DRAWING ABBREVIATIONS AND SYMBOL MODIFIERS

ABBREVIATION	DESCRIPTION
A	AMPERES OR TRIP AMPERES
A/C	AIR CONDITIONING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ARCH	ARCHITECT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTC	BRANCH TO CONNECTION
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
℄	CENTER
CLG	CEILING
COL	COLUMN
COMP	COMPRESSOR
COND	CONDENSER
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DBT	DRY BULB TEMPERATURE
DCO	DUPLEX CONVENIENCE OUTLET
DEG	DEGREES
DFA	DOWN FROM ABOVE
DIA	DIAMETER
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DTL	DETAIL
DWG	DRAWING
EX	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMCS	ENERGY MONITORING AND CONTROL SYSTEM
EMERG	EMERGENCY
EMT	ELECTRIC METALLIC CONDUIT
EQ	EQUIPMENT
ESP	EXTERNAL STATIC SYSTEM
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
F.D.	FIRE DAMPER
FDS	FUSED DISCONNECT SWITCH
FF	FINISH FLOOR
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FPM	FEET PER MINUTE
FT	FEET/FOOT (')
FVNR	FULL VOLTAGE NON-REVERSING
GA	GAUGE
GALV	GALVANIZED
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE (ABOVE 600 VOLTS)
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HZ	HERTZ-FREQUENCY IN CYCLE PER SECOND
ID	INSIDE DIAMETER
IN	INCH/INCHES (")
INCAD	INCANDESCENT
JB	JUNCTION BOX
K	KEY INTERLOCK
Kcmil	1000 CIRCULAR mils
KV	KILOVOLTS (THOUSAND VOLTS)
KVA	KILOVOLTS-AMPS (THOUSAND VOLT-AMPS)
KW	KILOWATT (THOUSAND WATTS)
KWD	KILOWATT DEMAND
KWH	KILOWATT HOUR
LA	LIGHTING ARRESTOR
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LL	LIVE LOAD
L-L	LINE TO LINE
L-N	LINE TO NEUTRAL
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE (BELOW 50 VOLTS)
LWT	LEAVING WATER TEMPERATURE

ABBREVIATION	DESCRIPTION
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROLLED CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFDS	NON-FUSED DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NFWH	NON FREEZE WALL HYDRANT
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFD	OVER FLOW DRAIN
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHP	OVERHEAD PRIMARY
OHS	OVERHEAD SECONDARY
OHE/T	OVERHEAD ELECTRIC/TELEPHONE
OPP	OPPOSITE
OFD	OVERFLOW DRAIN
P	PRIMARY OR POLES
PA	PUBLIC ADDRESS
PB	PULL BOX
PE	PHOTO ELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL BOARD
PSI	POUND PER SQUARE INCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
Q	QUARTZ RESTRIKE
QTY	QUANTITY
R	RELOCATE AS SHOWN
RA	RETURN AIR
RECEPT	RECEPTACLE
REQ	REQUIRED
RF	RADIO FREQUENCY
RGC	RIGID GALVANIZED STEEL CONDUIT
RH	RELATIVE HUMIDITY
RD	ROOF DRAIN
RLA	RATED LOAD AMPS
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SCD	SINGLE CONVENIENCE OUTLET
SD	STORM DRAIN OR SHOWER DRAIN
SEC	SECONDARY
SF	SQUARE FOOT
SIM	SIMILAR
SP	STATIC PRESSURE
SPECS	SPECIFICATIONS
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SR	SPECIAL RECEPTACLE
S/S	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCH BOARD
SYM	SYMMETRICAL
TC	TIME CLOCK
TEL	TELEPHONE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF SLAB
TP	TAMPERPROOF
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UH	UNIT HEATER
UG	UNDERGROUND
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UGT	UNDERGROUND TELEPHONE
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VA	VOLT AMPERES
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WIRE
W/	WITH
W/O	WITHOUT
WB	WET BULB (TEMPERATURE)
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WP	WATER PROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
YCO	YARD CLEAN OUT
% Z	PERCENT IMPEDANCE

