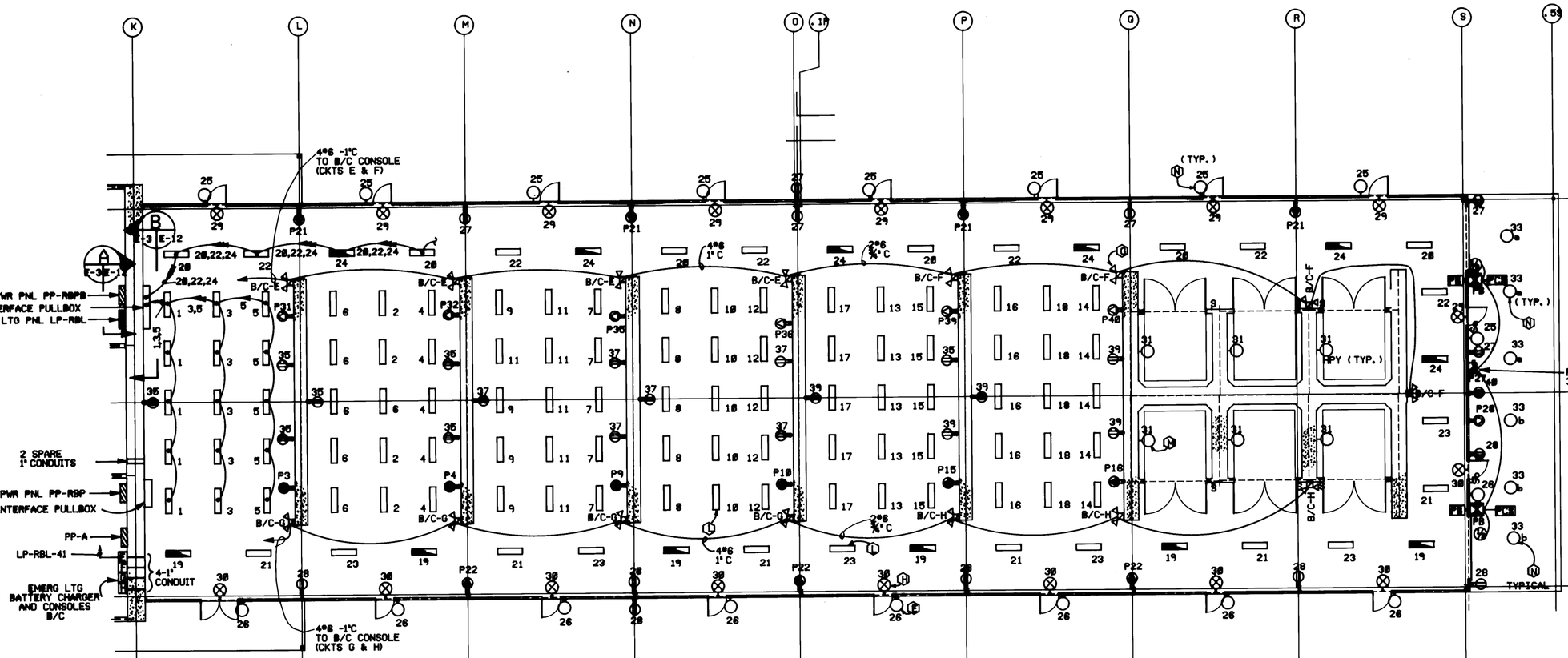
CORPS OF ENGINEERS | 4 | 3 | 2 | 1 | U. S. ARMY

