PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
1. Exterior digital signage kiosks.
2. Interior digital signage kiosks.
3. Interior wall mounted signage displays.

B. Related Sections include the following:
1. Division 16 Sections for basic electrical and telecom design requirements

1.3 SUBMITTALS

A. Shop Drawings: Show layout and installation details for interior and exterior signage installation. Include plans, details, attachments to walls, floors and/or exterior concrete pads, electrical and telecom point of connection and campus mapping to be used in signage.

B. Samples for Verification: Samples for enclosure finishes to be provided to campus personnel for approval.

C. Software: Submit map and graphics at least twice during design for campus approval.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain signage and enclosure through one source from a single manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver and install signage only after painting, flooring, ceiling installation utility rough-in, and similar operations that could damage, soil, or deteriorate signage have been completed in all installation areas. If systems furniture must be stored in other than installation areas, store only in areas where environmental conditions meet requirements specified in "Project Conditions" Article.

B. Keep finished surfaces covered with polyethylene film or other protective covering during handling and installation.

1.6 PROJECT CONDITIONS

A. Environmental Limitations:
1. Interior Signs: Do not deliver or install digital signage until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
2. Exterior Signs: Do no deliver until all landscaping, hardscape and exterior finish work has been completed.

B. Field Measurements: Verify all dimensions by field measurement before fabrication and indicate measurements on Shop Drawings.

Confirm install date with owner.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of digital signage that fails in product or workmanship within specified warranty period. Failures include, but are not limited to, the following:
1. Failure of structural integrity of the enclosure for both interior and exterior signs.
2. Deterioration of finishes.

B. Warranty Period: Lifetime warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: The design for the digital signage is based on Four Winds Interactive. Subject to compliance with requirements, provide the named product or a comparable product:
1. Digital Signage:
a. Four Winds Interactive.
b. Or approved equals
Approved equal must be able to interact with existing digital signage on campus as well as various campus information feeds.

2.2 DESIGN

A. SHOP DRAWINGS
All layouts and signage location to be approved by campus personnel prior to product procurement and installation.

1. Provide shop drawings for campus approval. Drawings to include:
a. Electrical and Telecom feed locations.
b. Elevations of signage locations with enclosure specifications.
c. Show layout and installation details for interior and exterior signage installation. Include plans, details, attachments to walls, floors and/or exterior concrete pads, electrical and telecom point of connection and campus mapping to be used in signage.
d. Submit 1 digital and 2 hard copies.
Verify field dimensions and make configuration modifications prior to submittal of shop drawings.

B. DIGITAL SIGNAGE
1. Software:
a. The digital signage software must conform and interface with existing campus standard.
b. The digital signage software must be compatible with following systems for data extraction and interface: Oracle, SQL Server and Resource 25.

c. Campus mapping within the digital signage software must conform to the existing campus standard of illustration and interaction.

2. Enclosures:
   a. The digital signage enclosure shall meet the minimum ADA requirements.
   b. Exterior enclosures shall be weather proof and provide protection to the hardware components inside.
   c. Interior display monitors may be in a kiosk, recessed or flush mounted on wall.

3. Hardware:
   a. Campus standard is 40”-42” touch screen monitor.
   b. Computer as required to run kiosk or display remotely.

PART 3 - EXECUTION

3.1 TRAINING

A. Coordination with University for software training and data maintenance is required.

B. A minimum of 1 day of training to be provided.

3.2 INSTALLATION

A. Delivery, unloading and installation of all signage systems to be included and performed per manufacturer’s installation instructions.

B. A pre-installation meeting to review and coordinate with Design/Builder and University is required.

C. A punchlist walk through with Design/Builder and University is required.

3.3 CLEANING AND PROTECTING

A. Repair or remove and replace defective work or materials as directed on completion of installation. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish.

END OF SECTION