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
A	2'X4' FLUORESCENT LIGHT FIXTURE (LETTER DENOTES TYPE)
A	2'X2' FLUORESCENT LIGHT FIXTURE (LETTER DENOTES TYPE)
	4' OR 8' FLUORESCENT LIGHT FIXTURE
	LIGHT FIXTURE CONNECTED TO NIGHT LIGHT/EMERGENCY CIRCUIT OR EQUIPPED W/ INTEGRAL BATTERY PACK
	4' OR 8' LIGHT FIXTURE CONNECTED TO NIGHT LIGHT/ EMERGENCY CIRCUIT OR EQUIPPED W/ INTEGRAL BATTERY PACK
	WALL MOUNTED LIGHT FIXTURE
A	CEILING MOUNTED LIGHT FIXTURE-UON-(LETTER DENOTES TYPE)
	WALL WASHER
	EGRESS LIGHT FIXTURE W/ BATTERY PACK
	EXIT LIGHT FIXTURE, CEILING MOUNTED, WITH ARROW
	EXIT LIGHT FIXTURE, WALL MOUNTED (SHADED PORTION INDICATES LIGHTED FACE)
$	SWITCH, SINGLE POLE, 48" AFF TO CENTERLINE-UON
$2	DOUBLE POLE SWITCH, 48" AFF TO CENTERLINE-UON
$3	SWITCH, THREE POLE, 48" AFF TO CENTERLINE-UON
$4	SWITCH, FOUR POLE, 48" AFF TO CENTERLINE-UON
$D	DIMMER SWITCH, 48" AFF TO CENTERLINE-UON
$F	FAN CONTROL SWITCH, 48" AFF TO CENTERLINE-UON
$J	JAMB SWITCH, 48" AFF TO CENTERLINE-UON
$K	KEY OPERATED SWITCH, 48" AFF TO CENTERLINE-UON
$M	MANUAL MOTOR STARTER SWITCH, 60" AFF TO CENTERLINE-UON
$P	SWITCH AND PILOT LIGHT, 48" AFF TO CENTERLINE-UON
$V	VOLUME CONTROL SWITCH, 48" AFF TO CENTERLINE-UON
	SIMPLEX RECEPTACLE, +18" AFF TO CENTERLINE-UON
	DUPLEX RECEPTACLE, +18" AFF TO CENTERLINE-UON
	DUPLEX RECEPTACLE, (ABOVE COUNTER)
	QUADPLEX RECEPTACLE, +18" AFF TO CENTERLINE-UON
IG	ISOLATED GROUND RECEPTACLE, +18" AFF TO CENTERLINE-UON
	DUPLEX RECEPTACLE HALF SWITCHED,+18" AFF TO CENTERLINE-UON
H	HOSPITAL GRADE DUPLEX RECEPTACLE, +18" AFF CENTERLINE-UON
E	HOSPITAL GRADE DUPLEX RECEPTACLE ON EMERGENCY POWER (RED DEVICE AND COVER PLATE WITH CIRCUIT NUMBER ENGRAVED ON FACE) ON CRITICAL BRANCH.
	FLOOR RECEPTACLE (FLUSH-UON)
	MULTIOUTLET ASSEMBLY
	MAIN OR DISTRIBUTION PANELBOARD (SHOWN TO SCALE ON PLAN)
	BRANCH CIRCUIT PANELBOARD
	RECESSED BRANCH CIRCUIT PANELBOARD
T	TRANSFORMER (SHOWN TO SCALE ON PLAN)
	DISCONNECT SWITCH
	DISCONNECT SWITCH, FUSED
100/100/3	FDS SIZE/FUSE SIZE/NUMBER OF POLES
	DISCONNECT SWITCH, WITH INTEGRAL STARTER
	MOTOR STARTER/CONTROLLER
	MOTOR CONNECTION
H	HEATER CONNECTION
	JUNCTION BOX
	JUNCTION BOX - WALL MOUNTED
	BELL
	BUZZER
TV	TELEVISION ANTENNA OUTLET, 18" AFF TO CENTERLINE-UON
	SYSTEM CLOCK ("M" DENOTES MASTER; DF DENOTES DOUBLE FACE) 90" AFF TO CENTERLINE
	CIRCUIT WITH NEUTRAL, HOT, SWITCHLEG, AND GROUND (3-WAY SWITCH TRAVELERS SHOWN AS SWITCHLEGS)
	CIRCUIT UNDERFLOOR OR UNDERGROUND
	CIRCUIT WITH 2#12 CONDUCTORS AND 1/2" C. IS REQUIRED WHEN NO MARKS ARE SHOWN UON
	CONDUIT STUBBED UP AND CAPPED
	LOW VOLTAGE WIRING
	FLEX CONNECTION
A-1	HOMERUN TO PANEL A, CIRCUIT 1
A-1,3,5	CIRCUIT HOMERUN - THREE CIRCUITS INDICATED
UH-2	EQUIPMENT DESIGNATION (FURNISHED BY OTHER DIVISIONS, OWNER OR ETC...) SEE EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
*	ADJACENT TO DEVICE DENOTES ABOVE COUNTER TOP, COORDINATE EXACT PLACEMENT WITH ARCHITECTS ELEVATION; IF NOT SHOWN, INSTALL 6" ABOVE COUNTER TOP
	GROUND
PB	PUSHBUTTON
	START/STOP STATION
EPB	EMERGENCY POWER "OFF" PUSHBUTTON
	CEILING FAN
	CEILING FAN WITH LIGHT KIT
FA	FIRE ALARM
F	FIRE ALARM PULL STATION, 48" AFF TO CENTERLINE
FA	FIRE ALARM VISUAL STATION, 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
FA	FIRE ALARM AUDIO/VISUAL STATION, 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
FA	FIRE ALARM AUDIO STATION
S	FIRE ALARM SMOKE DETECTOR
D	FIRE ALARM DUCT SMOKE DETECTOR
H	HEAT DETECTOR
DH	MAGNETIC DOOR HOLDER
TS	FIRE SPRINKLER TAMPER SWITCH
FS	FIRE SPRINKLER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
PC	PHOTO CELL
TS	TIME SWITCH
C	CONTACTOR OR CONTACTOR CABINET
A	INTRUSION ALARM
MOS	WALL OCCUPANCY SENSOR
OS	CEILING OCCUPANCY SENSOR
SCP	SECURITY CONTROL PANEL
NCP	NURSE CALL PANEL
NCA	NURSE CALL ANNUNCIATOR
	CLOSED CIRCUIT TO CAMERA
TWP	CLOSED CIRCUIT TO CAMERA WITH OUTDOOR HOUSING AND TILT, PAN ZOOM LENS
KP	KEY PAD
ES	ELECTRIC STRIKE
CR	CARD READER
	TELEPHONE OUTLET, 18" AFF TO CENTERLINE WITH 3/4" CONDUIT TO ACCESSIBLE CEILING UON
	TELEPHONE OUTLET ABOVE COUNTER WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING UON
W	WALL MOUNTED TELEPHONE OUTLET, 42" AFF TO CENTERLINE WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING-UON
P	PAY TELEPHONE OUTLET, 36" AFF TO CENTERLINE WITH 3/4" CONDUIT TO ACCESSIBLE CEILING-UON
	FLOOR TELEPHONE OUTLET (FLUSH-UON)
	DATA OUTLET, 18" AFF TO CENTERLINE WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING - UON
	FLOOR DATA OUTLET (FLUSH-UON)
	COMBINATION TELEPHONE/DATA OUTLET, 18" AFF TO CENTERLINE WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING-UON
	FLOOR DATA/TELEPHONE OUTLET (FLUSH-UON)
S	CEILING SPEAKER WITH VOLUME CONTROL ("LS" DENOTES LIFE SAFETY)
S	WALL SPEAKER ("LS" DENOTES LIFE SAFETY)
M	MICROPHONE FLOOR OUTLET
M	MICROPHONE OUTLET - WALL MOUNTED
TTC	TELEPHONE TERMINAL CABINET WITH PLYWOOD BACKBOARD
TTB	TELEPHONE TERMINAL BOARD - 4'X8'X3/4" PLYWOOD-UON
I	INTERCOM STATION
I M	INTERCOM MASTER STATION
N	NURSE CALL
N M	NURSE CALL MASTER STATION
S	NURSE CALL STAFF
N B	NURSE CALL BED
N	NURSE CALL CORD
D	NURSE CALL DOME LIGHT
B	CODE BLUE BUTTON
M	ELECTRIC METER
E	EMERGENCY PULL STATION
E	EMERGENCY AUDIO STATION
N	NURSE CALL
S	NURSE CALL STATION
E	EMERGENCY DUPLEX OUTLET

