ELECTRICAL SYMBOLS - LIGHTING PLAN

$2 SWITCH
BLANK = SINGLE POLE
3 = THREE-WAY
D = DIMMER
LV= LOW VOLTAGE
LM= LOW VOLTAGE MASTER
PB= PUSH BUTTON STATION
T = TIMER OPERATED
X = EXPLOSION PROOF
2 = DOUBLE POLE
4 = FOUR-WAY
K = KEY OPERATED
L = LOCK
P = WITH PILOT LIGHT
RC= REMOTE CONTROL
WP= WEATHER PROOF
Mo= OCCUPANCY SENSOR

LIGHT FIXTURE CEILING MOUNTED

A — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.

B — LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.

C — LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.

A — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.

B — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.

C — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.

D — LIGHT FIXTURE, FLUORESCENT EMERGENCY; LETTER INDICATES TYPE.

E — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.

E — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.

LIGHT TRACK WITH HEADS AS SHOWN

S — LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.

LIGHT FIXTURE, WALL MOUNTED

LIGHTING, ONE HEAD EMERGENCY BATTERY POWER

LIGHTING, TWO HEAD EMERGENCY BATTERY POWER

LIGHTING, THREE HEAD EMERGENCY BATTERY POWER

STREET LIGHT WITH BRACKET

LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE

LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES

LIGHT POLE, POST TOP MOUNT LUMINAIRE

LIGHT POLE, ONE LUMINAIRE

LIGHT POLE, TWO LUMINAIRES

LIGHTING, EXTERIOR BUILDING

EXTERIOR FLOOD LIGHT

EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

LIGHT FIXTURE, BOLLARD

LIGHT FIXTURE, DIRECTIONAL

OS — OCCUPIED SENSOR – CEILING MOUNTED

ELECTRICAL SYMBOLS - POWER PLAN

MOTOR, SINGLE-PHASE

MOTOR, THREE-PHASE

T — TRANSFORMER, PLAN

WYE CONNECTION

EARTH GROUND

JUNCTION BOX

C C — LADDER CABLE TRAY

BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN

PB — PULL BOX

W W — WIREWAY

RC — RIGID CONDUIT LINE = RC

DB — DIRECT BURIAL CABLE = DB

P — POWER DUCT = P

S — SUBSTATION

HVS — HI VOLTAGE SWITCH ON CONCRETE PAD

LVS — LOW VOLTAGE SWITCH ON CONCRETE PAD

P T — DUAL POWER AND TELECOMMUNICATIONS MANHOLE

B B — BUSWAY

FLOOR OUTLET, DATA COMMUNICATION

PUSH BUTTON

PP — PUSH PLATE

DP# — DISTRIBUTION PANEL

LIGHTING PANEL

PANELBOARD CABINET, FLUSH MOUNTED

PANELBOARD CABINET, SURFACE MOUNTED

C — RECEPTACLE, CLOCK HANGER

RECEPTACLE, DUPLEX

RECEPTACLE, DUPLEX ON EMERGENCY POWER

GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER

RECEPTACLE, QUADRAPLEX

RECEPTACLE, SINGLE

S — RECEPTACLE, SINGLE WITH SWITCH

RECEPTACLE, SPECIAL PURPOSE
A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.
H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.

S — RECEPTACLE, SWITCHED DUPLEX

DROP CORD RECEPTACLE, TYPE AS INDICATED ON PLANS, 3-WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF. MINIMUM).

ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.

3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.

ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.

3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.

ELECTRICAL SYMBOLS - POWER PLAN

JUNCTION BOX

PB — PULL BOX

ENCLOSED CIRCUIT BREAKER

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

VFD — VARIABLE FREQUENCY DRIVE

TC — TIME CLOCK

POTHEAD

STRESS CONE

R — RECTIFIER, CATHODIC PROTECTION SANITARY

VENTILATOR OR FAN COIL UNIT OUTLET

CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.

CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.

