

BLC

BASIC LAB CONTROLS

BLC Series Pre-Assembled Solenoid Enclosures

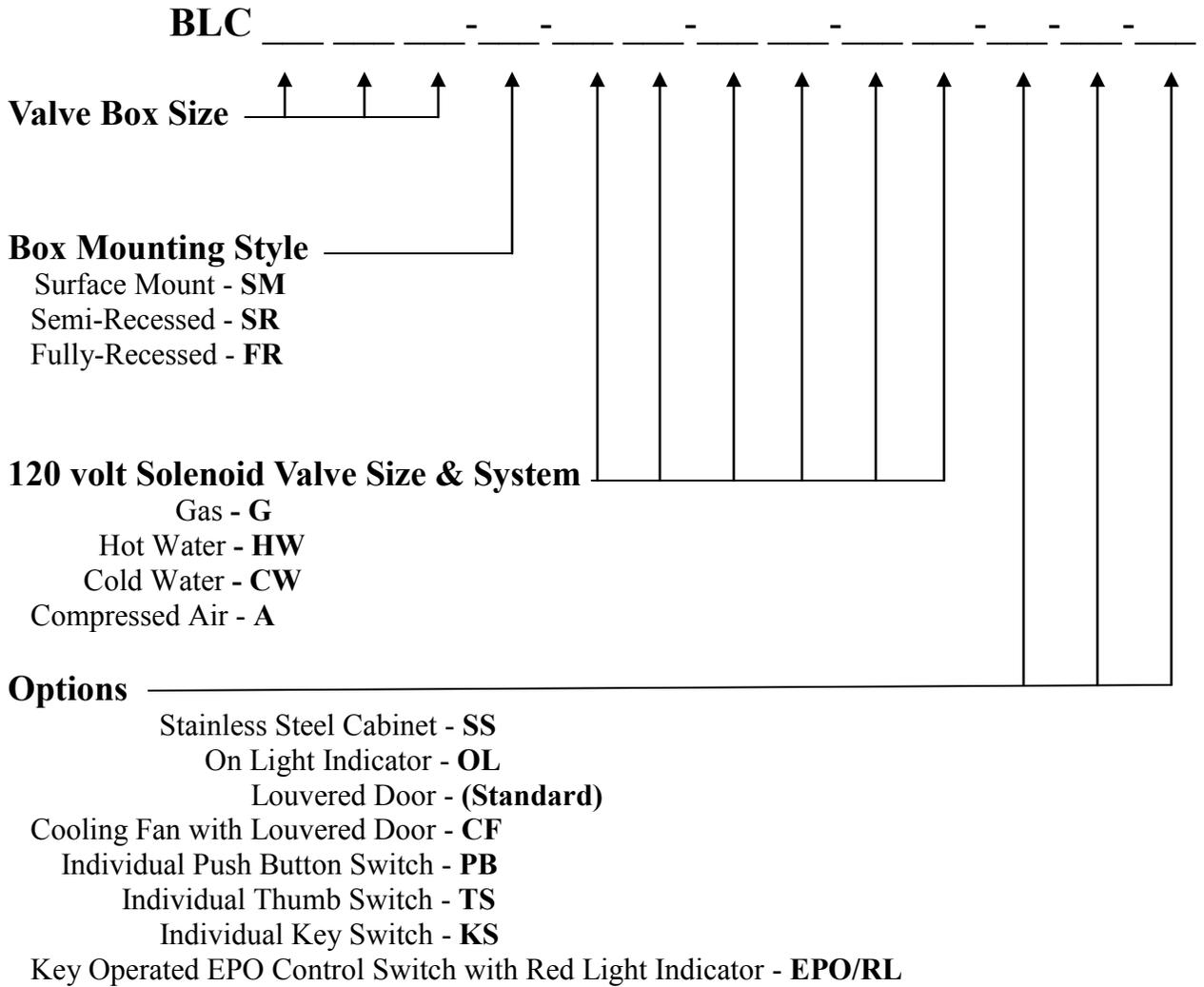


**The BLC Series Enclosures are pre-assembled
with threaded shut-off valves, strainers and
union fittings**

BLC Series Enclosure

Pre-Assembled White Powder Coated Solenoid Enclosure

Model Number and Description



Standard Solenoid Valve Description

The Solenoid Valves are ASCO NPT Valve Sizes 1/2" thru 1-1/2"
 Brass Body Construction
 Maximum Operating Temperature 180f / 82.2c
 120 VAC wiring required
 All Solenoid Coils are NEMA-1 rating

STANDARD BLC VALVE BOX ENCLOSURES

	<u>BOX SIZE DIMENSIONS</u>	<u>NUMBER OF VALVES</u>	<u>PIPE & VALVE SIZES</u>
HEIGHT	20"	1 or 2	1/2" - 3/4" - 1"
WIDTH	20"		
DEPTH	6" or 8"		
HEIGHT	24"	3	1/2" - 3/4" - 1"
WIDTH	24"		
DEPTH	8"		
HEIGHT	30"	2	1-1/4"
WIDTH	24"		
DEPTH	8"		
HEIGHT	30"	3	1-1/4"
WIDTH	30"		
DEPTH	8"		
HEIGHT	36"	1 or 2 or 3	1-1/2"
WIDTH	36"		
DEPTH	8"		

Note: Valve Box Enclosure Size is Determined by the Number of Valves and Size of the Valves.
 All Valve Box Assemblies will include Manual Shut-Off Valves, Strainers, Unions and
 Electrical J-box for Wiring Connections.

BLC Solenoid valve enclosure with key locked louvered door, cooling fan and individual utility switches. Door below shown with three different types of Optional Individual Switches; Thumb Turn Switch, Push Button Switch, and Key Switch. Individual switches are controlled by integrated key operated EPO/RL switch with Red Light Indicator and Emergency Shut-off Button.



