MILBANK Commercial Pedestals

CP3B "SL" Series

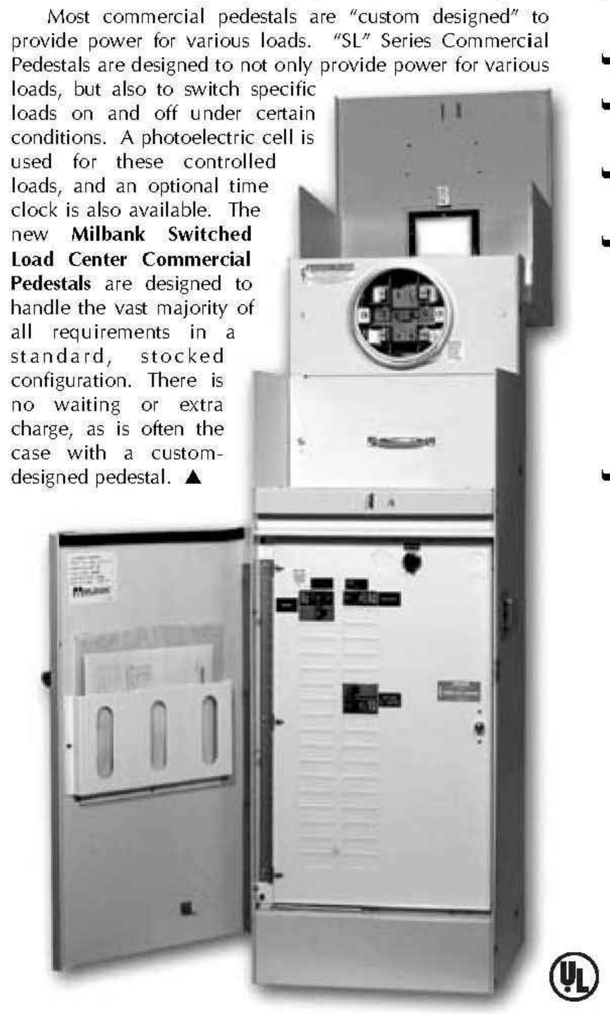
Switched Load Center Series

1Ø 3 wire 120/240 or 208Y/120 volt

Typical applications: Traffic signal, parking lot, highway, & athletic field lighting

Milbank commercial pedestals provide a low-cost, effective alternative to the post-and-strut method of providing site power. No longer will a separate meter section, main disconnect, load center and all the nipples, conduit, wire and labor to connect them be required. These units have a single cabinet with all the required utility terminations, meter sockets with test / bypass provisions, main breakers and customer sections. They are factory wired and UL listed as Industrial Control Equipment (File E113855).

Most commercial pedestals are "custom designed" to provide power for various loads. "SL" Series Commercial Pedestals are designed to not only provide power for various loads, but also to switch specific loads on and off under certain conditions. A photoelectric cell is used for these controlled loads, and an optional time clock is also available. The new **Milbank Switched Load Center Commercial Pedestals** are designed to handle the vast majority of all requirements in a standard, stocked configuration. There is no waiting or extra charge, as is often the case with a custom-designed pedestal. ▲



Features:

These units include everything required for remote site service:

