

Project Name: LSDP 15, LLC.

Project Address: 280 & 0 Old Falmouth Road, Barnstable, MA

Date: 09/30/16

Title: Small Building(s) Demolition Overview

Introduction:

A 4.25MWdc solar project is being proposed at 0 and 280 Old Falmouth Road in Barnstable, MA. Prior to construction of the solar facility three small buildings show below in Figure 1 will need to be demolished utilize the space and make way for solar panel installation. The below provides an overall strategy for the demolition activities associated with the removal of the three small buildings. Work will be performed in a sequenced and safe manner.



Figure 1 – Buildings to be demolished

Sequence of Operations:

The general sequence of work will be as follows:

I. Pre-demolition survey

Identify the general condition of each building and identify utilities and structural integrity of the buildings. In addition, the types of materials that comprise the structure will be identified.

II. Utility abandonment procedures

- I. Perform site survey to determine location of utility services (gas, electric, water, sewer, telephone, etc.)
- II. Contact the appropriate utility companies to shut off the respective services
- III. Verify onsite services are out of service
- IV. Abandon lines feeding into buildings as needed
- V. Specific procedure for the abandonment of the on-site sewage treatment and disposal system located to the north of the existing office building in accordance with Title 5 Regulations (310 CMR 15.00):

Fourteen days prior to discontinuing the use of the on-site sewage treatment and disposal system, the facility owner shall apply to the local Board of Health or DEP (Approving Authority) to abandon the existing system citing the reason(s) abandonment is necessary. Where connection to municipal or private sanitary sewer has been made, a copy of the sewer connection permit shall be submitted with the application. Upon receipt of the Approving Authority's written approval to abandon the system, the septic

tank shall be pumped of its entire contents by a licensed septage hauler and the tank shall be excavated, demolished and removed from the site. Another option of abandonment shall be to open the bottom of the tank after it has been pumped of its contents so as to prevent retainage of water. The tank shall be completely filled with clean sand or other suitable material as approved in writing by the Approving Authority.

III. Identification and removal of any potential hazardous materials

- I. Remove any chemicals or hazardous materials in compliance with Massachusetts Hazardous Waste Regulations, 310 CMR 30.000.

IV. Demolition of existing buildings

- I. List of typical equipment utilized to perform the demolition:
 - a. Excavators w/ shear, grapple or hammer
 - b. Man-lifts
 - c. Skidsteer
 - d. Scissor Lift
 - e. Pickup trucks
 - f. Dust control equipment
 - g. Generator
 - h. Waste containers
- II. Prior to commencement of building demolition, a thorough walkthrough and evaluation of the building will be conducted to confirm that all appropriate measures have been completed to ensure that the area is ready for demolition. Contractor's procedures will limit the use of labor to the most controlled and safe conditions and rely upon mechanized means of removal wherever possible. Excavators equipped with concrete munchers, grapples, and other modern hydraulic demolition tools and attachments will be utilized. Wherever possible, large structures will be removed to ground level with slabs remaining in place using mechanized means. Subsequent sizing of scrap materials such as steel and rebar and other material processing activities will take place at grade level, hauled offsite and recycled accordingly.

V. Removal of demolition debris and material to the appropriate offsite disposal/recycling facilities

- I. Stockpiling and Segregation:

Sizing operations for the structural steel components will include the use of a hydraulic shear on small scrap pieces or torch cutting on items that exceed the capacity of the shear or excavator. The segregation and stockpiling of masonry and non-metallic debris will be an ongoing operation working simultaneously with demolition. If wall board or sheet rock is identified during the pre-demolition survey then it shall be removed and stockpiled in a separate pile for disposal. Segregation, size reduction, stock piling and load out of the materials will be daily. Both live loading of trucks as well as loading of dropped roll off containers will be utilized on the project. Stockpiling of debris will be avoided to the extent possible and loading of debris on the day of creation is preferred.

II. Disposal:

The EPC contractor will remove all debris and waste from the project site in accordance with the Massachusetts Department of Environmental Protection (DEP) regulations. All demolition debris that will not be recycled by Contractor will be loaded into semi-end dumps and hauled to a disposal facility for further recycling or landfill. The below list of disposal companies that provide this service along with facilities has been identified as potential locations where the material can be disposed of or recycled:

1. Republic Services – 61 Commonwealth Ave, South Yarmouth, MA 02664
2. Macomber's EA Sanitary Refuse 381 Old Falmouth Rd # 37, Marstons Mills, MA 02648
3. Barnstable Solid Waste Management site - 45 Flint St, Marstons Mills, MA 02648

VI. Fire & Safety Procedures/Prevention

- I. The following Potential Safety Hazard topics will be part of the site specific health and safety plan and will be reviewed daily with crews performing the demolition activities.
 - a. Caught between moving parts
 - b. Contact with sharp objects/materials
 - c. Drive surface/ground clearance
 - d. Electrical Shock
 - e. Exposure to vehicular traffic
 - f. Eye/Face Hazard
 - g. Fall from different levels
 - h. Hand/Power tools
 - i. Handling Heavy Objects/Materials
 - j. Heavy equipment operation
 - k. Walking/Working Surface/Slips, trips, falls
 - l. Combustible items away from work area
 - m. Dust control measures as required

VII. General Notes:

- a. All SWWPP requirements will be maintained during demolition activities
- b. All Erosion Control Plans (ECP) will be installed and maintained during demolition activities
- c. Working hours and schedule will be per permit documents
- d. Haul Route will be per local county road allowances and permits
- e. Dust control measures as required