BLC-SR-SS UTILITY CONTROLLER

Recessed or Surface Mounted Nema-1 Stainless Steel Utility Controller, with Locking Door, Individual Thumb Switches to Control 120 volt Gas and Water Solenoid Valves, 120 volt Electrical Outlets at Student & Teachers Work Stations. Green Indicator Light for each Utility Control Switch. Controller to be Integrated with Solenoid Valve Enclosure & Electrical Contact Enclosure and includes Red Key Operated Pushbutton On/Off Switch with Emergency Panic Control.

BLC-080804-SR-SS-2-TS Unit (8" x 8" x 4") to Control 120 volt Gas Solenoid Valve and 120 volt Electrical Outlets

BLC-080804-SR-SS-3-TS Unit (8" x 8" x 4") to Control 120 volt Gas and Water Solenoid Valves, and 120 volt Electrical Outlets

BLC-081004-SR-SS-4-TS Unit (8" x 10" x 4") to Control 120 volt Gas and Water Solenoid Valves, Fume Hood, and 120 volt Electrical Outlets

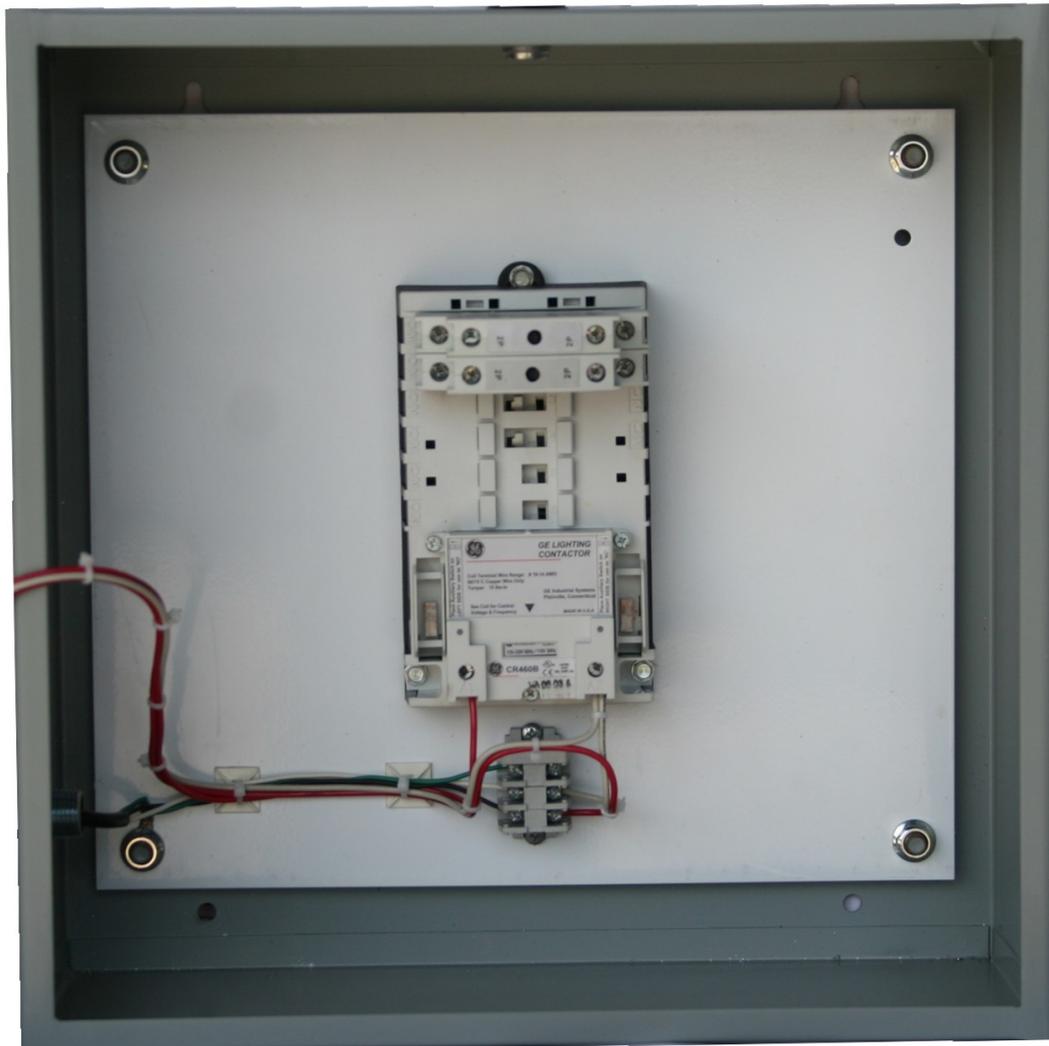
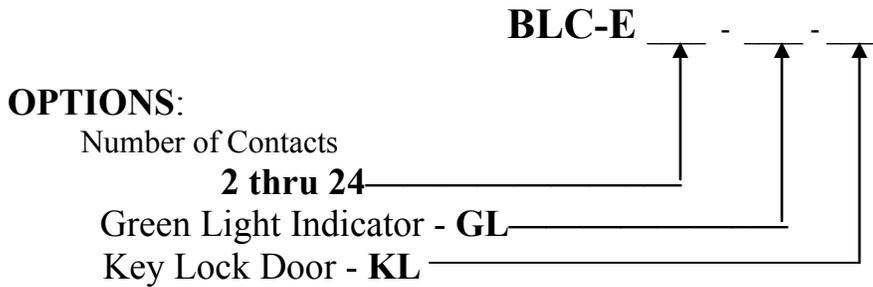
Options-SS Stainless Steel with Satin Finish (Standard)

- SR Semi-Recessed
- SM Surface Mount
- TS Individual Thumb Control Switches
- PB Individual Pushbutton Control Switches (Shown with Controller below)
- KR Individual Key Operated Control Switches
- D Delay Timer for Fume Hood Exhaust Fan



BLC-E SERIES PRE-ASSEMBLED ELECTRICAL CIRCUIT ENCLOSURE

BLC-E SERIES ELECTRICAL CIRCUIT ENCLOSURE IS A PRE-ASSEMBLED NEMA 1 GRAY POWDER COATED ENCLOSURE WITH HINGED SCREWDRIVER LATCH DOOR. THE ENCLOSURE IS SURFACE MOUNTED AND HAS UP TO 24 RELAY CONTACT BLOCKS (120 VOLT - MINIMUM 30, MAXIMUM 100 AMPS EACH) TO CONTROL UP TO 48 ELECTRICAL OUTLETS AT EACH STUDENT AND TEACHER WORK STATION. THE ENCLOSURE SIZE IS 16" X 16" X 6" DEEP.



