

CLIENT

FORD MOTOR COMPANY
SK INNOVATION

PROJECT LOCATION

STANTON TN

PROJECT DURATION

24 MONTHS

PROJECT SIZE

6,000,000 SF

PROJECT VALUE

\$5.6B TOTAL PROJECT
\$140M FIRE SPRINKLER



CLIENT OBJECTIVES

This 4,1000-acre, 6-square mile campus is home to Ford's next-generation electric truck in the Blue Oval City Assembly Plant with batteries supplied by SK Innovation in a plant adjacent to the assembly plant. Preparations with the general contractor, Walbridge, began in 2022 with production beginning late 2025. At completion the site will also contain a state-of-the-art State of TN Technology Center where students will be trained for high-tech jobs at Blue Oval City.

VALUE DELIVERED

Shambaugh worked directly with the Owner and Mechanical Engineer to produce a design approach that fits both the needs and cost point of the project. Examples of this collaboration effort resulted in the right water source (size and type), fire pump selection, design criteria, sprinkler head selection, and pipe sizing, which all have reduced the complete project cost resulting in the project meeting the owner's expectation in being code compliant, on schedule completion, and within budget—a true definition of Design Assist Partner.

SCOPE OF SERVICES

Shambaugh was awarded multiple contracts to complete Fire Protection design and installation for sprinkler, process, in the main battery plant as well as the newly constructed Body, Stamp- ing, Final Assembly, and Battery Buildup buildings:

- Utilized REVIT to provide an efficient BIM coordination process with trades
- Process rack installation
- Sprinkler head layout
- Pipe routing and sizing
- Hydraulic calculations to support pipe size
- Generated bid packs for material and equipment purchasing
- Reviewed all bids with Owner and team prior to issuing contracts
- Provided design, testing, and commissioning
- Over 8 million square feet protected
- Over 175,000 sprinkler heads
- Over 1,800,000 ft or 350 miles of sprinkler pipe

