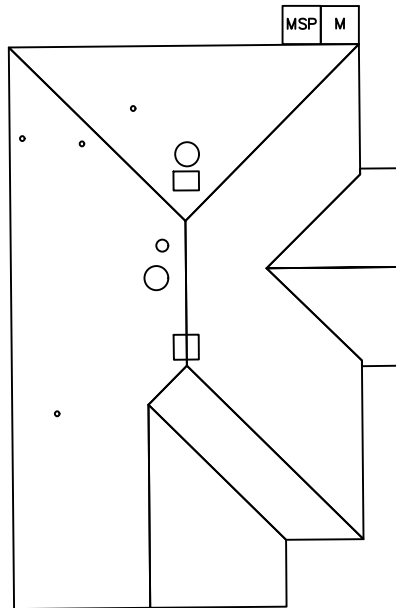
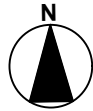
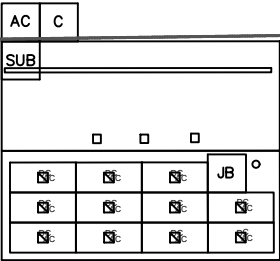
0.35 in
Actual Deflection (Live Load) = $(w \cdot L^4) / (185 \cdot E \cdot I)$
0.041 in
 $L/2049 > L/240$ **Therefore OK**

Check Shear

Member Area = 8.3 in² Fv (psi) = 180 psi (NDS Table 4A)
Allowed Shear = $F_v \cdot A = 1485 \text{ lb}$ Max Shear (V) = $w \cdot L / 2 = 311 \text{ lb}$

