

0 6" three inches = one foot  
0 12" one and one half inches = one foot  
0 6" one inch = one foot  
0 12" three quarters inch = one foot  
0 6" one half inch = one foot  
0 12" three eighths inch = one foot  
0 6" one quarter inch = one foot  
0 12" one eighth inch = one foot

A  
B  
C  
D  
E  
F

POWER LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE		PLUG MOLD (MULTI-OUTLET ASSEMBLY)
	DUPLEX RECEPTACLE		WIREMOLD (SURFACE RACEWAY)
	DOUBLE DUPLEX RECEPTACLE		CONDUIT CONCEALED
	DUPLEX RECEPTACLE, HALF SWITCHED		CONDUIT EXPOSED
	DUPLEX RECEPTACLE, CEILING MOUNTED		CONDUIT UNDERGROUND OR CONCEALED IN FLOOR AS ALLOWED PER SPECIFICATIONS
	DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING DOWN
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING UP
	SPECIAL RECEPTACLE		CONDUIT CAPPED
	SPECIAL RECEPTACLE, FLOOR MOUNTED		BRANCH CIRCUIT HOME RUN, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, SUBSCRIPT INDICATE PANEL & CIRCUITS
	JUNCTION BOX, WALL OR CEILING MOUNTED		GROUND BAR
	JUNCTION BOX, FLOOR MOUNTED		MAIN SWITCHBOARD/DISTRIBUTION CENTER
	MOTOR		TRANSFORMER
	DISCONNECT SWITCH (NON-FUSED)		CURRENT TRANSFORMER
	DISCONNECT SWITCH (FUSED)		THERMOSTAT
	VARIABLE SPEED DRIVE WITH DISCONNECT		GENERATOR ANNUNCIATOR PANEL
	UTILITY METER		SHADING INDICATES EMERGENCY SYSTEM TEXT INDICATES PANEL AND CIRCUIT DESIGNATION
	ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED		

LIGHTING LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SHADING INDICATES EM SYSTEM, LOWER CASE SUBSCRIPT INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES LUMINAIRE TYPE (TYP)		DECORATIVE ADJUSTABLE ACCENT DOWNLIGHT
	SURFACE OR PENDANT MOUNTED LUMINAIRE		SQUARE DOWNLIGHT
	LENSED TROFFER		SQUARE WALL WASH DOWNLIGHT
	DIRECT/INDIRECT TROFFER		SQUARE ADJUSTABLE ACCENT DOWNLIGHT
	PATENT OVERBED LIGHT		INGRADE (INTERIOR/EXTERIOR)
	DIRECT/INDIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT		INGRADE WALL WASH
	INDIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT		INGRADE ADJUSTABLE ACCENT
	DIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT		DECORATIVE PENDANT
	DIRECT/INDIRECT DISTRIBUTION, WALL MOUNT LINEAR		PENDANT
	INDIRECT DISTRIBUTION, WALL MOUNT LINEAR		RECESS MOUNTED WALL LUMINAIRE
	DIRECT DISTRIBUTION, WALL MOUNT LINEAR		WALL PACK OR EXTERIOR NON-DECORATIVE WALL STORAGE
	DECORATIVE LINEAR WALLMOUNT		DECORATIVE SCONCE
	STRIP LINEAR WALLMOUNT		DECORATIVE POLE
	SURFACE OR PENDANT MOUNTED STRIP OR INDUSTRIAL LUMINAIRE		POLE
	THEATRICAL PIPE OR TRACK LIGHTING		BOLLARD
	TRACK HEAD		PORCELAIN KEYLESS LAMPHOLDER, BRYANT #228 W/100W A19 I.F. LAMP, PC INDICATES PULLCHAIN
	SURFACE DOWNLIGHT		EMERGENCY LIGHTING UNIT
	DOWNLIGHT		EXTERIOR STAKE MOUNTED
	WALL WASH DOWNLIGHT		DOCK LIGHT
	ADJUSTABLE ACCENT DOWNLIGHT		DARKROOM SAFE LIGHT (TWO COMPARTMENT SHOWN)
	DECORATIVE DOWNLIGHT		UNDERCABINET LIGHT
	DECORATIVE WALL WASH DOWNLIGHT		EXIT LIGHT, ARROWS AS INDICATED, FACES INDICATED BY SHADING

CONTROLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	S <sub>1</sub> SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)		S <sub>VS</sub> VARIABLE SPEED/SPEED CONTROLLER SWITCH
	S <sub>2</sub> TWO POLE SWITCH		S <sub>EP</sub> EXPLOSION PROOF SWITCH
	S <sub>3</sub> THREE-WAY SWITCH		S <sub>TO</sub> THERMAL OVERLOAD SWITCH
	S <sub>4</sub> FOUR-WAY SWITCH		S <sub>MC</sub> MOMENTARY CONTACT SWITCH
	S <sub>K</sub> KEY OPERATED SWITCH		S <sub>CS</sub> COMBINATION SWITCH AND DUPLEX RECEPTACLE
	S <sub>M</sub> MANUAL SWITCH, HORSEPOWER RATE		PHOTOCELL
	S <sub>D</sub> DIMMER SWITCH		PUSH BUTTON
	S <sub>PL</sub> SWITCH WITH PILOT LIGHT (PILOT LIGHT IS 'ON' WHEN SWITCH IS 'ON')		TIME CLOCK
	S <sub>PL</sub> SWITCH WITH PILOT LIGHT LOCATOR (CONTINUOUSLY LIT WHEN HANDLE)		OCCUPANCY SENSOR - WALL MOUNTED (R=INFRARED, U=ULTRASONIC, DT=DUAL TECHNOLOGY)
	S <sub>LV</sub> LOW VOLTAGE SWITCH		OCCUPANCY SENSOR - CEILING MOUNTED (R=INFRARED, U=ULTRASONIC, DT=DUAL TECHNOLOGY)

REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	KEY NOTE REFERENCE		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
	TYPICAL CIRCUIT NUMBER		EXISTING TO REMAIN
	TYPICAL LUMINAIRE TYPE		EXISTING TO BE REMOVED
	TYPICAL ROOM REFERENCE (TOP=RM, BOTTOM=FLR)		EXISTING TO BE RELOCATED
	MECHANICAL EQUIPMENT REFERENCE		EXISTING TO REMAIN - REPLACE DEVICE
	LIGHTING CONTROL/ EQUIPMENT REFERENCE		

ABBREVIATIONS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, HP ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASSD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	PB	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
EW	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UN	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTING	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XMR	TRANSFORMER

FIRE ALARM SYSTEM LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL		MANUAL PULL STATION
	FIRE ALARM (NAC) POWER SUPPLY		ADDRESSABLE INPUT MODULE
	FIRE ALARM SYSTEM ANNUNCIATOR PANEL (GRAPHIC/LED)		ADDRESSABLE OUTPUT MODULE
	REMOTE ANNUNCIATOR PANEL		AUDIOVISUAL DEVICE (H=HORN/S=STROBE COMBINATION S=STROBE/STROBE COMBINATION, C=CHIME/STROBE COMBINATION)
	GRAPHIC ZONE MAP		AUDIBLE DEVICE (H=HORN, S=SPEAKER, C=CHIME)
	RESCUE ASSISTANCE SYSTEM HEAD END UNIT		FIRE ALARM STROBE (J=JACK, H=HANDSET)
	FIRE FIGHTER SMOKE CONTROL PANEL		EMERGENCY TELEPHONE STATION
	REMOTE DISPLAY UNIT (AIR SAMPLING SYSTEM)		RESCUE ASSISTANCE TELEPHONE STATION
	SMOKE DETECTOR (P=PHOTOELECTRIC, SB=SWITCH SOUNDER BASE, BR=BEAM RECEIVER, BT=BEAM TRANSMITTER)		MAGNETIC DOOR HOLD
	THERMAL DETECTOR (F=FIXED TEMPERATURE, R=FIXED TEMPERATURE & RATE OF RISE, TEMP. RATING)		TAMPER SWITCH
	FLAME DETECTOR (UV=ULTRAVIOLET, IR=INFRARED)		FLOW DETECTOR SWITCH
	DUCT SMOKE DETECTOR (S=SUPPLY, R=RETURN)		PRESSURE SWITCH
	DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST		FIRE/SMOKE DAMPER
	REMOTE INDICATOR LIGHT		CARBON MONOXIDE ALARM/DETECTOR

