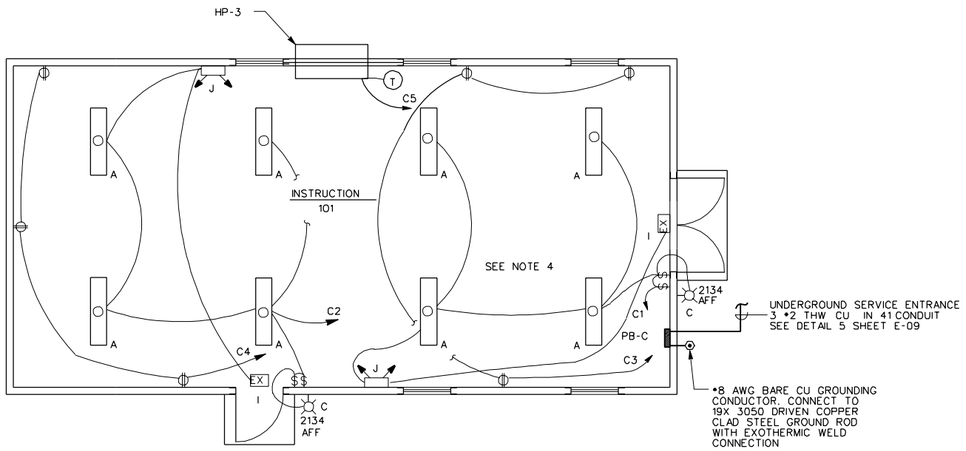


GENERAL INSTRUCTION BLDG ELECTRICAL PLAN

SCALE 1:50

PANELBOARD PB-C SCHEDULE (GEN. INSTR. BLDG)													
100A MAIN BREAKER, 100A MAIN BUS, 120/240V, 1 PHASE, 3 WIRE, 10 KAIC MINIMUM, RECESSED MOUNT													
LOAD SERVED	LOAD (VA) A	LOAD (VA) B	BKR TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (VA) A	LOAD (VA) B	LOAD SERVED
LIGHTS	315		20	12	1			2	12	20	315		LIGHTS
RECEPTACLES		600	20	12	3			4	12	20		600	RECEPTACLES
HP-3	1500		20	12	5			6	10	30	500		SPARE
		1500										500	
SPARE	400		20	12	9			10	12				SPACE
SPACE					11			12					SPACE
TOTAL	2215	2100									815	1100	TOTAL
TOTAL CONNECTED VA A: 3030 B: 3200													

CONNECTED: 6230 VA
CONTINUOUS A: 26A

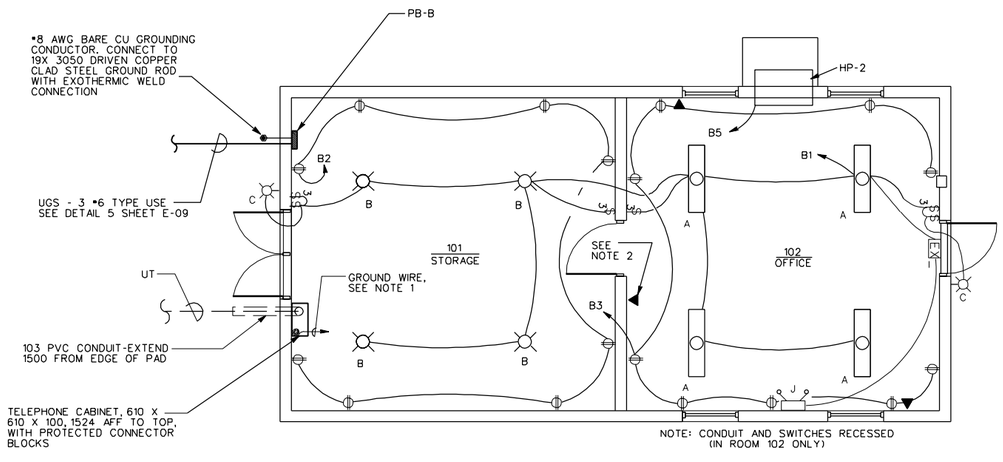
DEMAND: 5180 VA

NOTES:

1. CONDUIT, SWITCHES, AND PANEL PB-C ARE FLUSH MOUNTED.
2. FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E-08.
3. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. BREAKER SIZES SHOWN FOR HEAT PUMPS ARE FOR EXAMPLE ONLY. SIZE BREAKERS IN ACCORDANCE WITH HEAT PUMP MANUFACTURE'S RECOMMENDATION.

GRAPHIC SCALES

1:50 1000 500 0 1000 2000



OPERATIONS/STORAGE BLDG ELECTRICAL PLAN

SCALE 1:50

PANELBOARD PB-B SCHEDULE (OPS/STORAGE BLDG.)													
100A MAIN BREAKER, 100A MAIN BUS, 120/240V, 1 PHASE, 3 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT													
LOAD SERVED	LOAD (VA) A	LOAD (VA) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (VA) A	LOAD (VA) B	LOAD SERVED
LIGHTS	933		20	12	1			2	12	20	1600		RECPTACLES (STORAGE)
RECEPTACLES (OPERATIONS)		1800	20	12	3			4				400	SPARE
HP-2	1500		20	12	5			6	12	20	200		SPARE
		1500										200	
SPACE					9			10					SPACE
SPACE					11			12	12				SPACE
TOTAL	2433	3300									1800	600	TOTAL
TOTAL CONNECTED VA A: 4233 B: 3900													

CONNECTED: 8133 VA
CONTINUOUS A: 30 A

DEMAND: 7083 VA

NOTES:

1. PROVIDE COPPER GROUND WIRE. ATTACH TO BOTTOM CORNER OF THE TELEPHONE BACKBOARD, LEAVING 2m COILED. ROUTE IN 21 RGS CONDUIT TO GROUND BUS IN PANEL PB-B.
2. 50 x 100 OUTLET BOX, 450 AFF, CONNECTED TO 20 CONDUIT RUN TO TELEPHONE CABINET. PROVIDE NYLON PULL CORD IN CONDUIT. TYPICAL FOR 3.
3. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. BREAKER SIZES SHOWN FOR HEAT PUMPS ARE FOR EXAMPLE ONLY. SIZE BREAKERS IN ACCORDANCE WITH HEAT PUMP MANUFACTURE'S RECOMMENDATION.
5. CONDUIT, SWITCHES, AND TELEPHONE OUTLETS RECESSED (IN ROOM 101 ONLY).
6. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-08.

GRAPHIC SCALES

1:50 1000 500 0 1000 2000

US Army Corps of Engineers

Symbol	Description	Date	Approved	Symbol	Description	Date	Approved

Designed by: N/A
Dwn by: JTP
Ckd by: MLR
Reviewed by: WLS
Submitted by: RNM
Date: 01 APR 98
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U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

FORCE XXI/FORCE MODERNIZATION PROGRAM
STANDARD DESIGN

OPERATION/STORAGE AND GENERAL INSTRUCTION BUILDINGS

Sheet reference number:
E-14
Sheet of