Allowed > Actual -- 21% Stressed -- Therefore, OK

<div>GENERAL NOTES</div> <div><div>CODES AND STANDARDS</div><div>1. ALL WORK SHALL COMPLY WITH 2020 NATIONAL ELECTRIC CODE (NEC), 2018 INTERNATIONAL BUILDING CODE (IBC), 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), 2018 INTERNATIONAL PLUMBING CODE (IPC), AND ALL STATE AND LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.</div><div>2. DRAWINGS HAVE BEEN DETAILED ACCORDING TO UL LISTING REQUIREMENTS.</div></div> <div><div>SITE NOTES / OSHA REGULATION</div><div>1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.</div><div>2. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.</div><div>3. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.</div><div>4. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SHALL SERVE TO PROTECT THE BUILDING OR STRUCTURE.</div></div> <div><div>SOLAR CONTRACTOR</div><div>1. MODULE CERTIFICATIONS WILL INCLUDE UL1703, IEC61646, IEC61730.</div><div>2. IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.</div><div>3. AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USED IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.</div><div>4. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS.</div><div>5. CONDUIT POINT OF PENETRATION FROM EXTERIOR TO INTERIOR TO BE INSTALLED AND SEALED WITH A SUITABLE SEALING COMPOUND.</div><div>6. DC WIRING LIMITED TO MODULE FOOTPRINT W/ ENPHASE AC SYSTEM.</div><div>7. ENPHASE WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/ SUITABLE WIRING CLIPS.</div><div>8. MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC UNLESS NOT AVAILABLE.</div><div>9. ALL INVERTERS, MOTOR GENERATORS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AC PHOTOVOLTAIC MODULES, DC COMBINERS, DC-TO-DC CONVERTERS,SOURCE CIRCUIT COMBINERS, AND CHARGE CONTROLLERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (B).</div><div>10. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE.</div><div>11. TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL CONNECTIONS.</div></div> <div><div>EQUIPMENT LOCATIONS</div><div>1. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26].</div><div>2. EQUIPMENT INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY [NEC 690.31 (A)] AND [NEC TABLE 310.15 (B)].</div><div>3. ADDITIONAL AC DISCONNECTS SHALL BE PROVIDED WHERE THE INVERTER IS NOT ADJACENT TO THE UTILITY AC DISCONNECT, OR NOT WITHIN SIGHT OF THE UTILITY AC DISCONNECT.</div><div>4. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.</div><div>5. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.</div></div>	<div>AERIAL VIEW</div> <div></div>		<div><div></div><div>1403 N RESEARCH WAY, BUILDING J OREM, UT 84097</div><div>800-377-4480 WWW.BLUERAVENSOLAR.COM</div><div>CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT BLUERAVENSOLAR NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE RECIPIENTS ORGANIZATION, EXCEPT IN CONNEC TION WITH THE SALE AND USE OF THE RESPECTIVE EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF BLUERAVENSOLAR LLC.</div><div><div></div><div>PV INSTALLATION PROFESSIONAL</div><div>Scott Gurney # PV-011719-015866</div></div><div>CONTRACTOR: BRS FIELD OPS 385.498.6700</div></div>
	<div>DESIGN CRITERIA</div> <div>WIND SPEED: 140 MPH</div> <div>GROUND SNOW LOAD: 30 PSF</div> <div>WIND EXPOSURE FACTOR: B</div> <div>SEISMIC DESIGN CATEGORY: B</div>	<div>SITE SPECIFICATIONS</div> <div>CONSTRUCTION - V-B</div> <div>ZONING: RESIDENTIAL</div>	<div>SHEET INDEX</div> <div>PV1 - COVER SHEET</div> <div>PV2 - PROPERTY PLAN</div> <div>PV3 - SITE PLAN</div> <div>PV4 - EQUIPMENT & ATTACHMENT DETAIL</div> <div>PV5 - ELECTRICAL SINGLE LINE DIAGRAM</div> <div>PV6 - ELECTRICAL CALCULATIONS & ELECTRICAL NOTES</div> <div>PV7 - MAIN BREAKER DERATE CALCS. (IF NEEDED)</div> <div>PV8 - LABELS & LOCATIONS</div> <div>PV9 - CUSTOM DIRECTORY PLACARD (IF NEEDED - NEC 690.56(B))</div> <div>UTILITY COMPANY:Fort Collins Utilities</div> <div>PERMIT ISSUER: City of Fort Collins</div>
	<div>SCOPE OF WORK</div> <div>INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM</div> <div>3.575 kW DC PHOTOVOLTAIC SOLAR ARRAY</div> <div>ROOF TYPE: Comp Shingle</div> <div>MODULES: (11) REC Solar REC325TP3M</div> <div>INVERTER(S): Enphase IQ7-60-2-US,----</div> <div>RACKING: Unirac SFM Infinity</div>		<div>SITE INFORMATION:</div> <div>John Parks</div> <div>224 East Elizabeth Street</div> <div>Fort Collins, Colorado 80524</div> <div>DRAWING BY</div> <div>Cameron Lawson</div> <div>DATE</div> <div>----</div> <div>PROJECT NUMBER</div> <div>79467490</div> <div>SHEET NAME</div> <div>COVER SHEET</div> <div>PAGE NUMBER</div> <div>PV1</div> <div>REVISION</div> <div>0</div>

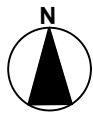
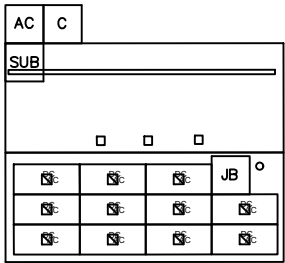


224 East Elizabeth Street

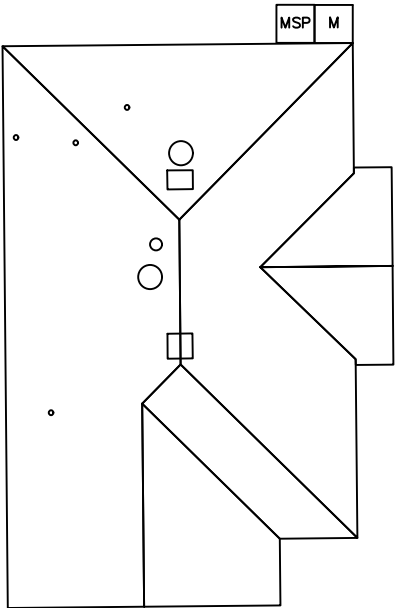
SCALE: 1/16" = 1'-0"



