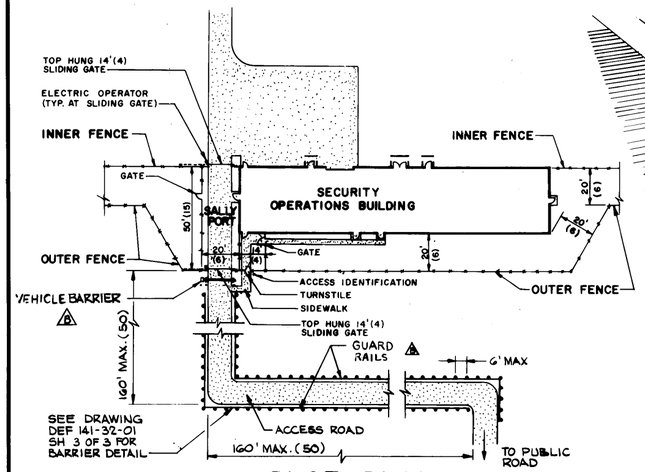
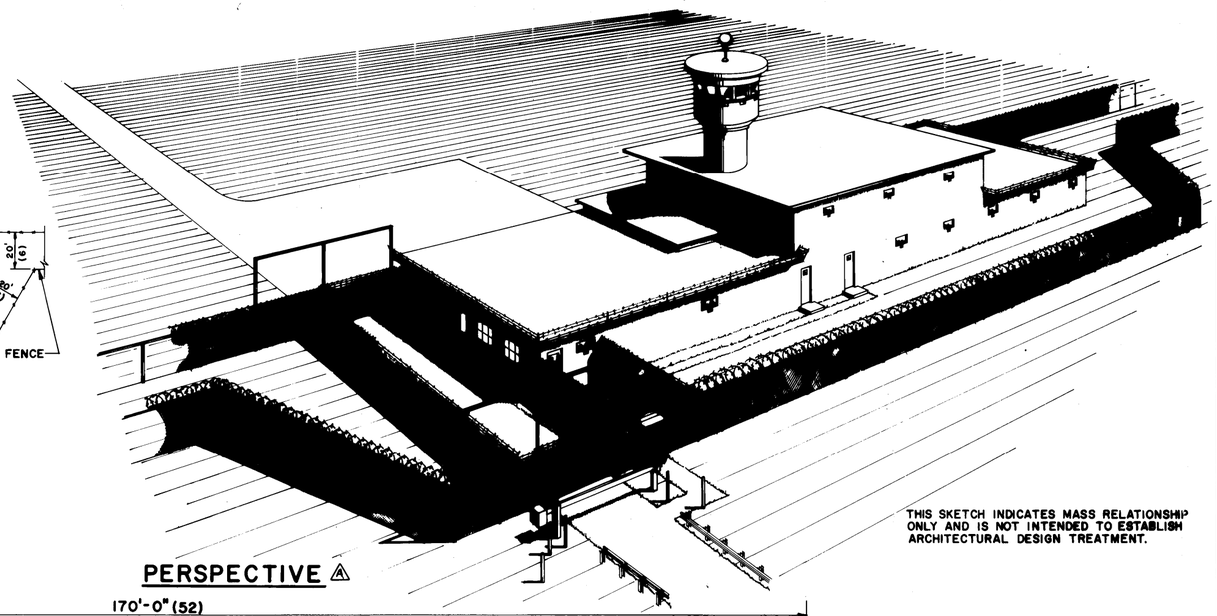
CORPS OF ENGINEERS

U. S. ARMY



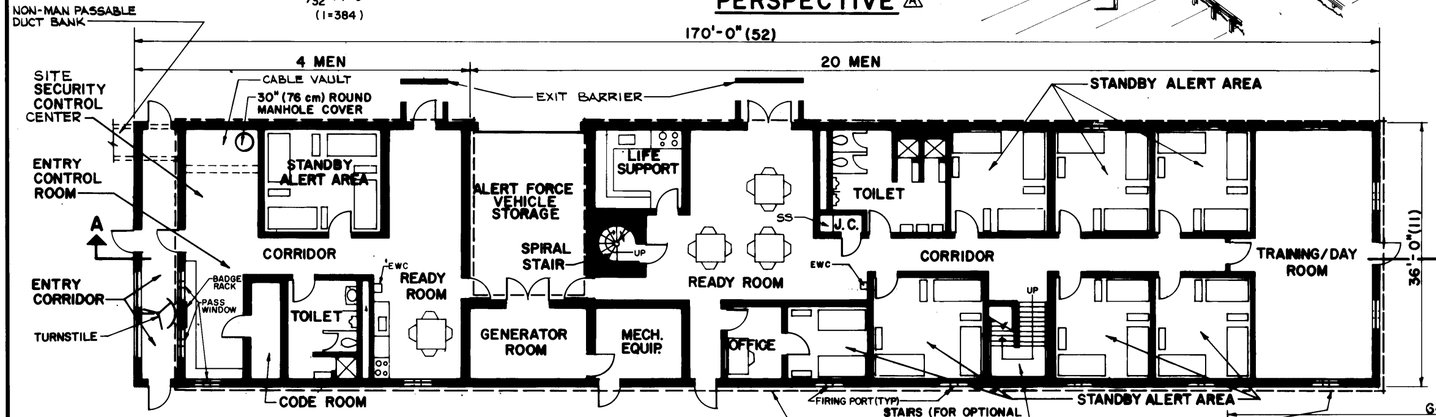
PLOT PLAN

1/32" = 1'-0"
(1=384)



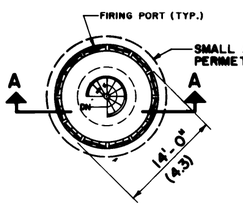
PERSPECTIVE

THIS SKETCH INDICATES MASS RELATIONSHIP ONLY AND IS NOT INTENDED TO ESTABLISH ARCHITECTURAL DESIGN TREATMENT.



FIRST FLOOR PLAN

1/8"=1'-0"
(1=96)

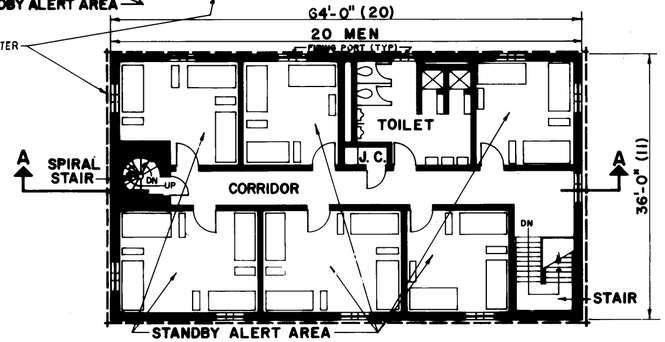


SECURITY GUARD TOWER FLOOR PLAN

1/8"=1'-0"
(1=96)

SECTION A-A

1/8"=1'-0"
(1=96)



SECOND FLOOR PLAN (OPTIONAL)

1/8"=1'-0"
(1=96)

GROSS AREA	6,275 SQ. FT.
GROSS AREA (WITH OPTIONAL SECOND FLOOR)	8,580 SQ. FT.

NOTE:
DIMENSIONS SHOWN IN PARENTHESIS ARE APPROXIMATE METRIC EQUIVALENT EXPRESSED IN METERS UNLESS OTHERWISE NOTED.

1/8" = 1'-0" (1=96) 0 4 8 16 24 (2) (4) (6)

1/32" = 1'-0" (1=384) 0 16 32 64 96 (8) (16) (24)

FULL SIZE (1=1) 0 1" 2" 3" (20 MM) (40 MM) (60 MM)

GRAPHIC SCALES

REFERENCE MATERIAL

1. NOT USED
2. DOD 5210.41-M, NUCLEAR WEAPON SECURITY MANUAL
3. AR 50-5, NUCLEAR WEAPONS AND MATERIAL, NUCLEAR SURETY
4. AR 190-11, PHYSICAL SECURITY OF WEAPONS, AMMUNITION, AND EXPLOSIVES
5. AR 385-64, AMMUNITION AND EXPLOSIVE SAFETY STANDARDS
6. AR 415-50, CONTERMINOUS UNITED STATES BASIC FACILITIES AND SPACE ALLOWANCES FOR CONSTRUCTION AT INSTALLATIONS IN EVENT OF EMERGENCY
7. TM 5-785, ENGINEERING WEATHER DATA
8. TM 5-800-1, CONSTRUCTION CRITERIA FOR ARMY FACILITIES
9. TM 5-809-1, LOAD ASSUMPTION FOR BUILDINGS
10. TM 5-810-1, MECHANICAL DESIGN-HEATING, VENTILATING, AND AIR CONDITIONING
11. TM 5-810-5, PLUMBING
12. TM 5-811-1, ELECTRICAL DESIGN: ELECTRIC POWER SUPPLY AND DISTRIBUTION
13. TM 5-811-2, ELECTRICAL DESIGN: INTERIOR ELECTRICAL SYSTEM
14. TM 5-811-3, ELECTRICAL DESIGN: LIGHTNING PROTECTION SYSTEM
15. TM5-853-2, SECURITY ENGINEERING-CONCEPT DESIGN
16. CEGS 13970, BULLET-RESISTANT COMPONENTS
17. CEGS 13955 VEHICLE BARRIERS
18. U.S. ARMY CORPS OF ENGINEERS, ARCHITECT, ENGINEER CONSTRUCTION (AEC) DESIGN CRITERIA, DATED 8 DECEMBER 1981.

ARCHITECTURAL

1. WALLS AND ROOF STRUCTURE SHALL BE DESIGNED FOR THE APPROPRIATE BALLISTIC THREAT SEVERITY LEVEL. REFER TO TM 5-853-2 FOR GUIDANCE. DOORS, WINDOWS, PASS-THROUGH DRAWERS, AND GUN PORTS SHALL BE SPECIFIED FOR THE APPROPRIATE BALLISTIC THREAT SEVERITY LEVEL USING CEGS 13970, BULLET-RESISTANT COMPONENTS.

2 NOT USED

3. THE STRUCTURE'S INTERIOR SHALL CONSTITUTE A FIGHTING POSITION FOR SECURITY PERSONNEL. MANUALLY-OPERATED FIRING PORTS SHALL BE POSITIONED BELOW EACH EXTERIOR WINDOW AS SHOWN. WINDOW SILLS AND FIRING 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. THE SECURITY GUARD TOWER SHALL PROVIDE A 360° FIELD OF VIEW OF THE SITE, EXTENDING VERTICALLY FROM A LINE 10° ABOVE THE HORIZONTAL TO AS NEAR AS POSSIBLE TO THE BASE OF THE TOWER OR FINISH GRADE OF THE BUILDING. THE TOWER OBSERVATION FLOOR SHALL BE LOCATED FROM 30 TO 45 FEET ABOVE THE GROUND, DEPENDING ON LOCAL SITE CONDITIONS.
5. WINDOWS OF THE SECURITY GUARD TOWER SHALL BE DESIGNED TO BE CLEANED FROM THE INTERIOR OF THE TOWER AND SHALL BE EQUIPPED WITH WINDSHIELD TYPE WIPERS ON THE EXTERIOR.
6. DOOR TO THE ALERT FORCE VEHICLE STORAGE SHALL BE 14-GAGE STEEL OVERHEAD TYPE.
7. A PREFABRICATED LIFE SUPPORT UNIT CONTAINING ELECTRIC SURFACE PLATES, OVEN, REFRIGERATOR, SINK, COUNTERTOP, AND UPPER CABINETS SHALL BE PROVIDED IN THE READY ROOM OF THE 4-MAN AREA.
8. THE LIFE SUPPORT AREA OF THE 20/40-MAN AREA SHALL BE PROVIDED WITH A BUILT-IN COUNTERTOP, BASE CABINETS, SINK, AND UPPER CABINETS, AND SPACE SHALL BE PROVIDED FOR A REFRIGERATOR/FREEZER UNIT AND RANGE/OVEN UNIT. WHEN REQUIRED, A LARGE FULL SIZE KITCHEN WILL BE JUSTIFIED TO DA FOR APPROVAL.
9. A BADGE RACK SHALL BE INSTALLED BETWEEN THE TWO PASS WINDOWS BETWEEN THE ENTRY CONTROL ROOM AND ENTRY CORRIDOR.
10. SECURITY TURNSTILE GATES SHALL BE TWO-WAY PASSAGE GATES TO PERMIT ENTRY OR EXIT. GATES SHALL BE COMPLETE UNITS INCLUDING CAGE, BARRIER, ROTATING ARMS, CEILING PLATE, AND LOCKING CONTROLS. LOCKING CONTROLS SHALL BE BY TWO ELECTRICALLY-OPERATED LOCKING MECHANISMS, CONTROLLING BOTH ENTRANCE AND EXIT. WHEN UNLOCKED FOR ENTRANCE, THE GATE ARMS WILL REMAIN LOCKED AGAINST EXIT, AND VICE-VERSA.
11. THE VEHICLE ENTRY AREA SHALL PROVIDE A 50-FOOT-LONG VEHICULAR SALLY PORT WITH POSITIVE-LOCKING ELECTRICALLY OPERATED OVERHEAD HUNG SLIDING GATES. A ROADWAY BARRIER, ELECTRICALLY OPERATED, SHALL BE INSTALLED OUTSIDE THE SLIDING GATE OF THE OUTER FENCE.
12. AT SITES NOT REQUIRING GENERATOR ROOM AND ALERT FORCE VEHICLE STORAGE, DELETE SPACE SHOWN. SEE NOTE 13.
13. IF EXISTING GENERATOR BUILDINGS ARE CONSIDERED ADEQUATE THEY SHALL BE HARDENED TO RESIST SMALL ARMS FIRE AS SPECIFIED ABOVE AND SPACE SHOWN ON THIS DRAWING WILL BE DELETED.

STRUCTURAL

1. DIMENSIONS MAY BE ADJUSTED FOR STRUCTURE ADAPTATIONS. LIVE LOADS SHALL BE IN ACCORDANCE WITH TM 5-809-1.
2. GUARD RAIL DETAIL SHALL CONFORM TO AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS STANDARDS.

PLUMBING

1. ALL PLUMBING SHALL BE IN ACCORDANCE WITH CURRENT TM 5-810-5 AND DOD 4270.1-M.

MECHANICAL

1. HEATING, VENTILATION, AND AIR CONDITIONING SHALL BE IN ACCORDANCE WITH CURRENT TM 5-810-1 AND DOD 4270.1-M.

SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
	REVISIONS			
2	GENERAL REVISIONS	DFH	6/92	
1	GENERAL REVISIONS	HSMM	1/86	

BLACK & VEATCH
CONSULTING ENGINEERS
KANSAS CITY, MISSOURI

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
MILITARY CONSTRUCTION — ENGINEERING DIVISION
WASHINGTON, D.C.

DRAWN BY: TDH
TRACED BY: TDH
CHECKED BY: RWS
SUBMITTED: WHM
APPROVED:
CHIEF, ADV. TECH. BRANCH
APPROVED FOR:
DATE:

WEAPONS STORAGE AREA SECURITY OPERATIONS BLDG.

2 (SMALL ARMS FIRE BULLET RESISTANT)

REVISIONS APPROVED: 7/14/87 DATE: 3/16/87
CHIEF, ENG. DIV.

SCALE: AS NOTED SPEC. NO. NONE
DRAWING NUMBER
2 DEF 141-32-01
SHEET 1 OF 3

THIS DWG SUPERSEDES DWG 27-04-12