

ABBREVIATIONS AND ACRONYMS

A/C = AIR CONDITIONER.
A = AMPERE.
AC = ALTERNATING CURRENT, OR ACCESS CHAMBER.
AEC = ASSOCIATION OF ILLUMINATING COMPANIES.
AFD = ADJUSTABLE FREQUENCY DRIVE.
AFF = ABOVE FINISHED FLOOR.
AFG = ABOVE FINISHED GRADE.
AHU = AIR HANDLING UNIT.
AMP = AMPERE INTERRUPTING CAPACITY.
AL = ALUMINUM.
ANN = ANNUNCIATOR.
ANSI = AMERICAN NATIONAL STANDARDS INSTITUTE.
ANT = ANTENNA.
APPROX = APPROXIMATE.
ASME = AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
AS REQUIRED = AS REQUIRED.
ASME = ASME MEELS.
ARCH = ARCHITECTURE.
ASD = ADJUSTABLE SPEED DRIVE.
ASIM = ASYMMETRICAL.
ATM = ATMOSPHERE.
ATS = AUTOMATIC TRANSFER SWITCH.
AUTO = AUTOMATIC.
AWG = AMERICAN WIRE GAGE.
AX = AXIALLY RELAT.
B = BAND.
BAC = BARE ARMORED GROUND, UL LABELED.
BAT = BATTERY.
BC = BRASS COPPER.
BO = BRGS DUCT.
BWP = BUREAU WORKSPER.
BLDG = BUILDING.
BOC = BOTTOM OF CONDUIT.
BOP = BOTTOM OF PIPE.
BTE = BEAM TUBE ENCLOSURE.
BTU = BRITISH THERMAL UNIT.
C = CONDUIT, PER SPECIFICATION, UL LABELED.
C = CENTER LINE.
CAR = CARBON FIBER FIBER.
CAD = COMPUTER AIDED DESIGN.
CAD/D = COMPUTER AIDED DESIGN AND DRAFTING.
CAP = CAPACITOR.
CB = CIRCUIT BREAKER.
CCTV = CIRCLED CIRCUIT TELEVISION.
CFC = CONTRACTOR FURNISHED EQUIPMENT.
CFC = CHLOROFLUOROCARBON.
CNTRL = CONTROLLER.
CNC = COMPUTER NUMERICAL CONTROL.
COAX = COAXIAL CABLE.
COL = COLUMN.
CONC = CONCRETE.
CONT = CONTINUED.
COP = COMMUNICATIONS FULL BOX.
CPU = CENTRAL PROCESSING UNIT.
CR = CURRENT RELAY.
CT = CURRENT TRANSFORMER.
CU = COPPER.
DB = DIRECT BURIED.
DC = DIRECT CURRENT.
DET = DETAIL.
DIA = DIAMETER.
DIAG = DIAGRAM.
DISC = DISCONNECT.
DOOR = DOOR.
DRA = DOES NOT APPLY.
DPST = DOUBLE POLE DOUBLE THROW.
DPST = DOUBLE POLE SINGLE THROW.
DT = DETENTION, UL LABELED.
DWG = DRAWING.
E = DEGREES CELSIUS (CENTIGRADE).
F = DEGREES FAHRENHEIT.
E = EMERGENCY.
FA = FEASIBILITY.
EL = ELEVATION.
ELIC = ELECTRICAL.
ELLU = EMERGENCY LIGHTING UNIT.
EMP = EMERGENCY LIGHTING UNIT.
ENC = ENCLOSURE.
EP = EXPLOSION PROOF, UL LABELED.
EPR = ELECTRICAL FLEX BOX.
EPB = ETHYLENE PROPYLENE RUBBER (SYNTHETIC POLYMER).
EQPT = EQUIPMENT.
ETC = ET CETERA.
EWC = ELECTRIC WATER COOLER.
EXIST = EXISTING.
FA = FIRE ALARM.
FACP = FIRE ALARM CONTROL PANEL.
FC = FLOOR CANNOT BE.
FDR = FEEDER.
FIE = FIBER OPTIC.
FIT = FITTING.
FLA = FLEX LEAD AMPERES.
FLX = FLEXIBLE CONDUIT, UL LABELED.
FLOR = FLUORESCENT.
FM = FACTORY MUTUAL RESEARCH CORPORATION APPROVED AND LABELED.
FLOR = FACTORY MUTUAL SYSTEM APPROVED, FM APPROVED, OR FM.
FLOOR = FLOOR.
FT = FOOT.
FUT = FUTURE.
FVBR = FULL VOLTAGE NON-REVERSING.
FVR = FULL VOLTAGE REVERSING.
GA = GAGE (NOT GAUGE).
GALV = GALVANIZED.
GEN = GENERATOR.
GE = GOVERNMENT FURNISHED EQUIPMENT.

