

São Paulo, February 8, 2017

## INFORMATIVE BRIEF 01

**This first Informational Brief relates the facts starting in October 2016, when the technical teams involved with the project for the Church roof were commissioned, until the present time.**

### **1) October 2016 - Technical team visit and meetings with Padrinho Alfredo in Céu do Mapiá.**

From October 4 through October 8, 2016 the *Engineering and Architecture* teams (represented by the engineers Mauro Mansur, Jorge Moura, and the architect Alceu Brito), the *Legal and Administrative* teams (represented by the attorney Paula Caubianco and the administrative manager Barbarah Veiga) and a commercial representative from one of the firms bidding on the fabrication and assembly of the metal roof structure (Alan Gomes) visited the Village of Céu do Mapiá to become familiar with the project location and to begin discussion about the construction of the roof. They were joined by Padrinho Alfredo, the directorate and the community.

The construction of the roof was estimated to require a team of 20 workers along with 5 additional technical and engineering managers over a period of 2-3 months.

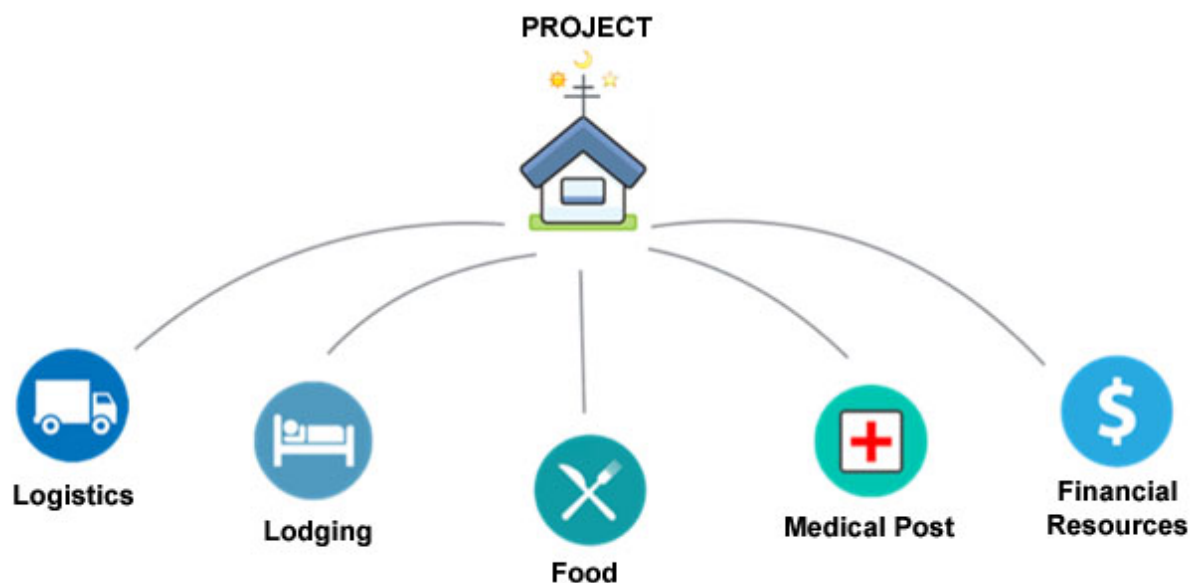
At that time, an initial timeline was proposed, as follows: purchase of raw steel and fabrication of the structural components in December and January, transportation and logistics by barge and canoe in February and March (during the high water season in the regional Amazonian rivers) and finalizing the construction approximately in June 2017. However, this timeline became impossible because other preliminary studies had yet to be performed, including the topographic analysis and engineering regarding the cement structures.

In October, construction was begun using local workers on an additional bridge alongside the Padrinho Nel bridge to allow heavy vehicles and construction equipment to reach the project site from the access road.

