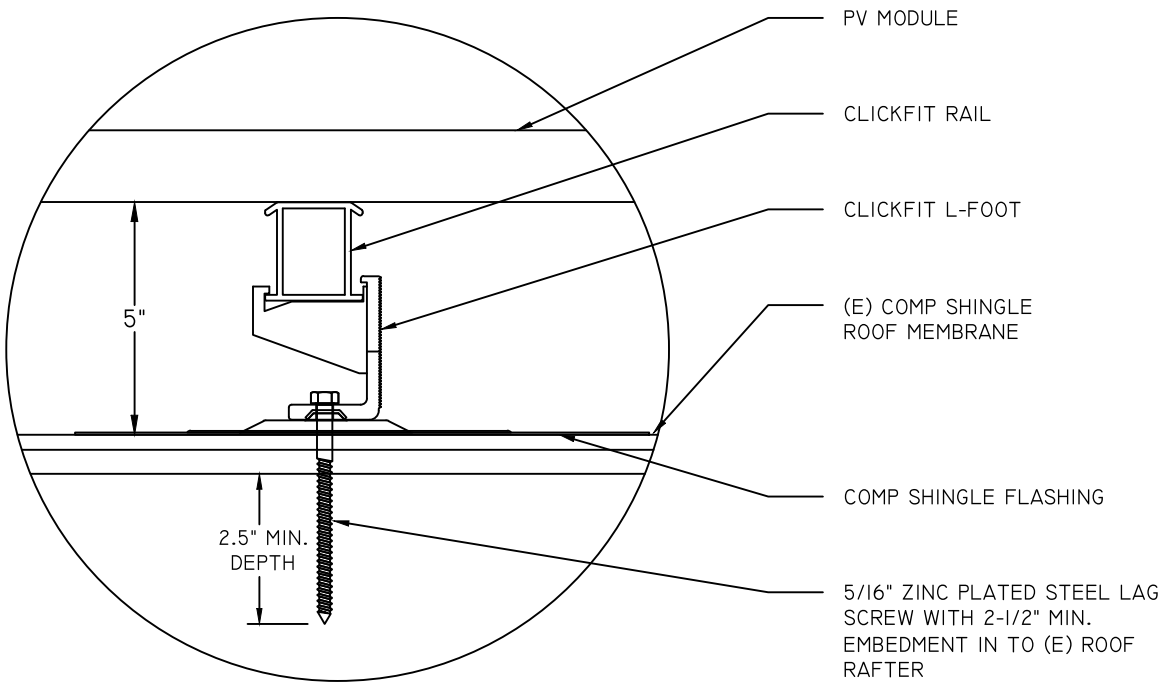
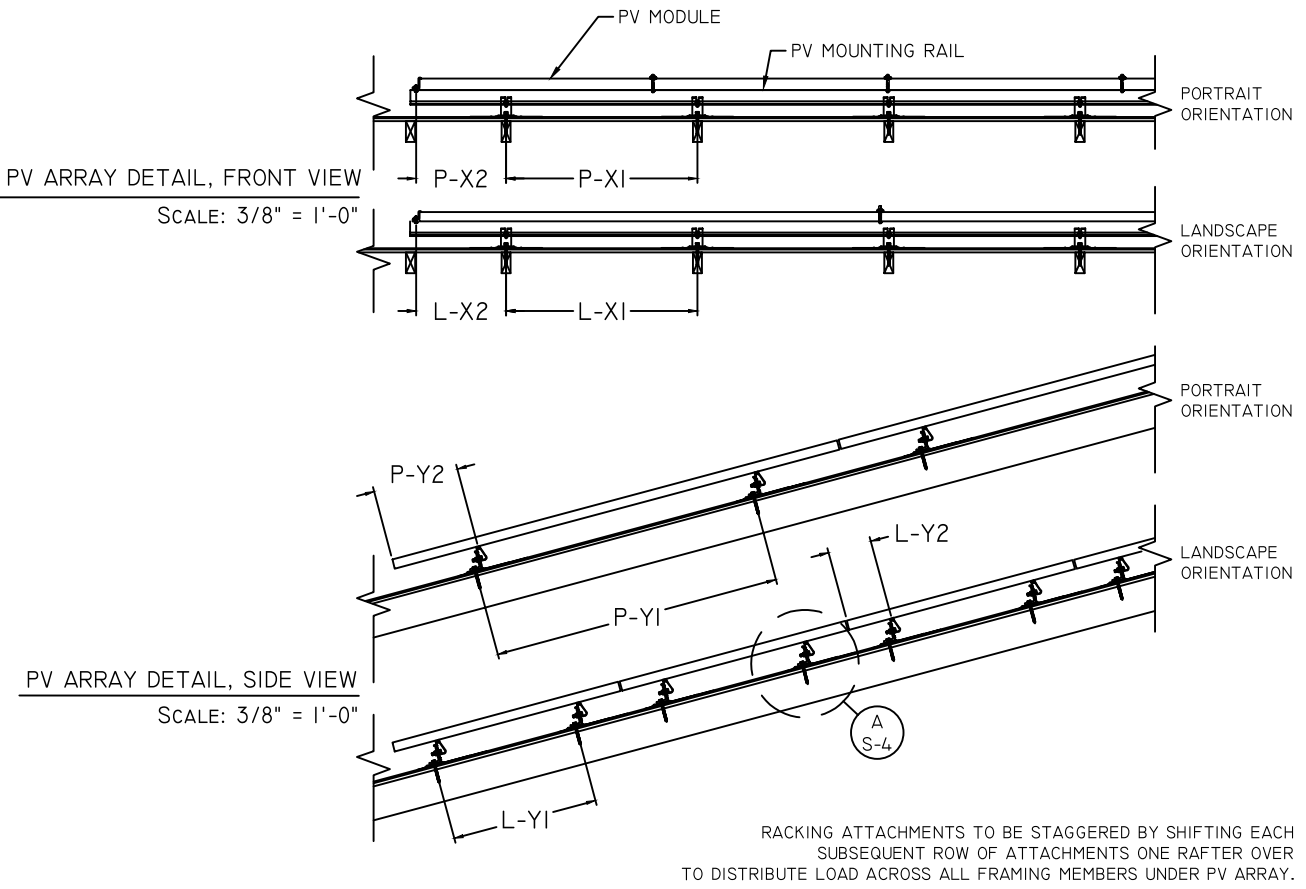