TYPICAL SPECIFICATION

V-1 SOLENOID VALVE BOX

MODEL BLC-20206-SR-1G-1CW-CF-EPO/RL WHITE POWDER COATED SEMI-RECESSED NEMA-1 ENCLOSURE SIZE 20”H x 20”W x 6” D WITH FULL PANEL DOOR, COOLING FAN AND KEYED LOCK. FURNISHED WITH ONE 120 VOLT NORMALLY CLOSED 1” GAS AND 1” COLD WATER SOLENOID VALVE, INTEGRATED EMERGENCY SHUT-OFF BUTTON, KEY RESET SWITCH, CONTROL SWITCH FOR GAS AND WATER SERVICE TO SCIENCE PREP-ROOM, FUME HOOD, AND TEACHER’S DEMO DESK OUTLETS. VALVE BOX SHALL BE LABELED FOR ITS INTENDED USE AND ASSEMBLED WITH THREADED LEVER HANDLE MAIN BALL VALVE AND 20-MESH STRAINER WITH UNION FITTING UPSTREAM OF SOLENOID VALVE ASSEMBLY AND UNION FITTING DOWN STREAM OF VALVE ASSEMBLY. REFER TO ELECTRICAL DRAWING FOR WIRING REQUIREMENT AND CONTRACTOR LOCATION AND EPO NEAR TEACHER’S DEMO DESK.



BLC enclosure with cooling fan and louvered door.



ALBERT STERLING & ASSOCIATES, INC.

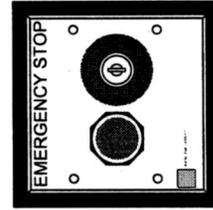
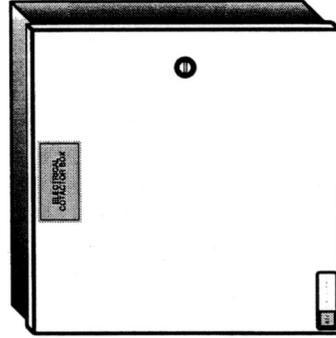
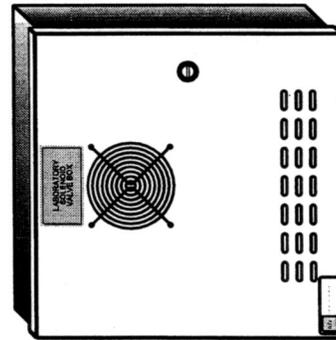
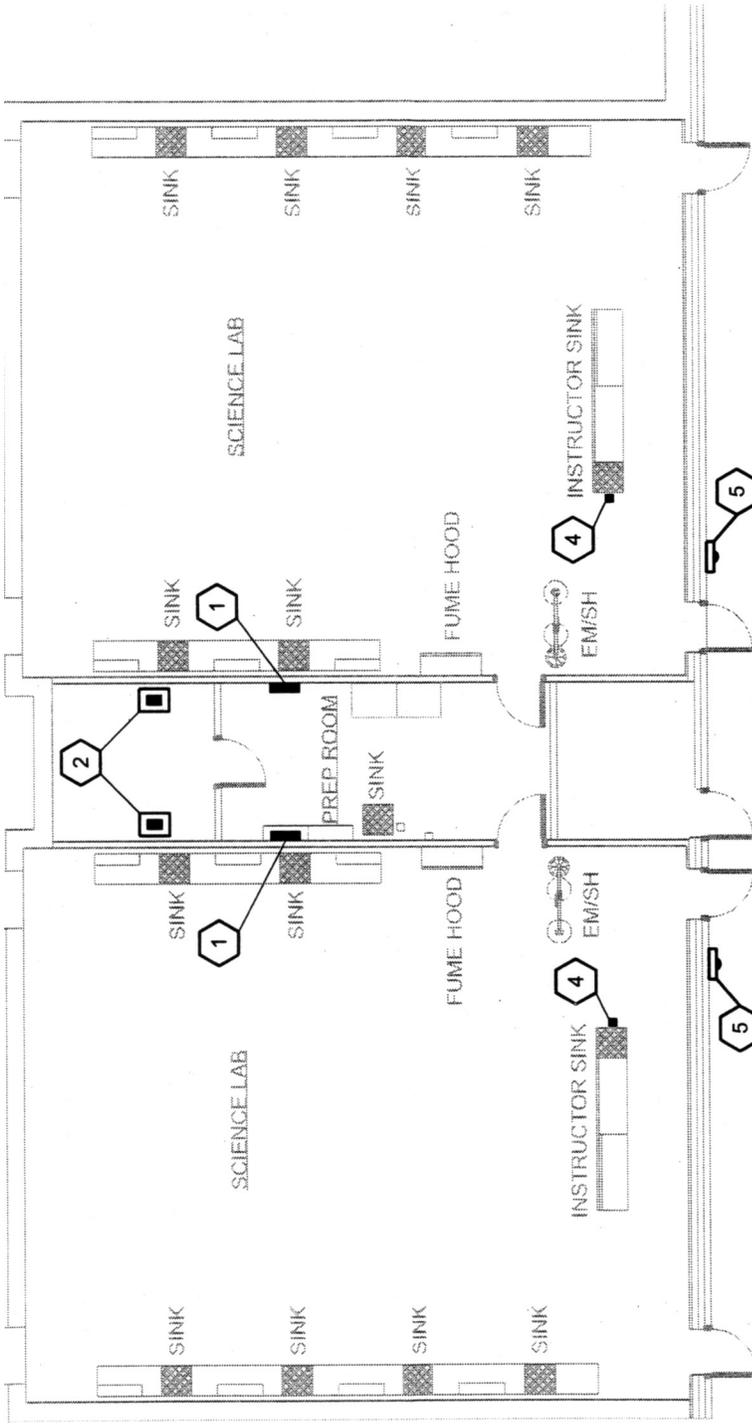
www.AlbertSterling.com