ABBREVIATIONS AND ACRONYMS

GFI = GROUND FAULT INTERRUPTER.
GFS = GROUND FAULT SENSOR.
GND = GROUND.
G.R. = GROUND RELAY.
GRI = GROUND INSULATED, IE LABELED TYPE TW CONDUCTOR WHEN WITH GND.
GSS = GALVANIZED ROSS STEEL CONDUIT, UL LABELED.
GN = GROUND.
HND = HANDHOLE.
HID = HIGH INTENSITY DISCHARGE.
HRS = HOURS.
HPS = HIGH PRESSURE SODIUM.
HT = HIGH TEMPERATURE.
HTR = HEATER.
HV = HIGH VOLTAGE.
HVAC = HEATING, VENTILATION, AND AIR CONDITIONING.
HZ = HERTZ.
ICEA = INSULATED CABLE ENGINEERS ASSOCIATION.
IE = INTERMEDIATE ELEVATION.
IEEE = INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS.
IG = INERT GAS.
IGW = INERT GAS WELD.
IM = INTERMEDIATE GRADE CONDUIT, UL LABELED.
INC = INCH.
INCORP = INCORPORATED.
INST = INSTANTANEOUS.
INSTR = INSTRUMENT.
INTR = INTERCOMMUNICATION.
INT = INVERT ELEVATION.
IR = IR RELAY.
JB = JUNCTION BOX.
KA = KILOAMPERE.
KCAL = KILOGRAM CIRCULAR MILS.
KVA = KILOWATT.
KV = KILOVOLT.
KVA = KILOWATT AMPERES.
KVAR = KILOWATT AMPERES REACTIVE.
KW = KILOWATT.
KWH = KILOWATT HOURS.
L = LAMP.
LB = LOW PRESSURE SODIUM.
LQ = LOW TEMPERATURE FLEXIBLE CONDUIT, UL LABELED.
LTD = LIGHTING.
LV = LOW VOLTAGE.
LVEA = LASER VACUUM EQUIPMENT AREA.
MAX = MAXIMUM.
MAINT = MAINTENANCE.
MCL = METAL CLAD CABLE, UL LABELED.
MCC = MOTOR CONTROL CENTER, UL LABELED.
MCP = MOTOR CIRCUIT PROTECTOR, UL LABELED.
MCS = METAL CASE SWITCH, UL LABELED.
MDF = MAIN DISTRIBUTION FRAME.
MECH = MECHANICAL.
MGA = M, 000, 000.
MFG = MANUFACTURER.
MIRD = M, 000, 000.
MILLI = M, 001.
MIN = MINERAL INSULATED COPPER SHEATHED CABLE, UL LABELED.
MISC = MISCELLANEOUS.
MTO = MOUNTING.
MH = MOUNTING HEAD.
MTW = MOUNTING TOOL WIRE, UL LABELED.
MSHA = MINE SAFETY AND HEALTH ADMINISTRATION.
MXP = MULTIPLEX.
MV = MEDIUM VOLTAGE EQUIPMENT, OR MEDIUM VOLTAGE CABLE, UL LABELED. *JIB INSULATED TYPE MV-50 PER NEC.
N = NORTH.
NA = NOW AUTOMATIC.
N.C. = NORMALLY CLOSED.
NECA = NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION.
NEC = NATIONAL ELECTRICAL SAFETY CODE.
NEUTR = NEUTRAL.
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION.
NFI = NOT IN CONTRACT.
NL = NOT LISTED.
NLO = NORMALLY OPEN.
NPT = NATIONAL FIRE THREAD.
NSTD = NOT TO SCALE.
= NO.
OAS = OVERALL SHIELD.
OC = ON CENTER.
OCB = POLY CIRCUIT BREAKER.
OD = OUTSIDE DIAMETER.
OFE = OWNER FURNISHED EQUIPMENT.
OH = OVERHEAD.
OLL = OVERLOAD RELAY CONTACTS.
OSB = OPERATIONS SUPPORT BUILDING.
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
P = PHASE.
PA = PUBLIC ADDRESS.
PABX = PRIVATE AUTOMATIC BRANCH EXCHANGE.
PB = PUSH BUTTON.
PF = POWER FACTOR.
PILC = PAPER INSULATED LEAD COVERED CABLE.
PNE = PANEL.
PID = PIPING AND INSTRUMENTATION DIAGRAM.
PLTC = POWER LIMITED TRAY CABLE, UL LABELED.
PLR = PAIR.
PVC = POLYVINYL CHLORIDE CONDUIT.
RAC = RIGID ALUMINUM CONDUIT, UL LABELED.
RCPT = RECEPTACLE.
REC'D = RECEIVED.
RHW = RUBBER INSULATED HEAT AND MOISTURE RESISTANT WIRE, UL LABELED.
RM = ROOM.
RMC = RIGID MEAN SQUARE.
RPM = RIGID POLYMER CHLORIDE CONDUIT SCHEDULE 40, UL LABELED.
RPM-80 = RIGID POLYMER CHLORIDE CONDUIT SCHEDULE 80, UL LABELED.
RSE = RIGID SILICON-BRONZE CONDUIT, UL LABELED.
RT = RAINWATER, UL LABELED.
RVNR = REDUCED VOLTAGE NON-REVERSING.

