

NOTES:
1. ALL CONDUIT RUNS ON ROOF UNLESS OTHERWISE SPECIFIED.
2. CONDUIT SUPPORTED BY PROPERLY SEALED AND GLUED PT WOOD BLOCKING OR UNISTRUT WITH SEALANT PER ROOFING MANUFACTURERS SPECIFICATIONS.

RENEWABLE
Energy Associates

PO Box 208
Corvallis, OR 97339
541.754.2001

STAMP:

19.72kW DC SOLAR ELECTRIC SYSTEM
N. KILLINGSWORTH
1233 N. KILLINGSWORTH
PORTLAND, OR 97217
PROJECT NUMBER: 1605

SCALE
AS SHOWN
ORIGINAL SIZE 24" X 36"
SHEET SIZE ARCH "D"

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REVISIONS
1/12/16 US RM PERMIT SET

SHEET NO. & NAME
PV3
STRUCTURAL
LAYOUT

Structural Only



4-21-2016

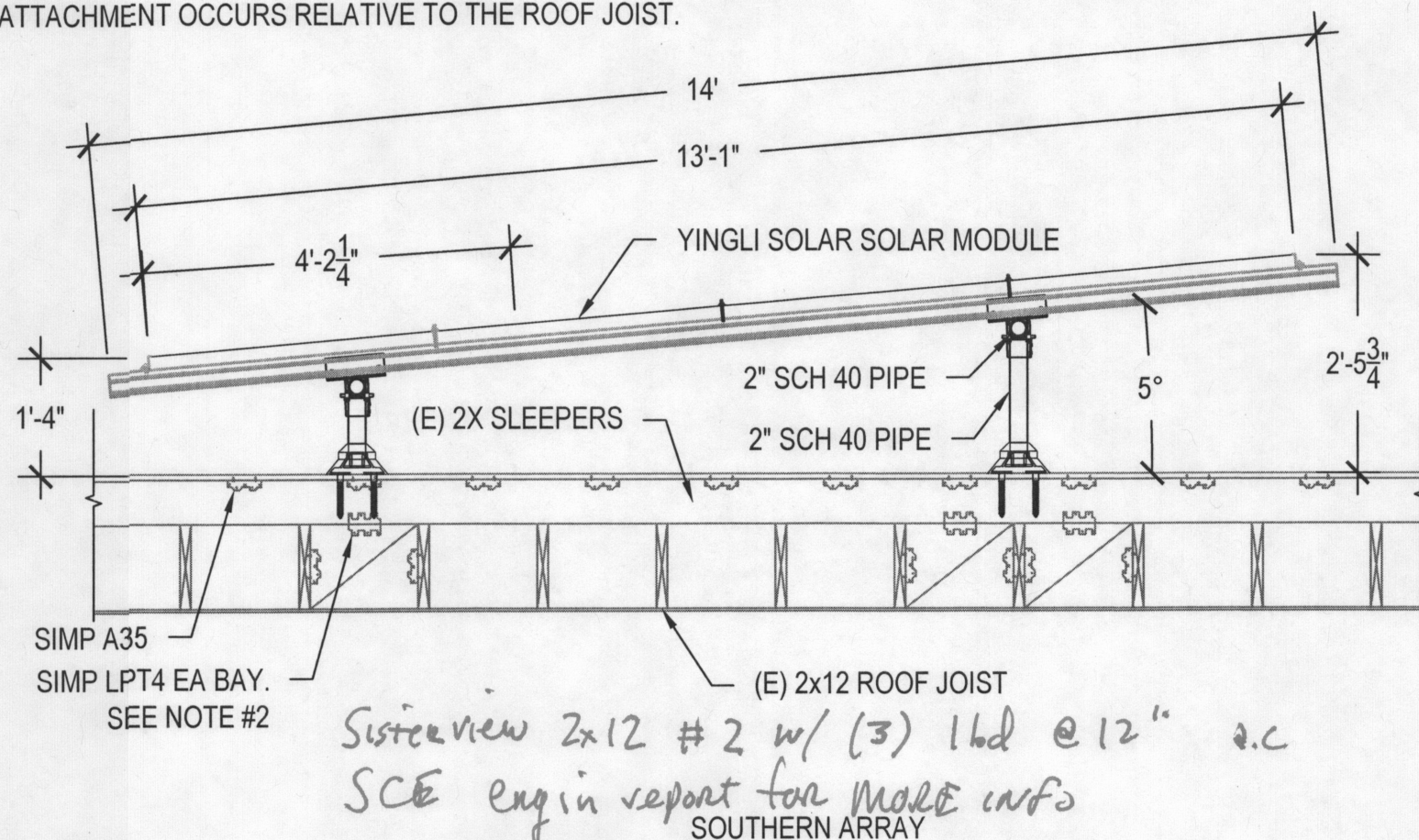
A
PV3
ROOF PLAN
Scale: 3/16" = 1'-0"