Dallas
972-458-8015

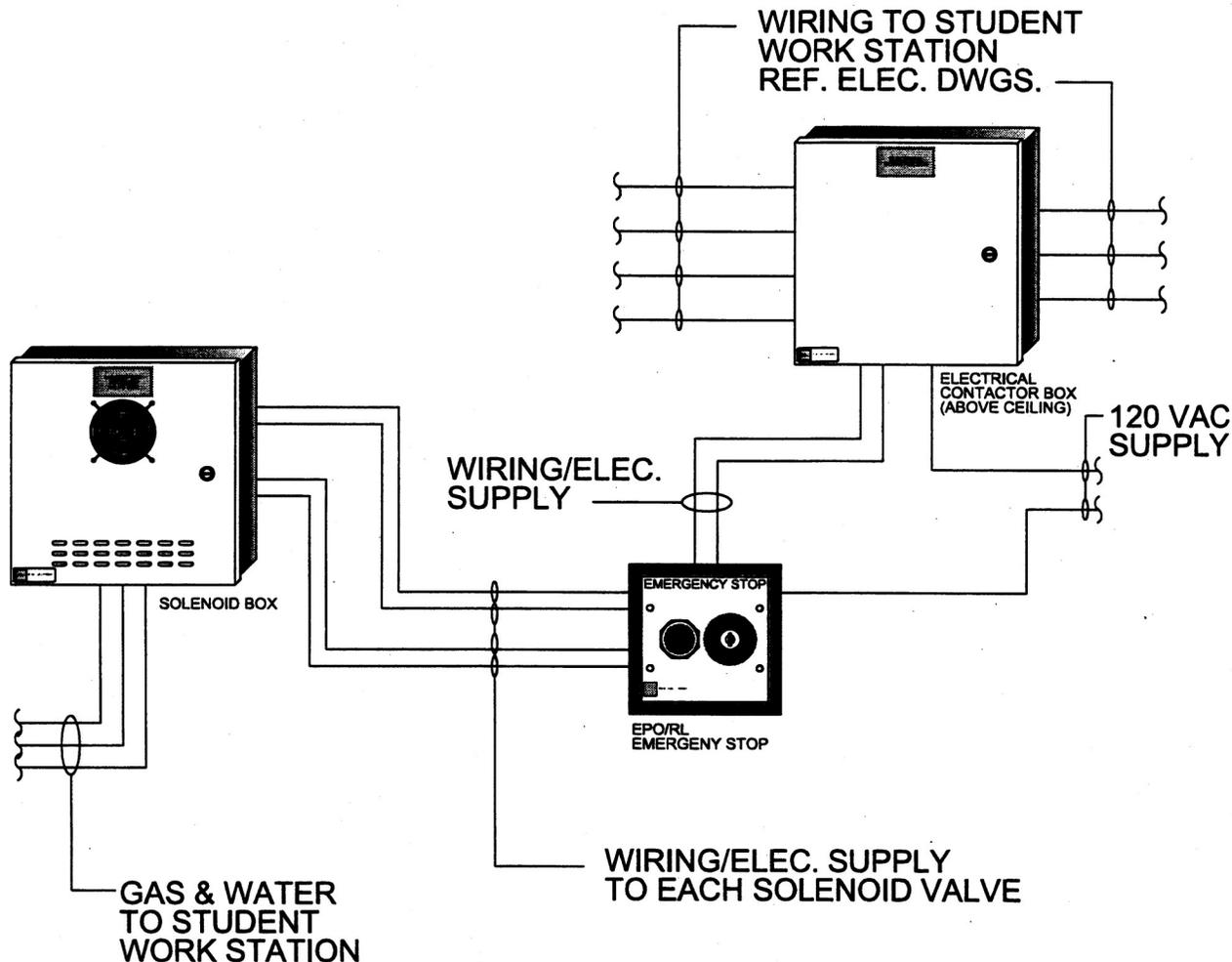
Houston
713-780-1600

San Antonio
210-349-9828

SCENARIO ONE ROOM LAYOUT



