

Site Layout Planning

Throughout the construction process there are three phases that require site planning. Due to the limited amount of space on site, planning becomes extremely important. Most of this needs to be done through deliveries, since there is not much storage space, especially in the beginning of the project. Later into construction items can be stored in the parking garage and on site. The items that are stored on site are crammed into the south side of the site.

Throughout the entire construction process the temporary offices are located in the basement of the church next door. It is accessed on the south west corner of the building. The parking for the workers and managers is right at the back of the church which can hold approximately 15 cars when they are squeezed together, however many of the workers drive trucks, so less than 15 vehicles can fit. The bathroom facilities are located right next to the parking, along with the dumpster.

Excavation

During this phase the most notable things to consider is the depth of the excavation. The excavation started at the ramp area and then worked its way down. Trucks drove through the back of the site at this point in the project.

Superstructure

The major issues to be considered during this phase of construction are the deliveries and the crane. The deliveries will shut down one lane of traffic, using cones and road signs. These signs and cones are moved after construction hours and on the weekends. The area shut down can hold about two large trucks, which means that the crane has to pick the materials directly from the truck into place, this process must flow smoothly or things can be delayed significantly.

The crane seems to be very large when first seeing it on site, due to the amount it sticks out into the street and over the neighboring buildings. The operator has to be extremely careful of pedestrians and traffic around the site.

Finishes

During this stage, there will be many workers on site and a great deal of coordination will need to take place. Due to the flow of trades throughout the building material storage for each trade can be stored in the parking garage until the materials are needed. At this point they can be taken to the floor where they are needed. At this stage parking should not be an issue; workers could potentially park in a section of the parking garage saving outdoor storage space.