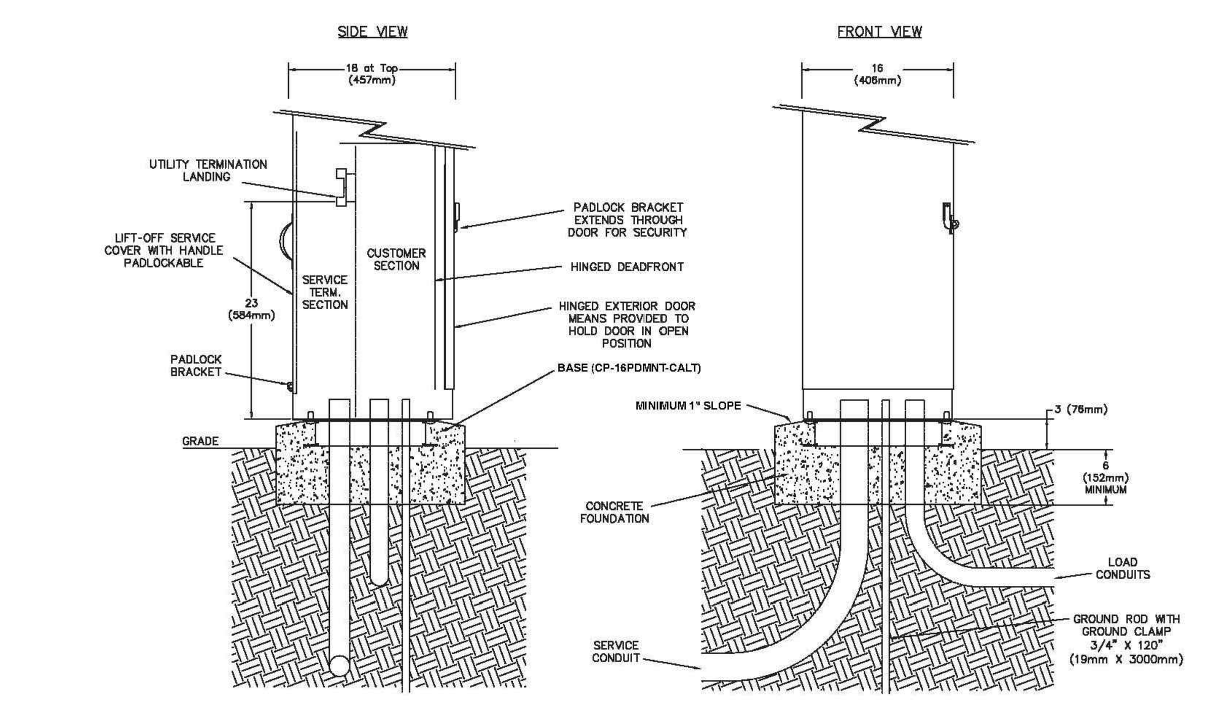
- NEMA 3R construction
- Expandable – Load centers allow for future expansion without costly modifications
- All units feature 200 amp meter socket with optional field-installable fifth terminal kit available
- 22K ampere interrupting capacity (KAIC) standard
- Optional mounting base can be embedded in concrete for fast, easy installation
- Separate sealable and lockable utility termination section
- Separate sealable and lockable metering section with the option of:

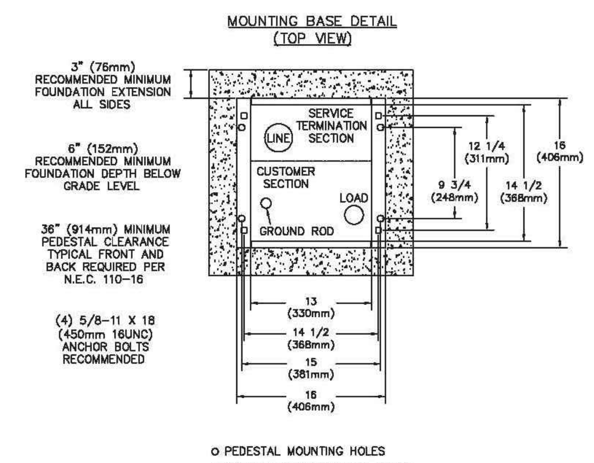
  EITHER
  - Milbank ring-type socket with test / bypass blocks (conforms to EUSERC 308)

  OR
  - Milbank heavy duty ringless socket with lever bypass
- A separate sealable and lockable customer section with:
  - Control circuit including:
    - PE receptacle, Lexan® window and glare shield
    - Hand-Off-Auto (HOA) switch
    - Contactor controlling a 16-circuit load center for controlled loads
    - Pre-mounted DIN rail and pre-wired connector to add an optional "plug and play" time clock kit
    - A circuit directory to document configuration
  - A load center for "always on" loads that includes:
    - Main circuit breaker
    - Control power circuit breaker
    - Switched load center main breaker
    - Nine (200 amp model) or twelve (100 amp model) blank breaker spaces
    - A circuit directory to document configuration

CP3B "SL" Series Installation

TYPICAL CONSTRUCTION & INSTALLATION DETAILS





CP-16PDMNT-CALT
Pedestal mounting base includes stainless steel hardware

MILBANK
Phone 816-483-5314
Fax 816-483-6357
www.milbankmfg.com

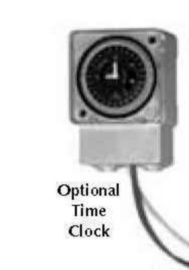
CP3B SL 02/05 (2.5K)

CP3B "SL" Series Stocking Information & Wiring Diagram

AVAILABLE FOR IMMEDIATE DELIVERY:

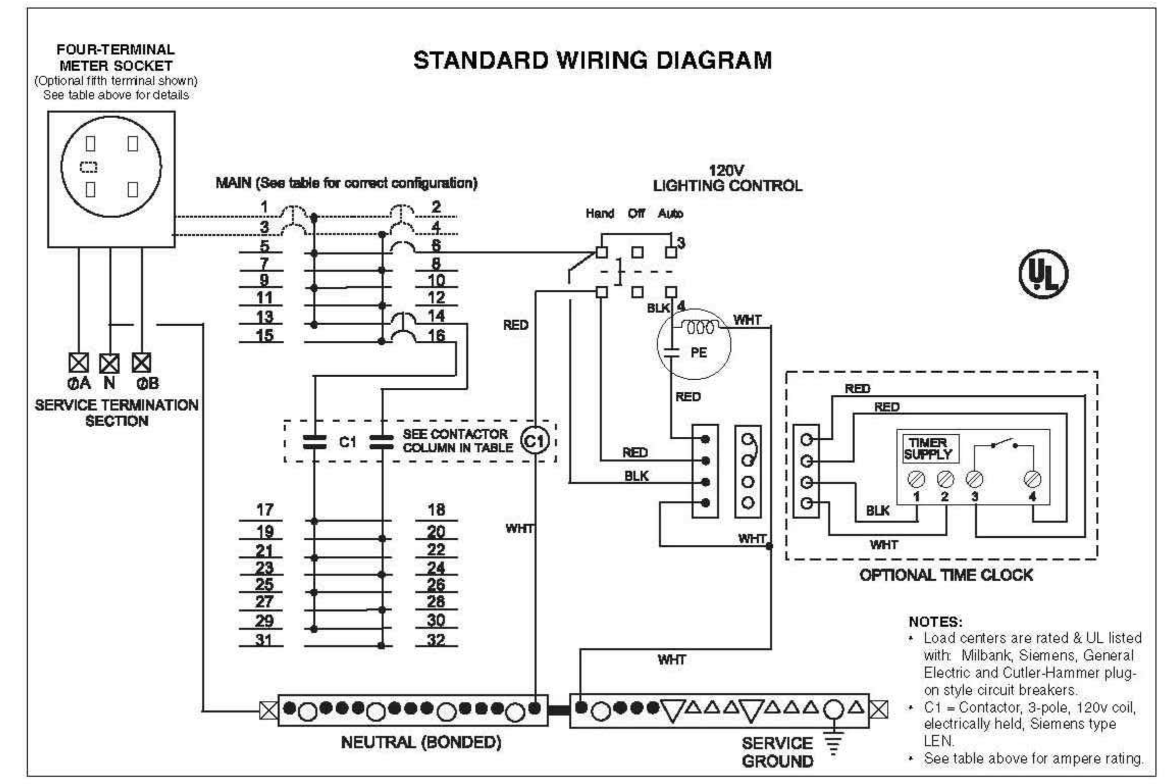
CATALOG NUMBER	OPTIONAL FIFTH TERMINAL KIT	MAIN CB AMPS	MAIN CB SPACES	CONTACTOR AMPERAGE	METER SOCKET TYPE
CP3B11110A22SL1	105J	100	(1,3)	60	Ring-type meter socket with test / bypass blocks
CP3B12110A22SL1	105J	200	(1,2,3,4)	100	Ring-type meter socket with test / bypass blocks
CP3B51110A22SL1	K3865	100	(1,3)	60	Ringless heavy duty meter socket with lever bypass
CP3B52110A22SL1	K3865	200	(1,2,3,4)	100	Ringless heavy duty meter socket with lever bypass

Accessories	Description
CP-TC7D	7-day time clock kit
CP-TC24H	24-hour time clock kit
CP-TCWIRE	Male four-pin connector and wiring harness for use with time clocks other than above
105J	Fifth terminal kit for use with ring-type meter sockets
K3865	Fifth terminal kit for use with ringless meter sockets
CP-16PDMNT-CALT	Pedestal mounting base (includes mounting hardware)
CP-ABK5/8	Anchor bolt kit (includes four 5/8 - 11 x 18" anchor bolts)



Optional Time Clock

STANDARD WIRING DIAGRAM



NOTES:
- Load centers are rated & UL listed with: Milbank, Siemens, General Electric and Cutler-Hammer plug-on style circuit breakers.
- C1 = Contactor, 3-pole, 120v coil, electrically held, Siemens type LEN.
- See table above for ampere rating.