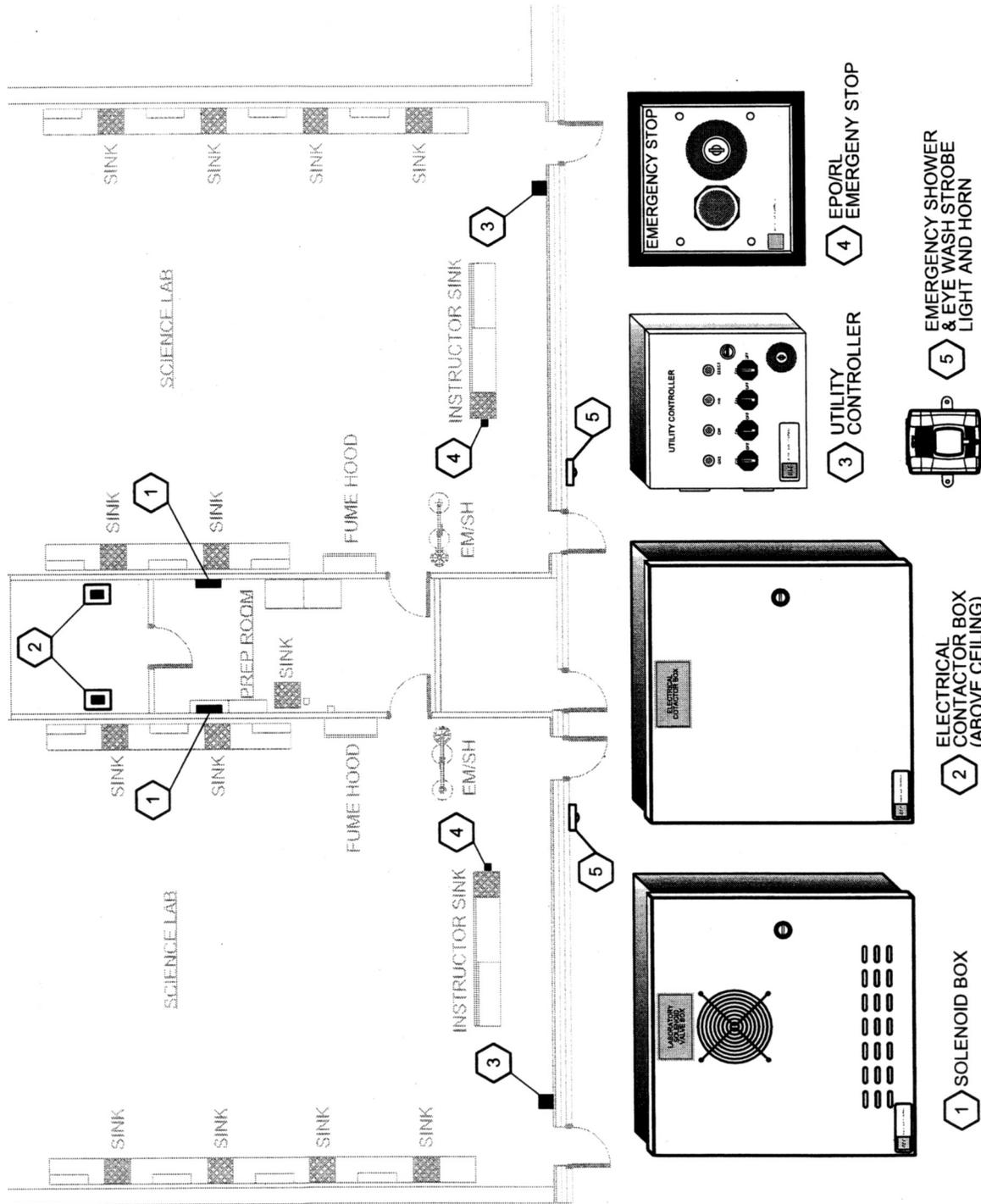
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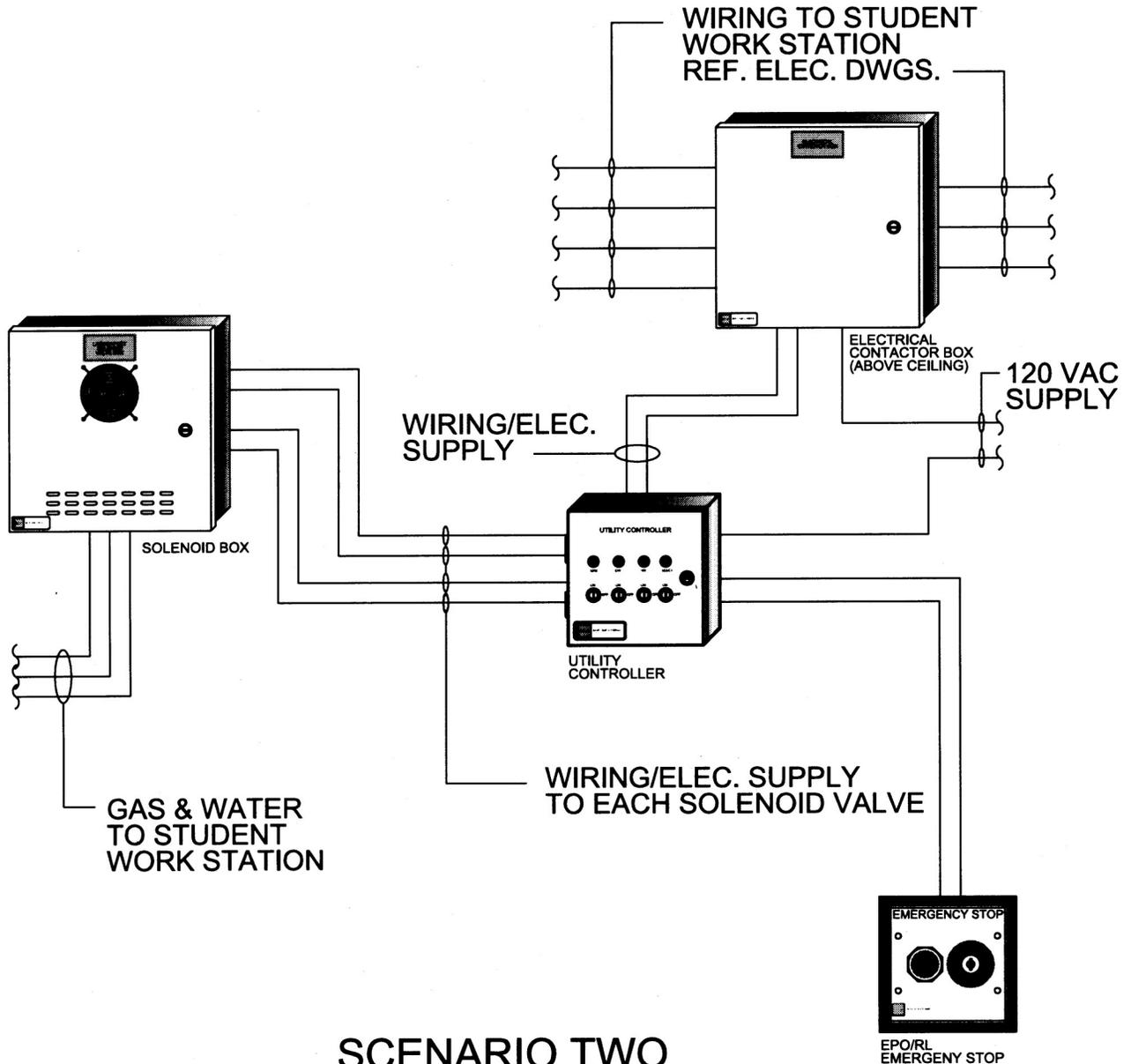
SCENARIO ONE

**TYPICAL SCIENCE LAB UTILITY
CONTROLLER PANEL DIAGRAM**

SCENARIO TWO ROOM LAYOUT



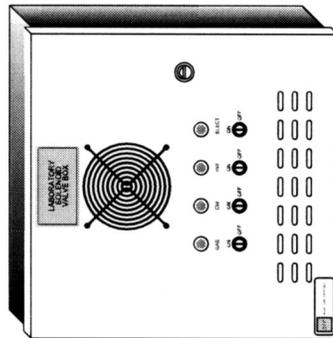
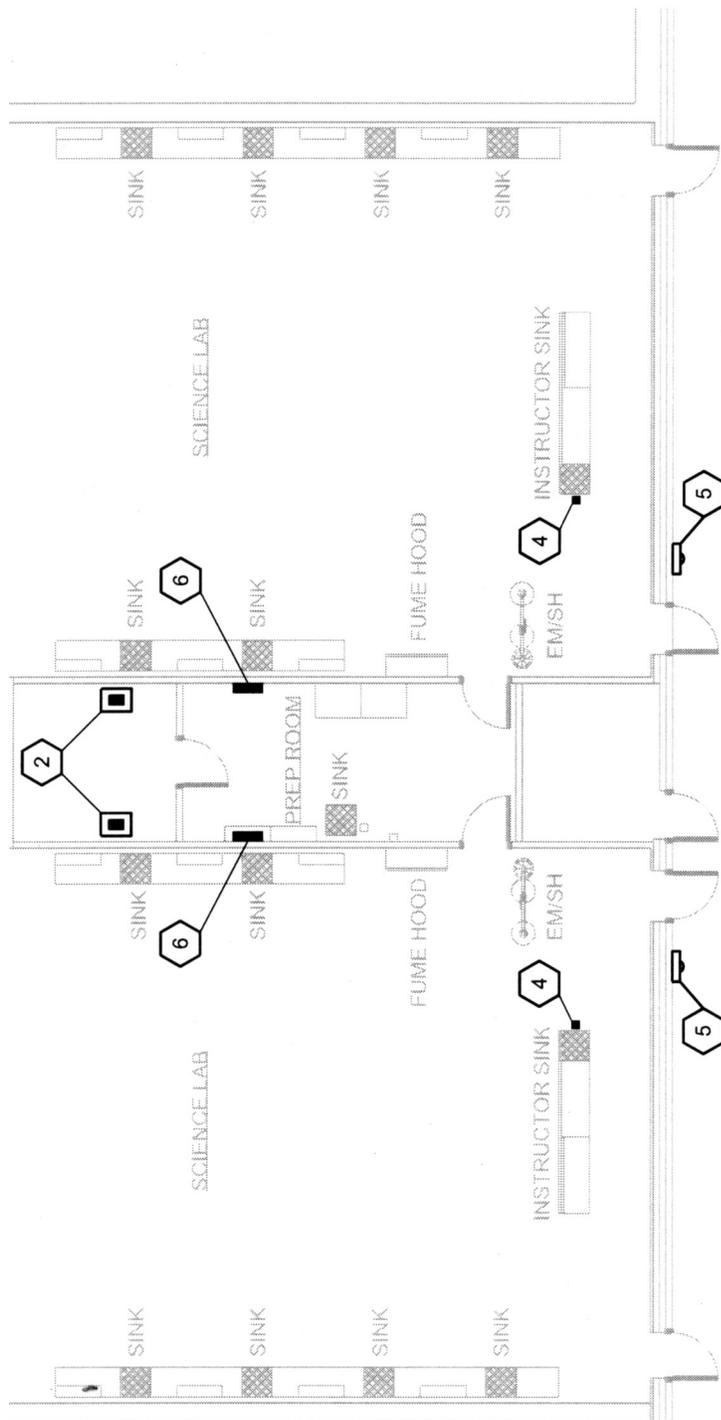
SCENARIO TWO



