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Facility Design and Planning

AIR FORCE DESIGN MANUAL, DEFINITIVE DESIGNS OF AIR FORCE STRUCTURES

AFM 88-2, 1 April 1969, is changed as follows:

(Note: This change implements OASD (I&H) Memorandum, Definitive Designs, Air Reserve Forces, 9 January 1974.)

1. **Purpose and Explanation of Change.** This change is issued to update and expand AFM 88-2 as follows:

a. A complete revision of the narrative and indexes is provided, and new drawings for ANG/USAFR Facilities are added.

b. Two divider sheets are added and are to be inserted to separate Part I, Definitive Drawings for Standard Facilities, from Part II, Definitive Drawings for ANG/USAFR Facilities.

2. **Page Changes:**

Remove	Date	Insert
1 thru 8	1 Apr 69	1 thru 10

3. **Definitive Drawing Changes:**

a. Remove Definitive Drawings:

AD 16-06-296	Trailer Court Facility
AD 21-01-148R1	A/C Exist Dorm
AD 25-06-78R1	A/C Exist Dorm
AD 27-04-08	Central Security Control
AD 30-02-01	Squad HQ Bldg (ADC)
AD 30-02-59	Security Police Operations
AD 30-02-63	HQ Bldg—(6 Sheets)
AD 30-05-04R1	POL Operations Quality Control
AD 30-10-10	Squad Operations Type A
AD 30-10-11	Squad Operations Type B
AD 30-10-12	Squad Operations Type C
AD 30-10-13	Squad Operations Type D
AD 30-10-14	Squad Operations Type E
AD 30-10-17	Squad Operations Type H
AD 30-11-16	Readiness Crew
AD 31-02-45	Officers Open Mess
AD 31-02-47	Officers Open Mess—401 to 750 Officers
AD 31-02-48	Officers Open Mess—751 to 1500 Officers
AD 31-02-49	Officers Open Mess—1501 to 3000 Officers
AD 31-03-37	NCO Open Mess—50 to 250 NCOs
AD 31-03-38	NCO Open Mess—251 to 400 NCOs
AD 31-03-39	NCO Open Mess—401 to 750 NCOs
AD 31-03-40	NCO Open Mess—751 to 1500 NCOs
AD 32-57-01R1	Medical Food Inspection
AD 35-06-01R2	Precision Measurement Equip Lab
AD 35-32-05	Aerospace Ground Equip Maint Fac
AD 35-50-02	Modulator—WX Building
AD 35-50-04	Operations Bldg, Type Q
AD 35-50-05	Operations Bldg, Type B
AD 35-50-06	Operations Bldg, Type I

AD 35-50-07	Operations Bldg, Type R
AD 39-01-69R1	Hanger, Alert Fighter A/C
AD 60-02-63	FD Radar Facilities, AN/FPS-35, AN/FPS-24
AD 60-02-65	FD Radar Facilities
AD 60-02-66	FD Radar Facilities
AD 60-02-67A	FD Radar Facilities, AN/FPS-27
AD 84-01-07	Sml Arms System Range
AD 84-01-08	Sml Arms System Range
AD 84-06-04	Sml Arms System Range
AD 84-06-06R1	Sml Arms System Range
AD 86-06-05R1	Control Tower, Incased
AD 86-16-14	VHF-OMI—Range, AN/FRN-12A

b. Insert the following new or revised definitive drawings in numerical order after Part I:

AD 14-13-01	Golf Course Club House
AD 21-01-148R2	A/C Exist Dorm (OCE Dwg 21-01-102)
AD 25-06-78R2	A/C Exist OQ (Def Dwg 25-06-24)
AD 27-04-05R3	Security Entry Control Bldg
AD 27-04-08R1	Central Security Control
AD 27-04-11R1	Security Entry Control Bldg
AD 30-01-61	Combined Base Personnel Office
AD 30-02-59R1	Security Police Operations
AD 30-05-04R2	POL Operations
AD 30-10-21	Squad Operations—Type A
AD 30-10-22	Squad Operations—Type B
AD 30-10-23	Squad Operations—Type C
AD 30-10-38	Squad Operations—F111 Overseas
AD 30-16-03	Judge Advocate Facilities
AD 31-02-50	Officers/NCO Club
AD 31-24-10	Youth Center
AD 35-06-01R3	Laboratory, Precision Measurement Equipment
AD 35-32-05R1	Aerospace Ground Equip Maint Fac
AD 36-07-26	Commissary Store
AD 36-54-01	Child Care Center
AD 36-55-01	Base Package Store
AD 38-01-67	Chapel
AD 38-01-68	Chapel Center
AD 39-05-15R1	Maint Dock, Fuel System, Sml Aircraft
AD 39-19-01R4	Canine Kennels
AD 71-07-18	Oil Separators
AD 84-01-07R2	Sml Arms Range, Rifle (100 Positions)
AD 84-01-08R2	Sml Arms Range (High Power Rifle, 50 Positions)
AD 84-06-06R2	Sml Arms System Range, Pistol (100 Positions)
AD 86-06-11	Control Tower
AD 86-16-25	GCA/RAPCON Support Bldg

c. Insert new definitive drawings listed in Part II.

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Facility Design and Planning

AIR FORCE DESIGN MANUAL, DEFINITIVE DESIGNS OF AIR FORCE STRUCTURES

This manual contains architectural definitive drawings that are used as guides in planning, programming, and designing Air Force, Air Force Reserve, and Air National Guard structures. It also describes responsibilities and procedures for developing new and revised definitive drawings and provides guidance on the use of the drawings in construction programs. The manual implements applicable portions of DOD Construction Criteria Manual, 4270.1M, and OASD (I&H) letter, Definitive Designs, Air Force Reserve, 9 January 1974.

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The Definitive Drawing System	1
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AF Definitive Drawings	

1. The Definitive Drawing System:

a. The system is established to insure that Air Force, Air Force Reserve, and Air National Guard construction programs for standard facilities are based on up-to-date, high quality, architectural designs. The concept also supports the facility requirements system (AFM 86-2, Standard Facility Requirements) and the criteria outlined in AFM 88-15, Air Force Design Manual, Criteria and Standards of Air Force Construction.

b. Under an extension of the system, the Air Force collaborates with the Army and Navy in developing the definitive drawings published in AFR 88-33, Planning and Design of Outdoor Sports Facilities.

2. Benefits of the System. The benefits of the system extend to facility planning, programming, construction, and operation. For example:

a. The interdisciplinary collaboration that is required to develop design criteria and accomplish architectural planning invariably broadens the collaborators' understanding of an activity's total operation. This improves the quality of guidance on performance of operating responsibilities that appear in AFRs and other documents.

b. The system establishes continuity in design standards and policy.

c. The availability of approved definitive drawings expedites the construction programming process by eliminating the delays and errors created by the lack of firm design and requirements criteria.

d. The use of definitive drawings leads to the development of standard working drawings and the use of site-

adaptation processes. This produces substantial savings in design and construction costs.

e. The worldwide development of identical or nearly identical buildings to support a specific activity simplifies the management of operations and facilitates programs to improve operations or upgrade facilities.

3. Nature of the Drawings:

a. The drawings in Parts I and II are the product of close collaboration among functional and operational criteria experts, staff architects and engineers, and architect-engineer contractors who develop the final drawings. The drawings in Part II (Air National Guard and Air Force Reserve) are also reviewed and approved by representatives of OSD. The drawings, therefore, constitute HQ USAF's formal recommendation on facility design.

b. The design criteria (space and functional requirements, equipment schedules, building specifications, and so forth) used in developing the drawings were those in effect at the time the drawings were originally developed or updated. As a result of restrictions on developing drawings (explained below in paragraph 4), not all drawings in this manual are fully up-to-date. However, those retained represent current facility requirements and the space and functional arrangements are considered to be generally compatible with current operating concepts. Obsolete drawings and drawings representing obsolete facility requirements are periodically removed.

c. Gross areas indicated on the drawings are measured to the outside of enclosure walls. The computations:

(1) Include full area for: basements; above grade floors; mezzanines; service and equipment rooms; boiler plant and heating rooms; penthouses; enclosed passages and walks (see exception 3c(3)(b) below), porches, balconies and stairs; and raised covered loading platforms.

