Method of Operation:

Both doors are normally closed and unlocked. An LED annunciator outside each door will illuminate Green to indicate the bathroom is available.

System Activation:

Upon entering the bathroom and closing both doors, pressing the Activation Button once will lock both doors and turn ON the indicator lamps on the Activation and Emergency Release Buttons indicating the system is active. The LED annunciators will illuminate Red to indicate the bathroom is occupied.

System Deactivation:

Pressing the Activation Button a second time will unlock both doors, turn off all button indicator lamps, and return the LED annunciator to Green.
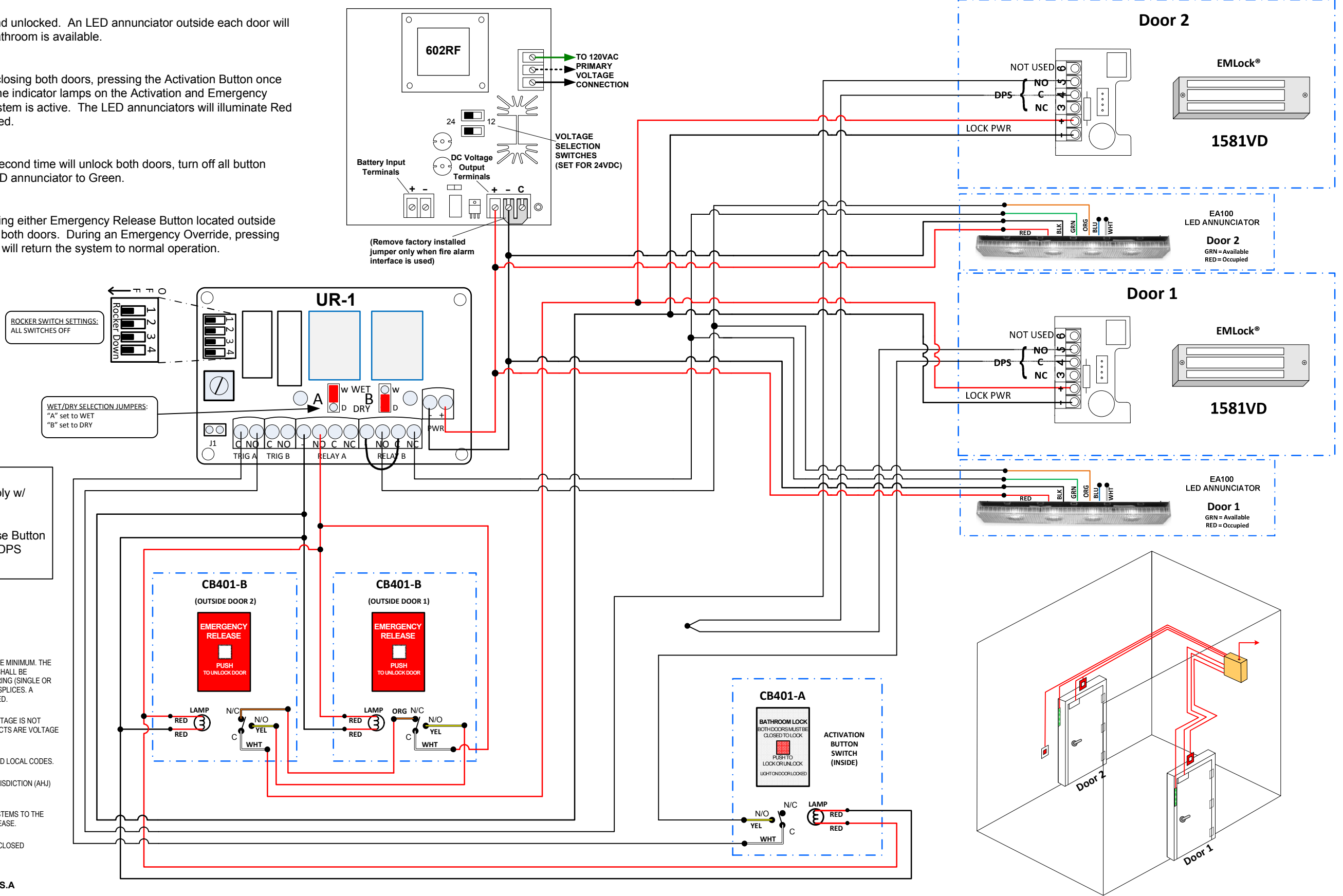
Emergency Override:

When the doors are locked, pressing either Emergency Release Button located outside each door will immediately unlock both doors. During an Emergency Override, pressing either Emergency Release Button will return the system to normal operation.