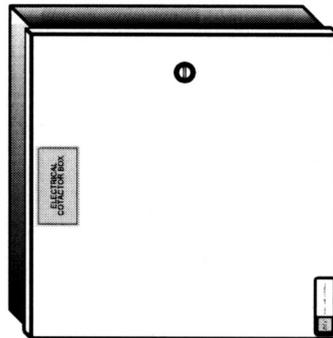
SCENARIO TWO

TYPICAL SCIENCE LAB UTILITY CONTROLLER PANEL DIAGRAM

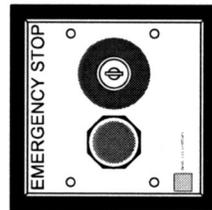
SCENARIO THREE ROOM LAYOUT



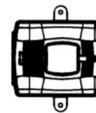
6 SOLENOID BOX WITH UTILITY CONTROLLER



2 ELECTRICAL CONTACTOR BOX (ABOVE CEILING)

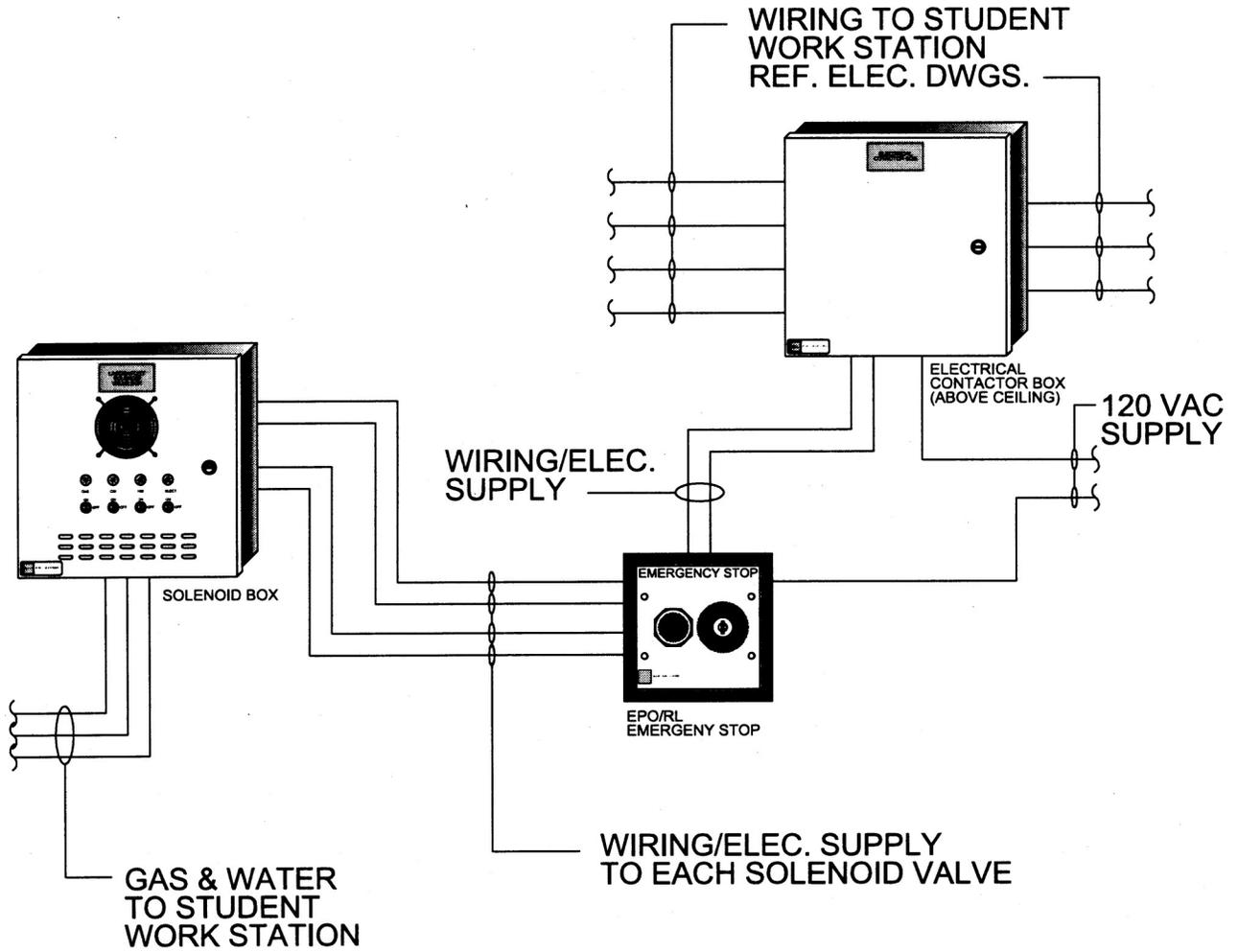


4 EPO/RL EMERGENCY STOP



5 EMERGENCY SHOWER & EYE WASH STROBE LIGHT AND HORN