TECHNOLOGY LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET		CARD READER
	TELEPHONE TERMINAL BACKBOARD		DOOR CONTACT
	TELEPHONE OR DATA OUTLET		ELECTRIC DOOR LOCK
	TELEPHONE OR DATA OUTLET, FLOOR MOUNTED		ELECTRIC DOOR STRIKE
	TELEPHONE, WALL MOUNTED		REQUEST TO EXIT
	TELEPHONE/POWER POLE		ELECTRIC HINGE
	TELEVISION OUTLET		ELECTRIC POWER TRANSFER
	CLOCK OUTLET (D= DOUBLE SIDED)		POWER SUPPLY
	INTERCOM CALL - BUTTON		MAGNETIC DOOR LOCK
	PAGING SYSTEM SPEAKER		DURESS ALARM
	PAGING SYSTEM HORN (HIGH OUTPUT)		MOTION DETECTOR (WALL MOUNTED)
	BOX SPEAKER - SURFACE MOUNT		MOTION DETECTOR (CEILING MOUNTED)
	VOLUM CONTROL		GLASS BREAK DETECTOR (WALL MOUNTED)
	MICROPHONE STATION		GLASS BREAK DETECTOR (CEILING MOUNTED)
	INTERCOM STATION		KEYPAD
	SECURITY CONTROL PANEL		WIRELESS ACCESS POINT
	PROJECTOR		SECURITY CAMERA
			DONNER ANTENNA

## GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR. WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE, PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
6. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
7. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS. TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
8. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
9. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION, REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
10. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

## FIRE ALARM PLAN NOTES:

1. LOCATE SMOKE DETECTORS PER NFPA 72 AND MANUFACTURERS REQUIREMENTS. THE LOCATIONS OF SMOKE DETECTORS ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. DETECTORS SHALL NOT BE PLACED WITHIN 3'-0" OF ANY CEILING MOUNTED HVAC SUPPLY AIR DEVICE.
2. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, UNLESS NOTED OTHERWISE. PROVIDE RE-PROGRAMMING OF SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. REVISE EXISTING ANNUNCIATOR(S) AND GRAPHIC ZONE MAP(S) TO REFLECT PROJECT FIRE ALARM MODIFICATIONS. SUBMIT TO ENGINEER AND BUILDING/FIRE DEPARTMENTS FOR REVIEW PRIOR TO INSTALLATION.
3. THE CONTRACTOR/VENDOR SHALL PROVIDE SPECIFIC PROPOSED CONDUIT/WIRING ROUTINGS SHOWN ON DRAWINGS FOR ALL EXTERIOR ROUTES AND ANY INTERIOR ROUTES VISIBLE TO THE PUBLIC OR STAFF. THE PROPOSED ROUTES SHALL BE REVIEWED BY THE NCA GEMETERY DIRECTOR, NCA PROJECT MANAGER CDR/PM, AND ENGINEER PRIOR TO THE SHOP DRAWINGS BEING FINALIZED. ONCE THE SHOP DRAWINGS AND FINAL ROUTES HAVE BEEN APPROVED FOR THE EXTERIOR ROUTINGS, AND PUBLICALLY VISIBLE ROUTES, THE CONTRACTOR SHALL THEN BE AUTHORIZED TO PROCEED TO INSTALL THOSE CONDUITS.