ELECTRICAL GUIDE LEGEND - (EXTERIOR OVERHEAD/UNDERGROUND-TYPICAL)

	EXISTING POLE TO BE REMOVED
XX kVA	NEW POWER POLE, WITH OVERHEAD,POLE-MOUNTED TRANSFORMER, SIZE AS INDICATED
	EXISTING POWER POLE, HEIGHT/CLASS, OWNERSHIP AS NOTED
	NEW POWER POLE, HEIGHT/CLASS
	NEW POWER POLE, WITH OVERHEAD-UNDERGROUND, PRIMARY RISER
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
N	ONE-WIRE NEUTRAL, OVERHEAD
OHS	OVERHEAD SERVICE CONDUCTORS
UP	UNDERGROUND PRIMARY CABLE
UDX(X)	UNDERGROUND DATA CABLE, SHIELDED, MULTIPLE-TWISTED-WIRE PAIRS, DIRECT BURIED, X INDICATES NUMBER OF TWISTED PAIRS (TYPCALLY 6, 12, OR 25, (X) INDICATES NUMBER OF CABLES IF OTHER THAN ONE.
ULX(X)	UNDERGROUND SECONDARY POWER CABLE, FOR LIMIT MARKER LIGHTING, TYPE AS INDICATED, DIRECT BURIED, X INDICATES WIRE SIZE IN AMERICAN WIRE GAGE (AWG) AND (X) INDICATES THE NUMBER OF CIRCUITS IF OTHER THAN ONE.
USL	UNDERGROUND SECONDARY POWER CABLE, FOR RANGE SECURITY LIGHTING, TYPE USE, DIRECT BURIED
USX(X)	UNDERGROUND SECONDARY POWER CABLE (TARGETRY POWER SUPPLY CABLE), DIRECT BURIED, MULTI-CONDUCTOR CABLE, WHERE THE X DENOTES WIRE SIZE IN AMERICAN WIRE GAGE (AWG) AND (X) INDICATES THE NUMBER OF CIRCUITS IF OTHER THAN ONE.
UGS	UNDERGROUND SERVICE ENTRANCE CABLE, TYPE USE, WITH BARE COPPER GROUND. SIZE AS INDICATED, DIRECT BURIED
USR(X)	UNDERGROUND CABLE, HELIPAD LIGHTING CONTROL, TYPE THW, (X) INDICATES NUMBER OF CIRCUITS IF OTHER THAN ONE.
TX	PAD MOUNTED TRANSFORMER. SIZE AS SHOWN. X INDICATES NUMBER.
UT	UNDERGROUND TELEPHONE CABLE, DIRECT BURIED
2 / 6M	DOWN GUY & ANCHOR. (QUANTITY INDICATED UNLESS ONE). STRENGTH IS SHOWN IN MULTIPLE OF 1000 POUNDS (6M=6000 POUNDS STRENGTH)
	UNDERGROUND DUCT BANK, CONCRETE ENCASED-WHERE INDICATED
	POLE GROUND
	TELEPHONE PEDESTAL
M	WATTHOUR DEMAND METER
PX	PRIMARY CABLE TERMINATING/SECTIONALIZING ENCLOSURE, PAD MOUNTED. X INDICATES IDENTIFICATION NUMBER.
	EXTERIOR LIGHT FIXTURE, TYPE AND MOUNTING AS INDICATED.
—X—X—X—X—X—X—	FENCE
PC-X	POWER CENTER DOWNRANGE, X INDICATES POWER CENTER NUMBER
HH-X	HANDHOLE, NON-TRAFFIC, TYPE 6, X INDICATES NUMBER.

