

Memo

To: Blount County Planning Commission
From: Building commissioner
CC: Other commission members and staff
Date: 5/20/2010
Re: Site plan at 703 William Blount Drive.

Background:

This site plan is for the addition of solar panels at 703 William Blount Drive. The property is identified on tax map 067 and parcel 106.06. The property is zoned C-commercial. The current use is an office building.

The solar panels do exceed thirty inches in height so a permit is required for their installation. The size of the panels are 154.7 inches high with a surface area of 157.25 inches by 197.5 inches. The proposed installation will include seven of these panels located on the North East corner of the lot. There will also be additional modules located on the roof, but should not create a violation of our height requirements.

The setback requirements and buffering will be in compliance according to the proposed site plan. The side setback is grandfathered at 5 feet for this property. It was established on an approved plat prior to the changes we made in our side setback requirements in 2007. At that time they went from five feet to ten feet. The front setback will be greater than the required forty feet and the rear will also exceed the forty feet that is required. Additional buffering will not be required for this installation.

Below you will find a brief summary of the project, a plat, a drawing of the panels, and a modified plat showing the location of the panels on the property.

Nature's Gifts International, LLC - 703 William Blount Dr Maryville, TN 37801

Efficient Energy of Tennessee proposes to install seven top of pole solar photovoltaic arrays on the north east corner of Lot 4R. Each array will be composed of 12 sharp 235w modules. Each array will have a footprint approximately 178 square feet. The top southern roof area of the commercial building will house an additional 36 sharp 235 modules. This will bring the total system size to 28.2 kW. A PVPowered 30kW inverter will set on a concrete pad to the rear of the building. All pole mounted arrays will be connected to the inverter via buried conduit. Site specific engineering and design will be provided for both structural and electrical characteristics of this projects as determined by JHA.

Efficient Energy of Tennessee

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Efficient Energy of Tennessee

Knoxville - Solar America City continues to expand green job skill set

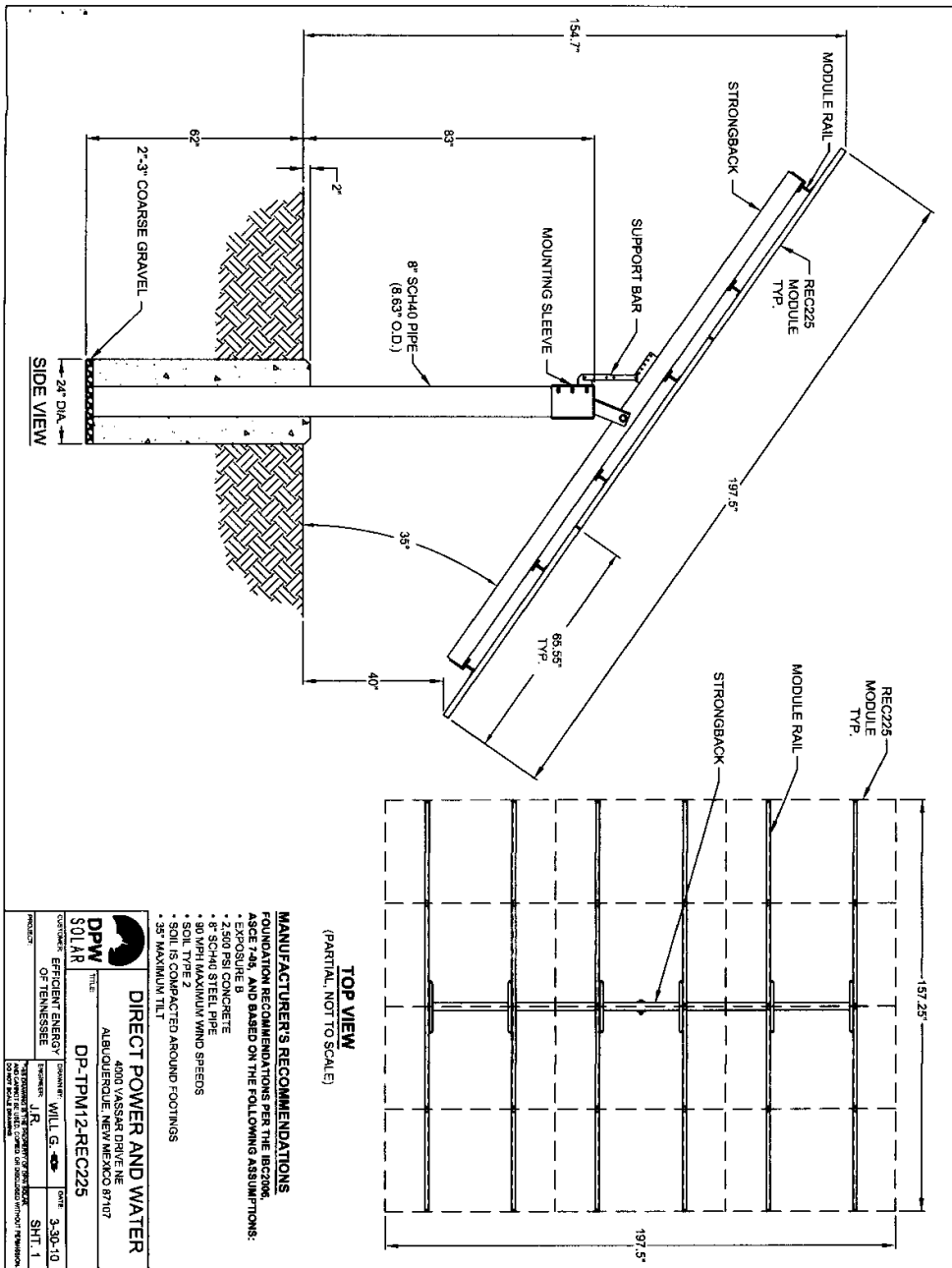


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TOP VIEW
(PARTIAL, NOT TO SCALE)

MANUFACTURER'S RECOMMENDATIONS
FOUNDATION RECOMMENDATIONS PER THE ISC2006, ASCE 7-03, AND BASED ON THE FOLLOWING ASSUMPTIONS:

- EXPOSURE B
- 2,500 PSI CONCRETE
- 4000 PSI
- 90 MPH MAXIMUM WIND SPEEDS
- SOIL TYPE 2
- SOIL IS COMPACTED AROUND FOOTINGS
- 3% MAXIMUM TILT

DIRECT POWER AND WATER

	DPW SOLAR CUSTOMER EFFICIENT ENERGY OF TENNESSEE	4000 VASSAR DRIVE NE ALBUQUERQUE, NEW MEXICO 87107
	TITLE: DP-TPM12-REC225	DATE: 3-30-10
PROJECT:	DRAWN BY: WILL G.	CHECKED BY: J.R.
SHEET:	SHT. 1	