| STRUCTURAL INSTALLATION SCHEDULE AND CRITERIA | | | | |
|---|--|---------------------------------------|--------------------------------------|-------------------------------|
| ROOF MEMBRANE | | SPAN AREA | TAG | SPAN |
| COMPOSITION SHINGLE | | RAIL - PORTRAIT - MODULE ORIENTATION | | |
| LUMBER AND PLYWOOD | | X- SPACING | P-X1 | 32 IN. O.C. MAX. |
| X CANTILEVER | | P-X2 | 10.666666666667 IN. MAX. | |
| Y- SPACING | | P-Y1 | 41.3 IN. MIN. - 45.3 IN. MAX. | |
| Y- CANTILEVER | | P-Y2 | 15 IN. MIN. - 17 IN. MAX. | |
| RAIL - LANDSCAPE - MODULE ORIENTATION | | X- SPACING | L-X1 | 32 IN. O.C. MAX. |
| X- CANTILEVER | | L-X2 | 10.666666666667 IN. MAX. | |
| Y- SPACING | | L-Y1 | 21.1 IN. MIN. - 25.1 IN. MAX. | |
| Y- CANTILEVER | | L-Y2 | 7.9 IN. MIN. - 9.8 IN. MAX. | |
| TOTAL ROOF AREA (SQ. FT.) | | RAIL - LANDSCAPE - MODULE ORIENTATION | | |
| TOTAL PV MODULE AREA (SQ. FT.) | | X- SPACING | L-X1 | 32 IN. O.C. MAX. |
| % PV MODULE ROOF COVERAGE | | X- CANTILEVER | L-X2 | 10.666666666667 IN. MAX. |
| PV RACKING | | Y- SPACING | L-Y1 | 21.1 IN. MIN. - 25.1 IN. MAX. |
| ECOFASTEN CLICKFIT STANDARD | | Y- CANTILEVER | L-Y2 | 7.9 IN. MIN. - 9.8 IN. MAX. |
| RAIL | | STRUCTURAL FRAMING | | |
| ECOFASTEN CF UNIV L-FOOT | | ROOF SECTION | STRUCTURE TYPE | RAFTER / TC SIZE (IN) |
| MILL 3" | | RSI | CONVENTIONAL FRAMING | 2x4 |
| L-FOOT & FLASHING | | RAFTER / TC SPACING (IN) | STRUCTURAL UPGRADE | UPGRADE SIZE & LENGTH (FT) |
| 5/16" X 3-1/2" ZINC PLATED | | | UPGRADE - UPSIZED FULL SISTER (2.5x) | 2x6, FULL LENGTH |
| STEEL LAG SCREW | | | | |

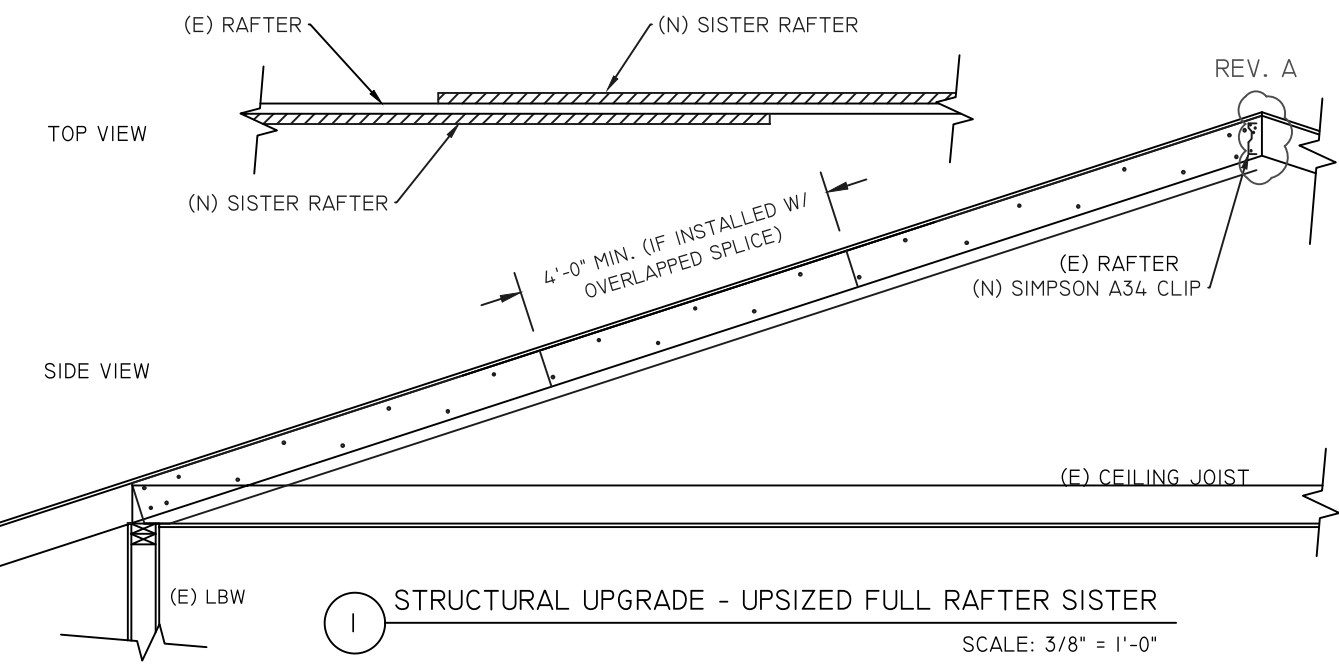
24-016061 REV 01 RS



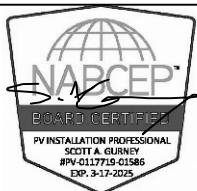
A COMP SHINGLE - CLICKFIT LFOOT / FLASHING - STANDOFF DETAIL
SCALE: 3" = 1'-0"



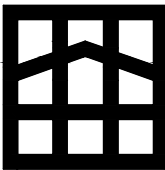
- STRUCTURAL UPGRADE REQUIRED - FULL RAFTER SISTER**
1. INSTALL (N) FULL SISTER FULL LENGTH OR OVERLAPPED W/ SPLICE TO (E) RAFTERS TO OCCUR ONLY UNDER PV ARRAY.
 2. SECURE WITH (N) 10D SINKERS @ 6" O.C. STAGGERED.
 3. SECURE EACH END WITH 3 SCREWS OR NAILS GROUPED WITHIN 6" OF EACH END.
 4. SECURE TOP END TO EXISTING RIDGE BOARD WITH (N) SIMPSON A34 CLIP.



I STRUCTURAL UPGRADE - UPSIZED FULL RAFTER SISTER
SCALE: 3/8" = 1'-0"



ION DEVELOPER LLC
DAVID STANLEY CONRAD
C - ELECTRICAL CONTRACTOR
C1524



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OREM, UTAH 84057
888.781.7074

| | | |
|------------------|-----|---|
| PROJECT ID | | 00C3NF |
| SITE OWNER | | SUSAN L CUNNINGHAM |
| SITE ADDRESS | | 1024 SOUTHEAST LAMBERT STREET PORTLAND, OREGON 97202 |
| EQUIP. | | (8) SILFAB SOLAR SIL-420 HC+ (8) ENPHASE IQ8PLUS-72-2-US |
| SYSTEM SIZE | | 3.36KW DC 2.32KW STC-AC, 2.998KW CEC-AC |
| PROJECT DESIGNER | | IAN FAHL |
| DATE | | 29-APR-2024 |
| SHEET NAME | | STRUCTURAL DETAILS |
| SHEET # | REV | |
| S-4 | A | |