



STANDARD 42 SOLAR PANELS, 2 STORY BUILDINGS, WITH FLAT ROOFS
ADOPTED OCTOBER 2014, RESOLUTION 01-14-130
GENERAL REQUIREMENTS REVISED JANUARY 2016, RESOLUTION 01-16-08
REVISED MARCH 2023, RESOLUTION 01-23-15

1.0 GENERAL REQUIREMENTS

SEE STANDARD SECTION 1: GENERAL REQUIREMENTS

2.0 APPLICATIONS

- 2.1** Solar Panel refers to roof mounted panels that use solar energy to either heat water directly (Solar Water Heating System), or to generate electricity using photo-voltaic cells (Solar Electric System).
- 2.2** This section refers to two story dwellings with shared flat roof space. The system shall be designed so the panel array does not encroach outside of the area allocated on the roof for each owner of a manor. Refer to Pages 8, 9, 10 and 11 for roof allocation on flat roofs of 6-, 8-, and 12-unit buildings respectively. The designated areas will be on a first come, first serve basis.
- 2.3** All costs and maintenance of the alteration, present and future are the responsibility of the Mutual Member.
- 2.4** All costs associated with roof replacement above and beyond the typical cost for roof replacement that is due to the solar panel installation shall be borne by the Member(s).
- 2.5** Detailed, site-specific plans, including all water and electrical lines for the solar panel installation, penetrations, shall be submitted to Manor Alterations for approval.
- 2.6** Structural details and calculations for the installation of the proposed solar system existing roof structure, signed and wet-stamped by a California-licensed structural engineer are required to ensure the solar



panel system does not compromise the existing roof structure and that the roof is adequate to accept attachments and to support all applied loadings. Consult with the City for additional requirements

- 2.7** Solar Panels installed on any PVC Flat Roof under warranty with the Mutual's reroofing contractor shall require the roofing contractor holding the warranty to complete the roof tie-in work at the Member's expense. PVC Flat roofs that remaining under the Johns Manville materials warranty shall require a Johns Manville (JM) Approved Contractor perform the tie-in work at the Member's expense.
- 2.8** Flat roof mounting shall be set with the highest point flush with the top of the parapet wall so as to be hidden from the ground or surrounding properties. The lowest point of the solar array equipment shall be a minimum of 10 inches above the flat roof. The top of the stanchions used to connect the array to the roof shall be water tight and meet or exceed all current I.C.C. (International Code Council), State and City Standards.
- 2.9** The solar panel array must be located a minimum of 3 feet from the edge of the roof; and a minimum of 3 feet shall be maintained between rows of solar panels, and between any architectural features such as, but not limited to skylights, mechanical equipment, and vent pipes in order to enable proper access for maintenance.
- 2.10** Water and electric lines must be set on blocking above the surface to facilitate re-roofing.
- 2.11** Detailed plans of the installation of roof jacks should be submitted to Manor Alterations for approval, and installation of roof jacks, including hot mopping and/or flashing, is required to be completed during the original installation.
- 2.12** Lag screws must have adequate pullout strength and shear capacities.
- 2.13** The installer is responsible for maintaining the waterproof integrity of the roof.



- 2.14** Connections to the manor's electrical system must be coordinated with the local electric utility.
- 2.15** Solar Electric Panels, and their associated electrical components, must be UL listed, or comply with equivalent international standards.
- 2.16** A solar panel system may only serve a single manor. Leasing of Solar Panels is not allowed.
- 2.17** All solar panel installations located on the roof of a unit must be inspected and approved by a VMS Inc. Roofing Inspector before the solar array is installed and again, after the roof replacement is complete prior to a final inspection of the Mutual Consent.

3.0 OBLIGATIONS

- 3.1** Member accepts responsibility and agrees to pay for repairs to common areas, including but not limited to roofing, framing, wiring and drywall caused, in whole or in part, by Member's solar panels or their installation, operation, maintenance or removal, and Member accepts all responsibility for damage to Member's Manor or other Manors or to personal property caused or contributed to by the installation, operation, maintenance or removal of the solar panels.
- 3.2** The Member is responsible for, and will bear all costs associated with removing, altering, covering or reinstalling the alteration as may be necessary or appropriate to allow the Mutual to conduct maintenance or repairs of common area. The Mutual will endeavor to give a minimum of thirty (30) days advance written notice (unless it is an emergency) of the need to remove, alter, cover or replace the solar panel. Failure to complete the required work within the allowed time will require that the Mutual perform the removal, alteration or covering at the Member's cost, which will be billed as a Chargeable Service to the Member. Re-installation of any components removed by the Mutual as a chargeable service remains the responsibility of the member.