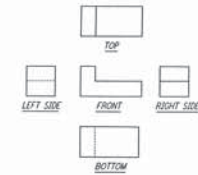
ABBREVIATIONS AND ACRONYMS

IP = SINGLE POLE.
SC = SHORT CIRCUIT.
SCH = SCHEDULE.
SECT = SECTION.
SH = SYNTHETIC INSULATED HEAT RESISTANT SWITCHWARE WIRE, UL LABELED.
SIS = SHIELDED.
SWT = SWITCH.
SWP = SHIELDED TWISTED PAIR.
SWTR = SHIELDED TWISTED TRIADS.
SWTD = SHIELDED TWISTED QUADS.
SOV = SOLENOID OPERATED VALVE.
SPDT = SINGLE POLE DOUBLE THROW.
SPEC = SPECIFICATION.
SPT = SINGLE POLE SINGLE THROW.
SS = SODIUM.
SST = STAINLESS STEEL, TYPE 316.
STD = STANDARD.
STR = STRUCTURAL.
SUBST = SUBSTATION.
SW = SWITCH.
SWBD = SWITCHBOARD.
SWC = SWITCHGEAR.
SWR = SWITCHRACK.
SYM = SYMMETRICAL.
T = TOP.
T = TOP OF DUCT.
T = TOP OF CONCRETE.
T = TWISTED PAIR.
T = THERMOPLASTIC INSULATED MOISTURE RESISTANT WIRE, UL LABELED.
T = TYPICAL.
UBC = UNIFORM BUILDING CODE.
ULC = UNDERWRITERS LABORATORIES INC.
ULC = HENRIFIED NATIONAL COARSE SCREW THREAD (SEE NOTE 10).
UNF = HENRIFIED NATIONAL FINE SCREW THREAD.
UN-8 = HENRIFIED NATIONAL 8 THREAD SERIES.
UN-12 = HENRIFIED NATIONAL 12 THREAD SERIES.
UN-16 = HENRIFIED NATIONAL 16 THREAD SERIES.
UN-18 = UNLESS OTHERWISE NOTED.
UPS = UNINTERRUPTIBLE POWER SUPPLY.
V = VOLT.
VAR = VARIABLE OR VOLT AMPERES REACTIVE.
VCA = VACUUM EQUIPMENT AREA.
VD = VOLTAGE DROP.
VT = VAPOR TIGHT, UL LABELED.
W = WATT OR WIRE.
WP = WEATHERPROOF.
WTR = WATER.
XFRM = TRANSFORMER.
XFRM = SYNTHETIC INSULATED HEAT AND MOISTURE RESISTANT WIRE, UL LABELED.
ALPE = CROSSLINKED POLYETHYLENE INSULATED, UL LABELED TO 35 KV, CERTIFIED TO AEC SPECIFICATION ABOVE 35 KV, DO NOT IDENTIFY AS ALP, DO NOT USE ICEA.
Z = IMPEDANCE.

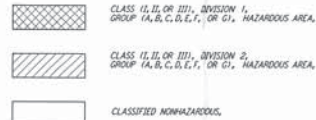
TYPICAL SYMBOLS

REFERENCE TO BILL OF MATERIALS
COLUMN REFERENCE TO STRUCTURAL PLAN.
DETAIL REFERENCE SHOWING REFERENCE TO DETAIL 3 ON DRAWING WA-E-401.
DETAIL 3 SHOWING REFERENCED FROM WA-E-201.
SECTION REFERENCE SHOWING REFERENCE TO SECTION C ON DRAWING WA-E-401.
SECTION C SHOWING REFERENCED FROM WA-E-201.

TYPICAL DRAWING LAYOUT



AREA CLASSIFICATION SYMBOLS



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