Explanation of Underground Service Pedestal Model Numbers:

REV. 8-8-06

CP2B / CP3A / CP3B (circled)

1 2 3 4 5 6

4 1 1 1 2 A 2 2 S L C P – T C 7 D

1. Meter Sockets
- 0 = No sockets
- 1 = 1 Ring type socket with test bypass provision
- 2 = 2 Ring type sockets with test bypass provision
- 3 = 1 Ring type socket with, 1 w/out test bypass provision
- 4 = 1 Ring type socket w/out test bypass provision
- 5 = 1 Ringless socket with lever test bypass provision
- 6 = 2 Ringless sockets with lever test bypass provision
- 7 = 1 Ringless socket w/out bypass provision
- 8 = 1 Bolt-on meter with manual bypass provision
- 9 = 1 Ringless socket with horn bypass provision

2. Amperage
- 0 = No rating
- 1 = 100amps
- 2 = 200amps
- 3 = 125amps
- 4 = 400amps (Non EUSERC)

3. System Voltage
- 0 = 120V, 1Ø, 2W (4 Jaw)
- 1 = 120/240V, 1Ø, 3W (4 Jaw)
- 2 = 208Y/120V, 1Ø, 3W (4 Jaw +105J)
- 3 = 240/480V, 1Ø, 3W (4 Jaw)
- 4 = 480Y/277V, 1Ø, 3W (4 Jaw + 105J)
- 5 = 208Y/120V, 3Ø, 4W (7 Jaw)
- 6 = 240Δ/120V, 3Ø, 4W (7 Jaw)
- 7 = 240ΔV, 3Ø, 3W (5 Jaw)
- 8 = 480Y/277V, 3Ø, 4W (7 Jaw)
- 9 = 480ΔV, 3Ø, 3W (5 Jaw)
- A = No rating
- B = 480Δ/240V, 3Ø, 4W (7 Jaw)
- C = 120/240V, 1Ø, 3W (5 Jaw)
- D = 240/480V, 1Ø, 3W (5 Jaw)
- E = 480V, 1Ø, 2W (4 Jaw)

4. Service/Main Disconnect
- 0 = No Main (max 6 disconnect per unit)
- 1 = (1) Circuit Breaker Main
- 2 = (2) Circuit Breaker Service Disconnects
- 3 = (1) T-Fuse Switch Main
- 4 = (3) Circuit Breaker Service Disconnects
- 5 =
- 6 = (1) 4-Pole Main (100A Max.)
- 7 =
- 8 = (1) 4-Pole 100A / (1) 2-Pole 100A
- A =
- B = (2) Circuit Breaker Service Disconnects with interlock
- C = (2) T-Fuse Switch Service Disconnects

5. Distribution Interior
(loadcenters use plug-in c/b's; panelboards use bolt-on c/b's)
- A = (2) 8 circuit loadcenters metered, (1) 8 circuit loadcenter unmetered
- B = (2) 24 circuit loadcenters
- C = (1) 24 circuit panelboard
- D = (1) 42 circuit panelboard (enclosure types H & K only)
- E = (1) 30 circuit panelboard
- F = (1) 18 circuit panelboard
- G = (1) 30 circuit loadcenter
- H = (2) 12 circuit loadcenters
- J = No interior and no branch breakers (Main Only)
- K = (1) 4 circuit loadcenter metered, (1) 4 circuit loadcenter unmetered
- L = Distribution block(s) Only
- M =
- N = Metered and unmetered lug-lug breakers
- P = Metered lug-lug breakers
- R = (1) 8 circuit metered, (1) 8 circuit unmetered, (1) 12 circuit metered
- T = (1) 8 circuit load center
- U = Unmetered lug-lug breakers (Type A)
- V = (1) 6-circuit plug-on breaker interior
- W = (2) 6-circuit plug-on breaker interior
- X = Non Standard
- Y = (1) 42 circuit load center (Min 30" Tall dead front))
- 1 = (1) 8 circuit loadcenter metered, (1) 8 circuit loadcenter unmetered
- 2 = (2) 8 circuit loadcenters
- 3 = (1) 12 circuit loadcenter
- 4 = (1) 12 circuit loadcenter and (1)8 circuit loadcenter
- 5 = (1) 16 circuit loadcenter
- 6 = Lug-Lug Main & Branch Breakers only
- 7 = (1) 8 circuit loadcenter, (1) 16 circuit loadcenter
- 8 = Fusible switch (Pullout)
- 9 = (1) 24 circuit loadcenter
- 0 = (2) 16 circuit loadcenters