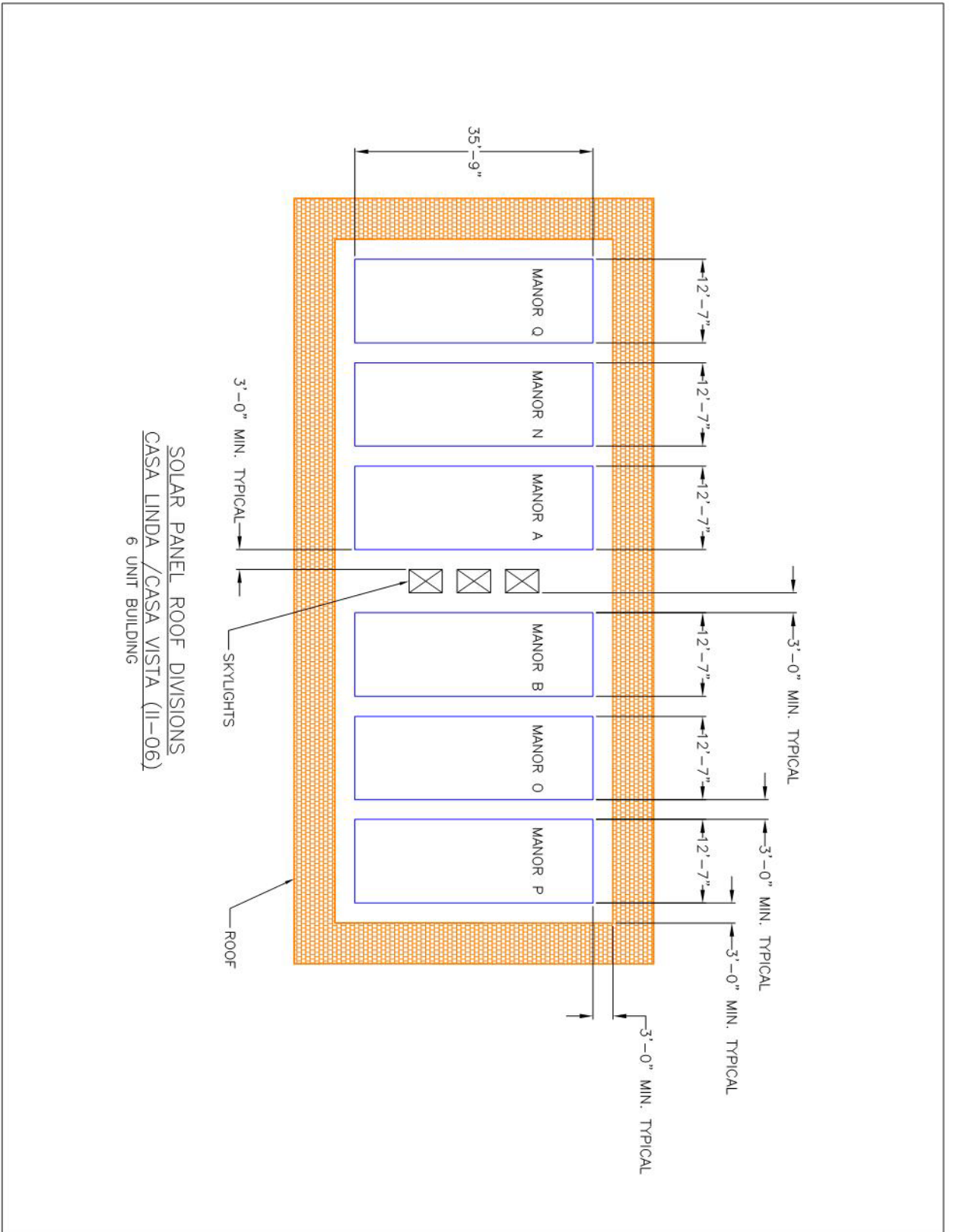


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- 3.3** The Member is responsible for, and will bear all costs associated with, clean-up or repair of Mutual owned or controlled property made necessary by or resulting from the alteration.
- 3.4** All costs associated with roof replacement above and beyond the typical cost for roof replacement due to the solar panel installation shall be borne by the Member(s).
- 3.5** The roof area allocated for solar panel installation is depicted in the attached Roof Allocation plan for each type of 2-story buildings. It is the Member's responsibility to ascertain and adapt to any roof interference by vents or other roof mounted equipment already in place.
- 3.6** Upon sale of Member's Manor, all obligations herein shall apply to all subsequent owners of the Manor.
- 3.7** If Member discontinues use of the solar panels, Member will remove the panels, all associated parts, connections and wiring associated with the solar panels after giving notice to the Mutual through the Alterations Division. Regardless of roof type, the restoration of the roof must be performed by the Mutual's roofing contractor at the Member's expense.
- 3.8** When applicable, the solar installer and his roofer will provide a copy of the composition shingle manufacturer's warranty and will provide a separate labor and materials warranty of 5 years for the composition shingle roof installation. If any leaks occur on a roof so constructed, the solar installer will remove the solar equipment, repair the roof and put back the solar equipment at no cost to the Mutual. If the solar installer/roofer chooses not to comply with this requirement, then the Mutual Roofing Contractor must be hired to do the roofing work at the member's expense.

