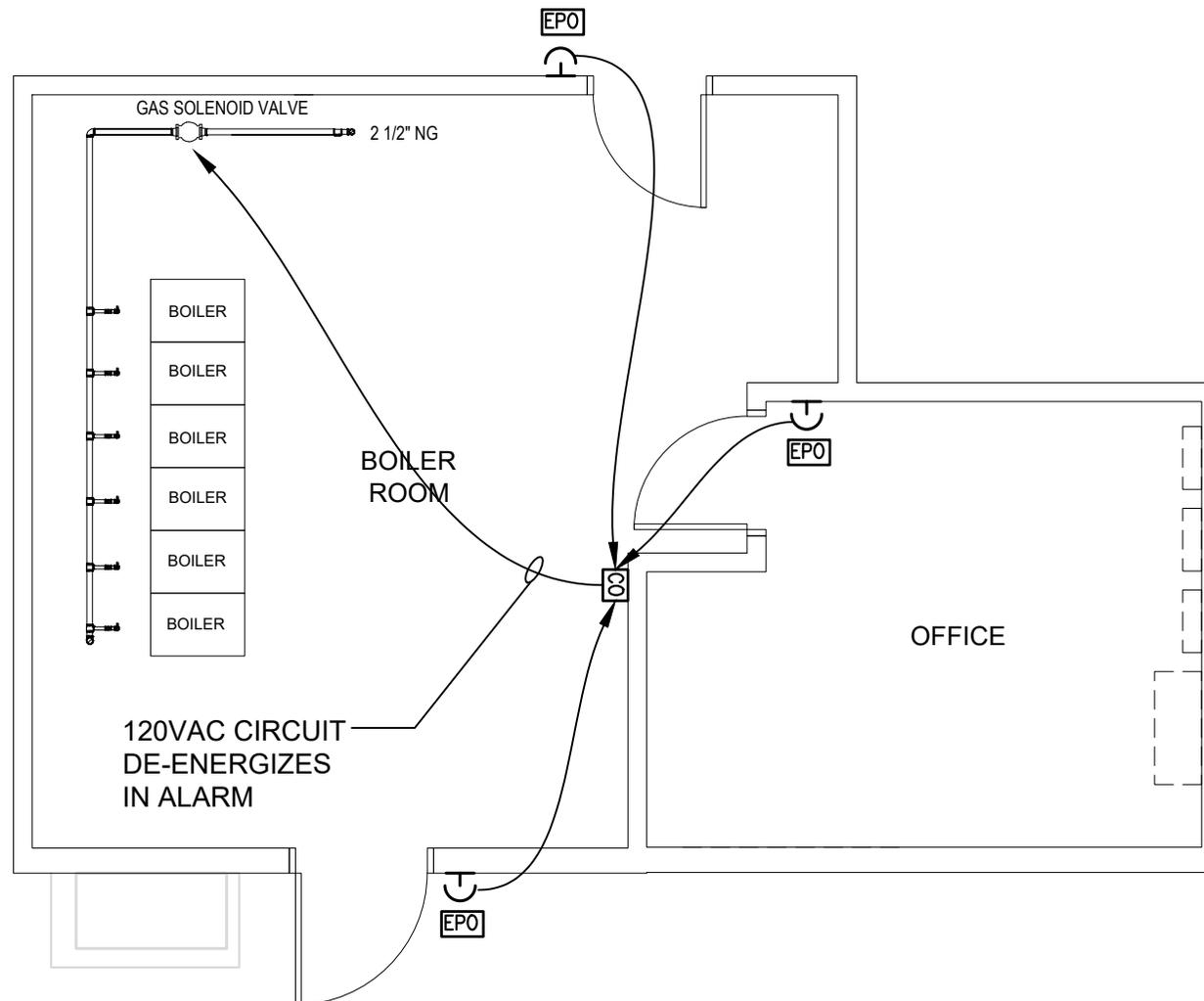
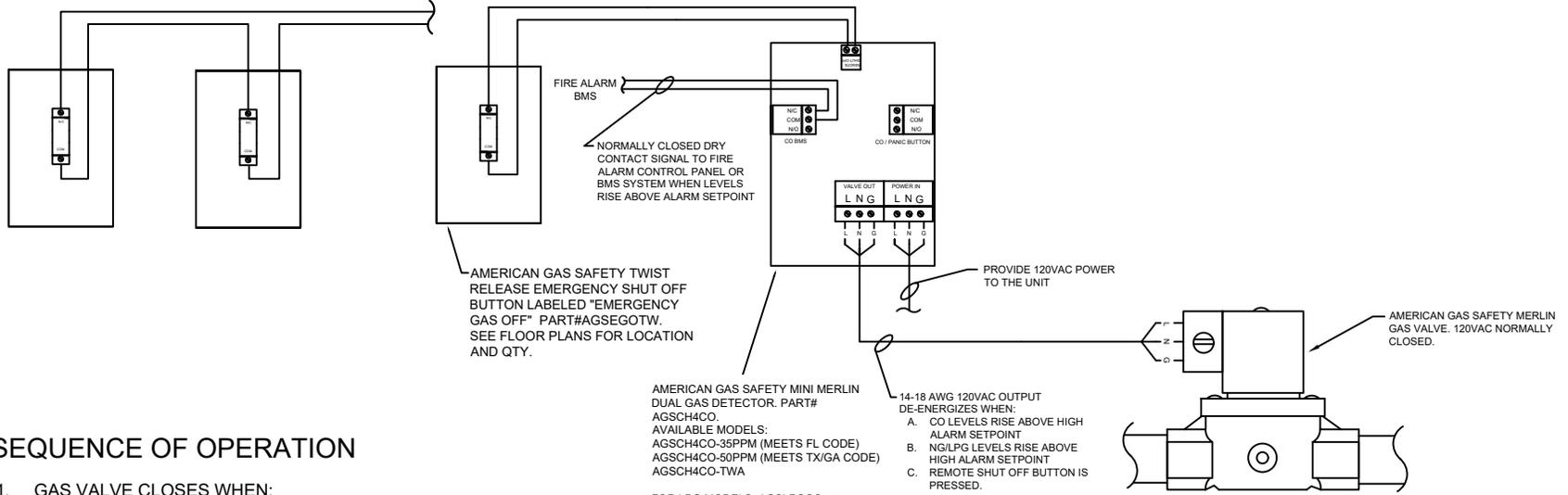


