SECTION 14 92 00
PNEUMATIC TUBE SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section specifies extension of the existing Pneumatic Tube System.

1.2 RELATED WORK

A. Section 07 84 00, FIRESTOPPING.

B. Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS.

1.3 SUBMITTALS

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Complete layout drawings of system.

C. Shop Drawings and Manufacturer's Literature and Data:

1. Provide dimensioned drawings to include the following:
   - a. Tube Routing
   - b. Equipment Locations
   - c. Station Details

D. Close-out Submittals

1. Provide as-built drawings.
2. Provide system mechanical and electrical riser diagram.

1.4 QUALITY ASSURANCE

A. All equipment shall be furnished by the approved system manufacturer.

B. All installation shall be by direct manufacturer employed personnel.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Product: Extension of existing Smart Path pneumatic tube delivery system with a Carrier Management System and Smart Center control system for Microsoft Windows 7.

B. Authorized Representative
Return On Investment Systems, Inc.
950 Ensell Road
Lake Zurich, IL 60047
Phone: (847) 726-0081 Fax. (847) 726-0087
Contact: James Lehtinen

C. Manufacturer:
Pevco
10001 Franklin Square Drive
Baltimore, Maryland 21236
Phone: (410) 931-8800 Fax: (410) 931-4660

2.2 SYSTEM DESIGN:

A. Provide new wall recessed standard one tube station in Laboratory 6219.
B. Provide tubing and fittings to connect new station to existing system above the ceiling on the first floor.
C. Remove existing station in existing Laboratory 2288 and turn over to owner. Remove tubing and communication cable back to existing four port diverter.
E. Contractor shall provide all accessories and fittings required to provide a complete and functional extension of the existing system.
F. Provide two additional carriers.
G. Provide new control computer including CPU, flat screen monitor, printer, UPS, and installation and programming. Provide the current version of all software required for system operation.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install all system components in compliance with the system manufacturer's latest installation instructions.
B. Coordinate installation with the mechanical and electrical trades so as to insure that the system will be a complete and properly functioning system.
C. All electrical equipment shall be UL approved.
D. All electrical wiring installations shall conform to NEC standards as well as local codes.
E. Install and configure the current version of all software required for system operation on the control computer and perform any required updates of existing station software or firmware.

3.02 PREVENTATIVE MAINTENANCE

A. As part of the installation work provide complete preventative maintenance of the existing tube system in accordance with the manufacturer's recommended practices.

3.03 TESTING

A. Upon completion, the pneumatic tube system contractor, in company with the Resident Engineer or their representative, will conduct tests of material, workmanship and function to establish that the work has been executed according to these specifications.
B. The pneumatic tube contractor will make good any workmanship or performance criteria not in conformance with these specifications.

3.04 TRAINING

Provide training to the Owner's personnel as follows:

A. System operation training to designated Owner's personnel who will be using the system and who can train others.
B. System operation and maintenance training to Owner's assigned maintenance personnel.
C. Training will include three days of onsite training covering computer, stations, diverters, and blowers.

3.05 INSTRUCTION MANUALS

The system manufacturer will provide three (3) copies of the following:

A. Operator's Manual
B. Maintenance Manual
C. Wiring and Electrical Diagrams
D. Mechanical and Electrical Riser Diagram
E. Recommended Spare Parts

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