System Components:

(1) **602RFXUR1** – 1A Power Supply w/ Comm. Bath Controller
(1) **CB401-A** – Activation Button
(2) **CB401-B** – Emergency Release Button
(2) **1581VD** – 650lb EMLock® w/ DPS
(2) **EA100** – LED Annunciator

NOTES:

(1) ALL LOW VOLTAGE SIGNAL WIRING SHALL BE 18-GAUGE MINIMUM. THE MINIMUM INDUCTIVE LOAD (LOCK) POWER WIRE GAUGE SHALL BE DETERMINED PER THE SDC WIRE GAUGE CHART. ALL WIRING (SINGLE OR MULTI-CONDUCTOR) SHALL BE COLOR CODED WITHOUT SPLICES. A MINIMUM OF TWO SPARE CONDUCTORS IS RECOMMENDED.

(2) SPECIFY VOLTAGE WHEN ORDERING PRODUCTS. VOLTAGE IS NOT SPECIFIED ON THIS WIRE DIAGRAM, BE SURE ALL PRODUCTS ARE VOLTAGE COMPATIBLE.

(3) ALL WIRING MUST CONFORM TO NATIONAL, STATE AND LOCAL CODES.

(4) ALWAYS CONSULT WITH THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE INSTALLATION.

(5) WHERE REQUIRED BY CODE, CONNECT FAILSAFE SYSTEMS TO THE LOCAL FIRE LIFE SAFETY SYSTEM FOR EMERGENCY RELEASE.

(6) DOOR POSITION SWITCHES SHOWN WITH THE DOOR CLOSED

NOTE: ALL WIRING MUST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER ASSIGNED TO THE LOCATION FOR IT'S CORRECTNESS AND SUITABILITY FOR THE APPLICATION IN THE WHICH THE EQUIPMENT INSTALLED AND OPERATED. ALL WIRING MUST CONFORM TO NATIONAL, STATE, AND LOCAL CODES FOR CLASS 2 FIRE PROTECTION AND CONTROL DEVICES.

PROJECT NAME:		TITLE:		SO NO.:	REV
--		2-Door Communicating Bath System – EMLock Solution		-	-
LOCATION.:	DIST.:	CONTACT:	DATE:	DRAWN BY:	DWG. NO.:
--	-	service@sdcsecurity.com	10/14	-	- / Page 1 of 3

Diagram labels

602RF

TO 120VAC PRIMARY VOLTAGE CONNECTION

Battery Input Terminals

DC Voltage Output Terminals

24 / 12

VOLTAGE SELECTION SWITCHES (SET FOR 24VDC)

(Remove factory installed jumper only when fire alarm interface is used)

UR-1

ROCKER SWITCH SETTINGS: ALL SWITCHES OFF

Rocker Down / 1 2 3 4

WET/DRY SELECTION JUMPERS: "A" set to WET / "B" set to DRY

WET DRY / A B / PWR

J1 / C NO / C NO / NO C NC / NO C NC
TRIG A / TRIG B / RELAY A / RELAY B

Door 2 / EMLock® / **1581VD**
NOT USED / NO / C / NC / DPS / LOCK PWR

Door 1 / EMLock® / **1581VD**
NOT USED / NO / C / NC / DPS / LOCK PWR

EA100 LED ANNUNCIATOR **Door 2**
BLK GRN ORG BLU WHT / RED
GRN = Available / RED = Occupied

EA100 LED ANNUNCIATOR **Door 1**
BLK GRN ORG BLU WHT / RED
GRN = Available / RED = Occupied

CB401-B (OUTSIDE DOOR 2) / EMERGENCY RELEASE / PUSH TO UNLOCK DOOR
LAMP RED RED / N/C / N/O / YEL / C / WHT

CB401-B (OUTSIDE DOOR 1) / EMERGENCY RELEASE / PUSH TO UNLOCK DOOR
LAMP RED RED / ORG N/C / N/O / YEL / C / WHT

CB401-A / BATHROOM LOCK / BOTH DOORS MUST BE CLOSED TO LOCK / PUSH TO LOCK OR UNLOCK / LIGHT ON=DOOR LOCKED / ACTIVATION BUTTON SWITCH (INSIDE)
N/C / N/O / YEL / C / WHT / LAMP RED RED

Door 2 / Door 1