

June 3, 2016

## **EEWWTP Fire Alarm Scope of Work**

### **Existing System**

12 zone conventional Notifier fire alarm control panel that is monitored by the city of Portland using a site master box. Building is partially sprinklered with water flow switches reporting to the alarm control panel. Selected areas have spot detection in the form of smoke, heat, duct smoke and manual pull stations as indicated on the plan. Additionally there are smoke detectors installed for elevator recall.

### **Reason For Fire Alarm Upgrade**

Customer is adding a Blower Room and Electrical Control Room within the existing tunnel and the fire alarm control panel does not have expansion capabilities. Additionally, the main CPU is damaged, not properly supervising a tripped master box. We are proposing to upgrade existing conventional fire alarm control panel and detection to addressable equipment then add new equipment for the 2 new rooms as shown on the fire alarm drawings. This upgrade will allow enough spare capacity to fully update protection and detection for the foreseeable future.

### **New Proposed Fire Alarm System**

We propose installing a new Firelite addressable fire alarm control panel with additional NAC power supply to power the existing and new horn / strobe devices. The existing wiring, manual pull stations, audio visual devices, duct smoke detectors and water flow switches would remain unchanged however new monitor modules would be installed to convert the detection devices to addressable. The existing smoke detectors and relay modules would be replaced with new addressable devices. A new annunciator would be installed at the main entrance to the building.