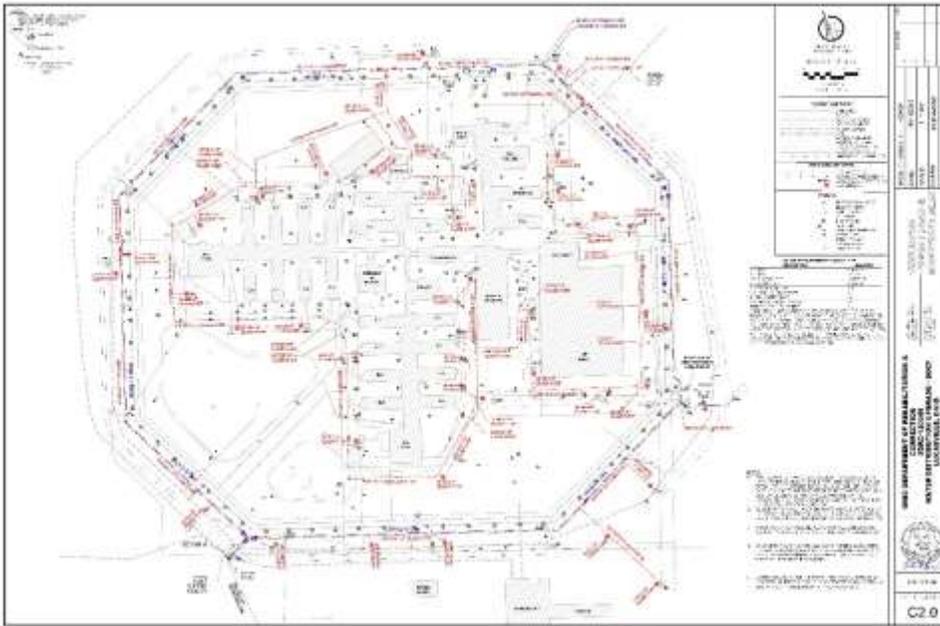


Southern Ohio Correctional Facility Water Service and Fire Protection Waterline Replacement Project Lucasville, Ohio



Client/Location

Southern Ohio
Correctional Facility
1724 Ohio 728
Lucasville, OH 45699

Client Reference

Gary Howard
Facilities Project Manager
ODRC
gary.howard@odrc.state.oh.us

Project Status

Complete

Dates of Service

Design – 2018
Construction – 2019

Special Features

- Directional Boring
- Fire Hydrant
- Fire Protection Line
- Service Waterline
- EPA Permitting
- Construction Inspection
- Valve Building Connections
- Topographic Survey
- Water Tank Connections
- Fire Marshal Coordination

Project Description

The Ohio Department of Rehabilitation and Corrections contracted Howerton Engineering & surveying in 2018 to design a replacement fire protection and water service lines supplying the institution. The facility was surveyed and all existing as-built plans of the prison were mapped.

The existing system was approaching its end of life cycle and the prison was experiencing multiple breaks and leaks along the system. Over the years many undocumented repairs had been performed causing confusion and difficulties to the prison's maintenance staff.

The overall goal of this project was to provide the prison with two different water sources: a water tank being supplied by the City of Portsmouth and a water service line from Water-1. Within the existing valve building we designed a pipe infrastructure that would allow the prison to switch between Portsmouth or Water-1 by opening and closing a few valves.

The project included 15,000 LF of 10" ductile iron pipe, 7,000 LF of 6" C900, and 35 Fire Hydrants. Fire hydrants were replaced within the double security fencing, this was achieved by reviewing the prison's fencing as-builts and performing three direction bores under the fence's concrete footer.

The main goal for this project was to provide the prison with as many emergency connections and valves within the system. The purpose of doing this was to ensure that if breaks would happen anywhere within the system the prison could open/close valves and still maintain water service for the prisoners as well as supplying water to the prison's existing boilers.

The project is current on schedule and under budget.

**HOWERTON
ENGINEERING &
SURVEYING PLLC**

Southern Ohio Correctional Facility Water Service and Fire Protection Waterline Replacement Project Lucasville, Ohio



Client/Location

Southern Ohio
Correctional Facility
1724 Ohio 728
Lucasville, OH 45699

Client Reference

Gary Howard
Facilities Project Manager
ODRC
gary.howard@odrc.state.oh.us



Project Status

Complete

Dates of Service

Design – 2018
Construction – 2019

Special Features

- Directional Boring
- Fire Hydrant
- Fire Protection Line
- Service Waterline
- EPA Permitting
- Construction Inspection
- Valve Building Connections
- Topographic Survey
- Water Tank Connections
- Fire Marshal Coordination