$2 SWITCH
F = FUSED SWITCH
L = LOCK
M = MANUAL MOTOR STARTING
MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
PB= PUSH BUTTON STATION
WP= WEATHER PROOF
K = KEY OPERATED
LM= LOW VOLTAGE MASTER
MC= MOMENTARY CONTACT
P = WITH PILOT LIGHT
RC= REMOTE CONTROL
X = EXPLOSION PROOF

XXXX-XXXX — EQUIPMENT ID TAG

ELECTRICAL SYMBOLS - DIAGRAM

DELTA CONNECTION

MOTOR, SINGLE-PHASE

MOTOR, THREE-PHASE

TRANSFORMER

WYE CONNECTION

EARTH GROUND

SWITCH, NORMALLY OPEN TIME DELAY

SWITCH, SINGLE BREAK

NORMALLY CLOSED RELAY CONTACT

NORMALLY OPEN RELAY CONTACT

FUSE WITH RATING

ENCLOSED CIRCUIT BREAKER

MOLDED CASE CIRCUIT BREAKER

LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER

O.C.B. — HIGH-VOLTAGE OIL CIRCUIT BREAKER

HIGH-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER

SWITCH AND FUSE UNIT

FUSED DRAWOUT POTENTIAL TRANSFORMER

R 50 — RELAY
50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE
51 = AC-TIME OVERCURRENT
67 = AC-DIRECTIONAL OVERCURRENT
86 LOCKING OUT

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

FUSIBLE LINK

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

TC — TIME CLOCK

G — GENERATOR, POWER

AUTOMATIC TRANSER SWITCH

BATTERY

CAPACITOR

POTHEAD

STRESS CONE

LIGHTNING ARRESTOR

TVSS — TRANSIENT VOLTAGE SURGE SUPPRESION PROTECTION

R — RECTIFIER, CATHODIC PROTECTION SANITARY

M — METER

A — AMMETER

V — VOLTMETER

W — WATTMETER

WH — WATT-HOUR METER

— FEEDER CALL OUT TAG

Contract Documents Submission (CD3 - 100%)

NO	REVISIONS	DATE

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Drawing Title
ELECTRICAL LEGEND

Approved : Project Director

Project Title
VMU Replacement And Expansion Project

Location
San Francisco VA Medical Center
4150 Clement Street, San Francisco, CA 94121

Date: **04 March 2011**
Checked by: BW
Drawn: RM

Project Number: **662-10-608**
Building Number: **17**
Drawing number: **E-001**

Office of Construction and Facilities Management
Department of Veterans Affairs

ELECTRONIC SAFETY AND SECURITY SYMBOLS

AUDIO DEVICE; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
B-BELL C-CHIME H-HORN K-KLAXON
L-LISTEN-IN M-MICROPHONE S-SOUNDER S-SPEAKER Z-BUZZER

BI-STATIC BEAM SENSOR; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
I-INFRARED M-MICROWAVE
F=FUNCTION
RX-RECEIVE TX-TRANSMIT

CARD ACCESS READER; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
B-BARCODE F-ELEVATOR FLOOR CALL H-ELEVATOR HALL CALL
M-MAG STRIP P-PROXIMITY S-SMART CARD
T-TOKEN

CARD READER WITH KEYPAD; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL

CARD READER WITH TIME AND ATTENDANCE; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL

CENTRAL PROCESSING UNIT

CONTROL PANEL; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
B-BURGLAR D-DOOR F-FIRE P-PERIMETER

ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
D-DEADBOLT H-HYBRID L-LATCH SET M-MAGNETIC S-STRIKE

EXIT DEVICE; LETTER INDICATES AS FOLLOWS:
T=TECHNOLOGY/TYPE
D-DELAYED EGRESS E-ELECTRIFIED M-MECHANICAL X-HIGH SECURITY

FIBER OPTIC MODULE; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
R-RECEIVER T-TRANSCEIVER TX-TRANSMITTER

FIELD PANEL; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
A-ALARM C-CARD READER

GLASS BREAKAGE SENSOR; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
A-AUDIO S-SHOCK

INTERCOM; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
M-MASTER S-SUBSTATION

KEYBOARD

KEYPAD DEVICE; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL

MONITOR; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
D-DATA G-GRAPHIC M-MULTISCREEN V-VIDEO

MOTION DETECTOR; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
D-DUAL TECHNOLOGY IR-INFRARED M-MICROWAVE U-ULTRASONIC
X-REQUEST-FOR-EXIT

PUSH BUTTON; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
B-BELL PUSH D-DURESS P-PANIC R-DOOR RELEASE
X-REQUEST-FOR-EXIT

ELECTRONIC SAFETY AND SECURITY SYMBOLS - CONTINUED

RECORDER; LETTER INDICATES AS FOLLOWS:
M=MOUNT
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION
P-PEDESTAL R-RACK S-SURFACE W-WALL
T=TECHNOLOGY/TYPE
A-AUDIO D-DIGITAL V-VIDEO

AP — SECURITY ACCESS, ANNUNCIATOR PANEL

SECURITY ACCESS, BUZZER. MTD 1'-6" [457mm] AFF UNLESS OTHERWISE NOTED

SECURITY ACCESS, CONTROL UNIT WITH CLOSED CIRCUIT TELEVISION CAMERA

X — SECURITY ACCESS, GENERIC "X" INDICATES THE TYPE, PROVIDE SCHEDULE OR LEGEND

SECURITY ACCESS, HORN OR BELL

SECURITY ACCESS, OUTDOOR MICROWAVE TRANSMISSION UNIT

SECURITY ACCESS, PANIC ALARM

M PTZ — SECURITY ACCESS, VIDEO CAMERA WITH LENS
M = MOTION DETECTOR
PZ = MOTION DETECTOR WITH PAN AND ZOOM
PTZ= MOTION DETECTOR WITH PAN, TILT, AND ZOOM

360° — SECURITY ACCESS, PANNING CAMERA TRAVERSE ANGLE

40° — SECURITY ACCESS, VIDEO CAMERA WITH LENS, ANGLE OF VIEW

VIDEO CONTROL KEYBOARD

VIDEO MOTION DETECTOR

CONNECTION TO DOOR POSITION SWITCH

CONNECTION TO ELECTRIC DOOR STRIKE AND DOOR POSITION SWITCH

CONNECTION TO ELECTRIC AUTO DOOR AND DOOR POSITION SWITCH

ALARM, CHECK VALVE

FAC — ALARM, FIRE, COMMUNICATOR

FACP — ALARM, FIRE, PANEL; LETTERS INDICATE AS FOLLOWS:
FACC = CENTRAL CONSOLE FACP = CONTROL PANEL
MFACP= MASTER CONTROL PANEL FAAP = ANNUNCIATOR PANEL

BATT — ALARM, FIRE; LETTERS INDICATE AS FOLLOWS:
BATT = BATTERIES CHR = CHARGER FAR = RECORDER

OSY — ALARM, FIRE, VALVE SUPERVISORY SWITCH.

FATC — ALARM, FIRE, TERMINAL CABINET.

PIV — ALARM, FIRE, POST INDICATOR VALVE.

FTR — ALARM, TRANSPONDER OR TRANSMITTER

P — ALARM, FIRE, MANUAL PULL STATION

ALARM, GONG

ALARM, HORN/LIGHT, ONE ASSEMBLY

C — ALARM, HORN/LIGHT, ONE ASSEMBLY WITH CHIME

ALARM, HORN/LIGHT, SEPARATE ASSEMBLY

ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE

ALARM, MANUAL CONTROL

M — ALARM, MINI HORN

WB — ALARM, SPRINKLER SYSTEM WATER FLOW BELL

CP — ALARM, VOICE COMMUNICATION PANEL

TS — ALARM, TAMPER SWITCH

DETECTION, GAS

SCCP — DETECTION, SMOKE CONTROL AND PRESSURE PANEL

EPO — DETECTION SWITCH, ABORT

DETECTION SWITCH, VALVE TAMPER

DETECTOR, FLAME FLICKER

DETECTOR, FLOW SWITCH

ELECTRONIC SAFETY AND SECURITY SYMBOLS - CONTINUED

R/T HD — DETECTOR, HEAT; LETTER INDICATES AS FOLLOWS:
R/T = COMBINATION F = FIXED TEMPERATURE RISE
R/C = RATE COMPENSATION R = RATE OF

H — DETECTOR; LETTER INDICATES AS FOLLOWS:
BLANK = SMOKE DETECTOR
H = HEAT SMOKE
I = IONIZATION SMOKE
P = PHOTOELECTRIC SMOKE
IH = IONIZATION AND HEAT SMOKE
IP = IONIZATION AND PHOTOELECTRIC SMOKE
PH = PHOTOELECTRIC AND HEAT SMOKE
IPH = IONIZATION, PHOTOELECTRIC, AND HEAT

DETECTOR, SMOKE, FOR DUCT

FSD — FIRE SMOKE DAMPER

DETECTOR, SWITCH LEVEL

FA — FIRE ALARM LINE = FA

DH — ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET

CITY FIRE ALARM MASTER STATION MTD 5'-6" [1676mm] AFF UNLESS NOTED.