SYSTEM MECHANICAL INFORMATION (FOR REFERENCE ONLY)

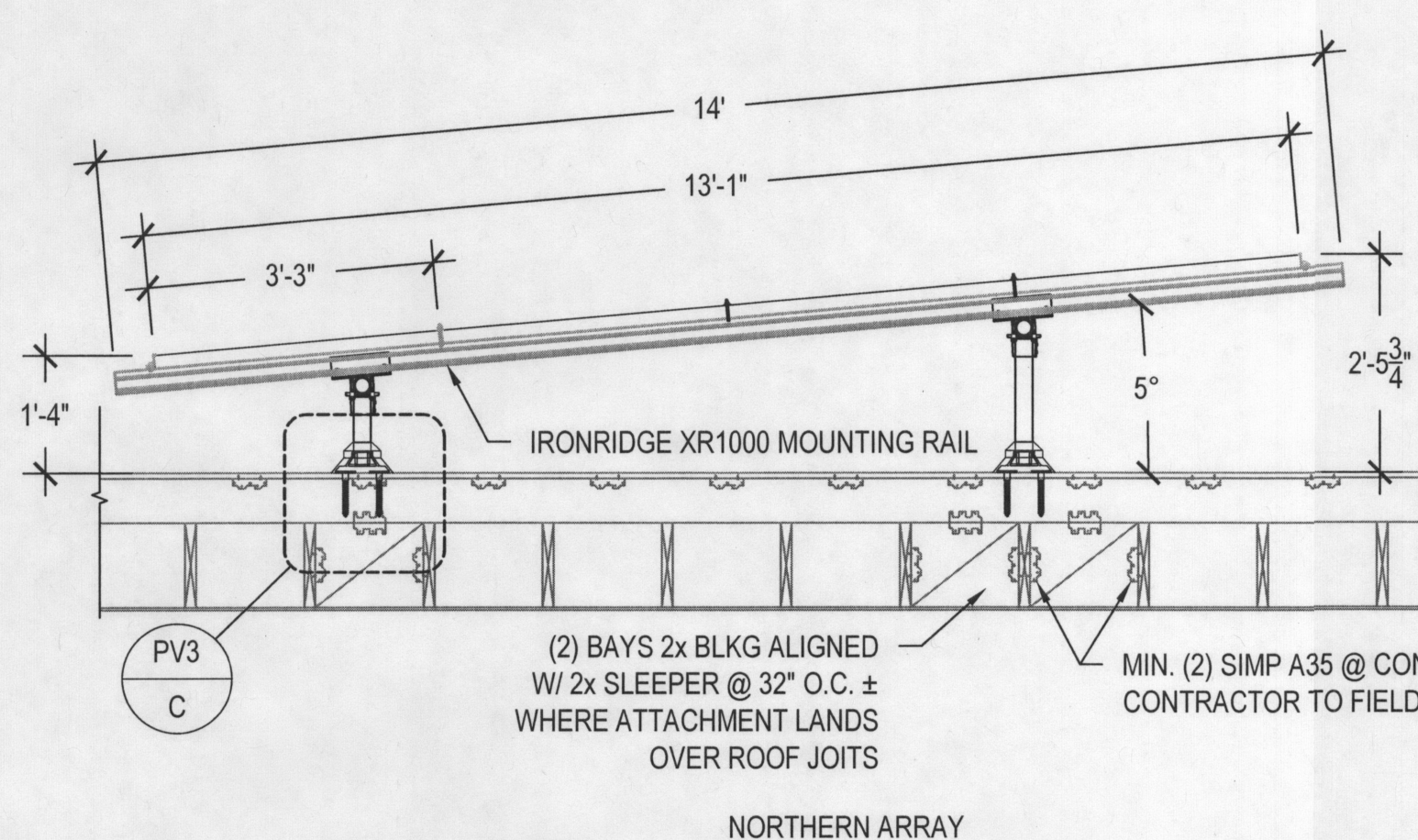
SOLAR MODULE WEIGHT: 56.2 lbs.
MOUNTING RAIL WEIGHT: 1 lbs/ft
SOLAR ARRAY WEIGHT: 4,263.4 lbs
SOLAR MODULE DIMENSIONS: 77.17" X 38.98" X 1.57"
TOTAL ROOF AREA (MEASURED IN PLAN VIEW): 7,517 ft²
SOLAR ARRAY AREA: 1,420.5 ft², MEASURED IN PLAN VIEW: 2,830.2 ft²
ARRAY AREA PERCENT OF ROOF (MEASURED IN PLAN VIEW): 18.8 %
SOLAR ARRAY DEAD LOAD: 3 lbs/ft²
SOLAR ARRAY ATTACHMENT TYPE: IRONRIDGE SGA
ATTACHMENT QUANTITY: 32 @ 96in MAX. SPACING
SOLAR ARRAY WEIGHT PER ATTACHMENT: 133.2 lbs
SOLAR ARRAY MOUNTING RAIL TYPE: IRONRIDGE XR1000
ROOF FRAMING: 2X12 JOISTS @ 16" O.C.

