



## **Southgate Steeplejacks**

### **Steeple Building • Steeple Restoration**

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#### PHASE 1 ON SITE

##### ENCLOSURE

First off, we will build public protection out front. Next, we will remove the Balustrade to the ground. Then, we will build a Protective Wood Scaffolding Enclosure similar to Rhinebeck. For the sake of brevity, we will call it the Enclosure from now on. To do this, we will build a square tower of tubular steel scaffolding in the yard. Using this tower we will build the enclosure. The Enclosure will be made of standard spruce framing lumber, and will be wrapped in 2 layers of string poly, and will be sized and designed so that it will sit on the belldeck and will also serve as scaffolding for the work that will take place on the Belfry. The enclosure will have an access door that lets out into the side yard for our bullwheel. We will prep the Lantern/Spire for plucking. Now, it is time to call in the crane.

##### CRANE DAY #1

Using the crane, we will remove the Lantern, Spire, Finial, and Vane to the ground for transportation to the shop. Then, we will hoist the Enclosure into place and batten it down.

##### INSIDE ENCLOSURE

Inside the enclosure, we will remove all the exterior wood from the belfry. The enclosure will help contain all the lead paint hazard. Most of this wood will be documented, measured, disposed. Some will be brought back to the shop for duplication, the column bases will be kept and encased in lead, some parts will be stripped of paint and re-used. We will also strip the copper from the Belfry Dome, bringing the urns back to the shop.

Once all the belfry framing is laid bare, we can make proper repairs to all the belfry posts top and at the belldeck, and to the Belfry Web. These repairs will be primarily epoxy, but some amount of steel may be used. I actually believe that the Belfry Web is such a lovely piece of work that I am eager to avoid covering it with scabs of wood and/or steel even though it is never seen, and also believe that what with those nice steel brackets that are already there we can do a fine cost effective job with epoxy. As for the Belfry Dome, we will remove the existing copper roofing and replace any rotted sheathing screwing all sheathing new and old. We will cut the bottoms of the 16 Belfry Roof rafters up 3" from their current terminus, and will lay 2 layers of interwoven standard 2x10 lumber all glued up with construction adhesive and timberlock screws and attach the rafters to this new platform with some off the shelf clips. This will stiffen up the top of the belfry, and will mean that most of the rot on the bottoms of the rafters will be cut away. We will remove the lags that are holding the steel brackets to the Belfry posts and replace them with through bolts because chances are good that the lags are no longer so effective since they have probably corroded their holes.

Also, at this time we will install through bolts through the steel Balustrade posts, and will also open holes in the rubber to inspect the outer corners of the belldeck hiprafter/granite/purlin/plate connection, we'll epoxy as needed and then repair the rubber.