DIVISION 27 TECHNOLOGY

1. **GENERAL**

   A. The following design development narrative describes the technology system requirements for the EHRM Infrastructure Upgrades project at Cincinnati and Ft. Thomas VA campuses based on our understanding of the project scope and applicable codes, criteria, and regulatory standards.

2. **DESIGN CONDITIONS AND APPLICABLE CODES**

   A. The technology system will be in accordance with the following standards and design guidelines. The specific requirements of these standards are not included in this document.

      1. Infrastructure Standard for Telecommunication Spaces Version 3.1 (a.k.a. OIT 3.1).
      2. BICSI Telecommunications Distribution Methods Manual (TDMM), 14th Edition
      3. All applicable Federal, State, City and Local Codes, Regulations, Ordinances, Publications and Manuals

3. **DEMOLITION SCOPE**

   A. All existing cable tray will be removed and existing cable temporarily placed in J-Hooks using the existing support rods for cable tray in order to enable the installation of new cable tray.
   B. Upon completion of new cabling, all abandoned cabling shall be removed.

4. **NEW SCOPE**

   A. Phasing of all works to maintain the life-safety of the hospital is required. The below description is only describing the overall work and not intended to describe the intricate phasing and attention to detail required to implement the changes
   B. Service Entrance
      a. A0005 is being fit up for use as a secondary entrance facility for Internet Service Providers. Project will route cabling as noted for redundancy. OIT will use as part of future project/initiative to bring create further redundancy.
      b. A035 will be fit out for technology services to maintain this location as the primary entrance facility fiber optics are routed from this location accordingly.
      c. Both Service Entrances are afforded redundant fiber routing to the Server Room A437.
   C. Server Room A437
      a. This room is expanding into adjacent space to afford the required clearances by OIT standard.
      b. There will be new cabinets provided by the project in a phased approach. First the new fiber cabling in coordination with the new TR rooms and migrating during the project off of the old cabling/TR rooms into new TR/Fiber.
      c. This room is the center of the Fiber Optic Distribution.
         1. Service Entrance fiber optics will terminate in this room.

      2. All new TR Rooms will have fiber optics terminate in this room.

D. TR Room Builds

    a. Each TR room will be constructed and fit out according to the OIT 3.1 standard as indicated in the drawings to include a full fitup for OIT equipment and distribution of services.

    b. New TR rooms receive fiber optic signaling and provide a location for CAT6A horizontal copper distribution and housing of the OIT switches.

E. Pathways – New cable tray is to be installed in the corridors for horizontal cabling. Where cable tray is not indicated, J-Hooks or conduit is intended to support short stretches of copper cabling.