6. Enclosure Size
- A = CP3B Single, 16"x17"x48" (TYPE B)
- B = CP3B Double, 24"x17"x48" (TYPE C)
- C = CP2B, 5"X16"X46" (TYPE II)
- C = CP3B, 30"x24"x48"
- D = CP3A, 12"X9"X64" (TYPE A)
- D = CP3B, 44"x24"x60"
- E = CP3B, 16"X17"X41" (No meter sockets - Low profile)
- F = CP3A, 12"X9"X64" (Reversed meter section)
- G = CP3B, 16"X17"X48" (No test blocks - Short hood)
- H = CP3B, 24"X17"X48" (No test block section)
- J = CP3B, 16"X17"X32" (No meter sockets - Low profile)
- K = CP3B, 32"X20"X60" (Meter & test block provision)
- L = CP3B, 16"X17"X48" (Reversed meter section)
- M = CP3B, 24"X17"X41" (No meter sockets - Low profile)
- N = CP2B, 6"X16"X46"

14 = 14 KAIC
22 = 22 KAIC
25 = 25 KAIC
30 = 30 KAIC
42 = 42 KAIC
50 = 50 KAIC
(Short circuit rating)

- A = Aluminum (add color code)
- AL = Aluminum Annodized
- AO = Aluminum Untreated
- B = Brown (RAL 8011)
- BEG = Beige Green (RAL 1001)
- BG = Blue Green (RAL 6004)
- BK = Black (RAL 9017)
- BKG = Black Green (RAL 6012)
- BR = Medium Brown (RAL 8017)
- BWG = Boxwwod Green (TIGER DRYLAC)
- BZ = Bronze Color (TIGER #39/60060)
- D = Dark Green #2 (KC)(#VFG505S9)
- DB = Dark Brown (RAL 8025)
- DG = Dark Green #1(RAL 6005)
- DS = Desert Sand (Drylac #39/15020)
- DT = Desert Tan (RAL 9001)
- G = Standard Mint Green (TIGER 249/53120) (only use with aluminum)
- GA = Green A (TIGER-DR 249/53120)
- GG = Green G (Grotto Green) (RAL 6007)
- GW = Gray - White (RAL 9002)
- LB = Light Brown (RAL 1019)
- MB = Mesa Brown (KELLY MOORE #183)
- P = Gray (Ansi 61)
- PG = Pine Green (RAL 6020)
- R1 = Orient Red (RAL 3031)
- SG = Summerland Grey (Gray Brown)
- SS = Stainless Steel
- SY = Sand Yellow (RAL 1002)
- T = Tan (RAL 1015)
- TB = Terra Brown (RAL 8028)
- W = White (Exterior Paint) (VALSPAR PTW90005)
- Other designations may be used for different paint colors.

- CL = Copper Neutral
- CS = Cold Sequence
- CT = Caltrans
- DP - Dayton Power & Electric
- EM = Electrical Midwest
- KC = Kansas City
- KD = Kansas DOT
- LV = Las Vegas
- MO = MO DOT
- OP = Overland Park
- PB = Penta-Bolt Sealing
- TX = Texas DOT (Followed by pedestal type A, C, D or T)
- SLx = Switched Load
- SPx = Special (x = Seqential Number)
- Additional suffixes may be used for commerical purposes.

MILBANK CP3B "SL" Series Specifications

Commercial Pedestal:

The service pedestal provided shall be Milbank type (**Catalog Number**).

The pedestal shall be of NEMA Type 3R rainproof construction and shall be UL listed as "Enclosed Industrial Control Equipment" (UL 508). External construction shall comply with UL50 requirements and shall be of galvanized steel with light green #14672 Federal Specification 595 polyurethane industrial grade powder paint of 1.7 mil minimum thickness. Internal construction shall be galvanized steel and 1.7 mil minimum thickness polyurethane industrial grade powder coat painted or bare aluminum. All external fasteners, rivets, screws and bolts shall be stainless steel. No fasteners except sealing screws shall be removable by external access. Hinges shall be stainless steel and of the continuous piano hinge type.

The pedestal mounting bolts shall not be externally visible or accessible.

The pedestal shall be offered with an optional base designed to be embedded in concrete. Either pedestal mounting base or anchor bolt kit is required for installation.

The service pedestal must have separate isolated sections for metering equipment, utility termination and customer equipment. The metering section must be pad-lockable and sealable and have a hinged swing back hood with an integral hinged polycarbonate sealable window for access to demand meters. An external nameplate shall be permanently attached to the hood. A stainless steel handle shall be provided on the front exterior of the hood.