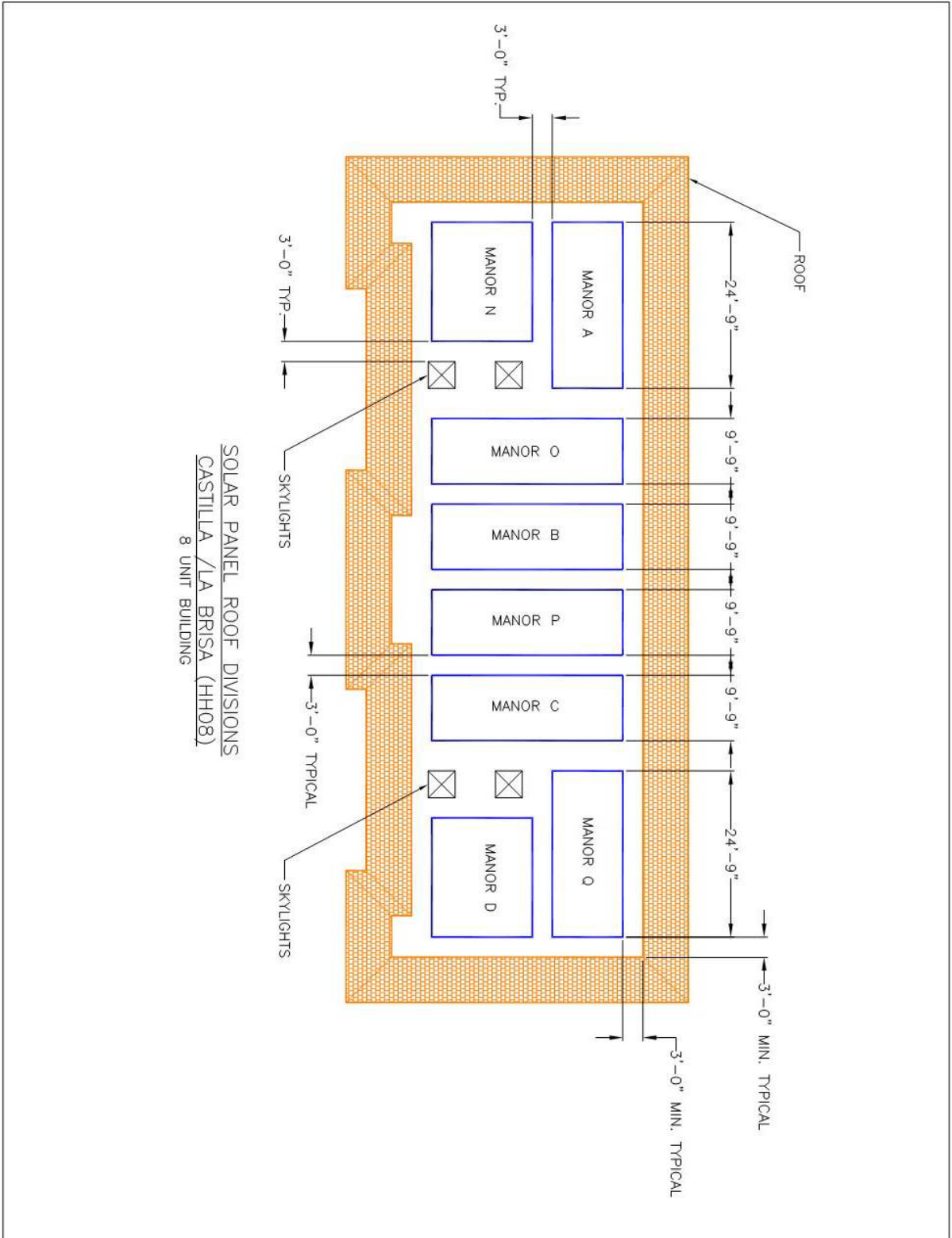


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