PAGE NUMBER	REVISION
PV2	0



MP1
OF MODULES: 11
AZIMUTH:181°
PITCH:40°
TSRF:80%
AREA: 284 SQ. FT



FRONT OF HOME

LEGEND

- INV INVERTER & DC DISCONNECT
- SUB (E) SUBPANEL
- LC (N) LOAD CENTER
- AC AC DISCONNECT
- M UTILITY METER
- MSP MAIN SERVICE PANEL
- JB JUNCTION BOX
- TS TRANSFER SWITCH
- C COMBINER BOX/AGGREGATOR
- PV PV REVENUE METER
- [Hatched Box] FIRE SETBACK
- [Green Line] EMT CONDUIT RUN (TO BE DETERMINED IN FIELD)
- [Pink Line] PV WIRE STRING
- [Dashed Line] PROPERTY LINE



1403 N RESEARCH WAY, BUILDING J
OREM, UT 84097
800-377-4480
WWW.BLUERAVENSOLAR.COM

CONFIDENTIAL - THE INFORMATION
HEREIN CONTAINED SHALL NOT BE
USED FOR THE BENEFIT OF
ANYONE EXCEPT
BLUERAVENSOLAR NOR SHALL IT
BE DISCLOSED IN WHOLE OR IN
PART TO OTHERS OUTSIDE
RECIPIENTS ORGANIZATION,
EXCEPT IN CONNEC TION WITH THE
SALE AND USE OF THE RESPECTIVE
EQUIPMENT, WITHOUT THE
WRITTEN PERMISSION OF
BLUERAVENSOLAR LLC.



CONTRACTOR:
BRS FIELD OPS
385.498.6700

Sealed For Existing Roof
& Attachment Only



SITE INFORMATION:
John Parks
224 East Elizabeth Street
Fort Collins, Colorado 80524