(2) Include half area for: covered (but not enclosed) passages (see exception 3c(3)(b) below), porches, balconies and stairs; uncovered raised loading platforms; covered or uncovered ground level or depressed (below grade) loading facilities.

(3) Exclude areas for: (a) exterior uncovered ramps, stairs, stoops, and paved terraces; (b) covered or enclosed passages and walks for officers quarters and dormitories; (c) all enclosed space having an average ceiling height of less than 7 feet.

4. Policy on Developing New and Revised Definitive Drawings:

a. It is the goal of the definitive drawing system to develop and maintain up-to-date definitives for all standard facilities that regularly appear in construction programs and represent a substantial construction expenditure. However, the final drawings are normally developed under architect-engineer (A-E) contracts (usually under an annual program) with funds subject to budgetary restraints.

b. When sponsors are advised that a proposed design cannot be included in the current year A-E contract, interim solutions can be explored. For example, if the project sponsor can provide, or acquire, professional drafting service, the design development process (involving collaboration between the sponsor's operations experts and HQ

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USAF/PREE's architects) can be initiated. Drawings thus developed and approved can be disseminated by the project sponsors as preliminary definitive drawings.

5. Use of the Drawings in Construction Programs:

a. Definitive drawings will be used whenever possible as the basis for projects included in construction programs. If siting and other conditions permit, project designs should duplicate the definitive drawings. Where modifications are necessary, they should be minimal. When the site or other conditions require extensive rearrangement of building components, the resultant new design should reflect full recognition of the design concepts of the definitive drawings; such as, space allocation, functional interrelationship, circulation, engineering and structural criteria, and so forth.

b. Project designers should consult AFM 86-2 for latest approved space allowances for standard facilities and for other space criteria affecting design. If there are minor differences between definitive drawing scopes and AFM 86-2, the acceptability of using the definitive scope should be explored under the programming constraints given in AFM 86-1, Programming Civil Engineer Resources. Also, equipment listings appearing on the definitive drawings should be compared against the latest Tables of Allowance and Equipment. Finally, indicated construction criteria should be compared with AFM 88-15.

c. Designers of projects to modify or expand existing buildings to improve functional capabilities should use appropriate definitive drawings as design guides. Project designs should incorporate the major design features of the definitive to the fullest extent consistent with construction economy and constraints imposed by existing building configuration.

d. ANG/USAFR may use definitive drawings under Part I when (1) there is no applicable definitive drawing under Part II, and (2) AFM 86-2 criteria for ANG/USAFR facility requirements permit the use of standard facility requirements criteria.

6. Responsibility of the Director of Civil Engineering, HQ USAF/PRE. The Director is responsible for managing the definitive drawing system. To accomplish this:

a. The Engineering Division (HQ USAF/PREE):

(1) Establishes policies, guidance, responsibilities, and procedures relative to the operation of the system.

(2) Develops necessary additions and changes to AFM 88-2.

(3) Budgets for and acquires A-E contractual services to develop new and revised definitive drawings (excluding ANG/USAFR drawings) and manages current contracts.

(4) Provides consultant services to facility OPRs and to A-E contractors.

(5) Monitors changes in the nature of facility re-

quirements (AFM 86-2) and construction programs to identify the possible need for action by facilities OPRs to develop new and revised drawings.

(6) Reviews and approves all definitive drawings for technical adequacy.

b. The Programs Division (HQ USAF/PREP) processes new and revised definitive drawings developed under ANG/USAFR collaboration to obtain necessary approvals by Offices of the Secretaries of the Air Force and Defense and to obtain technical review and publication action by HQ USAF/PREE.

