PART 1 - GENERAL

1.1 WORK INCLUDED

A. The work in this Section includes all labor, materials and equipment to furnish and install the seating riser system, as specified here and shown on the drawings.

1.2 RELATED WORK

A. Related work includes, but is not limited to, the following:
   1. Loose seating
   2. Clearances and pathways for riser storage.

1.3 SUBMITTALS

A. Submittal procedures shall be as dictated by the Architect.
B. Submit shop drawings for fabrication and installation. Include plans, detail sections, and related conditions. Indicate materials, methods, finishes, attachments, and accessory items.
C. Shop drawings shall reflect field survey information.
D. Submit load data for the platform system, including safe working loads, proof loads, and any special conditions relating to the use of the platform system.
E. Shop drawings shall illustrate the intended riser configurations, after those shown on the Contract Documents.
F. Shop drawings shall include a plan showing the space required to store the complete riser system on storage dollies.
G. Upon completion of the installation, provide 1 reduced set of the shop drawings in a 3-ring binder for the Owner. In addition, provide electronic copies of the shop drawings for the Owner, the Architect and the Theatre Consultant. Electronic copies shall be in PDF format.
H. Provide 1 hard copy of an instruction and maintenance manual for the Owner. In addition, provide electronic copies of the manual for the Owner, the Architect and the Theatre Consultant. Electronic copies shall be in PDF format. The manual shall include:
   1. System description.
   2. Operation instructions, including safety measures.
   3. Maintenance instructions, including recommended procedures and schedules for inspecting system components.
   4. Catalog cuts for all purchased equipment
I. Instruction and maintenance manuals shall be provided at the time of Owner training.
1.4 **WARRANTY**

A. Warrant the equipment in this contract to be free of defects in materials and workmanship for a period of 2 years after acceptance of the completed installation by the Owner. Defective work shall be repaired and replaced at no cost to the Owner. The Warranty shall not cover the results of normal use, nor shall it cover damage due to neglect or improper use of the equipment.

**PART 2 - PRODUCTS**

2.1 **ACCEPTABLE MANUFACTURERS**

A. The following are acceptable manufacturers for the riser system:

1. **Staging Concepts**, with the SC90 deck system  
   7008 Northland Dr. North Suite 150  
   Brooklyn Park, Minnesota 55428  
   (763)533-2094  
   stagingconcepts.com

2. **StageRight Corporation**, with the ZHD/ML system  
   495 Pioneer Parkway  
   Clare, Michigan 48617  
   (989) 386-7393  
   stageright.com

3. **Wenger Corporation**, with the StageTek system  
   555 Park Drive  
   Owatonna Minnesota 55060  
   (507) 455-4100  
   wengercorp.com

2.2 **DESCRIPTION**

A. Provide decks, supports, steps, closure panels, chair stops, guardrails, handrails, aisle lights and related components as shown on the drawings and as required, to achieve the riser configurations shown on the drawings.

B. Platforms shall have integral locks for attaching adjacent sections.

C. Platform edging shall be extruded aluminum with a milled finished designed to accept accessory components.

D. Support legs shall permit 2 inch fine-leveling adjustment with a non-marring screw foot.

E. Design guardrails, posts, and their anchorage to withstand the following horizontal forces applied separately:
   1. 200 pounds applied at any point and in any direction along the top rail.
   2. 50 pounds per foot acting outward and/or inward at top rail.
3. Intermediate rails, panel fillers and their connections shall be capable of withstanding a load of 25 pounds per square foot applied horizontally at right angles over the entire tributary area, including openings and spaces between rails.

F. Handrail and post anchoring systems designed to withstand a force of 200 pounds applied at any point and in any direction on the railing system.

G. Guardrails shall be provided at all sides and rear of platform sections.

H. Hand rails and guardrails shall be the manufacturer’s standard.

I. In addition to the riser dead loads, the riser structure shall of support a minimum live load of 125 pounds per square foot. Lateral bracing shall be provided to support 3 percent of the total superimposed live load. Risers shall have lateral sway bracing loads of 24 pounds per foot parallel and 10 pounds per foot perpendicular to the seat.

J. Provide UL approved, low voltage LED aisle lights, with associated transformers and wiring for each section. Aisle lights transformers shall plug in a standard convenience outlet. Provide manual, wireless dimming controls for aisle lights that can control all sections simultaneously. Product reference: Environmental Lighting LED Multi-Zone Touch Dimmer and Receiver. Aisle lights shall be provided in 3’ wide strips, movable along the platform, to permit different aisle configurations. Where there are intermediate steps, provide lights on both the platforms and the steps.

2.3 STORAGE DOLLIES

A. Provide castered dollies capable of storing the entire seating riser system. Deck storage dollies shall accommodate 15 deck sections, secured with ratchet straps. Railing dollies shall be double height, to minimize required storage space.

B. Deck storage dollies shall also include heavy duty push/pull bars. Deck dollies are to be built from existing decks by addition of removable casters.

PART 3 - EXECUTION

3.1 COORDINATION

A. The Contractor is responsible for reviewing all drawings, specifications, and field conditions which affect the work in this contract. Notify the Owner whenever field measurements, analysis of the drawings and specifications, or progress of other trades indicates that the work in this contract cannot be completed as specified or as scheduled.

3.2 JOB CONDITIONS

A. The Contractor shall visit the site and verify all dimensions and existing conditions. The Contractor shall also be familiar with the work of adjoining trades and coordinate with their work.

B. The Contractor is ultimately responsible for the equipment fitting the intended spaces without interference.

3.3 PROTECTION OF EQUIPMENT

A. Protect the equipment in this Section from damage and deterioration during all phases of the work, from the time of manufacture to installation.
3.4 CLEANING AND REPAIR

A. Repair any work or finishes that are damaged during installation by the Contractor for the work in this Section. This includes the work in this contract and the work of others. Where the work of others is damaged, reimburse the appropriate contractor for the repair.

3.5 TRAINING

A. A Contractor’s representative shall supervise the Owner’s staff in the deployment of the riser system in each of the intended configurations. This will serve as Owner training and punchlisting.

END OF SECTION