ABBREVIATION LIST

NOTE: NOT ALL ABBREVIATIONS INDICATED APPEAR ON THESE CONTRACT DRAWINGS

ABBREVIATION	TERM
A	AMPERE (COMBINED FORM)
AB	ANCHER BOLT
ABD	ABANDONED
ABUT	ABUTMENT
AC	ALTERNATING CURRENT
ACC	AIR COOL CONDENSER
ACCU	AIR COOL CONDENSING UNIT
ACFM	ACTUAL CUBIC FEET PER MINUTE
ACU	PACKAGED AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADDL	ADDITIONAL
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFM	TERMINAL AIR FLOW MODUAL
AFS	AIR FLOW STATION
AGGR	AGGREGATE
AHD	AHEAD
AHU	AIR HANDLING UNIT
AIR COND	AIR CONDITIONING
AL	ALUMINUM
ALTN	ALTERNATE
AMB	AMBIENT
AP	ACCESS PANEL
APPROX	APPROXIMATE
APRCH	APPROACH
APVD	APPROVED
ARR	ARRANGEMENT
ASPH	ASPHALT
ASSY	ASSEMBLY
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATC	ACOUSTIC TILE CEILING
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWP	ACOUSTICAL WALL PANEL
AZ	AZIMUTH
BBD	BOTTOM BOILER BLOW DOWN
BC	BOLT CIRCLE
BDY	BOUNDARY
BF	BOILER FEED
BFILL	BACKFILL
BFP	BOILER FEED PUMP
BHP	BOILER HORSEPOWER
BITUM	BITUMINOUS
BK	BACK
BL	BASE LINE
BLDG	BUILDING
BLR	BOILER
BLVD	BOULEVARD
BM	BENCHMARK
BOC	BOTTOM OF CURB
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BP	BASE PLATE
BRCG	BRACING
BRG	BEARING
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT HOUR
BV	BOTTOM OF WALL

ABBREVIATION	TERM
C TO C	CENTER TO CENTER
CA	COMBUSTION AIR
CAB	CABINET
CAP	CAPACITY
CB	CIRCUIT BREAKER
CB	CONTINUOUS BLOW DOWN
CBORE	COUNTERBORE
CC	CUBIC CENTIMETER
CCTV	CLOSED CIRCUIT TELEVISION
CD	COLD DRAWN
CEM	CEMENT
CF&I	CONTRACTOR FURNISH AND INSTALL
CFE	CONTRACTOR FURNISHED EQUIPMENT
CFM	CUBIC FOOT (FEET) PER MINUTE
CFS	CUBIC FOOT (FEET) PER SECOND
CFTR	CHARCOAL FILTER
CG	CENTER OF GRAVITY
CH	CHILLER
CHKD	CHECKED
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CJ	CONTROL JOINT
CL	CLEARANCE
CL	CENTER LINE
CLG	CEILING
CLJ	CONTROL JOINT
CLO	CLOSET
CLR	CLEAR
CM	CENTIMETER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEAR OPENING
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COPPER
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CORP	CORPORATION
CP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CPRSR	COMPRESSOR
CPT	CONTROL POWER TRANSFORMER
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRS	COARSE
CSK	COUNTERSINK
CT	COOLING TOWER
CTB	CERAMIC TILE BASE
CTD	COATED
CTR	CENTER
CTY	COUNTY
CU FT	CUBIC FOOT (FEET)
CU IN	CUBIC INCH
CU M	CUBIC METER
CU MM	CUBIC MILLIMETER
CU YD	CUBIC YARD
CUH	CABINET UNIT HEATER
CWP	CHILLED WATER PUMP
CYL	CYLINDER

ABBREVIATION	TERM
D	DEEP
DB	DRY BULB
DB	DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENCE
DIM	DIMENSION
DISCH	DISCHARGE
DIV	DIVERTER
DL	DEAD LOAD
DML	DEMOLITION
DMPR	DAMPER
DN	DOWN
DOZ	DOZEN
DR	DRAIN
DR	DOOR
DS	DOWNSPOUT
DVL	DEVELOP
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ECC	ECCENTRICEDW END WALL
EDW	END WALL
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EER	ENERGY EFFICIENCY RATIO
EF	EACH FACE
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELB	ELBOW
ELEC	ELECTRIC
ELEV	ELEVATOR
EMB	EMBANKMENT
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMSH	EMERGENCY SHOWER
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC-PNEUMATIC
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQPT	EQUIPMENT
ES	EACH SIDE
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXC	EXCAVATION
EXH	EXHAUST
EXHV	EXHAUST VENT
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXST	EXISTING
EXT	EXTERIOR