FAT 2-4-6 — FIRE ALARM TRANSMITTER (BASE LOOP) NUMERALS DENOTE CODE.

FAT 2-4-6 — FIRE ALARM TROUBLE TRANSMITTER (BASE LOOP) NUMERALS DENOTE CODE.

COMMUNICATION SYMBOLS

OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION

CEILING MOUNTED DATA WIRELESS ACCESS POINT

CATV — CABLE TELEVISION LINE = CATV

CCTV — CLOSED CIRCUIT TELEVISION LINE = CCTV. MINIMUM 1" [25mm] CONDUIT

FO — FIBEROPTICS LINE = FO

T — TELEPHONE LINE = T

I — INTERCOM LINE = I. MINIMUM 3/4" [19mm] CONDUIT.

S — SOUND LINE = S

NC — NURSE CALL LINE = NC. MINIMUM 3/4" [19mm] CONDUIT.

R — RADIO CONDUIT RUN, MINIMUM 3/4" [19mm] CONDUIT.

C — TELECOMMUNICATIONS MANHOLE

FLOOR RECEPTACLE, TELEPHONE

J — OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS:
J = JACK TYPE W = WALL TYPE

OUTLET DATA ONLY

OUTLET; LETTER INDICATES AS FOLLOWS:
A = AUDIO V = VIDEO I = INTERCOM

S X — SPEAKER, CEILING MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND

S X — SPEAKER, WALL MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND. MTD. 7'-6" [2286mm] AFF UNLESS OTHERWISE NOTED.

R — RADIO CHANNEL SELECTOR FACILITIES, MTD. 4'-6" [1372mm] AFF UNLESS OTHERWISE NOTED.

R M — SPEAKER PROGRAM SELECTOR SWITCH & VOLUME CONTROL MTD. 4'-6" [1372mm] AFF UNLESS OTHERWISE NOTED.

M — OUTLET, TELEVISION
BLANK = 4 11/16" [119mm] MASTER ANTENNA OUTLET BOX W/BLANK COVER, MTD. 18" [457mm] AFF UNLESS OTHERWISE NOTED.
C = CAMERA (CCTV SYSTEM), MTD 18" [457mm] AFF
M = MONITOR (CTTV SYSTEM).

TELEPHONE TERMINAL CABINET

TTB — TELEPHONE BACKBOARD (WALL MOUNTED)

M R — 3-POLE TWIST-LOCK RECEPTACLE FOR MICROPHONE, MTD. 4'-6" [1372mm] AFF.

REMOTE DICTATING OUTLET MTD 1'-6" [457mm] AFF. UNLESS OTHERWISE NOTED.

INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED).

S — INTERCOM STAFF STATION.

NOTE:
FOR WHEELCHAIR USE MOUNT TELEPHONE OUTLET 36" [914mm] AFF TO BOTTOM OF OUTLET BOX.

DESK PHONES – MOUNT OUTLET 1'-6" [457mm] AFF

PAY PHONES – MOUNT OUTLET 4'-0" [1219mm] AFF

SEE VA BARRIER FREE DESIGN GUIDE PG-18-13.

Contract Documents Submission (CD3 - 100%)

NO	REVISIONS	DATE

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Drawing Title
ELECTRICAL LEGEND