NOTES:

- IRONRIDGE SGA WATERPROOFING METHOD PER MANUFACTURERS INSTRUCTIONS.
- CONTRACTOR TO PROVIDE NEW LPT4 ON OPPOSITE SIDE, TYP. AT BAYS THAT SUPPORT PANEL CONNECTIONS.
- CONTRACTOR TO PROVIDE NEW 2X BLOCKING AT BAYS SUPPORTING PANEL CONNECTIONS DEPENDING ON WHERE ATTACHMENT OCCURS RELATIVE TO THE ROOF JOIST.

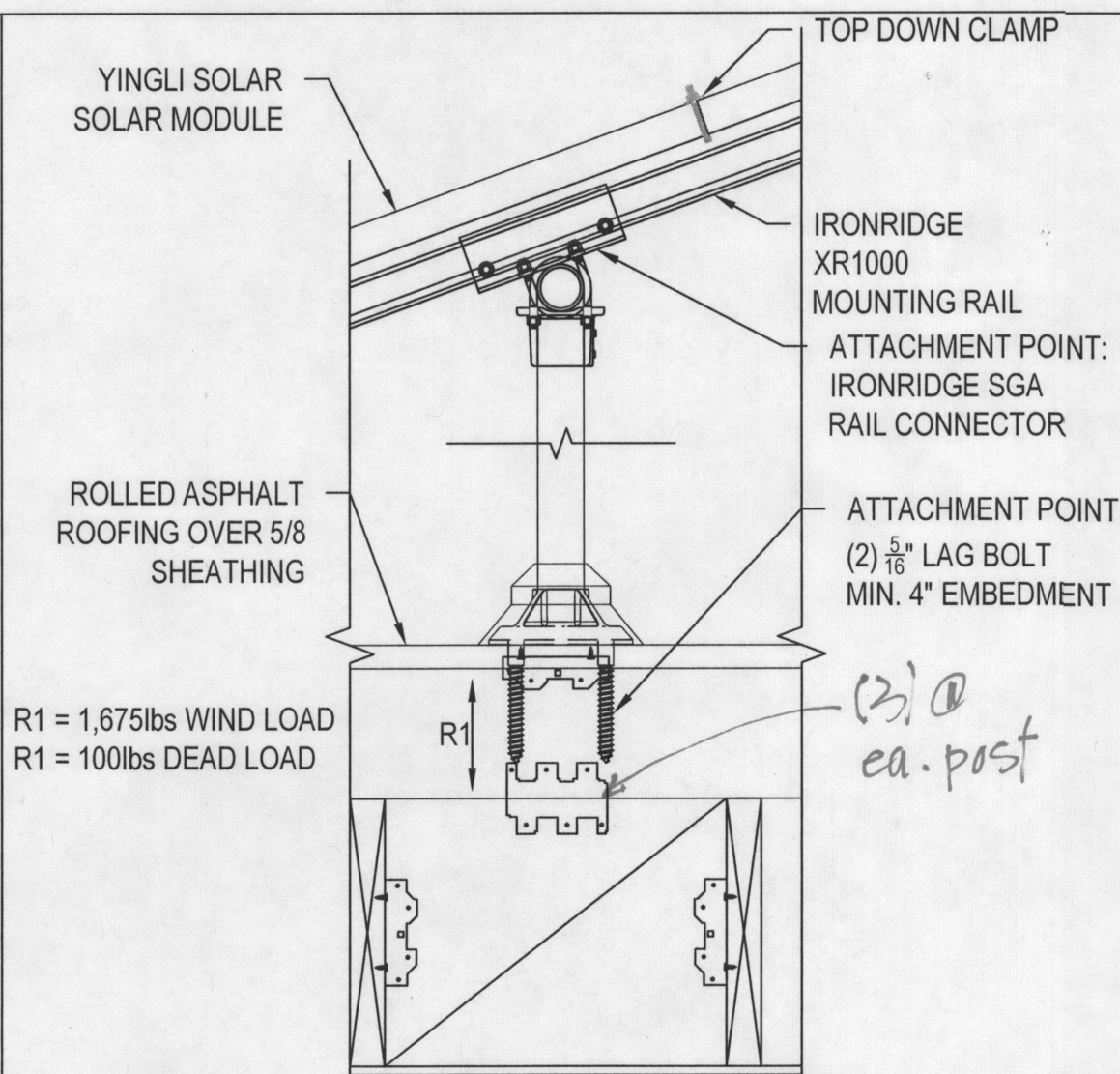
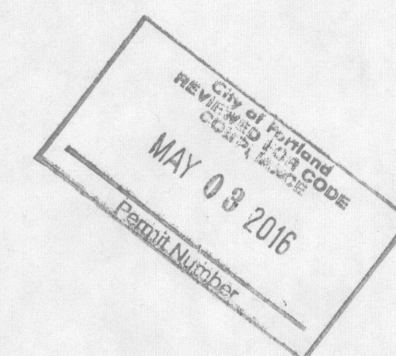