7. Responsibilities for Developing New and Revised Definitive Drawings:

a. HQ USAF. Facility requirements OPRs listed in AFM 86-2, chapter 1:

(1) Identify facility development and acquisition programs involving repetitive construction in which up-to-date definitive drawings provide a major and necessary instrument for expediting facility acquisition and achieving desired facility standards. (When these programs involve requirements or space criteria not currently recognized by AFM 86-2, the OPR should initiate corrective action under AFM 86-2 instructions.)

(2) Initiate a detailed investigation of all factors and operational concepts influencing facility design, and submit a formal request to HQ USAF/PREE to develop definitive drawings with appropriate justification.

(3) Following notification that the design is to be included in an A-E contract, appoint a project officer to collaborate with HQ USAF/PREE architects in developing all the information on design, functional, and operational criteria needed for architectural design purposes.

(4) Periodically review all definitive drawings in the OPR's area that are published in AFM 88-2 to identify those that should be removed because of obsolescence in design or facility requirement.

b. Major Commands. Command HQ offices collaborate with their counterpart HQ USAF facility requirements OPRs to determine the need for definitive drawings to support facility development programs peculiar to their operational mission. They advise the HQ USAF OPRs of these needs and assist in the development of design criteria.

8. Other Organizations Participating in the Development of Definitive Drawings:

a. Chief, National Guard Bureau, and Chief of Air Force Reserve. These organizations collaborate in developing new and revised definitive drawings for air reserve missions and submit them to HQ USAF/PREP for processing as described above in paragraph 6b.

b. The Army and Air Force Motion Picture Service. The Service develops new and revised designs for theaters and submits them to HQ USAF/PREE for use in developing definitive drawings.

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PART I—LIST OF DEFINITIVE DRAWINGS FOR STANDARD FACILITIES

SECTION A—DRAWINGS LISTED BY FACILITY GROUPS

Note. The facility groups are established by ADE RE-008, AFM 300-4, vol IV (facility category code system). The group headings also correspond to chapter headings in AFM 86-2, Standard Facility Requirements.

