

SECTION 27 05 61
COMMUNICATIONS EQUIPMENT AND SYSTEMS

PART 1 - GENERAL

1.1 SECTION SUMMARY

- A. Work covered by this document includes design, engineering, labor, material, products, guarantee, training and services for, and incidental to, the complete installation of a new and fully operating National Fire Protection Association (NFPA) Listed communications system as detailed herein.
- A. Work shall be complete, certified, tested, labeled, VA Central Office (VACO) tested, certified and ready for operation.

1.2 RELATED SECTIONS

- A. Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
- B. Section 26 05 21, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 Volts and Below)
- C. Section 26 41 00, FACILITY LIGHTNING PROTECTION
- D. Section 27 05 26, GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
- E. Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.
- F. Section 27 10 00, STRUCTURED CABLING
- G. Section 27 15 00, COMMUNICATIONS HORIZONTAL CABLING
- H. Section 27 05 33, RACEWAYS AND BOXES FOR COMMUNICATIONS SYSTEMS.
- I. Section 27 11 00, COMMUNICATIONS EQUIPMENT ROOM FITTINGS
- J. Section 27 51 16, PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS
- K. Section 28 05 26, KEYSKAN SYSTEM AND DATABASE MANAGEMENT
- L. Section 28 23 00, VIDEO SURVEILLANCE

1.3 DEFINITIONS

- A. Provide: Design, engineer, furnish, install, connect complete, test, certify and guarantee.
- B. Work: Materials furnished and completely installed.
- C. Review of contract drawings: A service by the engineer to reduce the possibility of materials being ordered which do not comply with contract documents. The engineer's review shall not relieve the Contractor of responsibility for dimensions or compliance with the contract documents. The reviewer's failure to detect an error does not constitute permission for the Contractor to proceed in error.

1.4 REFERENCES

Refer to each selected Related Section 1.4 Reference Section for this specific requirement.

1.5 QUALIFICATIONS

Refer to each selected Related Section 1.5 Reference Section for this specific requirement.

1.6 CODES AND PERMITS

Refer to each selected Related Section 1.6 Reference Section for this specific requirement.

1.7 SCHEDULING

Refer to each selected Related Section 1.7 Reference Section for this specific requirement.

1.8 REVIEW OF CONTRACT DRAWINGS AND EQUIPMENT DATA SUBMITTALS

Refer to each selected Related Section 1.8 Reference Section for this specific requirement.

1.9 PROJECT RECORD DOCUMENTS (AS BUILTS)

Refer to each selected Related Section 1.9 Reference Section for this specific requirement.

1.10 WARRANTIES / GUARANTEE

Refer to each selected Related Section 1.10 Reference Section for this specific requirement.

1.11 USE OF THE SITE

Refer to each selected Related Section 1.11 Reference Section for this specific requirement.

1.12 DELIVERY, STORAGE, AND HANDLING

Refer to each selected Related Section 1.12 Reference Section for this specific requirement.

1.13 PROJECT CLOSE-OUT

Refer to each selected Related Section 1.13 Reference Section for this specific requirement.

PART 2 - PRODUCTS AND FUNCTIONAL REQUIREMENTS

2.1 GENERAL REQUIREMENTS FOR EQUIPMENT AND MATERIALS

Refer to each selected Related Section 2.1 Reference Section for this specific requirement.

2.2 SYSTEM DESCRIPTION

Refer to each selected Related Section 2.2 Reference Section for this specific requirement.

2.3 MANUFACTURERS

Refer to each selected Related Section 2.3 Reference Section for this specific requirement.

2.4 CONDUCTORS AND CABLES

Refer to each selected Related Section 2.4 Reference Section for this specific requirement.

2.5 RACEWAYS

Refer to each selected Related Section 2.5 Reference Section for this specific requirement.

2.6 SYSTEM CONDUIT

Refer to each selected Related Section 2.6 Reference Section for this specific requirement.

2.7 CONDUIT SLEEVES

Refer to each selected Related Section 2.7 Reference Section for this specific requirement.

2.8 DEVICE BACKBOXES

Refer to each selected Related Section 2.8 Reference Section for this specific requirement.

2.9 UNINTERRUPTIBLE POWER SUPPLY (UPS)

Refer to each selected Related Section 2.9 Reference Section for this specific requirement.

PART 3 - EXECUTION

3.1 PROJECT MANAGEMENT

Refer to each selected Related Section 3.1 Reference Section for this specific requirement.

3.2 COORDINATION WITH OTHER TRADES

Refer to each selected Related Section 3.2 Reference Section for this specific requirement.

3.3 NEEDS ASSESSMENT

Refer to each selected Related Section 3.3 Reference Section for this specific requirement.

3.4 INSTALLATION

Refer to each selected Related Section 3.4 Reference Section for this specific requirement.

3.5 PROTECTION OF NETWORK DEVICES

Refer to each selected Related Section 3.5 Reference Section for this specific requirement.

3.6 CUTTING AND PATCHING

Refer to each selected Related Section 3.6 Reference Section for this specific requirement.

3.7 FIREPROOFING

Refer to each selected Related Section 3.7 Reference Section for this specific requirement.

3.8 GROUNDING

Refer to each selected Related Section 3.8 Reference Section for this specific requirement.

PART 4 - TESTING / GUARANTEE / TRAINING

4.1 PROOF OF PERFORMANCE TESTING

Refer to each selected Related Section 4.1 Reference Section for this specific requirement.

4.2 SYSTEM GUARANTEE PERIOD OF SERVICE

Refer to each selected Related Section 4.2 Reference Section for this specific requirement.

4.3 TRAINING

Refer to each selected Related Section 4.3 Reference Section for this specific requirement.

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