B
PV3
SECTION DETAIL
Scale: 1/2" = 1'-0"



NORTHERN ARRAY

PV GENERATION METER
PV AC DISCONNECT
PV GENERATION METER
PV AC DISCONNECT
UTILITY CT METER
AND PCC



C
PV3
ATTACHMENT DETAIL
Scale: NTS

VECTOR
ENGINEERS
9138 S. STATE STREET, SUITE 101
SANDY, UT 84070
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: # U1944-006-161
ROGER T. ALWORTH, S.E.: 78187 PE

DWG. LOCATION: \\REA\State\Projects 2016\NWPE\16-05 1233 N Killingsworth\NEW CAD\CAD

PRINT DATE: 4/20/2016 2:35 PM



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds



Permit Revision Application and Submittal Requirements

A Permit Revision is required when there are proposed changes to the project after the permit has been issued. This may arise due to discrepancies between the city-approved permit drawings and actual field conditions, or the customer has changed their mind about an aspect of the project. In all cases, a revision to the existing permit must be submitted, reviewed and approved.

Applicants will provide:

☒ A copy of this application

☒ Three (3) sets of plans that clearly reflect the proposed change(s).

Drawings and calculations must be stamped and signed by the Architect and/or the Engineer of Record, if applicable.

☒ One (1) copy of the original city approved permit drawings. (NOTE: If your project has an assigned process manager please contact them regarding submittal of the revision).

☒ Two (2) sets of calculations, if applicable

☒ Inspector's correction notice, if revision is due to an inspection correction

☒ Revision fee (paid at time of submittal)

Contact Information:

Contact name Kirk Cameron

Address 10720 SW MOAPA Ave

City Port State OR Zip Code 97219

Phone 503 203 4046 Email kirk@nwphotowenergy.com

Value of proposed revision 0 Issued permit # 16-145540 CO

Description of revision SHOW ROOF AS IS vs what was

originally provided

Fees:

The Permit Revisions are subject to fees associated with plan review, processing and any increase in project value. Additional fees may apply if adding plumbing fixtures.

The Bureau of Development Services fee schedule is available under the fees tab on the BDS web site at: www.portlandoregon.gov/bds. Fees are updated annually on July 1st.

Helpful Information:

Bureau of Development Services
City of Portland, Oregon
1900 SW 4th Avenue, Portland, OR 97201
www.portlandoregon.gov/bds

Submit your plans in person to:

Development Services Center (DSC), First Floor,
For Hours Call 503-823-7310 | Select option 1

Important Telephone Numbers:

BDS main number 503-823-7300
DSC automated information line 503-823-7310
Building code information 503-823-1456
BDS 24 hour inspection request line 503-823-7000
Residential information for
one and two family dwelling 503-823-7388
General Permit Processing and
Fee Estimate info 503-823-7357
City of Portland TTY 503-823-6868