<i>Facility</i>	<i>Def Dwg Number</i>	<i>Facility</i>	<i>Def Dwg Number</i>
1. Airfield Pavements			
Aircraft Barrier	AD 40-24-01		
Deflector, Jet Blast	AD 86-19-01R3		
Pad, Power Check	AD 86-21-01R1		
Washracks, Aircraft	AD 36-40-12R2		
2. Petroleum Dispensing and Operating Facilities			
POL Operations	AD 30-05-04R2		
3. Communications, Navigational Aids, Air Traffic Control, and Airfield Lighting			
Class "B" VOR (TVOR)	AD 86-16-21		
Comm Bldg, Base, Type A&B	AD 38-04-22		
Comm Bldg, Base, Type C&D	AD 38-04-23		
GCA/RAPCON Support Bldg	AD 86-16-25		
Instr Landing System	AD 35-46-05		
Mobile TACAN, AN/TRN-6	AD 86-16-15		
Nav. Aids Bldg, Type 00	AD 86-16-23		
Navigational Aids Bldg	AD 26-03-27		
Radar Approach Control Facility Bldg	AD 86-08-09		
Transmitter-Receiver Bldg	AD 38-12-24		
Transmitter-Receiver Bldg, Types A&B	AD 38-12-15		
Transmitter-Receiver Bldg, Types A thru D	AD 38-12-10		
Tropospheric Scatter	AD 38-04-24		
VHF-Omni Range, AN/FRN-12A	AD 86-16-17		
4. Land Operational Facilities			
Aircraft Shelter, Inclosed & Open	AD 39-01-84		
Control Tower	AD 86-06-11		
Operations Bldg—Base	AD 30-07-18		
Rawinsonde Weather Facility	AD 35-48-05		
Squad Operations—Type A	AD 30-10-21		
Squad Operations—Type B	AD 30-10-22		
Squad Operations—Type C	AD 30-10-23		
Squad Operations—F-111 Overseas	AD 30-10-38		
Weather Observation Station	AD 35-50-03		
5. Training Facilities			
Flight Simulator Bldg—Fighter Aircraft	AD 28-13-102R1		
Flight Simulator Bldg—Bomber & Cargo Aircraft	AD 28-13-103R1		
Flight Training Basic	AD 28-16-19		
Mobile Training Detachment Bldg	AD 28-19-01		
Range, Sml Arms, Indoor (10 & 20 Position)	AD 84-06-05		
Sml Arms Range (High Power Rifle 50 Positions)	AD 84-01-08R2		
Sml Army Range, Rifle (100 Positions)	AD 84-01-07R2		
Sml Arms System Range, Pistol (100 Positions)	AD 84-06-06R2		
Special Weapons Trng Fac	AD 28-16-18R1		
Target Intelligence Bldg	AD 84-12-01R1		
6. Maintenance Facilities			
A/C Corrosion Control Covered	AD 39-01-83R1		
Ammo Maint Shop	AD 35-23-07R1		
Aero Space Ground Equip Maint Fac	AD 35-32-05R1		
Armament & Elec Shop, Type A&B	AD 35-60-09R1		
Armament & Elec Shop	AD 35-60-10		
Armament & Elec Shop (for F105 A/C)	AD 35-60-35		
Assembly and Checkout Buildings	AD 35-69-07		
Auto Maint Shop	AD 35-02-44		
Auto Maint Shop	AD 35-02-53R4		
Auto Maint Shop & Motor Pool Admin	AD 35-02-54		
Auto Maint Shop & Motor Pool Admin	AD 35-02-55		
Auto Maint Shop & Motor Pool Admin	AD 35-02-56		
Auto Maint Shop & Motor Pool Admin	AD 35-02-57		
Auto Maint Shop & Motor Pool Admin	AD 35-02-58		
Auto Maint Garage, Heated	AD 36-10-09		
Dock, Large Aircraft	AD 39-01-13		
Dock, Large Aircraft	AD 39-05-12		
Dock, Large Aircraft	AD 39-05-14		
Engine Insp & Repair Shop	AD 35-79-03R1		
Hangar, A/C Maint	AD 39-01-65R1		
Hangar, Maint Field	AD 39-01-82R1		
Shelter, Aircraft Weapons Calibration (Open)	AD 39-01-86		
Shelter, Aircraft Weapons Calibration (Closed)	AD 39-01-87		
Maint Dock, Fuel System, Sml Aircraft	AD 39-05-15R1		
Hangar, Maint Field, C-5A Aircraft	AD 39-01-89		
1000' Firing-in Butt, Types A & B	AD 86-14-04R1		
Laboratory Precision Measurement Equip	AD 35-06-01R3		
Maint Shop	AD 35-77-03		
Parachute & Dinghy Shop	AD 36-33-11		
Shop Ordnance Equip	AD 35-35-08		
Shop, A/C Maint, Multi-Function	AD 35-01-31		
Shop, Field Maint Gen Purpose	AD 35-01-36		
Shop, A/C Maint, Organizational	AD 35-01-38		
7. Explosives Storage			
Ammo Storage, Site Layout (Joint-SAC ADC Type)	AD 16-06-281R1		
Ammo Storage, Segregated Magazine	AD 33-03-18R1		
Ammo Storage, Inert Spares	AD 33-03-22		
Igloo Storage, Concrete	AD 33-15-11R2		
Igloo Storage, Steel Arch	AD 33-15-67R2		
Igloo Storage, Steel Arch	AD 33-15-68R2		
Igloo Storage, Steel Arch	AD 33-15-69R2		
Igloo Storage, Steel Arch	AD 33-15-70R1		
Igloo Storage, Steel Arch	AD 33-15-72		
Magazine, Above Ground	AD 33-13-17		
Rocket Storage Checkout & Assembly Bldg	AD 33-39-03R1		
8. Storage Facilities—Cold, Covered, Open, and Special Purpose			
Cold Storage, Base	AD 33-04-36		

