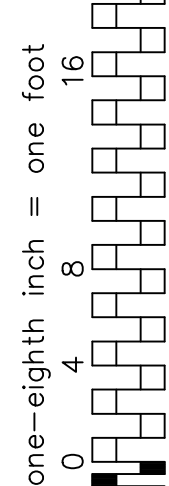
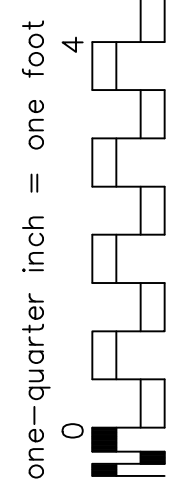
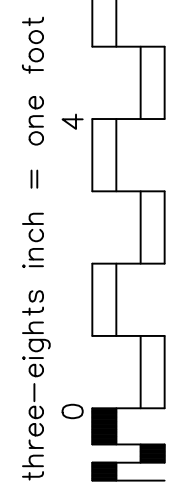
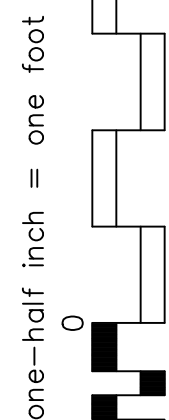
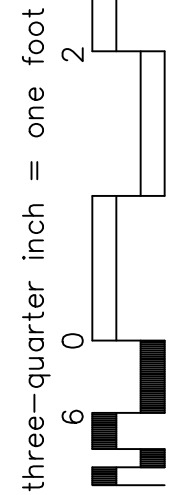
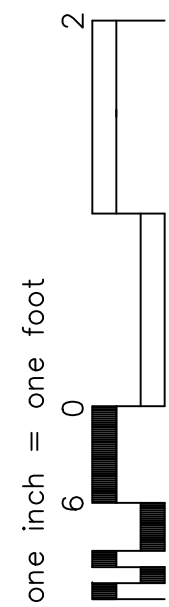


IF THIS SHEET IS NOT 30" x 42"
FULL SIZE, USE GRAPHIC SCALES



ABBREVIATIONS		ABBREVIATIONS	
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ADO	AUTOMATIC DOOR OPENER	LTCP	LOCAL TEMPERATURE CONTROL PANEL
AF	AMPERE FRAME	LTS	LIGHTS
AFB	ABOVE FINISHED FLOOR	LVS	LOW VOLTAGE
AT	AMPERE TRIP	LVT	LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	MATV	MASTER ANTENNA TELEVISION
BC	BARE COPPER	MCB	MAIN CIRCUIT BREAKER
BRIP	BOILER PLANT INSTRUMENTATION PANEL	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MDF	MAIN DISTRIBUTION PANEL
C/B	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT	CIRCUIT	MP	MANHOLE
CKT BKR	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT T.V.	MTS HST	MOUNTING HEIGHT
CL6	CEILING	NFSS	NON-FUSED SAFETY SWITCH
DB	DIRECT BURIAL	NL	NON-CONTROLLED 24HR LIGHT
EG	EMPTY CONDUIT	P	POLE
EG	EQUIPMENT GROUND	PB	PULL BOX
EX	EXISTING	PFB	PREFABRICATED
EJ	EXPANSION JOINT	PFB	PREFABRICATED
EXP. XP	EXPLOSION PROOF	PFB	PREFABRICATED
EMERG	EMERGENCY	PFB	PREFABRICATED
ELEG	ELECTRIC	PFB	PREFABRICATED
ENG	ELECTRIC WATER COOLER	PFB	PREFABRICATED
ESM	ELECTRIC STRIP MOLD	PFB	PREFABRICATED
FA	FIRE ALARM	PFB	PREFABRICATED
FACP	FIRE ALARM CONTROL PANEL	PFB	PREFABRICATED
FI	FILM ILLUMINATOR	PFB	PREFABRICATED
FCU	FAN COIL UNIT	PFB	PREFABRICATED
FIXT	FIXTURE	PFB	PREFABRICATED
FLOUR	FLUORESCENT	PFB	PREFABRICATED
FSS	FUSED SAFETY SWITCH	PFB	PREFABRICATED
ESCP	FLAME SAFEGUARD CONTROL PANEL	PFB	PREFABRICATED
G, GND	GROUND	PFB	PREFABRICATED
GEN	GENERATOR	PFB	PREFABRICATED
GTB	GROUND TERMINAL BOX	PFB	PREFABRICATED
SFI	GROUND FAULT INTERRUPTER	PFB	PREFABRICATED
HACR	HEATING AIR CONDITION REFRIGERATION	PFB	PREFABRICATED
HQA	HAND OFF AUTOMATIC	PFB	PREFABRICATED
HI	HANDHOLE	PFB	PREFABRICATED
HP	HORSE POWER	PFB	PREFABRICATED
HV	HIGH VOLTAGE	PFB	PREFABRICATED
INCAND	INCANDESCENT	PFB	PREFABRICATED
JB	JUNCTION BOX	PFB	PREFABRICATED