# EMERGENCY GAS SHUTDOWN ROOM LAYOUT



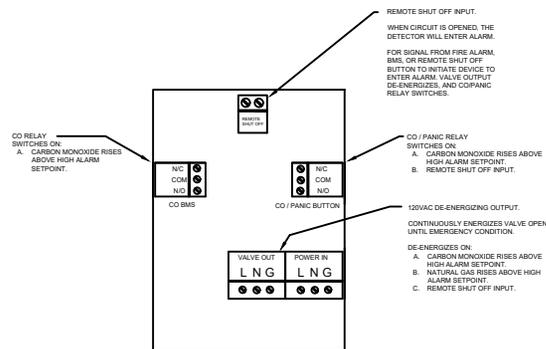
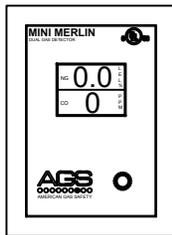
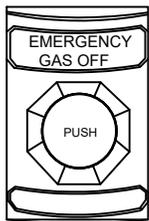
# EMERGENCY GAS SHUTDOWN DETAIL

**MULTIPLE PANIC BUTTONS**  
Wire in series as shown.  
Locate outside of each entrance  
per CSD-1 Requirements.



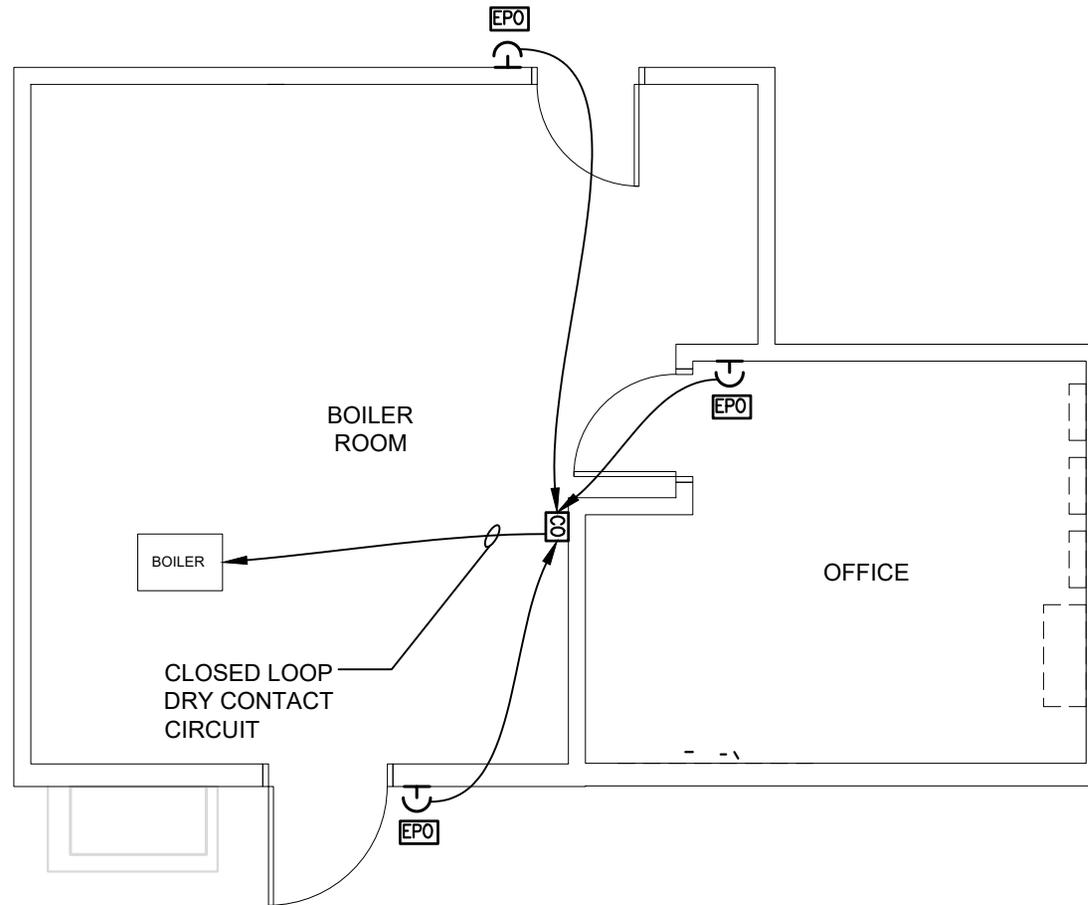
## SEQUENCE OF OPERATION

1. GAS VALVE CLOSES WHEN:
  - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
  - 1.2. NG/LPG RISES ABOVE HIGH ALARM SETPOINT.
  - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
    - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
  - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT

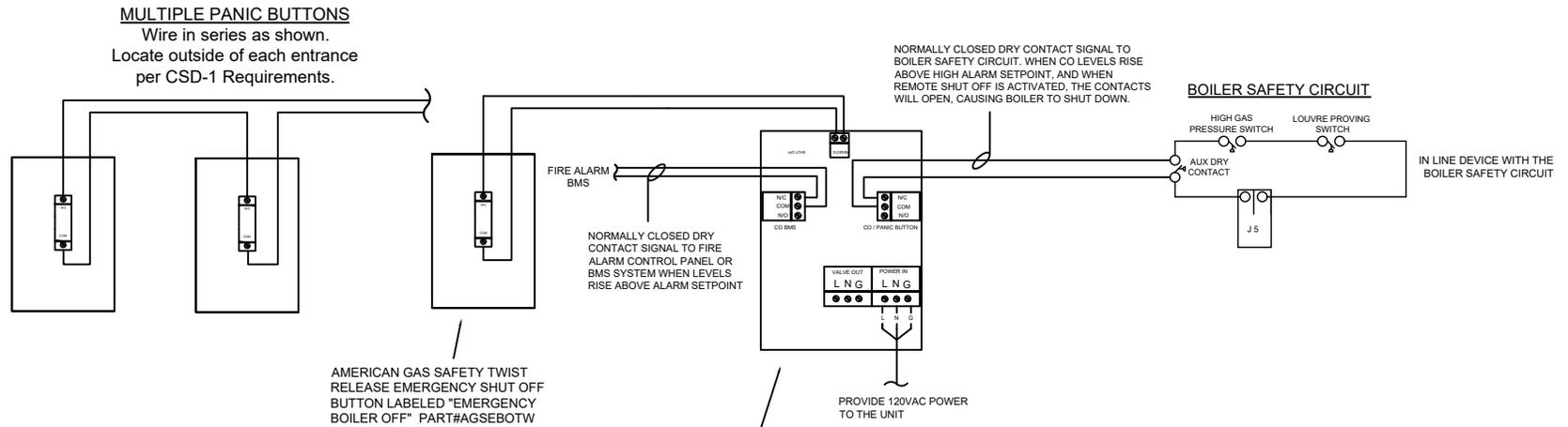


## CIRCUIT BOARD OVERVIEW

# BOILER SAFETY CIRCUIT SHUTDOWN LAYOUT - ONE BOILER



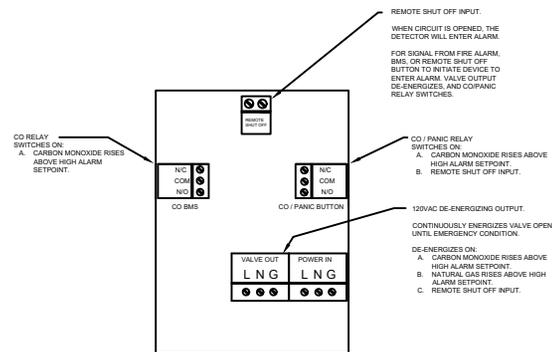
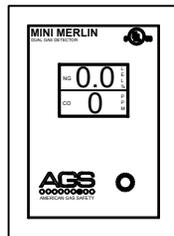
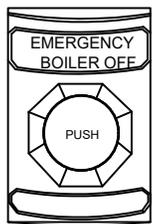
# BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - ONE BOILER



## SEQUENCE OF OPERATION

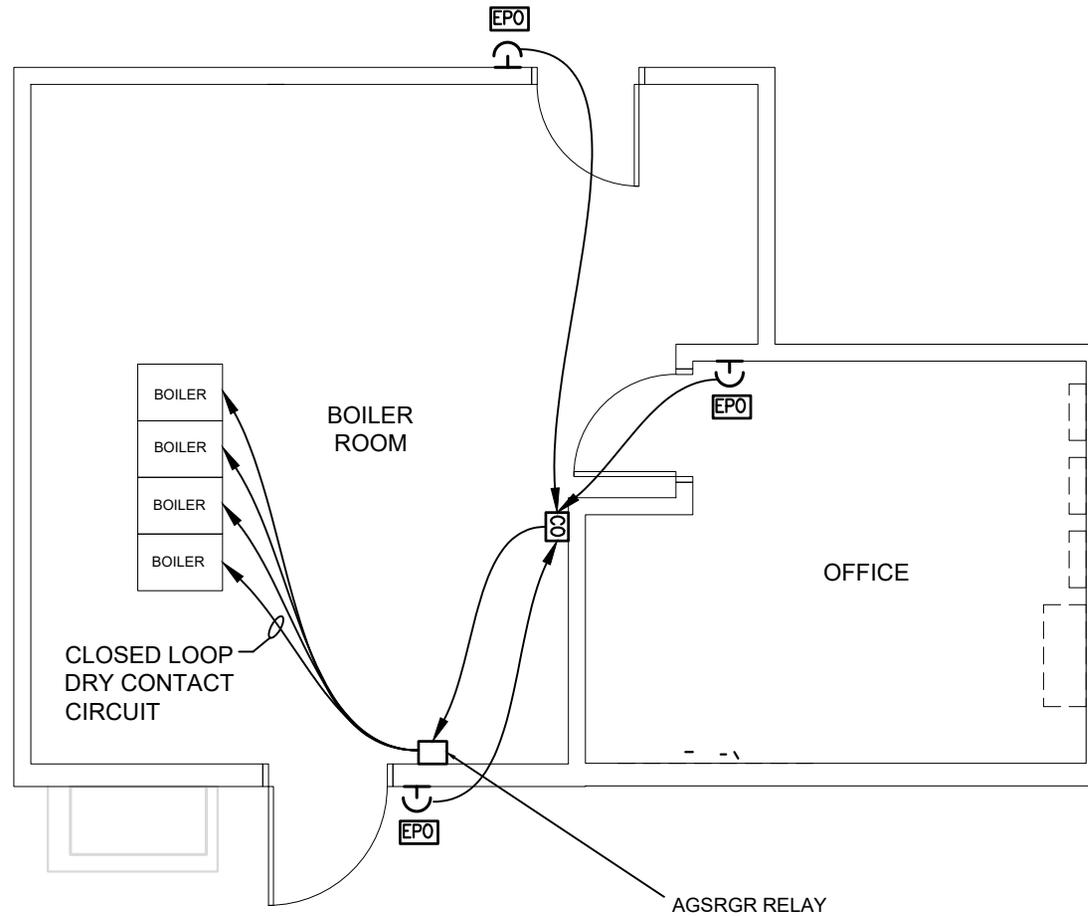
1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
  - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT
  - 1.2. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
    - 1.2.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
  - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT

AMERICAN GAS SAFETY MINI MERLIN  
DUAL GAS DETECTOR, PART#  
AGSCH4CO.  
AVAILABLE MODELS:  
AGSCH4CO-35PPM (MEETS FL CODE)  
AGSCH4CO-50PPM (MEETS TX/GA CODE)  
AGSCH4CO-TWA  
FOR LPG VERSIONS: AGSLPGCO-xx

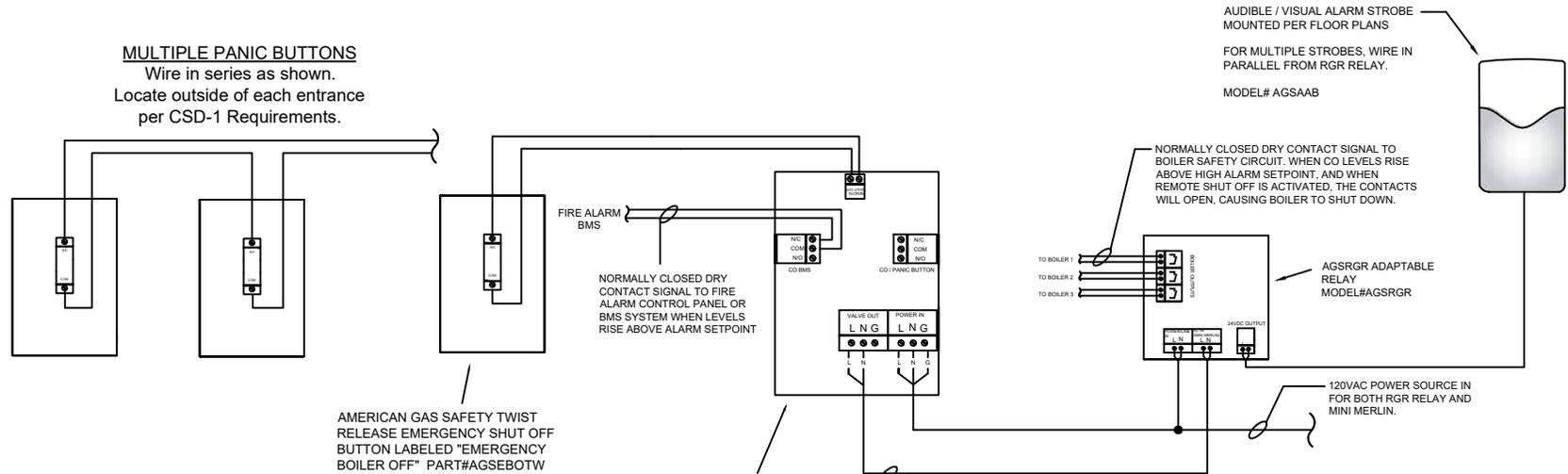


CIRCUIT BOARD OVERVIEW

# BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - MULTIPLE BOILERS



# BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - MULTIPLE BOILERS

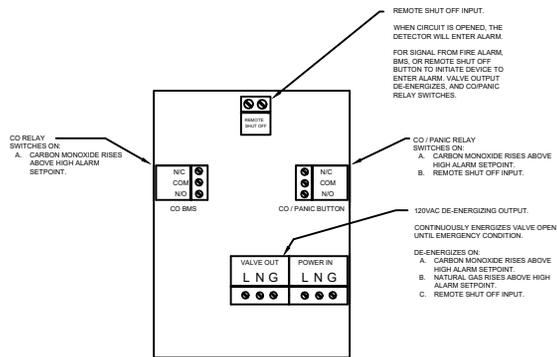
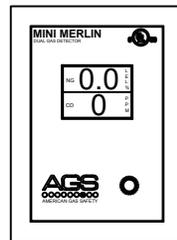
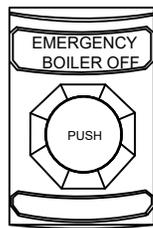


AMERICAN GAS SAFETY MINI  
MERLIN DUAL GAS DETECTOR.  
PART# AGSCH4CO.  
AVAILABLE MODELS:  
AGSCH4CO-35PPM  
AGSCH4CO-50PPM  
AGSCH4CO-TWA  
FOR LPG VERSIONS: AGSLPGCO-xx

14-18 AWG 120VAC OUTPUT  
DE-ENERGIZES WHEN:  
A. CO LEVELS RISE ABOVE HIGH  
ALARM SETPOINT  
B. NG/LPG LEVELS RISE ABOVE  
HIGH ALARM SETPOINT  
C. REMOTE SHUT OFF BUTTON IS  
PRESSED.