<i>Facility</i>	<i>Def Dwg Number</i>	<i>Facility</i>	<i>Def Dwg Number</i>
Liquid Oxygen Bulk Storage	AD 26-03-92	Base Package Store	AD 36-55-01
Shed Storage	AD 33-02-89R1	Bowling Alleys	AD 14-28-03
Warehouse, Base, Type A thru E	AD 33-02-95	Chapel	AD 38-01-67
Warehouse, Base, Type F thru I	AD 33-02-97	Chapel Center	AD 38-01-68
9. Administrative Facilities		Child Care Center	AD 36-54-01
Base Supply Admin	AD 30-01-59	Commissary Store	AD 36-07-26
Combined Base Personnel Office	AD 30-01-61	Education Center	AD 36-48-04
Data Automation Facility—"A" Configuration	AD 30-15-01	Gymnasium—4001 to 5000 Men	AD 31-06-18
Data Automation Facility—"B" Configuration	AD 30-15-02	Gymnasium—11,000 S.F.	AD 31-06-22
Judge Advocate Facilities	AD 30-16-03	Gymnasium—21,000 S.F.	AD 31-06-23
Fallout Shelter	AD 60-04-10R2	Library Buildings	AD 29-04-33
		Officers/NCO Club	AD 31-02-50
		Post Office	AD 36-08-31
		Service Club—501 to 1000 Airmen	AD 31-18-39
10. Troop Housing		Service Club—1001 to 2000 Airmen	AD 31-18-41
A/C Exist Dorm (OCE Dwg 21-01-102)	AD 21-01-148R2	Service Club—2001 to 4000 Airmen	AD 31-18-42
A/C Exist Dorm (AD 21-01-110 & AD 21-02-04)	AD 21-01-149R1	Service Club—4001 to 5000 Airmen	AD 31-18-43
A/C Exist Dorm (AD 21-01-111)	AD 21-01-150R1	Theater—350 Seat	AD 31-01-153
A/C Exist OQ (Def Dwg 25-06-24)	AD 25-06-78R2	Theater—500 Seat	AD 31-01-154
Enlisted Dining Facility—500 Man Camp	AD 36-05-119	Theater—750 Seat	AD 31-01-155
Enlisted Dining Facility—1000 Man Camp	AD 36-05-120	Theater—1000 Seat	AD 31-01-156
Enlisted Dining Facility—1500 Man Camp	AD 36-05-121	Youth Center	AD 31-24-10
Officers Quarters—Central Corridor	AD 25-06-83		
Officers Quarters—Open Balcony	AD 25-06-84	13. Welfare and Recreational-Outdoor	
		Golf Course Clubhouse	AD 14-13-01
11. Personnel Support and Service Facilities		Swim Pool-Indoor-25 Meter	AD 14-27-11
Canine Kennels	AD 39-19-01R4	Swim Pool-Outdoor (8 Lane-25 meter) & Bathhouse	AD 31-10-23
Central Security Control	AD 27-04-08R1	Swim Pool-Outdoor (6 Lane-50 meter) & Bathhouse	AD 31-10-24
Confinement Facility—12 Men	AD 27-02-33	Swim Pool-Outdoor (10 Lane-50 Meter) & Bathhouse	AD 31-10-25
Confinement Facility—15 Men	AD 27-02-34		
Confinement Facility—20 Men	AD 27-02-35	14. Electricity	
Confinement Facility—32 Men	AD 27-02-36	Alert Aircraft Shelter Area—Security Lighting	AD 16-06-325
Confinement Facility—57 Men	AD 27-02-37	Ammo Storage Area—Security Lighting	AD 16-06-326
Control & Identification Bldg Types A&B	AD 27-05-05	Ammo Storage Area (SAC)—Security Lighting	AD 16-06-327
Fire Stations	AD 36-30-09	Elec Emergency Power Bldg	AD 26-03-26
Gate House	AD 27-04-10	Power Bldg 400/650 KW Units	AD 35-32-03
Security Entry Control Bldg	AD 27-04-05R3		
Security Entry Control Bldg	AD 27-04-11R1	15. Heat, Sewage and Waste, and Water	
Security Police Operations	AD 30-02-59R1	Fluoridation Facilities	AD 26-04-01
		Oil Separators	AD 71-07-18
12. Religious, Welfare and Recreational-Indoor			
Arts & Craft Shop	AD 31-21-12	16. ANG/USAFR Facilities	
Auto Shop—Recreational Workshop	AD 35-02-62	See Part II.	
Banking Facilities	AD 36-18-06		