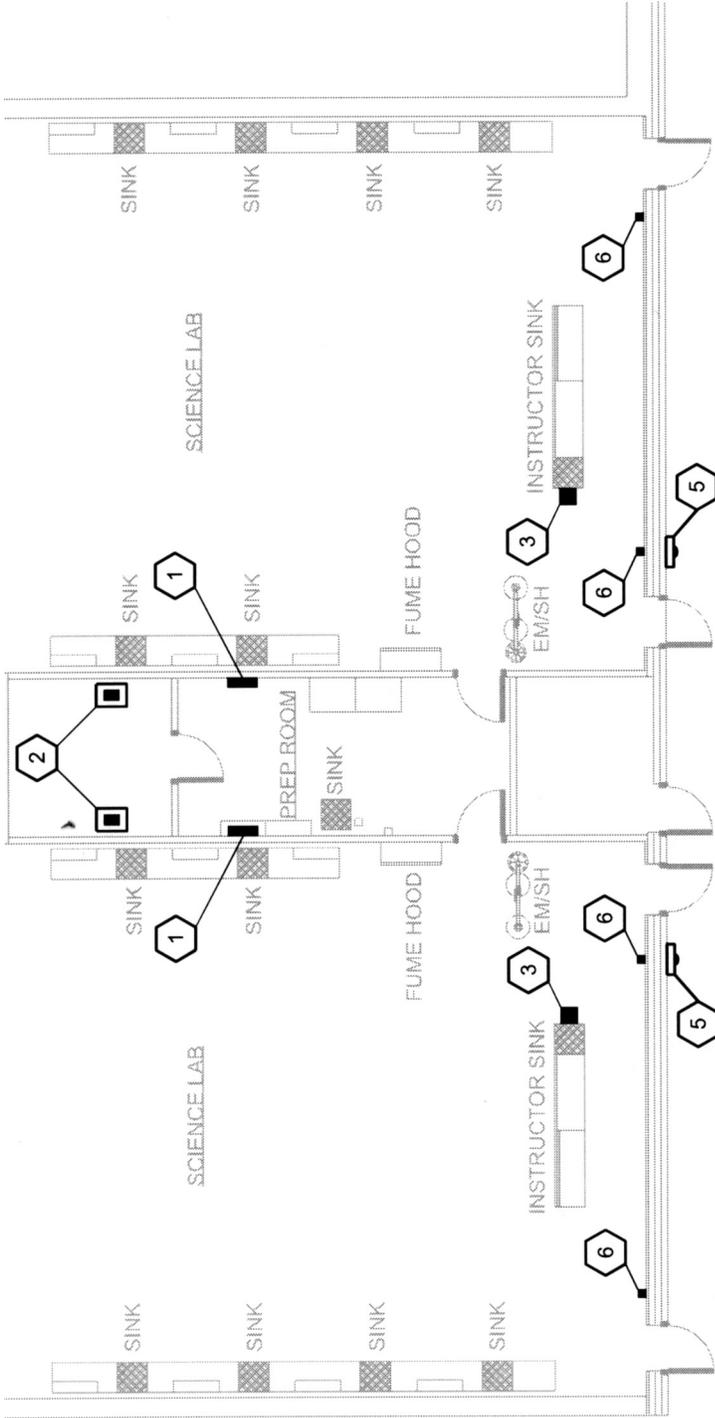
SCENARIO THREE



SCENARIO THREE

TYPICAL SCIENCE LAB UTILITY
CONTROLLER PANEL DIAGRAM

SCENARIO FOUR ROOM LAYOUT



1 SOLENOID BOX

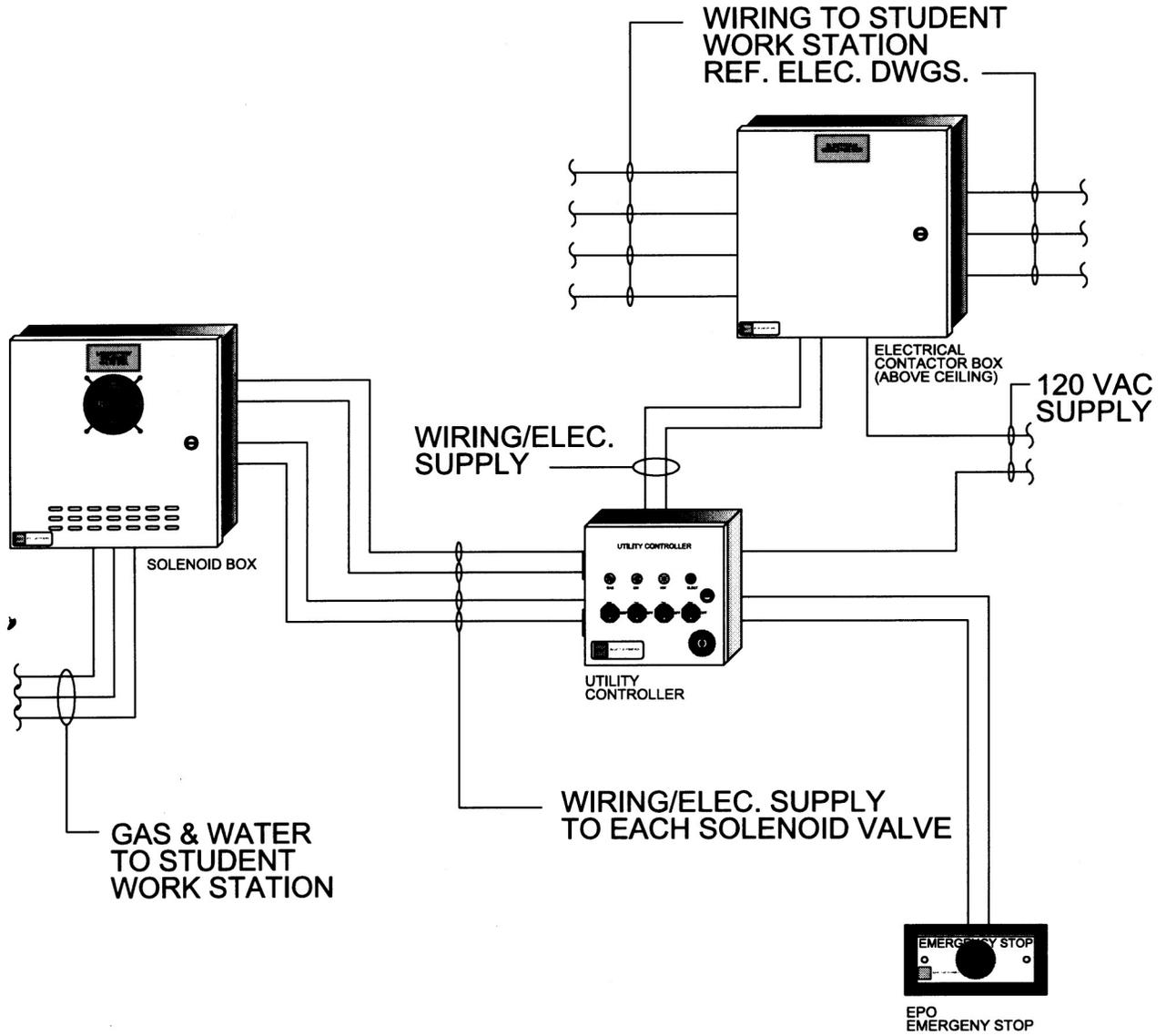
2 ELECTRICAL CONTACTOR BOX (ABOVE CEILING)

3 UTILITY CONTROLLER

5 EMERGENCY SHOWER & EYE WASH STROBE LIGHT AND HORN

6 EPO EMERGENCY STOP

SCENARIO FOUR



SCENARIO FOUR

TYPICAL SCIENCE LAB UTILITY CONTROLLER PANEL DIAGRAM