DRAWING BY
Cameron Lawson

DATE

PROJECT NUMBER
79467490

SHEET NAME
SITE PLAN

PAGE NUMBER
PV3

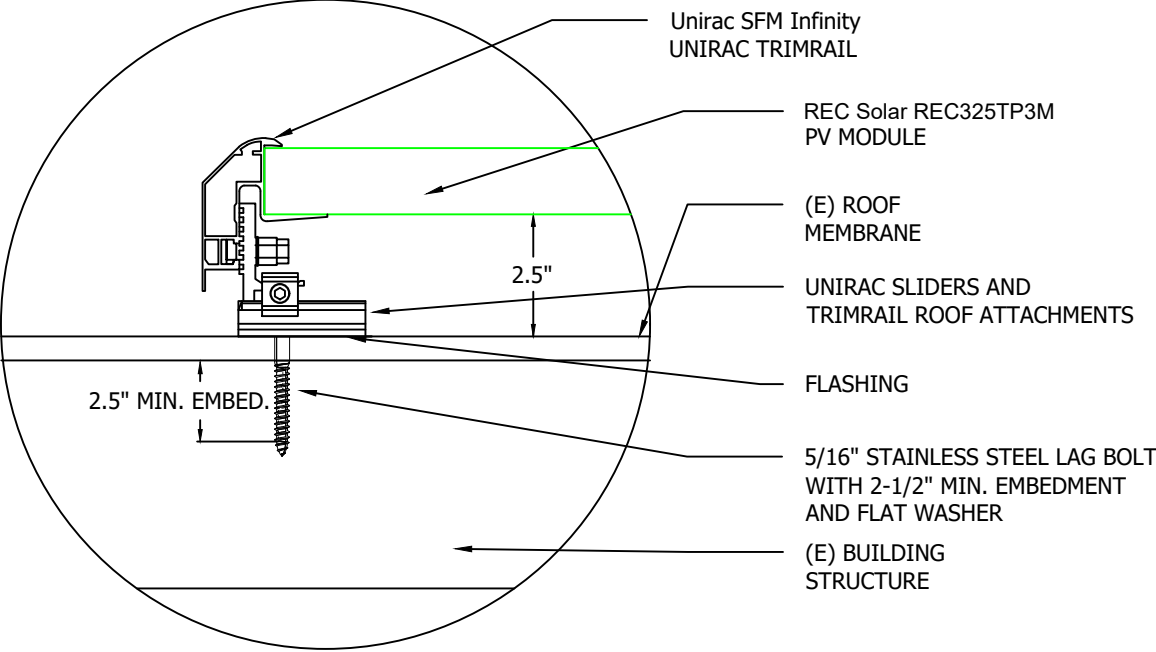
REVISION
0

PV ARRAY INFORMATION

PV MODULE COUNT: 11 MODULES
OF ATTACHMENT POINTS: 19
ARRAY AREA: Module Count x 17.51ft² = 192.6ft²
ROOF AREA: 568.0ft²
% OF ARRAY/ROOF: 33.9%
ARRAY WEIGHT: Module Count x 50lbs = 550.0lbs
DISTRIBUTED LOAD: Array Weight ÷ Array Area = 2.86 lbs/ft²
POINT LOAD: Array Weight ÷ Attachments = 28.9lbs/attachment

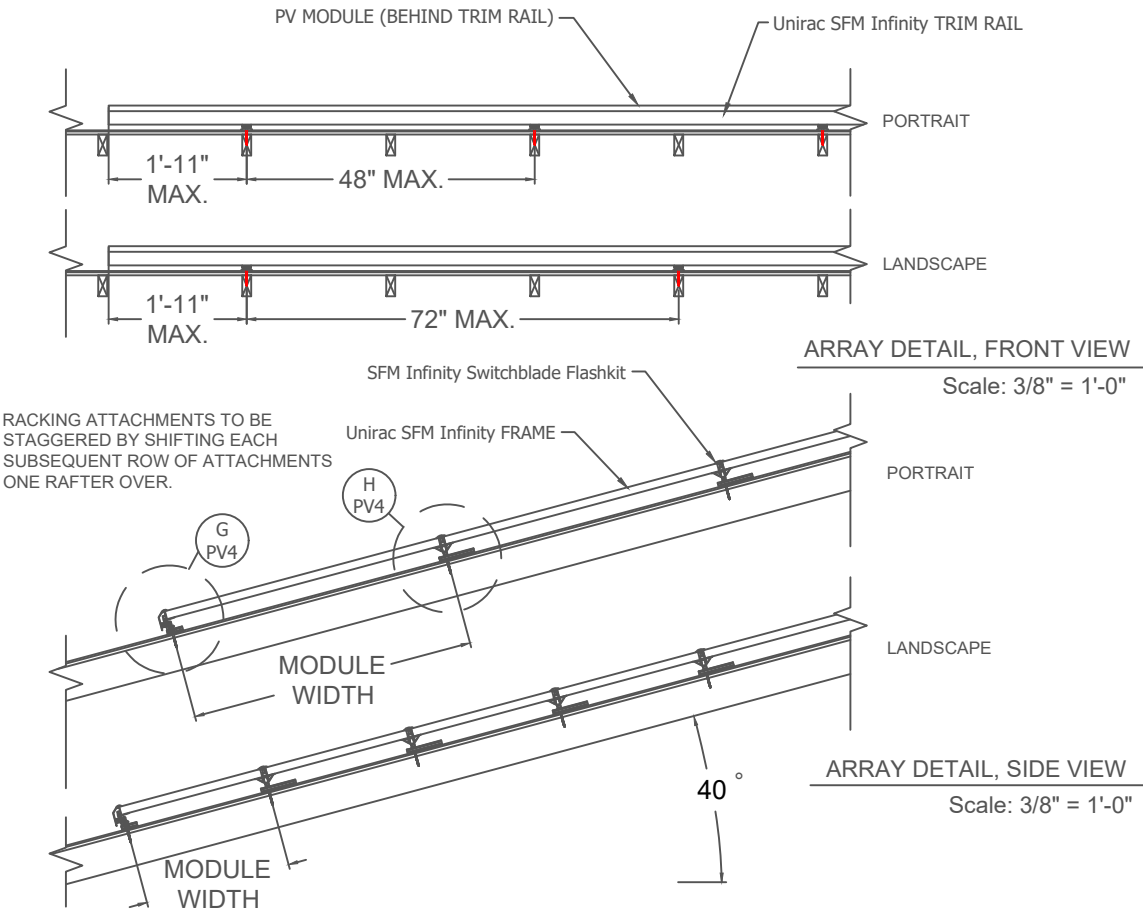
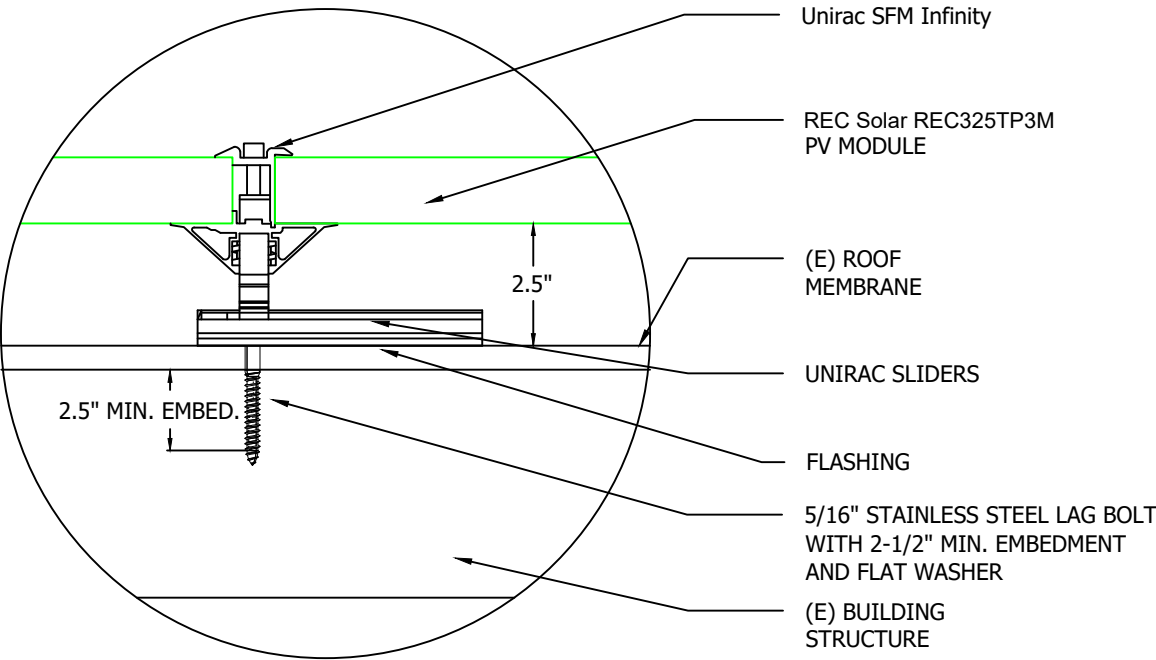
DETAIL, BOTTOM STANDOFF
Scale: 3" = 1'-0"