NOTES

1. ALL ELECTRICAL DEVICES, LUMINAIRES AND WIRING SHALL BE RATED FOR THE NATIONAL ELECTRICAL CODE HAZARD CLASSIFICATION: CLASS I, DIVISION 1, GROUPS C&D, CLASS II, DIVISION 1, GROUPS E,F,&G (EXCEPT AS INDICATED BY NOTE 3)
2. LIGHTING CIRCUITRY SHOWN ATTENUATES LTG. STROBICAL EFFECTS, PERMITS SWITCHING TO VARY LIGHTING LEVELS AND PROVIDES FUTURE ALTERATION FLEXIBILITY WITH MAXIMIZED FAULT SEGREGATION OF BRANCH CIRCUITRY.
3. NEMA 4 OR (UL57 & UL1572) EQUIPMENT SHALL BE UTILIZED ON THE EXTERIOR OF THE FACILITY (TRUCK LOADING/UNLOADING AREA AND ALL EXTERIOR DOOR LUMINAIRES)
4. EXTERIOR LIGHTING CKTS. 25 AND 26 SHALL BE PHOTO-CELLED CONTROLLED.
5. CIRCUIT NUMBERS WITHOUT A PREFIX ARE CIRCUITS OF PANEL LP-RBL. CIRCUIT NUMBERS WITH A PREFIX "P" ARE CIRCUITS OF PANEL PP-RBP.
6. POWER RECPTACLES SHALL BE MOUNTED 4'-6" A.F.F. UNLESS OTHERWISE NOTED.



ELECTRICAL-LIGHTING PLAN

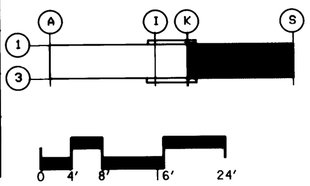
PANELBOARD LP-RBL LOCATION COL K (NON-HAZARDOUS AREA) SURFACE MOUNTED FEED
225 AMP MAIN BREAKER W/200 AMP TRIP 10,000 SYM A.I.C. MIN.
CIRCUIT BREAKER TYPE 200/120 VOLTS 3 PHASE 4 WIRE 225 AMP MAINS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE SIZE	LOAD SERVED	LOAD V-A	PHASE LOAD, V-A ØA	ØB	ØC	LOAD V-A	LOAD SERVED	WIRE SIZE	NO. POLES	TRIP AMPS	CKT. NO.
1	20	1	#12	INSP. BAY(K-L) LIGHTING	600	1200	-	-	600	INSP. BAY(L-M) LIGHTING	#12	1	20	2
3	20	1	#12	INSP. BAY(K-L) LIGHTING	600	-	1200	-	600	INSP. BAY(L-M) LIGHTING	#12	1	20	4
5	20	1	#12	INSP. BAY(K-L) LIGHTING	600	-	-	1200	600	INSP. BAY(L-M) LIGHTING	#12	1	20	6
7	20	1	#12	INSP. BAY(M-N) LIGHTING	600	1200	-	-	600	INSP. BAY(N-O) LIGHTING	#12	1	20	8
9	20	1	#12	INSP. BAY(M-N) LIGHTING	600	-	1200		600	INSP. BAY(N-O) LIGHTING	#12	1	20	10
11	20	1	#12	INSP. BAY(M-N) LIGHTING	600	-	-	1200	600	INSP. BAY(N-O) LIGHTING	#12	1	20	12
13	20	1	#12	INSP. BAY(O-P) LIGHTING	600	1200	-	-	600	INSP. BAY(P-Q) LIGHTING	#12	1	20	14
15	20	1	#12	INSP. BAY(O-P) LIGHTING	600	-	1200	-	600	INSP. BAY(P-Q) LIGHTING	#12	1	20	16
17	20	1	#12	INSP. BAY(O-P) LIGHTING	600	-	-	1200	600	INSP. BAY(P-Q) LIGHTING	#12	1	20	18
19	20	1*	#12	INSP. BAY ACCESS AISLE COL. 3	750	1500	-	-	750	INSP. BAY ACCESS AISLE COL. 3	#12	1	20	20
21	20	1	#12	INSP. BAY ACCESS AISLE COL. 3	750	-	1500	-	750	INSP. BAY ACCESS AISLE COL. 3	#12	1	20	22
23	20	1	#12	INSP. BAY ACCESS AISLE COL. 3	750	-	-	1500	750	INSP. BAY ACCESS AISLE COL. 3	#12	1*	20	24
25	20	1	#12	COL. NO. 3 EXTERIOR LIGHTS (576 WATTS)	800	1400	-	-	600	COL. NO. 3 EXTERIOR LIGHTS	#12	1	20	26
27	20	1	#12	COL. NO. 3 RECEPTACLES (1125 WATTS)	1125	-	2250	-	1125	COL. NO. 3 RECEPTACLES	#12	1	20	28
29	20	1*	#12	COL. NO. 3 EXIT LIGHTS (540 WATT)	450	-	-	900	450	COL. NO. 3 EXIT LIGHTS	#12	1*	20	30
31	20	1	#12	TEST AND STORAGE CUBICLE LIGHTING	750	8750	-	-	8000	PANEL PP-RBPB	#2	3	60	34
33	20	1	#12	LOADING DOCK LIGHTING	750	-	8750	-	8000					
35	20	1	#12	BAYS K-L AND L-M RECPTS(2X)	1350	-	-	9350	8000					
37	20	1	#12	BAYS M-N AND N-O RECPTS(2X)	1350	4475	-	-	3125	LOADING DOCK 208/120V 3 PHASE 4 WIRE RECEPTACLE	#8	3	30	40
39	20	1	#12	BAYS O-P AND P-Q RECPTS(2X)	1350	-	4475	-	3125					
41	20	1	#12	EMERGENCY LIGHTING B/C	1000	-	-	4225	3125					
SUPPLIED FROM PANEL PP-A CIR 15(DWG#E-1)				TOTAL		19725	20675	19675	TOTAL CONNECTED LOAD 59.075 KVA 65% DEMAND EST., DEMAND LOAD 38.916 KVA					

