Airport Facility Mapping & Modeling

Accurate CAD, GIS, or BIM models of an airport terminal are crucial and invaluable assets to airport facility managers and their consultants. These models provide an efficient and cost-effective way for airports to accurately view information and make decisions about their existing facilities. This information is an essential component for a variety of business objectives, including facility asset management, condition assessments, planning, design and construction, operations, maintenance, and security. At Woolpert, we understand these needs, and we take a holistic approach to the mapping of each building by offering flexible solutions that range from simple 2D floorplans to comprehensive BIM models. We tackle the challenges that airports face today using a variety of proven technologies, such as reflectorless total stations, in-field CAD software, and 3D laser scanning, to accurately, cost-effectively, and efficiently support your objectives.

During the as-built process, we minimize disruption to your operations by working at night and during off-peak hours. We assemble the data gathered during the surveys in a logical CAD, GIS, or BIM environment.
that conforms to your standards and existing business processes. And, because the data is maintained in your existing environment, it’s easy to access everything you need to know about your facility, right from your desktop computer and without additional software to leverage the information.

Armed with this information, you can focus your efforts to better manage your facility’s data, systems, and performance or make additions and renovations to your existing facility while reducing the occurrence of costly change orders during construction. Accurate and up-to-date facility mapping enables your security staff to provide enhanced security measures throughout the terminal with the ability to quickly locate camera footage in relation to the position of electrical, fire, and other systems. This information can also provide an accurate baseline of the square footage for your leased space in your terminal and is often a source of additional revenue, due to incorrect lease agreements. You can be assured that lease agreements reflect the correct information, while reducing the time and effort expended through traditional, and often inaccurate, methods of gathering lease information. As well, you can support your operations and maintenance with accurate, up-to-date information for a better understanding of facility conditions.

Regardless of whether you use the building models for day-to-day O&M, lease agreements, situational awareness, or to aid in the design process, you’ll recognize improved efficiencies and have the peace of mind in knowing you’re working from precise floorplans and design models.