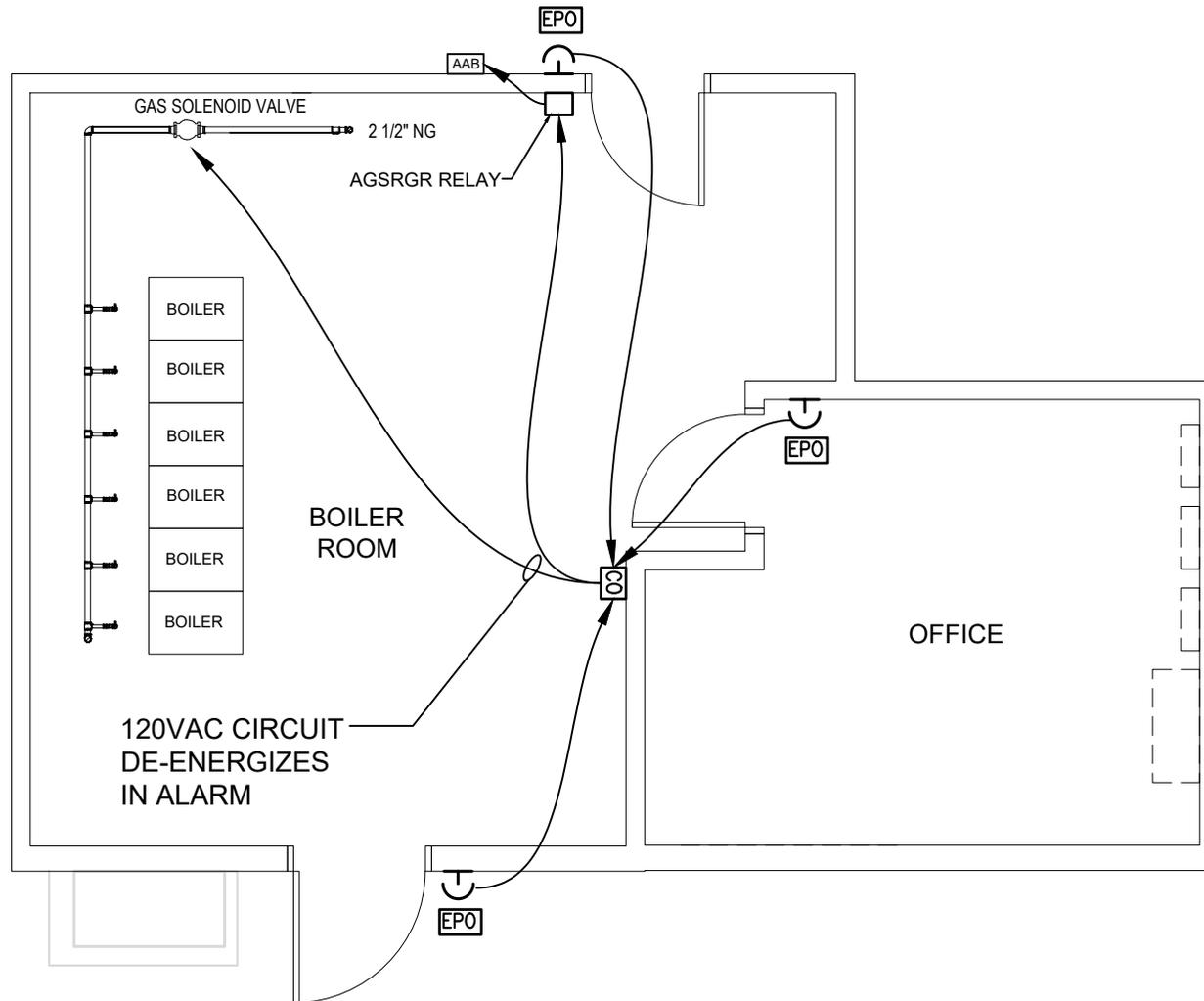
## SEQUENCE OF OPERATION

1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
  - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
  - 1.2. NATURAL GAS / LPG RISES ABOVE HIGH ALARM SETPOINT
  - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
    - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH  
ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
  - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT



## CIRCUIT BOARD OVERVIEW

# GAS VALVE & AGSAAB ROOM WITH AGSRGR

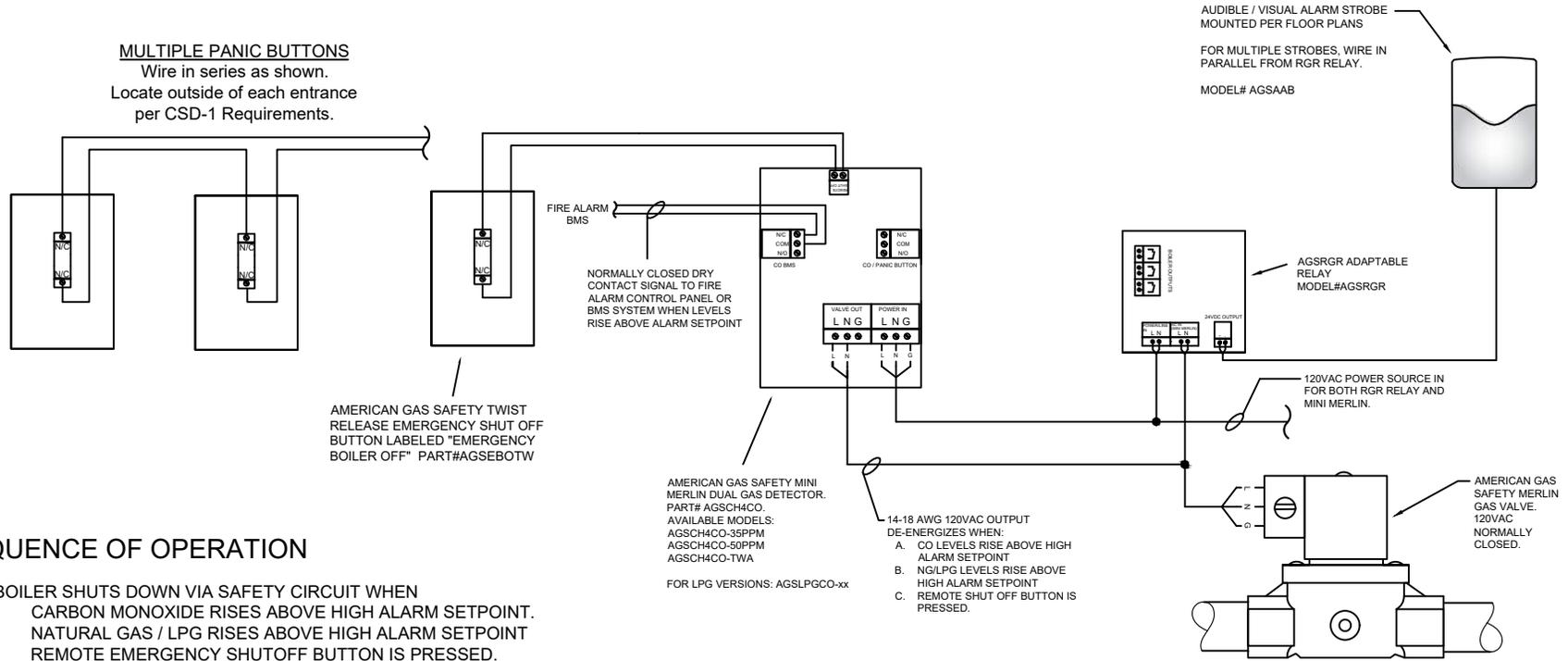


2

DETAIL - GAS MONITORING SYSTEM SOLENOID VALVE & AGSAAB

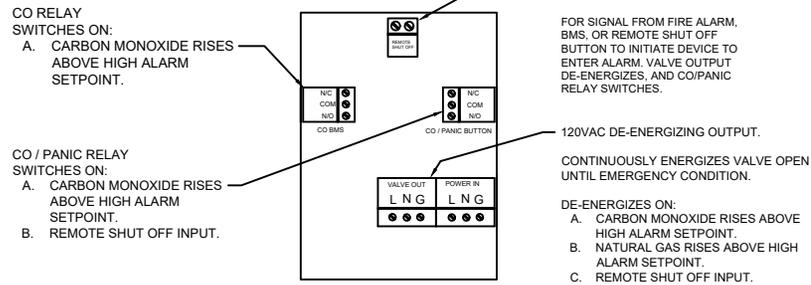
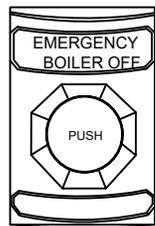
N.T.S.

