

# SOLAR INNOVATIONS® CASE STUDY

Project 9-12-911 | Edition 5 25 2021



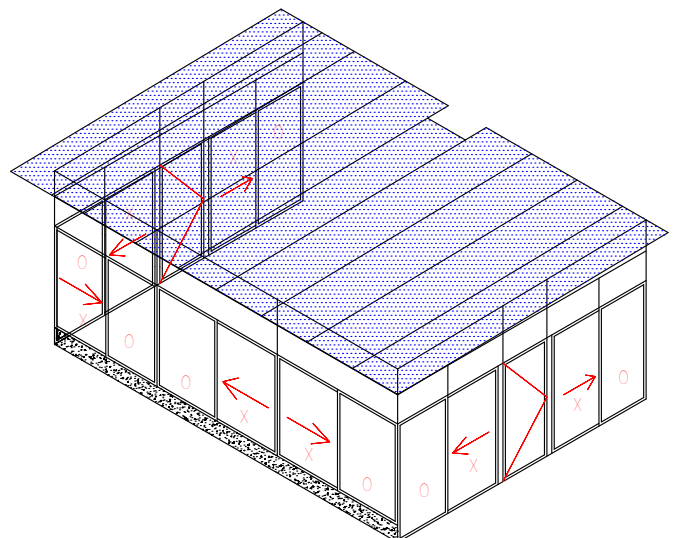
## DINING OUT

A DINING EXPERIENCE THAT CAN BE ENJOYED YEAR-ROUND

### THE CHALLENGE

#### Adding a Dining Space for All Seasons

Restaurant owners from Washington D.C. decided that they wanted to construct an addition to their existing dining area where patrons can engage in the outdoor dining experience while the weather is pleasant and also stay comfortable during the coldest winter days. The owners gave specific requests that the structure includes an insulated roof to keep patrons warm in cold weather while also providing ample ventilation and shade in warmer weather.







## THE SOLUTION

### Attractive Yet Functional Design

With the assistance of the restaurant owners, Solar Innovations designed a contemporary structure that was not only purposeful, but also seamlessly blended into the existing building. One-inch insulated glass was used on the vertical surfaces of the straight eave lean-to unit. For the roof, six-inch foam insulated panels were used, capped with standing seam metal roofing material. For added shade, the roof extends up to 20 inches beyond the glass walls on each side. Four sets of sliding glass doors and three sets of sliding glass windows were used on all three sides of the structure to promote an abundance of airflow during the warmer months. Terrace Doors



served as entrance and egress on the two opposing gable ends. Ultimately, the structure presented patrons with

the opportunity to have an outdoor dining experience throughout all seasons.





## THE OUTCOME

### Structure that Attracts Patrons and Fulfills Demand for More Space

The outcome was an immaculate structure, that ties into the existing restaurant space and can be used by patrons all year. With the additional square footage, the restaurant is less congested, even though more seating was added, and has an airier feel than the experience you get with a fully-indoor dining setting. The restaurant owners can now offer guests an outdoor-like experience with the added benefit of a roof, that will shield them from rain and sun – something their nearby competitors cannot offer. The addition also made the restaurant literally stand out from the competition, as it protruded into the sidewalk area, making it more visible to passersby.



## TECHNICAL SPECIFICATIONS

LOCATION	Washington, DC
TYPE OF SYSTEM	Straight Eave Lean-to Enclosure with 2 Gable Ends
APPLICATION	Commercial/Restaurant
GLAZING	LoE 272 1" Insulated Glass

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