Approved : Project Director

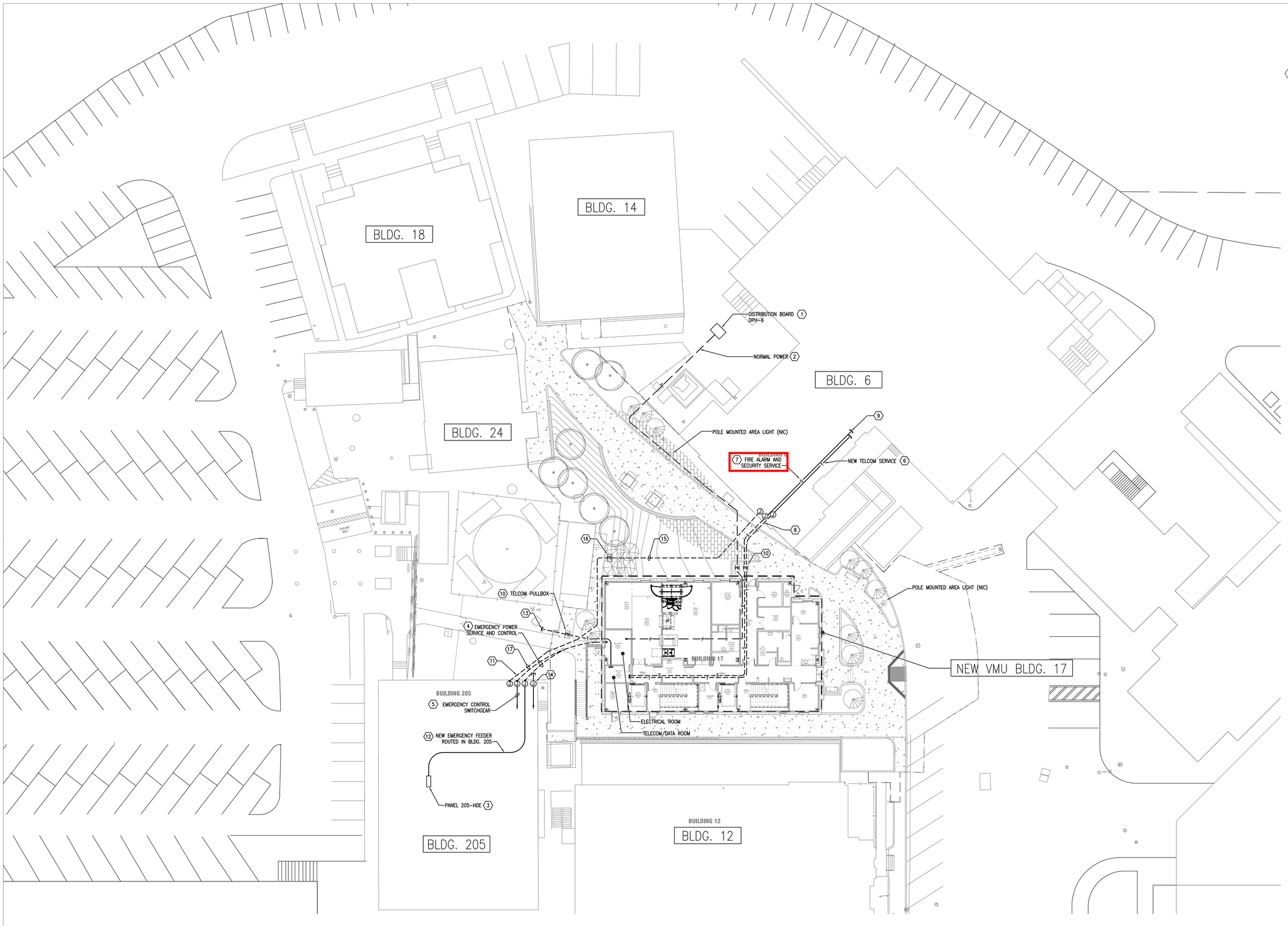
Project Title
VMU Replacement And Expansion Project

Location
San Francisco VA Medical Center
4150 Clement Street, San Francisco, CA 94121

Date: **04 March 2011** | Checked by: BW | Drawn: RM

Project Number: **662-10-608**
Building Number: **17**
Drawing number: E-002

Office of Construction and Facilities Management
Department of Veterans Affairs



1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

GENERAL NOTES:

A. EACH CONDUIT SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
B. REFER TO POWER, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY SINGLE LINE/RISER DIAGRAM FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. APPROXIMATE LOCATION OF NEW CAMPUS POWER DISTRIBUTION PANEL DPH-6.
2. PROVIDE (1) 4"C POWER AND (1) 4"C SPARE.
3. APPROXIMATE LOCATION OF EXISTING EMERGENCY PANEL 205-HDE.
4. PROVIDE (1) 3"C EMERGENCY POWER AND (1) 1"C FOR EMERGENCY SYSTEM CONTROL WIRING.
5. EXTEND 1"C TO PARALLELING SWITCHGEAR CONTROL EMERGENCY STATUS AND CONTROL PANEL. VERIFY EXACT REQUIREMENTS WITH EMERGENCY EQUIPMENT MANUFACTURER'S REPRESENTATIVE.
6. PROVIDE (2) 4"C TELCOM.
7. PROVIDE (1) 1"C FIRE ALARM AND (1) 1"C SECURITY.
8. VERIFY WITH COTR LOCATION CONDUIT ENTRY TO EXISTING BLDG 6 AND ROUTING. (TYPICAL)
9. VERIFY WITH COTR CONDUIT ROUTING TO EXISTING TELECOMMUNICATION ROOM. (TYPICAL)
10. VERIFY WITH COTR LOCATION OF NEW PULLBOXES. REFER TO TYPICAL UNDERGROUND PULLBOX DETAIL 5/E-503 FOR INSTALLATION. (TYPICAL)
11. VERIFY WITH COTR LOCATION CONDUIT ENTRY TO EXISTING BLDG 205. (TYPICAL)
12. VERIFY WITH COTR CONDUIT ROUTING. (TYPICAL)
13. PROVIDE (2) 4"C FOR FUTURE TELECOMMUNICATION SYSTEMS EXTENSION FROM THE TELECOM/DATA ROOM. STUBOUT CONDUIT BELOW GRADE TO LANDSCAPED AREA, CAP AND MARK ENDS.
14. 120/208V TEMPORARY POWER DURING CONSTRUCTION TO BE PROVIDED BY VA. COORDINATE WITH COTR.
15. PRIOR TO SITE EXCAVATION WORK, PROVIDE (1) 2"C AND (1) 3/4"C FROM BLDG. 205 TO BUILDING 6. CONTRACTOR SHALL FIELD VERIFY ROUTING. VERIFY ROUTING, BUILDING ENTRY POINTS, AND CONNECTIONS TO EXISTING EMERGENCY FEEDERS WITH COTR. PROVIDE NEW FEEDER CONDUCTORS AND CONNECT AS DIRECTED BY COTR.
16. VERIFY WITH COTR LOCATION OF NEW PULLBOX. REFER TO TYPICAL UNDERGROUND PULLBOX DETAIL-LANDSCAPE, DETAIL 6/E-501 FOR INSTALLATION.

N

Contract Documents Submission (CD3 - 100%)

FULLY SPRINKLERED

NO	REVISIONS	DATE

CONSULTANTS:

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM R. WALTERS
No. 19570
ELECTRICAL
STATE OF CALIFORNIA

Drawing Title
ELECTRICAL SITE PLAN

Approved : Project Director

Project Title
VMU Replacement And Expansion Project

Location
San Francisco VA Medical Center
4150 Clement Street, San Francisco, CA 94121