SYMBOL LIST - GENERAL	
	MOTOR (INSCRIBED NUMBER INDICATES HORSEPOWER)
	MANUAL MOTOR STARTER
	KEYED NOTE
	NON-CONTROLLED 24HR LIGHTING
	JUNCTION BOX
	DUPLEX RECEPTACLE 20A-2P-125V
	SIMPLEX RECEPTACLE 20A-2P-125V
	DUPLEX RECEPTACLE 20A-1P-125V WITH GROUND FAULT PROTECTION
	DOUBLE DUPLEX RECEPTACLE 30A-125V
	WIRING RUN CONCEALED
	NEW HOMERUN TO PANELBOARD
	PANELBOARD (EXISTING)
	PANELBOARD (NEW)
	CEILING MOUNTED RECEPTACLE
	MOTOR STARTER (BY OTHERS)
	CONDENSATE PUMP
	FIRE SMOKE DAMPER
	MOTORIZED DAMPER
	VAV BOX
	NEXT TO SYMBOL INDICATES EXISTING TO REMAIN
	NEXT TO SYMBOL INDICATES NEW LOCATION OF EXISTING
	NEXT TO SYMBOL INDICATES NEW
	24V POWER PACK WATTSTOPPER - B2
	CEILING MOUNTED OCCUPANCY SENSOR - WATTSTOPPER - DT-305
	SPECIAL RECEPTACLE RATING AS SHOWN
	DOOR FRAME WALL MOUNTED BROOM OR EQUAL
	DOOR FRAME PUSHBUTTON
	RIGID GALVANIZED STEEL CONDUIT
	WATER FLOW SWITCH
	TAMPER SWITCH
	EQUIPMENT DESIGNATION
	COMBINATION DATA/VEL / QUAD RECEPTACLE POKE THRU
	X-RAY CONTROL & INDICATION LIGHT
	MULTI-OUTLET ASSEMBLY WIREMOLD SERIES 3000
	DISCONNECT SWITCH
	* OF POLES - SWITCH SIZE
	NEMA RATING - FUSE SIZE (1P IF UNFUSED)

SYMBOL LIST - SWITCH CONTROL	
	DESCRIPTION
NOTE: MOUNTING HEIGHT FOR THE FOLLOWING SWITCHES SHALL BE 4'-0" (1400 MM) AFF. IN ELECTRICAL CLOSET, MECHANICAL ROOMS, MOUNTING HEIGHT SHALL BE 4'-6" (1400 MM) AFF.	
S	SINGLE POLE SWITCH WITH SUFFIX abc, ETC. INDICATES CONTROL OF FIXTURES WITH SAME DESIGNATIONS.
S ₃	THREE-WAY SWITCH
S ₄	FOUR-WAY SWITCH
S _D	DIMMER SWITCH - WITH SILICON CONTROLLED RECTIFIER
S _T	TIME SWITCH
NOTE: MOUNTING HEIGHT FOR THE FOLLOWING SWITCHES SHALL BE 4'-6" (1400 MM) AFF. UNLESS OTHERWISE NOTED.	
S _M	MANUAL MOTOR STARTING SWITCH
S _{CH}	MOMENTARY CONTACT SWITCH
S _{TP}	MOTOR SNAP SWITCH (THERMAL TYPE) "P" INDICATING PILOT LIGHT
S _{FB}	PUSH BUTTON STATION
S _P	SWITCH WITH PILOT LIGHT
S _{RC}	REMOTE CONTROL SWITCH
S _{YP}	WEATHERPROOF SWITCH
	WALL MOUNTED SWITCH OCCUPANCY SENSOR

SYMBOL LIST - COMMUNICATIONS SYSTEMS	
WALL	DESCRIPTION
	TV OUTLET MOUNTED 18" BELOW HINGE CEILING UNLESS OTHERWISE NOTED.
	COMMUNICATIONS DATA OUTLET MOUNTED 8" 18" AFF. UOAL WITH (1) RJ45 (2) RJ45 PORTS, RUN (3) CAT6 CABLES USING 1" STUD UP INTO HINGE CEILING BACK TO DATA/TELEPHONE CLOSET D210. ALL PORTS SHALL BE COLOR CODED TO THE CAT6 CABLES. GRAY - PHONE, BLUE DATA #1, & WHITE - DATA #2.
	INTERCOM STATION (REFER TO SPECS. FOR FRACTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED)
	INTERCOM CONDUIT RUN. MINIMUM 3/4" (20 MM) CONDUIT
	INTERCOM STAFF STATION
	NEW SPEAKER TO MATCH EXISTING SPEAKERS, COMPATIBLE TO EXISTING AND APPROVED

SYMBOL LIST - SECURITY	
WALL	DESCRIPTION
	CAMERA
	CARD READER
	SECURITY ALARM PANEL
	SECURITY ALARM HORN
	SECURITY ALARM KEY PAD
	SECURITY ALARM DOOR CONTACT
	REQUEST-TO-EXIT PIR MOTION SENSORS