G



DETAIL, MIDDLE/TOP STANDOFF
Scale: 3" = 1'-0"

H



ROOF TYPE: Comp Shingle
ROOF FRAMING TYPE: Manufactured Truss
RAFTER OR TOP CHORD(TRUSS) 2x6 @ 24"O.C.
CEILING JOIST OR BOTTOM CHORD(TRUSS) 2x6 @ 24"O.C.

Sealed For Existing Roof
& Attachment Only



1403 N RESEARCH WAY, BUILDING J
OREM, UT 84097
800-377-4480
WWW.BLUERAVENSOLAR.COM

CONFIDENTIAL - THE INFORMATION
HEREIN CONTAINED SHALL NOT BE
USED FOR THE BENEFIT OF
ANYONE EXCEPT
BLUERAVENSOLAR NOR SHALL IT
BE DISCLOSED IN WHOLE OR IN
PART TO OTHERS OUTSIDE
RECIPIENTS ORGANIZATION,
EXCEPT IN CONNEC TION WITH THE
SALE AND USE OF THE RESPECTIVE
EQUIPMENT, WITHOUT THE
WRITTEN PERMISSION OF
BLUERAVENSOLAR LLC.



CONTRACTOR:
BRS FIELD OPS
385.498.6700

SITE INFORMATION:
John Parks
224 East Elizabeth Street
Fort Collins, Colorado 80524

DRAWING BY
Cameron Lawson

DATE

PROJECT NUMBER
79467490

SHEET NAME
EQUIP. DETAIL

PAGE NUMBER
PV4

REVISION
0