Date: **04 March 2011** | Checked by: BW | Drawn: BW

Project Number: **662-10-608**
Building Number: **17**
Drawing number: ES-101

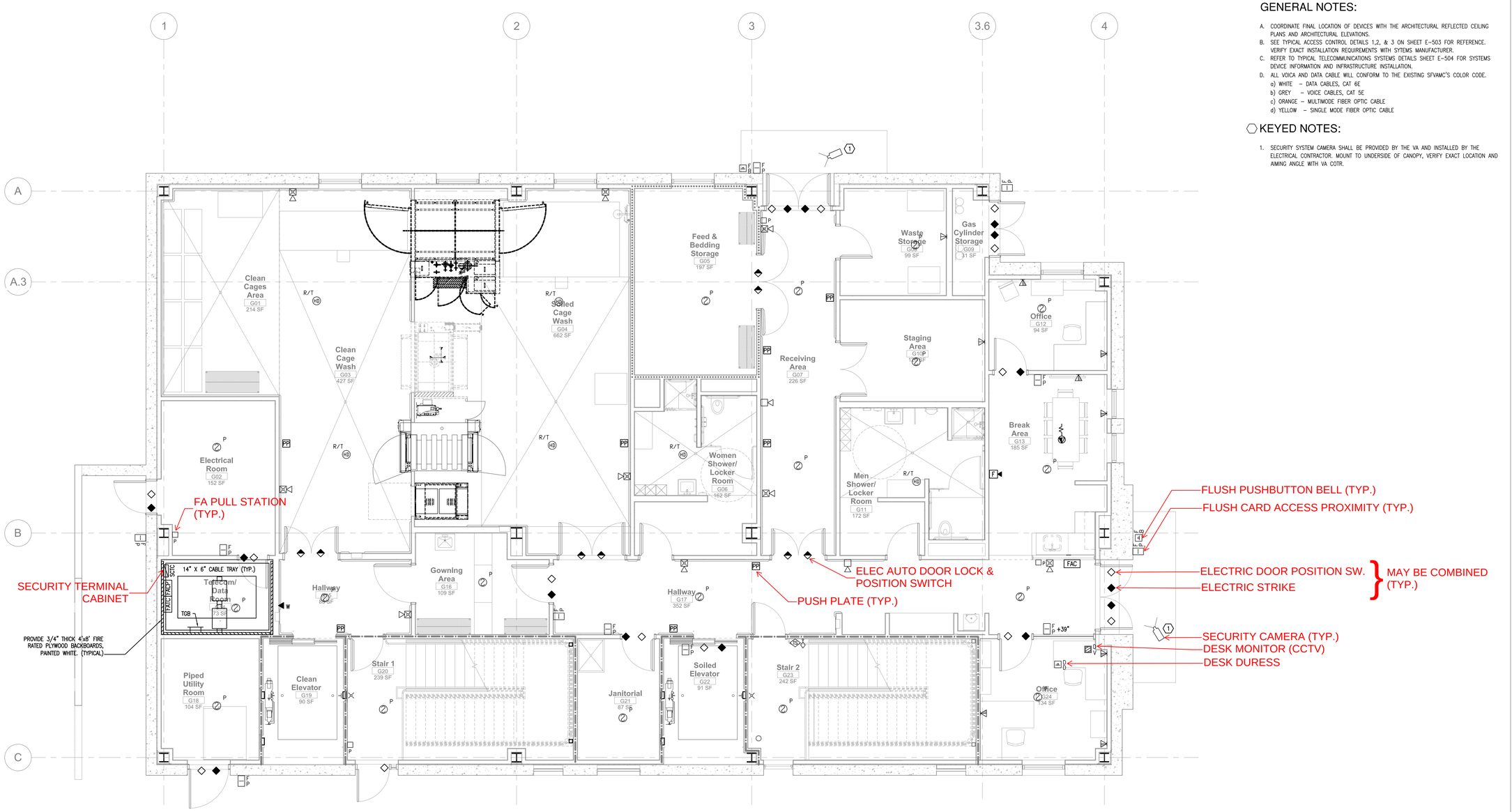
Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL NOTES:

A. COORDINATE FINAL LOCATION OF DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS.
B. SEE TYPICAL ACCESS CONTROL DETAILS 1,2, & 3 ON SHEET E-503 FOR REFERENCE. VERIFY EXACT INSTALLATION REQUIREMENTS WITH SYTEMS MANUFACTURER.
C. REFER TO TYPICAL TELECOMMUNICATIONS SYSTEMS DETAILS SHEET E-504 FOR SYSTEMS DEVICE INFORMATION AND INFRASTRUCTURE INSTALLATION.
D. ALL VOICA AND DATA CABLE WILL CONFORM TO THE EXISTING SFVAMC'S COLOR CODE.
   a) WHITE – DATA CABLES, CAT 6E
   b) GREY – VOICE CABLES, CAT 5E
   c) ORANGE – MULTIMODE FIBER OPTIC CABLE
   d) YELLOW – SINGLE MODE FIBER OPTIC CABLE

KEYED NOTES:

1. SECURITY SYSTEM CAMERA SHALL BE PROVIDED BY THE VA AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MOUNT TO UNDERSIDE OF CANOPY, VERIFY EXACT LOCATION AND AIMING ANGLE WITH VA COTR.



1 ELECTRICAL COMMUNICATION AND SIGNAL GROUND FLOOR PLAN
1/4" = 1'-0"

Contract Documents Submission (CD3 - 100%)

FULLY SPRINKLERED

NO	REVISIONS	DATE

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STATE OF CALIFORNIA

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