

**Western Michigan University – Office of Information Technology & Campus
Planning, Design & Construction**

Design Guidelines for Facilities Construction:

DESIGN GUIDELINES Communication Systems

DIVISION 17:

- DG17-0 General Systems Guidelines rev: 8/5/05
*Quality of Workmanship, Inspections, Codes and Standards, Basic Design Materials And
Methods, Submittals Required, Spare Parts & Equipment, O & M Manuals, Warrantees,
Temporary Installation, Cleaning & Turnover.*

- DG17-1 Outside / Inter-building Systems rev: 5/4/05
Manholes, Duct Systems, Outside Cable, Fiber, Copper and Building Entrances.

- DG17-2 Rooms / Spaces and Facilities: rev: 5/4/05
Space Requirements, Space Configuration, Equipment Racks, Power Sources.

- DG17-3 Building Pathways: rev: 5/4/05
*Trunk Pathways for Cable System within a Building, Conduits, Cable trays, Work
area outlet paths and boxes.*

- DG17-4 Building Riser Cable Systems: rev: 5/4/05
Cabling interconnecting communications spaces within a building.

- DG17-5 Access/Outlet Locations: rev: 5/4/05
Considerations in definition and location of outlets.

- DG17-6 UTP Horizontal Distribution: rev: 5/4/05
Copper user connection cable system.

- DG17-7 Fiber Optic Horizontal Distribution: rev: 5/4/05
Fiber user connection cable system (seldom required).

- DG17-8 Wireless Network System: rev: 5/4/05
Wireless Ethernet access points, Antennas, inside and out.

- DG17-9 Broadband Video / CATV System: rev: 5/4/05
Provisions for distribution of WMU EDUCable and CATV distribution.

- DG17-10 System Identification, Labeling, Administration: rev: 5/4/05
*Sources for Construction Identifications of System components, Labeling
requirements, drawings and other submittals required.*

- DG17-11 System Testing Startup & Commissioning: rev: 5/4/05
Documentation, Cutover & Training, Testing and Commissioning Requirements.

- DG17-12 System Terminology, Definitions, and Design Rationales: rev: 5/4/05
Terms, Definitions, University Terms, and Design Clarifications.

STANDARD DETAILS:

SD17-01 West Campus Tcom Distribution Diagram rev:
SD17-02 Typical Seating Arrangements rev:
SD17-03 8-6x5-6x7 type A manhole dwg. rev: 5/5/05
SD17-04 WMU Comm Closet layout rev: 5/4/05
SD17-05 WMU IT Racks rev: 5/5/05
SD17-06 Typ Riser Diagram rev:
SD17-07 WMU Net Building Key rev:
SD17-08 WMU Communications Cable System Labeling System ... rev:
SD17-09 Typical Exterior Copper entry rev:
SD17-10 RJ jack specs 1_PRT_TEST.vsd rev:
SD17-11 RJ Jack specs 1.vsd rev:
SD17-12 Typical Manhole Hardware. rev: 5/4/05
SD17-13 Cable Pathways rev: