

NOTES

- ARCHITECTURAL**
1. THE PERSPECTIVE INDICATED IS NOT INTENDED TO ESTABLISH ARCHITECTURAL DESIGN TREATMENT OR ARCHITECTURAL STYLE. WHERE POSSIBLE, USE OF LOCAL MATERIALS IS DESIRED, BUT IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED, UNLESS NOTED TO THE CONTRARY. WINDOW AND DOOR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SERVE AS A DESIGN GUIDE.
 2. WALLS, DOORS, AND WINDOWS OF THE STRUCTURE'S BULLET RESISTANT PERIMETER SHALL BE DESIGNED TO PROTECT PERSONNEL AGAINST THE HIGH POWERED RIFLE THREAT AS DEFINED IN UL-752. WALLS SHALL BE REINFORCED CONCRETE, MINIMUM THICKNESS 5 INCHES (12.7CM). DOORS AND WINDOW ASSEMBLIES, HARDWARE, AND ANCHORS SHALL BE BULLET RESISTANT TO HIGH POWERED RIFLE THREAT (UL-HPR) AS DEFINED IN UL-752.
 3. THE STRUCTURE'S INTERIOR SHALL CONSTITUTE A FIGHTING POSITION FOR SECURITY PERSONNEL. MANUALLY-OPERATED GUN PORTS SHALL BE POSITIONED BELOW EACH EXTERIOR WINDOW AS SHOWN. GUN PORTS SHALL BE AT A HEIGHT TO PERMIT ALERT FORCE PERSONNEL TO FIRE FROM A KNEELING POSITION, UNLESS OTHERWISE NOTED. DOOR AND WINDOW LOCATIONS ARE APPROXIMATE AND SERVE AS A DESIGN GUIDE ONLY.
 4. IF POWER GENERATOR EQUIPMENT IS REQUIRED, IT SHALL BE HOUSED IN A SPACE RESISTANT TO THE HIGH POWERED RIFLE THREAT (UL-HPR) AS DEFINED IN UL-752.
 5. MAIN ENTRY DOORS SHALL BE PROVIDED WITH CREMONE BOLTS OR SIMILAR SECURING DEVICE AT THE INTERIOR SIDE. FOR LARGER FACILITIES A DOUBLE DOOR SHALL BE USED TO ACCOMMODATE THE INCREASED OCCUPANCY LOAD.
 6. REFER TO SHEET 11 FOR THE REQUIREMENTS TO PROVIDE PROTECTIVE CONSTRUCTION AGAINST THE EFFECTS OF AN EXPLOSION AT THE VEHICLE BARRIER.
 7. FIRING PORTS SHALL BE DESIGNED TO BE FUNCTIONAL WITH THE M-16 HIGH PROFILE SIGHT PLANE.

- STRUCTURAL**
1. DIMENSIONS MAY BE ADJUSTED FOR STRUCTURE ADAPTATIONS. WINDS AND LIVE LOADS SHALL BE IN ACCORDANCE WITH TM 5-809-1, SEISMIC AND BLAST DESIGNS IN ACCORDANCE WITH TMS-809-10 AND TMS-1300 RESPECTIVELY.

- PLUMBING**
1. PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH ARCHITECT AND ENGINEERING INSTRUCTIONS AND TM 5-810-5.

- MECHANICAL**
1. HEATING, VENTILATION, AND AIR CONDITIONING SHALL BE DESIGNED FOR LOCAL CONDITIONS AND SHALL BE IN ACCORDANCE WITH ARCHITECT AND ENGINEERING INSTRUCTIONS AND TM 5-810-1. FRESH AIR INTAKES SHALL BE LOCATED IN OUTSIDE WALL IN A NON-VULNERABLE AREA.

- ELECTRICAL**
1. POWER SERVICE SHALL BE UNDERGROUND. THE NORMAL SOURCE OF ELECTRIC POWER SHALL BE BACKED UP WITH AN ALTERNATE SOURCE. A STANDBY GENERATOR MUST BE EQUIPPED WITH SUITABLE MEANS FOR AUTOMATICALLY STARTING THE ENGINE UPON FAILURE OF THE NORMAL SOURCE OF ELECTRICAL SERVICE AND BE CAPABLE OF OPERATING ALL REQUIRED ELECTRICAL FUNCTIONS AFFECTING SECURITY, SAFETY, AND COMMUNICATIONS AT FULL POWER WITHIN 10 SECONDS OF FAILURE OF THE REGULAR SERVICE. PROVIDE TELEPHONE, RADIO AND ALARM SERVICES.
 2. THE INTERIOR LIGHTING INTENSITIES SHOWN ARE AT WORKING LEVEL. ALL LAMPS SHALL BE RAPID-START FLUORESCENT TYPE EXCEPT THAT INCANDESCENT TYPE SHALL BE USED IN THE TOILET AND UTILITY ROOMS. EMERGENCY LIGHTING, WITH BATTERY STANDBY, SHALL BE PROVIDED.
 3. EXTERIOR LIGHTING SHALL PROVIDE A MINIMUM LEVEL OF 2.0 FOOTCANDLES HORIZONTAL ILLUMINATION MEASURED 6 INCHES ABOVE GROUND LEVEL. THE AREA ILLUMINATED SHALL BE NOT LESS THAN 100 FEET OUTWARD FROM THE VISITOR CONTROL CENTER AND SHALL EXTEND 25 FEET TO EITHER SIDE OF THE ROAD OR WALKWAY. THE AREA AROUND THE BUILDING EXTENDED 10 FEET OUTWARD ALSO SHALL BE ILLUMINATED. EXTERIOR LIGHTING CONTROLS SHALL BE LOCATED IN THE VISITOR CONTROL CENTER. USE RAPID RESTRIKE TYPE FIXTURES.
 4. ELECTRICAL CONTROLS FOR THE VEHICLE BARRICADES AND ANY GATES SHALL BE LOCATED IN BOTH THE ENTRY CONTROL POINT AND THE VISITOR CONTROL CENTER.
 5. LOCATION OF POWER AND CONVENIENCE OUTLETS SHALL BE SELECTED BY THE DESIGN AGENCY.

ELECTRICAL LOADS

LIGHTING	4.5 KW
RECEPTACLES	2.0 KW
HEATING	18.2 KW
COOLING	13.2 KW

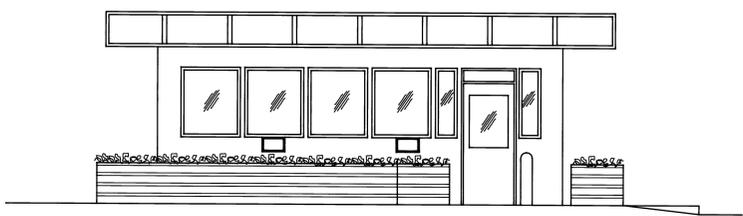
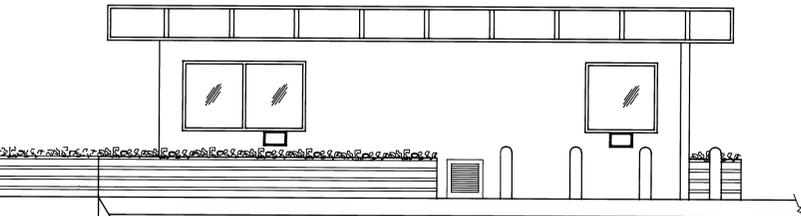
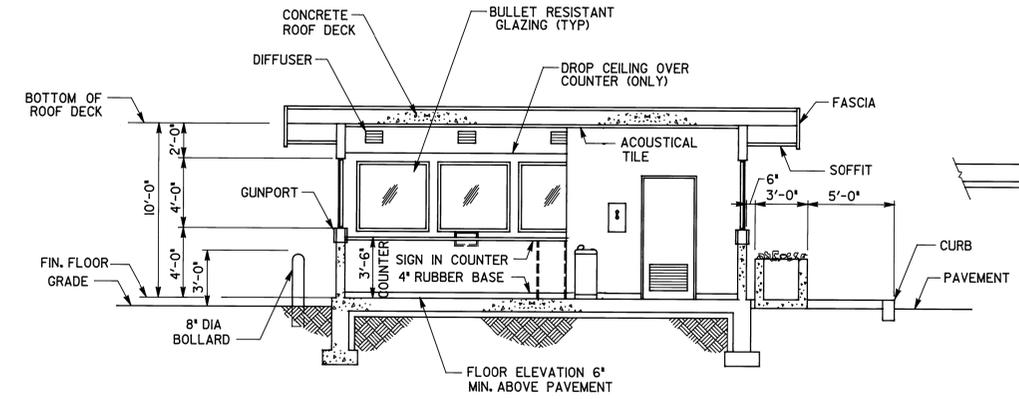
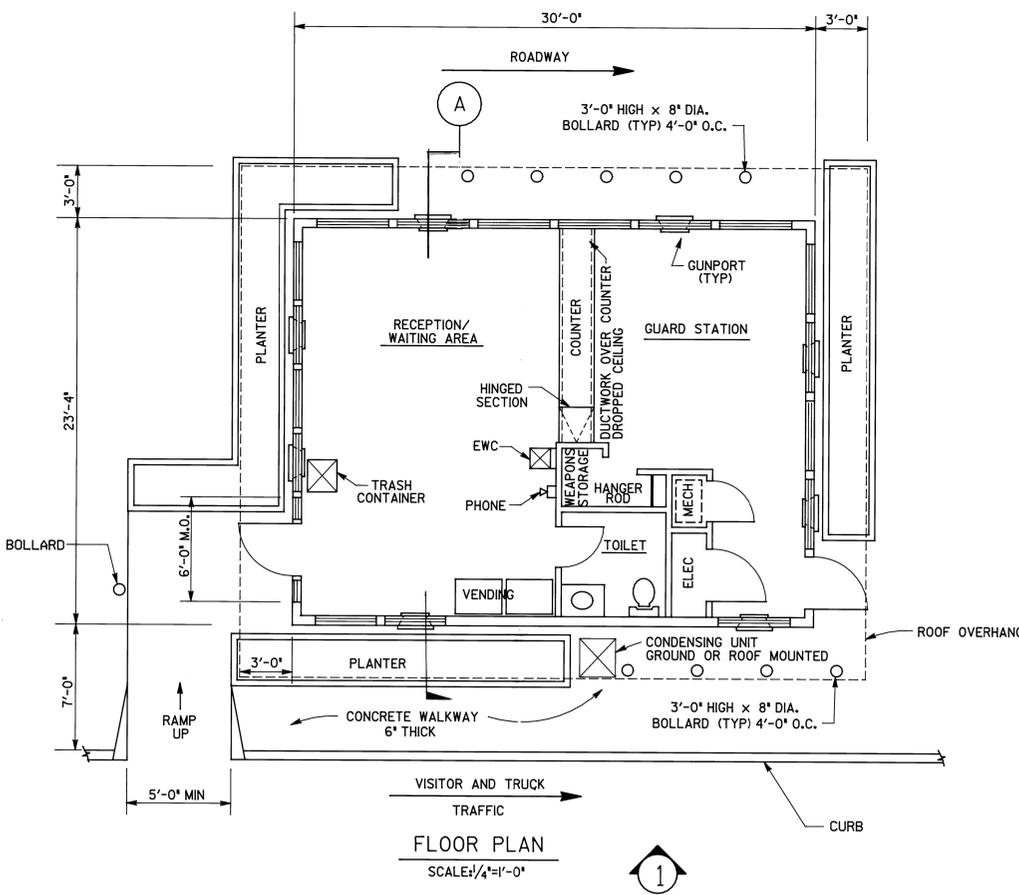
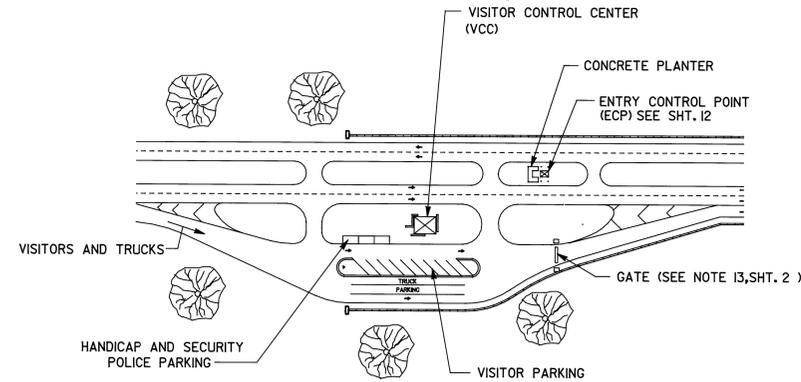
Symbol	Description	Date	Approved
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U.S. ARMY ENGINEER DIVISION,
HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E : **ENTRY POINTS FOR U.S. ARMY INSTALLATIONS**

Dwn. by : PWB Ckd. by : RK

Reviewed by : *A. J. ...* Date : 27 FEB 89 Sheet reference number : 14 Design file no. :
 Approved by : *Robert ...* Drawing code : DEF 872-50-01 Sheet 14 of 14



DESIGN DATA AND ANALYSIS

ROOM	CLEAR HGT. REQUIRED	MINIMUM SIZE		DESIGN LOADS	ELECTRICAL LIGHTING F.C.	REMARKS AND ADDITIONAL REQUIREMENTS
		INTERIOR	SQ. FT.			
GUARD STATION	10'-0"	15'-0" x 14'-0" + 5'-0" x 9'-0"	255	SEE NOTES	50	PROVIDE SUITABLE NIGHT LIGHTING (RED LIGHTS OR DIMMER CONTROL)
WAITING AREA	10'-0"	24'-0" x 16'-0"	284		30	
TOILET	10'-0"	6'-0" x 6'-0"	36		30	
MECH/ELEC ROOMS ROOM UTILITY ROOM	10'-0"	AS REQ'D	AS REQ'D		15	