# GAS VALVE & AGSAAB WITH AGSRGR



## SEQUENCE OF OPERATION

1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
  - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
  - 1.2. NATURAL GAS / LPG RISES ABOVE HIGH ALARM SETPOINT
  - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
    - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
  - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT

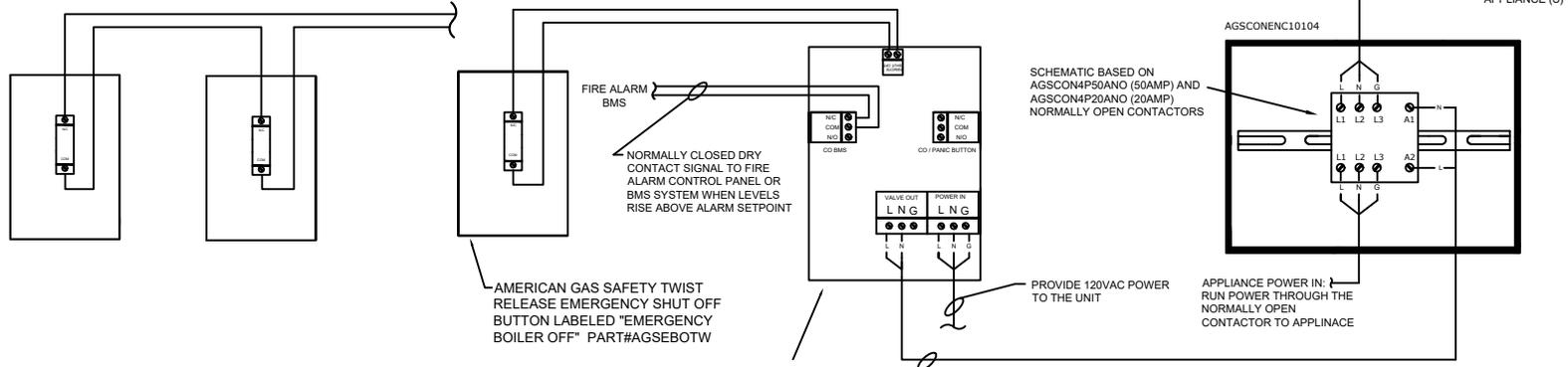


## CIRCUIT BOARD OVERVIEW

# BOILER POWER SHUTDOWN DETAIL

## MULTIPLE PANIC BUTTONS

Wire in series as shown.  
Locate outside of each entrance  
per CSD-1 Requirements.



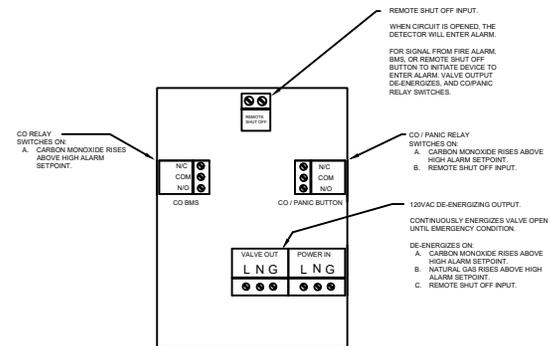
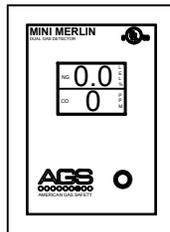
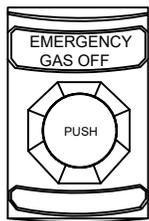
## SEQUENCE OF OPERATION

1. BOILER POWER CUT OFF WHEN:
  - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
  - 1.2. NG/LPG RISES ABOVE HIGH ALARM SETPOINT.
  - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
    - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
  - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT

AMERICAN GAS SAFETY MINI MERLIN  
DUAL GAS DETECTOR, PART#  
AGSCH4CO.  
AVAILABLE MODELS:  
AGSCH4CO-SPPM (MEETS FL CODE)  
AGSCH4CO-50PPM (MEETS TX CODE)  
AGSCH4CO-TWA

FOR LPG: CHANGE TO AGSLPGCO-xx

14-18 AWG 120VAC OUTPUT  
DE-ENERGIZES WHEN:  
A. CO LEVELS RISE ABOVE HIGH  
ALARM SETPOINT  
B. NG/LPG LEVELS RISE ABOVE  
HIGH ALARM SETPOINT  
C. REMOTE SHUT OFF BUTTON IS  
PRESSED.



CIRCUIT BOARD OVERVIEW