Room Data Sheets For Architectural Programming

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ABSTRACT

Architectural Programming (AP) is the first essential step before starting the schematic design of a project. This process allows for the identification of the description and layout of an area based on specific project requirements while defining scope of work and crucial factors towards client satisfaction. One deliverable within the AP is the Room Data Sheet (RDS), presenting information pertaining to the project rooms. Specifically, RDS information includes room names, intended uses, locations, numbers, description of the finishes, fixtures and fittings, as well as mechanical and electrical requirements within the space. Despite several attempts to develop multiple programming techniques and effectively meet client's project requirements, previous projects aimed at capturing architectural programming have not been adopted and poor early-stage planning remains a barrier in the construction field, potentially resulting in project delays, cost inefficiency, and ultimately client dissatisfaction. This study proposes an RDS data representation with the aim of enhancing project planning efficiency. The contribution of this study is to help pre-design practitioners and researchers in reducing design changes, associated project costs and delays, and ultimately improving client satisfaction and construction efficiency.