The utility termination section must be pad-lockable and sealable and shall have a stainless steel handle provided on a lift-off cover. Sufficient clearance shall be provided for a 4-inch diameter conduit for utility cables. Utility landing lugs shall be UL listed and shall accommodate #6 – 350 kcmil conductors.

The customer compartment door must be pad-lockable and shall have provisions to hold the door in an open position. A print pocket on the inside of the door shall hold all wiring schematics and instructions in a clear, weatherproof sleeve. Required UL labeling shall be located on the inside of the customer door. Distribution and control equipment shall be behind an internal dead-front door with a quarter-turn securing latch and be hinged to open more than 90 degrees. The deadfront door shall be hinged on the same side as the customer section door.

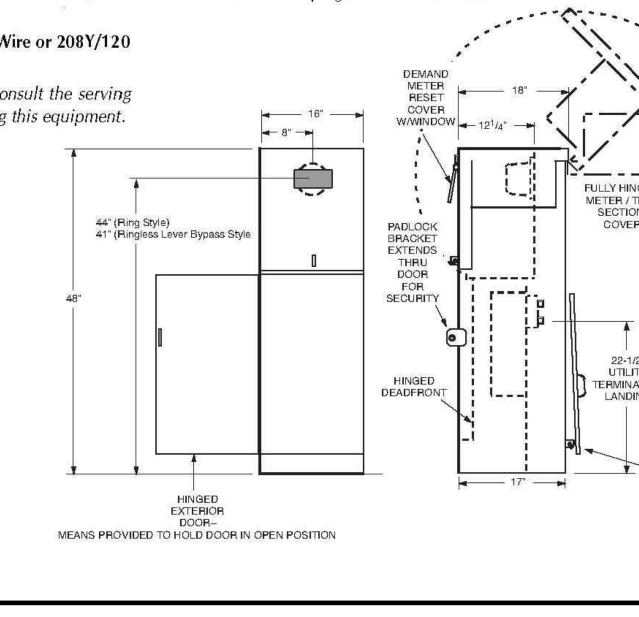
All distribution and control equipment shall be factory wired using 600 volt wire sized to NEC and UL requirements.

The service pedestal shall be rated 120/240 volt 1Ø 3 Wire or 208Y/120 volt 1Ø 3 Wire.

Utility requirements for this equipment vary. Always consult the serving utility for their requirements before ordering or installing this equipment.

The service pedestal shall be provided with the following equipment:

- A 200 amp (**Meter Socket Type**) that can be equipped with optional field-installable fifth terminal kit.
- A (**Main CB**) amp main circuit breaker that plugs onto a 16-circuit un-switched load center. This breaker shall be identified by an engraved plaque.
- The service pedestal shall be rated for operation at (**KAIC**) amps interrupting capacity. The provided documentation shall list circuit breaker combinations to be used for de-rated operation.
- A 16-circuit load center with all copper bus for loads not to be switched by a photoelectric cell (un-switched load center). This load center shall be rated and labeled to accept Milbank, Siemens, Cutler-Hammer and General Electric plug-on circuit breakers.
- A 15 amp plug-on circuit breaker installed on the un-switched load center to provide power and protection for control circuits. This breaker shall be identified by an engraved plaque.
- A pre-wired twist lock photoelectric cell receptacle.
- A polycarbonate photoelectric window and a glare shield.
- Wiring and connector provisions to add an optional 24-hour or 7-day time clock circuit. Incorporation of the time clock circuit shall be accomplished through a pre-wired connector assembly and shall not require any cutting or stripping of wires or the use of any tools.
- A rotary switch, labeled "Hand-Off-Auto," located inside the exterior door and accessible at the customer section deadfront. This switch shall energize all controlled loads in the "Hand" position, disable all controlled loads in the "Off" position, and permit operation of all controlled loads by the photoelectric cell (and time clock, if used) in the "Auto" position.
- A (**Contactor**) amp plug-on circuit breaker installed on the un-switched load center to provide power and protection for contactor-controlled circuits. This breaker shall be identified by an engraved plaque.
- A (**Contactor**) amp 3-pole electrically held lighting contactor with 120 volt AC coil (Siemens type LEN) to control power to switched loads.
- A 16-circuit load center with all copper bus for loads to be switched by a photoelectric cell (switched load center). This load center shall be rated and labeled to accept Milbank, Siemens, Cutler-Hammer and General Electric plug-on circuit breakers.



PHILIP JOHN VOEGELI
LICENSED
11701
1-17-14
KANSAS
PROFESSIONAL ENGINEER
EXPIRES: 04-30-2015