ELECTRICAL GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2.	EXACT LOCATIONS OF ALL LIGHTING FIXTURES, DEVICES, SECURITY DEVICES, CAMERA, MONITORS, RECEPTACLES, OUTLETS, AND THE LIKE SHALL BE AS INDICATED ON ARCHITECTS DRAWINGS. REFER TO ARCHITECTS DWGSS. FOR DIMENSIONED LOCATIONS.
3.	PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCH OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FORM PIPE COVER.
4.	CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAIN UP TIGHT WITH RACEWAY COUPLING.
5.	LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAY OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED. FURNISH FISH WIRE.
6.	SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT MALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIRE PROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
7.	VERIFY LOCATIONS OF FIXTURES, DEVICES, IN FINISHED AREAS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND DEVICES, ALLOW FOR OVERHEAT PIPES, DUCTS AND MECHANICAL EQUIPMENTS, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HINGE CEILING AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
8.	LOCATIONS INDICATED FOR LOCAL MALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH THE ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
9.	FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FT AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
10.	SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO HEIGHT BEARING ON RACEWAYS.
11.	ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
12.	CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT; MINIMUM 1/8 IN. IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
13.	NUMBERS NEXT TO RECEPTACLE AND HOMERUN SYMBOLS INDICATED CIRCUIT NUMBERS. THESE NUMBERS ARE FOR GROUPINGS OF OUTLETS INTO CIRCUITS ONLY. THEY DO NOT CORRESPOND TO ACTUAL CIRCUIT OR POLE NUMBERS IN PANEL.
14.	ALL ELECTRICAL RUNS OUTSIDE OR UNDERNEATH THE TENANT SPACE SHALL BE APPROVED BY COTR PRIOR TO INSTALLATION.

CIRCUITING NOTES FOR LIGHTING AND POWER	
1.	ELECTRICAL CONTRACTOR SHALL WIRE ALL LIGHTING, RECEPTACLES AND EQUIPMENT ON 20 AMP BRANCH CIRCUITS UNLESS OTHERWISE NOTED ON DRAWING.
2.	NUMBERS SHOWN NEXT TO A LIGHTING FIXTURE, RECEPTACLE OR EQUIPMENT ARE CIRCUIT NUMBERS. THESE NUMBERS ARE FOR CLARITY OF CIRCUITING ONLY AND FIELD CONDITIONS SHALL PREVAIL (SEE NOTE #10 FOR EXAMPLE).
3.	FLUORESCENT LIGHTING FIXTURES DESIGNATED AS 'N' SHALL BE WIRED ON NON-SWITCHED CIRCUITS FOR NIGHT LIGHT OPERATION.
4.	CONTRACTOR SHALL WIRE A MAXIMUM OF 1920 WATTS PER 20 AMP CIRCUIT ON 120V LIGHTING CIRCUITS, AND 4000 WATTS ON 277V 20 AMP LIGHTING CIRCUITS.
5.	EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE WIRED ON DEDICATED CIRCUIT AND CONNECTED TO A LOCKABLE ONE POLE 15 OR 20 AMPERE CIRCUIT BREAKER IN THE PANEL.
6.	FOR EXACT LOCATION OF LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC., REFER TO ARCHITECTURAL TELEPHONE ELECTRIG PLANS AND REFLECTED CEILING PLANS OR CONSULT WITH ARCHITECT.
7.	REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATION. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED HARDWARE AND MOUNTING ACCESSORIES FOR PROPER MOUNTING AND OPERATION.
8.	NEXT TO SYMBOLS NUMBERS INDICATE CIRCUITING, UPPER CASE LETTERS DENOTE PANEL, AND LOWER CASE LETTERS DENOTE SWITCH CONTROL. S - SWITCH A / - PANEL DESIGNATION I - CIRCUIT NUMBER
9.	LOWER CASE LETTER IN EACH FIXTURE INDICATES SWITCH CONTROL.
10.	FIXTURES WITH NO LOWER CASE LETTER SHALL BE WIRED TO LOCAL SWITCH IN ROOM.

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Revisions

Date

VA FORM 08-6231, DEC 1989

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NOTE AND READ CAREFULLY:

The Contractor shall consult and study the requirements of each and every drawing and each specification section of this contract so that the (s)he may become acquainted with the project as a whole in order to determine how the work of his/hers subcontractor or vendor may affect the work required under this contract.

Written Specifications are part of this contract

KEY PLAN

AREA OF WORK

BUILDING #18

Drawing Title

ELECTRICAL SYMBOL LIST AND ABBREVIATIONS

Approved: Division Chief

Approved: Service Director

Project Title

Renovation to Dental Clinic
Building 18
Healthcare System
Castle Point, New York

Building Number

18

Checked

SL

Drawn

WS/DH

Location

Castle Point, New York

Date

4/23/2012

Project No.

620-A409-110

DRAWING NO.

EP001

Dwg.480f 52

Office of Facilities

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