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
SS	SANITARY SEWER
GW	GREASE WASTE
	PLUMBING VENT
SD	STORM DRAIN
OFD	OVERFLOW STORM DRAIN
*	DOMESTIC COLD WATER
**	DOMESTIC HOT WATER
***	DOMESTIC HOT WATER RECIRC
A	AIR LINE
F	FIRE LINE
G	GAS LINE
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
RD	REFRIGERANT DISCHARGE LINE
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
	DIRECTION OF FLOW
D	EQUIPMENT OR FIXTURE DRAIN LINE
	SUBSOIL DRAIN
V	VACUUM
O	OXYGEN
NO	NITROUS OXIDE
N	NITROGEN
A	COMPRESSED AIR
UF	UNDERFLOOR
P	PUMPED WASTE OR STORM LINE
AW	ACID WASTE
AV	ACID VENT
	PIPING TO BE INSTALLED
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	CONNECT TO EXIST PIPING
	O.S.&Y VALVE
	TEST PLUG
	BALL VALVE
	PLUG VALVE (BALANCE COCK)
	SOLENOID VALVE
	CHECK VALVE
	GAS COCK
	GATE VALVE
	BUTTERFLY VALVE
	MOTORIZED BUTTERFLY VALVE
	THERMOMETER
HB	HOSE BIBB
NFWH	NON-FREESE WALL HYDRANT
YH	YARD HYDRANT
SD	SHOWER DRAIN
FD	FLOOR DRAIN
AD	AREA DRAIN
RD	ROOF DRAIN
HD	HUB DRAIN
OSD	OPEN SIGHT DRAIN
VTR	VENT THRU ROOF
CO	CLEANOUT IN FLOOR
GCO	CLEANOUT IN GRADE
DCO	DOUBLE CLEANOUT
WCO	CLEANOUT IN WALL
	STRAINER
	UNION
	SHOCK ARRESTOR
	PRESSURE GAUGE
	DIRECTION OF SLOPE W/ INCHES/FT DROP
	FLOOR SINK (1/2 GRATE & FULL GRATE)
	AUTO. SPRINKLER VALVE ASSEMBLY

