Church Building Updates

Construction Update: Nov. 14, 2019

You may have noticed the beams going up that have a plastic sheathing around it. This are our "glulam" exposed beams. Glulam (glued-laminated timber) is an engineered structural wood product that consists of multiple individual layers of dimension lumber that are glued together under controlled conditions. Our glulam comes to us from Canada. All Canadian glulam is manufactured using waterproof adhesives for end jointing and for face bonding and is therefore suitable for both exterior and interior applications (interior in our case). Glulam has high structural capacity and is also an attractive architectural building material.

Glulam is commonly used in post and beam, heavy timber and mass timber structures, as well as wood bridges. Glulam is a structural engineered wood product used for headers, beams, girders, purlins, columns, and heavy trusses. Glulam is also manufactured as curved members, which are typically loaded in combined bending and compression. It can also be shaped to create pitched tapered beams and a variety of load bearing arch and trusses configurations. Glulam is often employed where the structural members are left exposed as an architectural feature (as in our case).

Our glulam is being provided by REW Supply.

Construction Update: Nov. 5, 2019

On the upper level, steel erection will continue for the next several weeks with the plan to have the roof on and sealed by the end of the year. On the lower level, framing of the Parish Offices continues. Also, installation of heating and air conditioning ducts and fire sprinkler system will start this week. The final pour of concrete into the outside walls is scheduled for the end of this coming week with the finish of the radius (curved) wall on the west side of the upper level.

Construction Update: October 29, 2019

Ready to ship!! Our hand carved and hand painted sanctuary statues of Mary and Joseph are ready to ship from Italy. Here is what they look like:

Meanwhile back at the job site, steel beams continue to go up to support the roof. The excavator is backfilling the east side of the church with dirt. In the lower level, framing of the Parish Offices continues. Finally finishing of the Chapel wall (west side round) is continuing with a concrete pour next week.

Construction Update: October 13, 2019

This coming week we should start to see some steel going up to support the roof. The initial beams will be placed in the east and west ends of the structure. Also this week, the contractor will start framing (putting up interior wall structure) on the lower level. We will also be waterproofing the structure below ground level to prevent moisture intrusion.

Our subcontractor of the week is Senegal Specialty Contracting, Inc. These are the folks who will be waterproofing our building. Senegal Specialty Contracting, founded in 2002, started in the industry by providing waterproofing and joint sealants to residential home builders and general contractors. They have evolved into one of the area's largest commercial and residential waterproofing specialists. Their commercial experience includes a very diverse list of projects, including hospitals, schools, retail stores, water treatment plants, industrial sites, churches, hotels / motels, sports arenas, strip malls, manufacturing facilities, large multi-level commercial facilities, airports, parking garages, car dealerships, multi-family dwellings, senior living facilities, etc.

Construction Update: October 9, 2019

The concrete boom has again come and gone completing a pour of the top of the walls and the floor of the lower level. This coming week the electrical folks will be running fiber from the new building to the basement of Building 2 to connect up the two buildings into the same campus local area network. The current schedule shows steel erection starting on 21 October.

Construction Update: October 1, 2019

Due to the excessive rain, progress on the lower level has slowed. It may be another week or two before we can lay concrete on the lower level. Meanwhile, the wall is nearly complete on the upper level and the concrete boom will be back soon to pour concrete inside the walls. Also, in the next two weeks, the contractor will be laying a fiber line from the new building to the basement of Building 2 to connect to our campus router. This will give IT connectivity between Church and School.

Construction Update: September 20, 2019

The concrete boom has come and gone and has completed a pour of concrete to the top of the current wall. The electrician and plumber have completed laying underground conduit and the pouring of concrete on the lower level should occur this week.