In collaboration with Padrinho Alfredo it was deemed necessary to develop a **CONSOLIDATED PROJECT**, which would include all of the **urgent and complementary projects and services** which are indispensable for the inauguration of the Church. The engineering team is considering the **urgent projects** to include the completion of the additional bridge and restoration of the dam, and the **complementary services** to include the support walls, plan for drainage of water from the roof surface, installation of lightning rods, the plaza for the tombs and memorials, reforming the hostel and projects for electricity, lighting, acoustics and sound amplification.

## 2) November 2016 - Formation of the Project Sectors

To organize the activities and demands which are considered most important for the construction of the roof, the following *Project Sectors* were created:



Each sector is composed of a coordinator responsible for managing tasks and teams, ensuring that everything proceeds as planned for the construction of the roof. The opening and maintenance of the access road, the remodeling of the hostel to receive workers, the improvements in the General Kitchen and the reactivation of the Medical Clinic will be part of the legacy of the Project to the community.

After the Project timeline has been finalized, campaigns to collaborate with the activities of each sector will be promoted with the help of the brotherhood. Aside from financial resources, the requested donations may include materials that can be used in the hostel, kitchen utensils, and even voluntary manual labor. The idea being to generate a greater involvement of the brotherhood with the project and to minimize eventual costs. For this phase, the efforts of collaborators in communication will be essential.

The Administration will divulge more information about the activities and progress of the sectors as it becomes available.

### **3) December 2016 - First cycle of Engineering Activities**

From October 10 through 18, 2016 the civil engineer Mauro Mansur and the survey engineer Antônio Mansur were in the Vila Céu do Mapiá with the objective of collecting data pertinent to the Church project. The administration is deeming this period the *First Cycle of Activities*.

With topographic equipment, three specific analyses were performed:

- Evaluation of the top supports of the existing structure in order to quantitate the geometric measurements needed for the structural plan and for the fabrication of the metal components, accounting for eventual variations in the dimensions of the structure

- Evaluation of the irregularities in the construction of the structure, including misalignments and eccentricities in the cement structures that might impact the structural integrity. These data are essential for the elaboration of the structural plan.

- Evaluation and indexing of points around the church, of the future plaza of the tombs, the access stairway, and the edges of the church plot, from the access road to the bridge, passing

over the dam and all the way to the back of the church. These points will serve as the basis for the planning of soil movement, rainwater drainage, cisterns, support structures, the plaza and for the optimization of access.

Additionally, a vast catalog of geo-referenced images was obtained, including photos and films both of the structure itself and the surrounding areas, the access areas and other items pertinent to the project.

Images were recorded and registered of the *urgent projects* undertaken until the moment: the new bridge over the Mapiá river, the reinforcement of the path over the dam and the soil movement in the presumed area of unloading of the metal components.

A Technical Visit Report was produced and the collected information was sent to the *Calculating Engineer* to begin the calculations regarding the cement structure.

#### **4) January and February 2017 - Second Cycle of Activities**

In January of this year, the Legal and Administrative teams were in Céu do Mapiá to align information with Padrinho Alfredo and to coordinate the next steps, beginning the *Second Cycle of Activities*.

Between February 6-10, the engineer Mauro Mansur again returned to Vila Céu do Mapiá to accompany the final work in the additional bridge and to instruct the local workforce regarding the procedures needed for reinforcement, security and maintenance.

During his visit in the community, an evaluation was made of the viable locations for lodging for the workers. Additionally, he worked with Padrinho Alfredo to define technical questions about the laying of the church floor, the layout of the plaza of the tombs, considerations regarding river and land transportation of the structural components and the adequacy of the dam and the road. Lastly, a timeline was developed of the projects for the upcoming months.

#### **Next Steps:**

1. Completion of the report with calculations needed for the cement structure
2. Project to ensure adequate reinforcement of the cement structures

3. Planning and timeline for the completion of the Structural Plan
4. 3D Blueprint of the Church
5. Acoustic, amplification and lighting studies

The definitions mentioned above will be updated in the *Second Informative Brief*.