SECTION 27 4213 - POINT OF SALE SYSTEMS (Rocket Card)

PART 1 – GENERAL

1.01 SECTIONS INCLUDES:

A. Cabling and Connectivity

B. Raceways

1.02 RELATED SECTIONS:

A. Section 27 0502 – Required Submittals for Communications

B. Section 27 0504 – Communications Contractor Qualifications

C. Section 27 0528 – Pathways for Communications Systems

D. Section 27 0553 – Communications Identification and Labeling

E. Section 27 1500 – Intrabuilding Communications Horizontal Cabling

1.03 REFERENCES:

A. The Rocket Card network installation shall conform to the latest edition of the NEC, national, state and local code which apply.

B. The Rocket Card network installation shall comply with all NFPA, NEMA, TIA, IEE, ANSI, ISO and U.L. standards as applicable. All components and materials shall be U.L. listed.

1.04 SYSTEM DESCRIPTION:

A. Network wiring to consist of a dedicated standard based wiring infrastructure for support of the Rocket Card proprietary point of sale network.

B. Furnish, install and test, as required, all conduit, conduit boxes, pull boxes, conduit bushings, sleeves, cables, cable supports, firestopping, patch panels, patch cords, connectors, organizers, component and cable labels, designation strips, equipment racks, equipment cabinets, etc. as required for complete and functioning system.

C. Rocket Card network wiring to be a structured wire infrastructure based upon Section 27 1500, except dedicated to the Rocket Card network.

D. The Rocket Card cabling system shall be distinguished from the normal campus network cabling by a separate outlet jack with active electronics segregated from the normal campus network.

1.05 SUBMITTALS:

A. Submit under provisions of Section 01 3300 and/or 27 0502.

B. Product Data: Provide catalog cut sheets for all materials, equipment and components.

C. Project Record Drawings

1.06 WARRANTY:

A. Warranty material and labor for a period of 2 years.

PART 2 – PRODUCTS

2.01 GENERAL:

A. Workmanship and design shall be in accordance with the requirements of the Rocket Card network vendor and manufacturer.

B. All active equipment and components shall be provided and installed by the Owner unless otherwise noted.

2.02 COMPONENTS:

A. Outlet Box shall be a standard 2 gang deep box with double-gang plaster ring and 1"C stubbed up and out per Section 27 0528.

B. Faceplate shall be a double-gang, six (6) port stainless steel faceplate. Fill all unused ports with gray blank inserts.

C. Rocket Card data jacks shall be two (2) Category-6 data jacks installed as per Section 27 1500.

D. Cabling shall be plenum rated, Category-6, unshielded twisted pair as per Section 27 1500.

E. Rocket Card IP Converter Equipment Shelf shall be a 19" W x 11.5" Deep x 3.5" High equipment shelf, black. Provide one (1) shelf per thirty-two (32) Rocket Card ports installed. (2 x 16 port IP Converters).

F. See Appendix A for manufacturers and part numbers.

PART 3 – EXECUTION

3.01 INSTALLATION:

A. Install Rocket Card data cabling from the outlet location to the nearest telecommunications room, or as specified on the Drawings.

B. The Rocket Card patch panel or panels shall be located adjacent to (above or below) the IP Converter Equipment Shelf.

C. The Rocket Card network equipment shall be located as directed by the Owner in the standard 19" equipment racks, separated from the Campus Data Network cross connect fields such as to minimize errant connections, yet convenient for IP Converter interconnection to the local network switch~~.~~

D. Rocket Card outlet locations may be required above the ceiling for interconnection to special application readers such as door access controllers, Point of Sale (POS) outlet, etc.

E. Above ceiling outlet boxes shall be anchored to above ceiling wall, or building structure utilizing a beam clamp, or dedicated drop wire and drop wire clip, or "T-Bar" and "T" bar clip, etc. as required.

F. Provide grommet and strain relief for the cables at the outlet box, as required.

G. Provide outletand cable identification as per Section 27 0553.

H. It is recommended that only one (1) Rocket Card reader device should be connected to a network port. However, it is possible for more than one reader device to share a port. Multiple "Rocket Card" outlet jacks shall not be wired to a single data cable. If multiple reader devices must share a single port, modifications to the wiring must be made external to the structured wiring at the reader devices and shall be performed by the Owner or under the direction of the Owner only.

I. The location of all Rocket Card outlets shall be coordinated with and approved by the University of Toledo "Rocket Card" office.

3.02 TESTING:

A. Rocket Card network cabling shall be tested as per Section 27 1500.

1. Segregate the "Rocket Card" network cabling test reports from the normal Network Cabling Test Reports, do not intermix reports.

END OF SECTION 27 4213