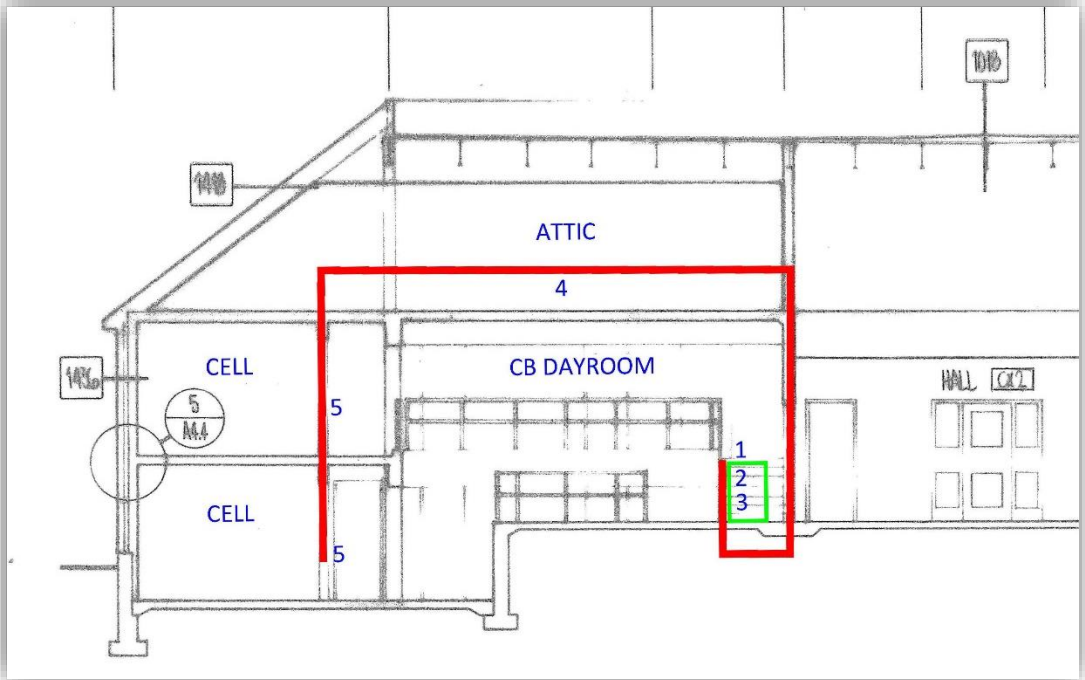


# Correctional Facility Door Control Replacement Northern State Correctional Facility

## EXISTING DOOR CONTROL SYSTEM



CB LIVING UNIT CONTROL PODIUM



TYPICAL LIVING UNIT DOOR CONTROL PATH

1. Living unit control podium
2. Circuit board
3. Ribbon cables to wiring
4. Relays in attic
5. Door locks at cells

## CURRENT ISSUES AT NSCF

### SECURITY

- Doors don't operate from podiums/MC, manual keying required
  - Issue could be anywhere within the system
  - Affects individual cells as well as main doors - living unit entrance, fire doors, etc.
- Incorrect/no indication from podiums
  - Some doors consistently show incorrect position
  - Some vary each time the door is used (magnets in the frame and door don't line up correctly, magnets have worn out, etc.)
  - 87 doors with indication in MC, 43 operate correctly

### MAINTENANCE

- No replacement parts for the control system
  - Failures within circuit board, ribbon cable, or relay; magnet issue
- Southern Steel locks are obsolete
  - One source in the country for parts, BGS rebuilds
  - Replacement Airteq locks do not have door position for indication, Maintenance must install

### OPERATIONAL

- Additional DOC staff needed to operate on keys
- BGS staff overtime to address failures in off-hours



CB LIVING UNIT PODIUM WHEN SECURE  
(all indication lights should be green)

Red = Unsecure (door is unlocked/open)

Green = Secure (door is locked/shut)

Yellow = indication for anti-pick feature in Southern Steel locks

## NEW DOOR CONTROL SYSTEM

- Evaluation of locks, control boards/podiums, wiring, intercom systems, pneumatic systems, conduit, etc. completed statewide.
- Report recommends, and DOC and BGS support, going to a touch screen system.
- DOC & BGS visited Grafton County Corrections to view their control system on 3/13/17.
  - Facility opened in 2012 and uses a touch screen and card reader systems for door control.
- Construction to begin fall 2017, estimated at \$2,145,000:
  - Will require relocation of inmates while work is completed.
  - 4-6 weeks for each living unit wet side.
  - Project estimate includes \$800,000 for DOC operational expenses related to staffing during construction and inmate relocation.
  - Will maximize the opportunity to get other necessary Major Maintenance projects completed while the living units are empty.