ABBREVIATION	TERM
F&T	FLOAT AND THERMOSTATIC
FAI	FRESH AIR INLET
FC	FAIL CLOSED
FDN	FOUNDATION
FED	FEDERAL
FF	FRONT FACE
FIG	FIGURE
FIN FL	FINISHED FLOOR
FL	FLEDBFLAFULL LOAD AMPS
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLG	FLANGE
FO	FAIL OPEN
FPM	FOOT (FEET) PER MINUTE
FPRF	FIREPROOF
FPS	FOOT (FEET) PER SECOND
FR	FRAME
FRP	FIBER REINFORCED PLASTIC
FS	FEDERAL SPECIFICATION
FS	FAR SIDE
FT	FOOT (FEET)
FTG	FOOTING
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
FXTR	FIXTURE
G	GROUND WIRE
GA	GAUGE OR GAGE
GAL	GALLONS
GALV	GALVANIZED
GEN	GENERATOR
GEN CONT	GENERAL CONTRACTOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFE	GOVERNMENT FURNISHED EQUIPMENT
GND	GROUND
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GRTG	GRATING
GV	GAS VALVE
GWB	GYPSUM WALLBOARD
H	HIGH
HDCP	HANDICAP
HDW	HEADWALL
HDWD	HARDWOOD
HEF	HIGH EFFICIENCY FILTER
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HEX HD	HEXAGONAL HEAD
HGR	HANGER
HM	HOLLOW METAL
HNDRL	HAND RAIL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPA	HIGH POWER AMPLIFIER
HPS	HIGH PRESSURE SODIUM
HPT	HIGH POINT
HS	HIGH STRENGTH
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWY	HIGHWAY
HZ	HERTZ

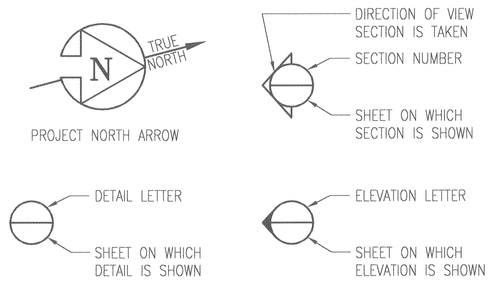
ABBREVIATION	TERM
ID	INSIDE DIAMETER
IMPD	IMPEDANCE
IN	INCH
INC	INCORPORATED
INCL	INCLUDE
INFO	INFORMATION
INSTR	INSTRUMENT
INSUL	INSULATION
INTLK	INTERLOCK
INTMD	INTERMEDIATE
INTR	INTERIOR
INVT	INVERT
IR	INSIDE RADIUS
JC	JANITOR'S CLOSET
JT	JOINT
K	KIP
KB	KNEE BRACE
KCMIL	ONE THOUSAND CIRCULAR MIL (1000 CIRCULAR MIL)
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVAR
KW	KILOWATT
L	LEFT
L	LONG
LAB	LABORATORY
LAD	LADDER
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LFM	LAMINAR FLOW MODULE
LG	LENGTH
LH	LEFT HAND
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDE
LP	LOW POINT
LS	LUMP SUM
LTG	LIGHTING
M	METER
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
MC	MOMENT CONNECTION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MI	MILE
MIL	ONE THOUSANDTH INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MILLIMETER
MNL	MANUAL
MO	MASONRY OPENING
MON	MONUMENT
MV	MERCURY VAPOR

ABBREVIATION	TERM
N/F	NOW OR FORMERLY
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL TAPER PIPE (THREAD)
NS	NEAR SIDE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPNG	OPENING
OPP HND	OPPOSITE HAND
OPP	OPPOSITE
OR	OUTSIDE RADIUS
OVHD	OVERHEAD
OZ	OUNCE
P	PAGE
P	POLE
PARA	PARAGRAPH
PAVT	PAVEMENT
PC	POINT OF CURVE
PCF	POUNDS PER CUBIC FOOT
PCT	PERCENT
PD	PRESSURE DROP
PE	PNEUMATIC-ELECTRIC
PED	PEDESTAL
PERI	PERIMETER
PF	PRE-FILTER
PH	PHASE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PL	PLATES
PLATF	PLATFORM
PMF	PREMOLDED FILLER
PNEU	PNEUMATIC
PNT	PAINT
PPP	PRESSURE POWERED PUMP
PRESS	PRESSURE
PRI	PRIMARY
PROJ	PROJECT
PRV	PRESSURE REDUCING VALVE
PSF	POUND PER SQUARE FOOT
PSI	POUND PER SQUARE INCH
PSIA	POUND PER SQUARE INCH ABSOLUTE
PSIG	POUND PER SQUARE INCH GAGE
PT	POINT OF TANGENCY
PTA	PACKAGE TERMINAL AIR-CONDITIONER
PVC	POINT OF VERTICAL CURVE
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENT
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QTY	QUANTITY

