

2.4.8 TELECOMMUNICATIONS AND DATA SYSTEMS

2.4.8.1 GENERAL

The State of Connecticut accepts the ***“EIA/TIA Building Telecommunications Wiring Standard”*** as the standard to be used in the design and implementation of voice and data wiring systems for new and renovated State facilities. These standards have been designed for use by state agencies, space planners, budget planners, architects and engineers, business and facilities managers, communication personnel, vendors and manufacturers that provide services to the state.

The Connecticut State University (CSU) and the Judicial Department may have additional standards and requirements for their facilities.

A copy of the minutes of the initial scope meeting for projects that have telecommunications requirements shall be sent to the Department of Information Technology (DOIT) and the Department of Public Works (DPW) the addresses of which is as follows:

Department of Information and Technology (DOIT)
Communication Services - Room 328
340 Capitol Avenue
Hartford CT 06106
Tel. (860)566-6250

Department of Public Works (DPW)
Technical Services Unit – Room 265
Hartford, CT 06106
Tel. (860) 713-5722

2.4.8.2 RESPONSIBILITY OF THE A/E, DOIT/CONSULTANT, DPW AND AGENCY

Architect/Engineer

Site Raceway Distribution: Design the underground raceway/duct-bank distribution system, to accept the incoming Telephone Service. Coordinate requirements with SNET, DOIT, DPW and the Agency. Obtain a confirmation with regard to all service details from the utility (see Checklist for Permits and Approvals).

Telecommunication Rooms: Provide space within the building for the main telephone room (B MDF), Intermediate telephone rooms (IDF), and Computer Rooms, to accept the voice and data cabling systems and equipment. Rooms shall conform to the requirements of the EIA/TIA- 568A/569 standards. A/E is to coordinate requirements with DOIT and DPW-TSU.

Building Raceway Distribution: Provide an empty conduit system including cable troughs for all horizontal and vertical runs between the B MDF, IDF, computer rooms and all work stations to allow for the installation of the voice, data and video cable systems. A/E is to provide riser diagrams and coordinate requirements with Agency, DPW-TSU and DOIT. Include all raceway distribution requirements outlined in EIA/TIA 569 “Telecommunications Pathways and Spaces”, under a separate electrical section, (i.e., **Section 16750 – Telecommunication Raceways and Distribution Systems**).

Telecommunications Cabling Distribution: Telecommunications cabling design and installation shall not be part of the A/E's design responsibilities, except for the Connecticut State University (CSU) projects, in which case the A/E shall deliver a complete system of raceway and cabling installation to the CSU system. Such design and installation shall be performed under the supervision of DOIT or the Agency's and DPW's On-Call Telecommunication Consultant". Cabling design and installation shall conform to the requirements of EIA/TIA 568-A "Telecommunications Cabling Standards". Include cabling requirements under a separate technical specification section, (i.e., **Section 17000 – Telecommunications Cabling Distribution Systems**).

DOIT/Consultant

Evaluate telecommunications needs with state agencies and DPW-Technical Services Unit.

Establish design criteria to accommodate agency needs.

Present design criteria to the architect/engineer for implementation into the contract documents.

Provide technical assist to the architects/engineers during the planning and early phases of the design.

Prepare bid documents for wiring, voice and data systems including wiring types, installation, terminations, and testing. Specify voice and data equipment.

Provide quality assurance during construction, witness-testing procedures and approve installations for voice and data systems.

DPW -Technical Services Unit

Review A/E submissions during design stages.

Provide limited support services to DOIT and the Agency as needed.

Agency

Compile agency telecommunications needs.

Coordinate with the DPW-Electrical Engineering and OIT to establish the scope of the telecommunication system.

Assist A/E and DOIT/Consultant in the location of voice and data outlets for the user stations.

Participate in inspections with DOIT/Consultant.

Participate in the system acceptance procedures.