Historic District Commission Meeting

June 24, 2020

Public Hearing Item #1

2108 Main Street – Solar Carport Installation

Over the past several months, the Department of Facilities and the Police Department has been working with a company called, Greenskies to design and install a solar carport in the parking lot behind the main building of the Police Department. Greenskies has been in consultation with the Historic District Commission during the planning and design process to design and locate a carport in a way that will be sensitive to the historic district. Through this planning process, the town developed a design that also revamps the parking lot while providing for an efficient location of the carport and better circulation *flow.*

Attachments:

- *Project Narrative from Greenskies*
- *Cross Sectional View of the Carport*
- *Concept Plan of Parking Lot Layout*

Photos of Existing Parking Lot Showing Location of Proposed Solar Array

ATTN: Barbara Theurkauf, Khara Dodds
Glastonbury Office of Community Development
Town of Glastonbury
2155 Main St
Glastonbury, CT 06033

To Whom It May Concern,

The proposed 140.14 kW DC PV solar carport is to be located at the Glastonbury Police Department, 2108 Main St, Glastonbury, CT 06033, on the southeastern side of the property. The solar array will comprise of ~(364) tier one 385 watt panels mounted to an RBI Solar carport structure at a fixed 7° tilt. The structure will be supported by equidistant columns that are bolted to concrete foundations flush with the grade of the parking lot. The framing of the carport will be galvanized steel by default – there is the option to have the racking manufacturer provide painted steel and those cost options can be discussed with the Town of Glastonbury if the need arises.

The PV system also includes string level inverters mounted on the carport structure. The inverters are powered by parallel strings of modules in series. The AC inverter output power is combined in a PV distribution panel mounted on the exterior of the building – the conduits will be routed below ground from the array to the south side of the main building. From the PV distribution panel, power is fed through a step-up transformer, meter, and disconnect switch, to the point of connection in the existing main electrical room within the building.

The term of the Power Purchase Agreement (PPA) is 20 years at which time Greenskies and the Town of Glastonbury can either extend the term another 5 years or make preparations to have Greenskies decommission the PV system.

Thank you,

Carson Mislick
Project Engineer
Greenskies Clean Energy
127 Washington Ave
North Haven, CT 06473