*BREAKER SHALL BE LOCKED "ON".

PANELBOARD PP-RBP LOCATION COL K (NON-HAZARDOUS AREA) MOUNTED TOP FEED
100 AMP MAIN BREAKER W/ 90 AMP TRIP 14,000 SYM A.I.C. MIN.
CIRCUIT BREAKER TYPE 480/277 VOLTS 3 PHASE 4 WIRE 225 AMP MAINS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE SIZE	LOAD SERVED	LOAD V-A	PHASE LOAD, V-A ØA	ØB	ØC	LOAD V-A	LOAD SERVED	WIRE SIZE	NO. POLES	TRIP AMPS	CKT. NO.
3	30	3	#10	INSP. BAY(K-L) 480/277V POWER						INSP. BAY(L-M) 480/277V POWER	#10	3	30	4
9	30	3	#10	INSP. BAY(M-N) 480/277V POWER						INSP. BAY(N-O) 480/277V POWER	#10	3	30	10
15	30	3	#8	INSP. BAY(O-P) 480/277V POWER						INSP. BAY(P-Q) 480/277V POWER	#8	3	30	16
21	30	3	#8	INSP. BAY ACCESS AISLE COL. 3 480/277V POWER						INSP. BAY ACCESS AISLE COL. 3 480/277V POWER	#8	3	30	22
										SPACE				26
27	30	3	#8	TO SAFETY FUSED SW LOADING DOCK 480/277V POWER (FOR M.O. DOORS)						LOADING DOCK 480V SINGLE PHASE POWER	#8	2	20	28
31	20	2	#10	INSP. BAY(K-L) 480V SINGLE PHASE POWER						INSP. BAY(L-M) 480V SINGLE PHASE POWER	#10	2	20	32
35	20	2	#10	INSP. BAY(M-N) 480V SINGLE PHASE POWER						INSP. BAY(N-O) 480V SINGLE PHASE POWER	#10	2	20	36
39	20	2	#10	INSP. BAY(O-P) 480V SINGLE PHASE POWER						INSP. BAY(P-Q) 480V SINGLE PHASE POWER	#10	2	20	40
NOTE: BRANCH CIRCUITS TO BE VERIFIED BY SITE ADAPTION DESIGNER				TOTAL					TOTAL CONNECTED LOAD ~200 KVA 25% DEMAND EST., DEMAND LOAD ~50 KVA					



Symbol	Description Revisions	Date	Approved

US ARMY ENGINEER DIVISION HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

STANDARD DESIGN
AMMUNITION SURVEILLANCE FACILITY
LIGHTING & POWER PLAN
R.H. INSPECTION BAYS

Dwn. by : CG/TT | Ckd. by :
Reviewed by : | Date :
Approved by :
Drawing code : STD 216-12-02
Sheet reference number : E-3
Design file no. : 12
Rev.
Sheet of

5 | 4 | 3 | 2 | 1