Our subcontractor of the week is our concrete paving and interior flatwork contractor, Oxford Construction. Oxford Construction Co., Inc. is a family-owned concrete contractor business serving the Omaha metro and Midwest area. With over 50 years of combined concrete experience, they have a long history of successful projects throughout Omaha and the Midwest. They believe in providing first-rate service and innovative designs to their customers. Oxford Construction uses only the highest quality cement materials and technology and ensures that every client's project is completed on time and within budget. Check them out at their website: https://www.oxfordconstructionco.com/

Construction Update: September 5, 2019

The concrete has been "placed" on the upper level. Hopefully, this will limit the amount of rain flowing into the lower level where excess moister has slowed the process of laying underground plumbing and electrical conduit.

Our subcontractor of the week is Americon who is doing our Data, Intrusion Detection and Access Control. We will have a state-of-the-art security system for the new building with 24hr 100%-coverage video surveillance, automatic locking doors, remote access control and card readers at key access points during the week. Americom has served Southeast Nebraska for over 30 years and counting. It takes pride in its ability to meet customers' needs with quality products that evolve for growth in the years to come, while providing efficient solutions for today. Check them out at their website: www.americom.biz

08-29-19

INNOVATIVE INSULATED CONCRETE FORMS USED
ST. MATTHEW CHURCH - NEW CHURCH
BELLEVUE, NEBRASKA

Walk-out Lower Level

Insulated Concrete Form Exterior Walls

Main Floor Structural System

Rendering of Completed Church

After 20 years of celebrating Mass in the School Gymnasium, St. Matthew the Evangelist Catholic Church is in the process of building a 700 seat Church. The new church facility will incorporate the Parish Office Suite, Fellowship Hall, Kitchen, Conference Rooms, and Storage in the lower level of the structure. The church will be located on-site south of the existing St. Matthew's Elementary School on South 36th Street in Bellevue, Nebraska. The structure is designed to work with the natural site contours and provide lower level "walk-out" on the west side of the building for ease of accessibility to the Fellowship Hall and Parish Offices.

Construction started in the Spring of 2019 and is scheduled to be substantially complete by May 15, 2020. JJA suggested the use of a non-conventional construction process to save construction costs and improve energy efficiency. In lieu of the typical concrete block and metal studs, the St. Matthew Building Committee agreed to use Insulated Concrete Forms (ICF) for the exterior walls. The ICF Blocks are a stackable insulated form with 2 5/8" rigid insulation on each side with ties at 8" o.c. which supports vertical and horizontal reinforcing. After the ICF blocks have been stacked, concrete is placed in the center of the forms. This provides a resilient wall with a R-value of 26. Drywall can then be screwed directly to the ICF ties, which alleviates the need for additional furring. Masonry ties are available from the ICF manufacturer that allow for the installation of brick veneer. An EIFS system does not require added insulation. The finish coat can be directly applied to the ICF Blocks. Previous utility studies have shown substantial saving for both heating and cooling. This was another benefit St. Matthew considered before deciding to agree to use this system.

The interior framing is comprised of structural steel, metal deck, metal studs, and large glued-laminated roof trusses. These trusses provide the traditional church atmosphere, which was a priority for this congregation.

The St. Matthews Community is enthusiastically anticipating the opening of the long awaited Church Building. Their next Parish activity will incorporate the signing of a structural beam that will support the glu-lam roof structure.

Construction Update: August 29, 2019

The contractor has laid sections of steel mesh (6” x 6”) on the upper level. These are held above the floor about 2” by supports called “chairs”. This will allow the concrete to flow into the mesh which provides strength to the concrete when cured. The concrete should be poured on the upper level soon. Meanwhile, moisture on the lower level due to rain has slowed the installation of underground plumbing and electrical.

In the last update, it was mentioned that some legacy sanitary drain infrastructure was discovered while excavating the connecting road between the old and new parking lots. Thanks to our Minutemen led by Dick Lewis and Terry Veylupek and supported by Mike Gottshall, Dick Harrington, Keith Weis and Mike Lukasina, the manholes and piping were removed at no additional cost to the contract. Thanks to the Minutemen.