HVAC SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION
		90 DEGREE ROUND DUCT DOWN
		90 DEGREE ROUND DUCT UP
		ROUND RADIUS ELBOW
		SIZE OR SHAPE TRANSITION
		FLEXIBLE DUCT TAP
		90 DEGREE S/A ELBOW DOWN
		90 DEGREE S/A ELBOW UP
		RECTANGULAR RADIUS ELBOW
		RECTANGULAR ELBOW WITH TURNING VANES
		BRANCH TAKE-OFF WITH ADJUSTABLE VANED EXTRACTOR
		TEE WITH SQUARE ELBOWS, TURNING VANES & SPLITTER DAMPER
		LINED DUCTWORK
		SIDEWALL SUPPLY GRILLE OR REGISTER WITH AIR EXTRACTOR
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO BE REMOVED
		NEW DUCTWORK
		SUPPLY DUCT RISER
		RETURN OR EXHAUST DUCT RISER
		DUCT RISER MAKE-UP AIR
		S/A GRILLE OR REGISTER
		R/A / EXH. GRILLE OR REGISTER
		VOLUME DAMPER
		FIRE DAMPER
		FIRE / SMOKE DAMPER
		MOTORIZED DAMPER
T	T	THERMOSTAT
H	H	HUMIDISTAT
S	S	REMOTE SENSOR
		90 DEGREE RETURN AIR OR EXHAUST ELBOW DOWN
		90 DEGREE RETURN AIR OR EXHAUST ELBOW UP
S=1 / 400 CFM	S=1 / 400 CFM	DIFFUSER/REGISTER/GRILL DESIGNATION
RTU 1	RTU 1	EQUIPMENT TYPE "RTU" ROOF TOP UNIT EQUIPMENT #

GENERAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
1	NOTE BY SYMBOL DESIGNATION
	CONTINUATION OF SYSTEM OR LINE
	MATCHLINE
	FIRE RATED WALL/PARTITION - REFER TO ARCHITECTURAL
	SMOKE RATED WALL/PARTITION - REFER TO ARCHITECTURAL

NOTES:

1. ALL ABBREVIATIONS AND SYMBOLS ARE NOT NECESSARILY USED.
2. EXISTING WORK THAT IS TO BE REMOVED IS DENOTED BY DASHED LIGHT LINEWORK.
3. ALL EXISTING WORK TO REMAIN IS DENOTED BY SOLID LIGHT LINEWORK OR BY NOTE.
4. ALL MATERIALS, LABOR, COORDINATION, AND SUPERVISION IS BY CONTRACTOR UNLESS SPECIFICALLY NOTED "BY OWNER" OR "NIC". CONTRACTOR SHALL COORDINATE AND INSTALL EQUIPMENT WHEN NOTED "OWNER FURNISHED".
5. SYMBOLS USED, BUT NOT ON THE LEGEND ARE NOTED ON THE PLAN.

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6/27/00

BEI Job # F00040

Title

SYMBOLS AND ABBREVIATIONS

Revisions

Job No. 99011

Issue Date: JUNE 26, 2000

Drawn By: M.H., K.T.P.

Checked By: S.B.

Sheet No.

MEP1