INTERIOR ELECTRICAL LEGEND (TYPICAL)

OR	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2 # 12 CONDUCTORS & 1 # 12 GND IN ½" CONDUIT UNLESS OTHERWISE NOTED. TICK MARKS, WHEN SHOWN, INDICATE THE NUMBER OF # 12 CONDUCTORS, IF OTHER THAN THREE. INDICATES GROUND. CONDUIT LARGER THAN ½" AND CONDUCTOR LARGER THAN # 12 SHALL BE AS INDICATED,
A1,2,3	HOMERUN TO PANEL OR CIRCUIT BREAKER. PANEL AND CIRCUIT BREAKER DESIGNATIONS AS INDICATED.
	CONDUIT TURNED UP.
	PANELBOARD. SURFACE MOUNTED UNLESS OTHERWISE INDICATED.
X	FLUORESCENT LIGHTING FIXTURE, X DENOTES FIXTURE MARK.
X	INCANDESCENT LIGHTING FIXTURE, X DENOTES FIXTURE MARK.
$	TOGGLE SWITCH, SINGLE POLE, 1220 AFF, SURFACE MOUNTED.
$D	TOGGLE SWITCH, DOUBLE-POLE, SINGLE-THROW 20 AMP. 1220 AFF, SURFACE MOUNTED.
$3	TOGGLE SWITCH, THREE-WAY, 1220 AFF, SURFACE MOUNTED.
	DUPLEX RECEPTACLE, SURFACE MOUNTED.
	DISCONNECT SWITCH, SURFACE MOUNTED.
J	JUNCTION BOX, SUFACE MOUNTED.
	GROUND TO EXTERNAL GROUND ROD.
	GROUND ROD, 19 x 3050
EX	EXIT LIGHT
	EMERGENCY LIGHT
	TELEPHONE OUTLET BOX-50 X 100 X 50, FLUSH MOUNTED
	START/STOP PUSH BUTTON
T	THERMOSTAT, WALL-MOUNTED.

GENERAL NOTES:

1. SEE CIVIL DRAWINGS FOR PRECISE LOCATIONS OF ROADS, TARGET EMPLACEMENTS, AND RANGE FACILITY STRUCTURES.
2. UNDERGROUND POWER, COMMUNICATIONS AND DATA CABLES SHALL BE DIRECT BURIED OR IN DUCT AS NEEDED. DUCT SHALL BE CONCRETE ENCASED IN THE RANGE SUPPORT AREA. CABLE RUNS SHALL BE BURIED IN ACCORDANCE WITH THE CORRESPONDING TYPICAL DETAIL ON DRAWING E-9. MINIMUM BURIAL DEPTHS AND SEPARATIONS SHALL BE AS INDICATED PER NFPA 70.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED ON DRAWING.

ABBREVIATIONS:

AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
AMTC - ARMOR MOVING TARGET CARRIER
CJB - CABLE JUNCTION BOX
DBB - DATA CABLE BREAKOUT BOX
IMT - INFANTRY MOVING TARGET
IN - INCH
LPS - LOW PRESSURE SODIUM
MSD - MORTAR SIMULATOR DEVICE
MTD - MOUNTED
N.I.C. - NOT IN CONTRACT - TO BE INSTALLED BY OTHERS
N.T.S. - NOT TO SCALE
PC - POWER CENTER
RGS - RIGID GALVANIZED STEEL
SAT - STATIONARY ARMOR TARGET
SDA - SIGNAL DISTRIBUTION ASSEMBLY
SGP - SINGLE GROUND POINT
SIT - STATIONARY INFANTRY TARGET
TJB - TOWER JUNCTION BOX
WP - WEATHERPROOF (WHEN COVER IS CLOSED)

US Army Corps of Engineers

Symbol	Description	Date	Approved	Symbol	Description	Date	Approved

Designed by: N/A
Date: 01 APR 98
Rev.
Dwn by: JTP
Ckd by: MLR
Design file no.
Reviewed by: WLS
Submitted by: RNM
Drawing code: STD 179-00-01
File name: STDE0.DGN
Plot date: 20 MAR 98
Plot scale: FULL

U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

FORCE XXI/FORCE MODERNIZATION PROGRAM
STANDARD DESIGN

TYPICAL ELECTRICAL LEGEND

Sheet reference number:
E-01
Sheet of