ABBREVIATION	TERM
R	RADIUS
R	RIGHT
R	RISER
RAD	RADIUS
R/W	RIGHT-OF-WAY
RC	REINFORCED CONCRETE
RCCP	REINFORCED CEMENT CONCRETE PIPE
RCPT	RECEPTACLE
RD	ROAD
RDCR	REDUCER
RDWY	ROADWAY
REAC	REACTANCE
RECIP	RECIPROCATING
RECIRC	RECIRCULATE
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REM	REMOVABLE
REQD	REQUIRED
REV	REVISION
RFI	REQUEST FOR INFORMATION
RFI	RADIO FREQUENCY INTERFERENCE
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RTE	ROUTE
RTN	RETURN
RWC	RAINWATER CONDUCTOR
SAN	SANITARY
SAPC	SUSPENDED ACOUSTICAL PANEL CEILING
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SCH	SOCKET HEAD
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SH	SHEET
SIM	SIMILAR
SOL	SOLENOID
SP	SPACE
SP	STANDPIPE
SPEC	SPECIFICATION
SPLY	SUPPLY
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ MI	SQUARE MILE
SST	STAINLESS STEEL
ST	STEAM
ST	STREET
STA	STATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUCT	SUCTION
SURF	SURFACE
SWGR	SWITCHGEAR
SY	SQUARE YARD
SYMM	SYMMETRICAL

ABBREVIATION	TERM
T/G	TOP OF GRATE
T/R	TOP OF RAIL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TB	THRUST BLOCK
TD	TEMPERATURE DIFFERENTIAL
TDH	TOTAL DYNAMIC HEAD
TEL	TELEPHONE
TEMP	TEMPORARY
THD	THREAD
THK	THICK
TK	TANK
TOB	TOP OF BELT
TOF	TOP OF FOOTING
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TRD	TREAD
TRK	TRACK
TSP	TOTAL STATIC PRESSURE
TWP	TOWNSHIP
TYP	TYPICAL
UGND	UNDERGROUND
UH	UNIT HEATER
UN	UNLESS NOTED
UNC	UNITED NATIONAL COARSE
UNF	UNITED NATIONAL FINE
V	VOLT
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME BOX
VARM	VARMETER
VB	VACUUM BREAKER
VC	VERTICAL CURVE
VEL	VELOCITY
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VF	VARIABLE AIR VOLUME BOX - FAN POWERED
VM	VOLTMETER
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF
W	WIDE
W	WIRE (COMBINED FORM)
W/	WITH (COMBINED FORM)
W/O	WITHOUT
WB	WET BULB
WD	WOOD
WF	WALL FIN RADIATION
WH	WALL HYDRANT
WHM	WATT HOUR METER
WM	WATT METER
WP	WORKING POINT
WV	WATER VALVE
WW	WINGWALL
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

GENERAL SYMBOLS



DRAWING SYMBOLS

- 110A — DOOR NUMBER
- 110 — ROOM NUMBER
- 5 — WALL TYPE
- NEW CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- CONCRETE BLOCK
- CONCRETE WALL
- DATUM ELEVATION
- CJ — CONTROL JOINT
- FE — FIRE EXTINGUISHER ON BRACKET
- WP — WORKING POINT

MATERIAL INDICATIONS

- EARTH
- GRAVEL
- CONCRETE MASONRY UNIT
- EXTERIOR FINISH MASONRY UNIT
- CONCRETE
- INSULATION (BLANKET, BATT)
- RIGID INSULATION
- STEEL IN SECTION
- PLYWOOD
- FINISH WOOD
- STRUCTURAL WOOD OR BLOCKING

U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF PRISONS
NORTHEAST REGION
INSTITUTION

APPROVAL SCHEDULE	
TITLE	DATE
WARDEN	
A.W. OPERATIONS	
A.W. PROGRAMS	
A.W. MEDICAL	
M.P.C.C.	
FACILITIES MANAGER	
DEPARTMENT HEAD	
SAFETY MANAGER	
CAPTAIN	
SECURITY OFFICER	

Sheet Title: ABBREVIATIONS, LEGEND AND NOTES

Project Title: ROOF REPLACEMENT FCI FORT DIX, NEW JERSEY

PROJECT # 10108

Drawn By: T. DAVIDHEISER

Checked By: J. Tornetta

Date: Jan. 5, 2004

REVISIONS:	
No.	Date

Sheet No. T-2 of 10 sheets

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