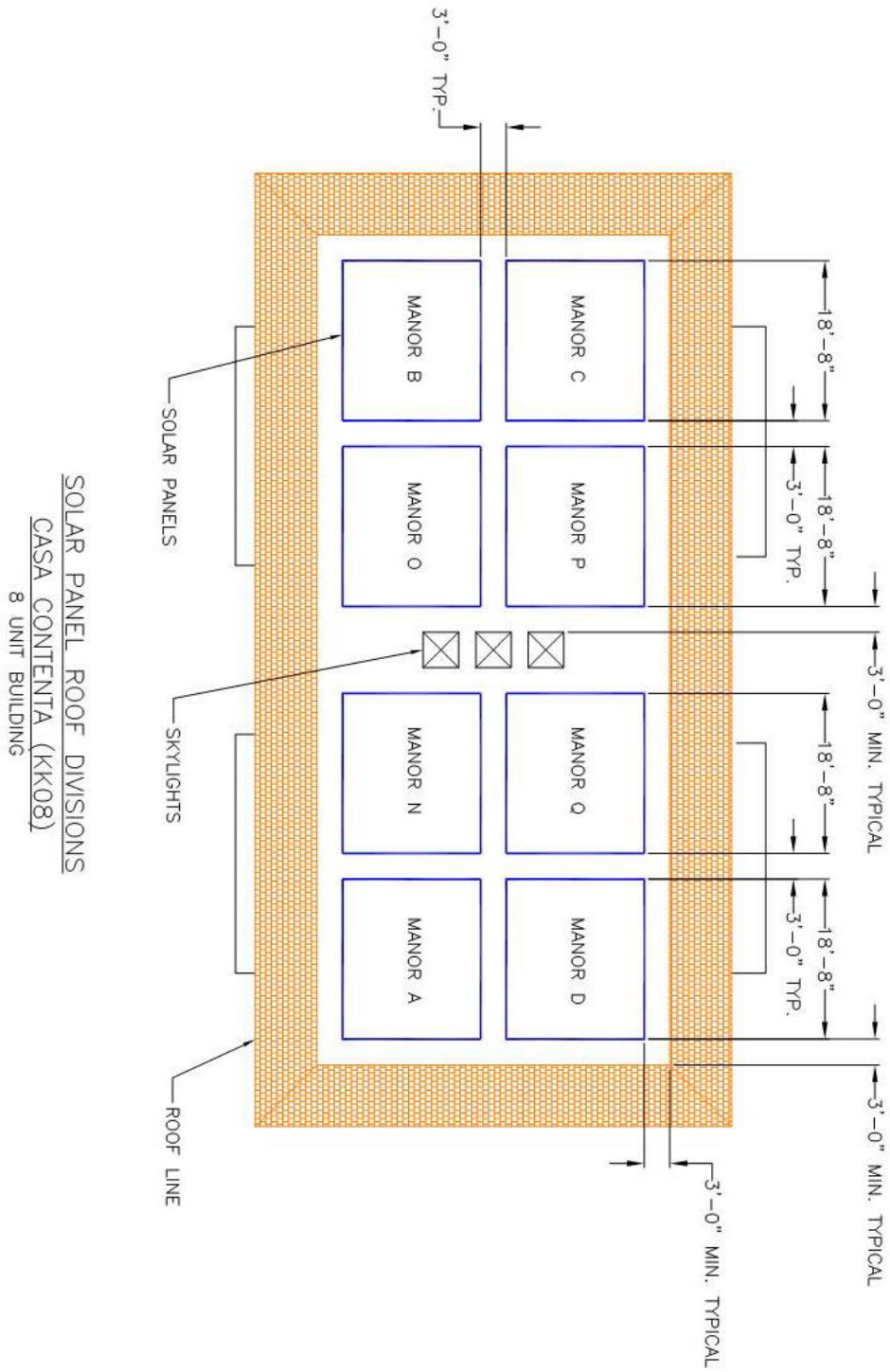


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