LIST OF DEFINITIVE DRAWING FOR STANDARD FACILITIES—Continued

SECTION B—DRAWINGS LISTED IN NUMERICAL ORDER

<i>Drawing No.</i>	<i>Facility</i>	<i>Drawing No.</i>	<i>Facility</i>
*AD 14-13-01		AD 30	
AD 14-13-01	Golf Course Club House	AD 30-01-59	Base Supply Admin
AD 14-27-11	Swim Pool—Indoor—25 Meter	*AD 30-01-61	Combined Base Personnel Office
AD 14-28-03	Bowling Alleys	*AD 30-02-59R1	Security Police Operations
AD 16		*AD 30-05-04R2	POL Operations
AD 16-06-281R1	Ammo Storage, Site Layout (Joint-SAC ADC Type)	AD 30-07-18	Operations Bldg—Base
AD 16-06-325	Alert Aircraft Shelter Area—Security Lighting	*AD 30-10-21	Squad Operations—Type A
AD 16-06-326	Ammo Storage Area—Security Lighting	*AD 30-10-22	Squad Operations—Type B
AD 16-06-327	Ammo Storage Area (SAC)—Security Lighting	*AD 30-10-23	Squad Operations—Type C
AD 21		*AD 30-10-38	Squad Operations—F111 Overseas
*AD 21-01-148R2	A/C Exist Dorm (OCE Dwg 21-01-102)	AD 30-15-01	Data Automation Facility—"A" Configuration
AD 21-01-149R1	A/C Exist Dorm (AD 21-01-110 & AD 21-02-04)	AD 30-15-02	Data Automation Facility—"B" Configuration
AD 21-01-150R1	A/C Exist Dorm (AD 21-01-111)	*AD 30-16-03	Judge Advocate Facilities
AD 25		AD 31	
*AD 25-06-78R2	A/C Exist OQ (Def Dwg 25-06-24)	AD 31-01-153	Theater—350 Seat
AD 25-06-83	Officers Quarters—Central Corridor	AD 31-01-154	Theater—500 Seat
AD 25-06-84	Officers Quarters—Open Balcony	AD 31-01-155	Theater—750 Seat
AD 26		AD 31-01-156	Theater—1000 Seat
AD 26-03-26	Elec Emergency Power Bldg	AD 31-02-50	Officers/NCO Club
AD 26-03-27	Navigational Aids Bldg	AD 31-06-18	Gymnasium—4001 to 5000 Men
AD 26-03-92	Liquid Oxygen Bulk Storage	AD 31-06-22	Gymnasium—11,000 SF
AD 26-04-01	Fluoridation Facilities	AD 31-06-23	Gymnasium—21,000 SF
AD 26-04-01		AD 31-10-23	Swim Pool—Outdoor (8 Lane-25 Meter) and Bath House
AD 27		AD 31-10-24	Swim Pool—Outdoor (6 Lane-50 Meter) and Bath House
AD 27-02-33	Confinement Facility—12 Men	AD 31-10-25	Swim Pool—Outdoor (10 Lane-50 Meter) and Bath House
AD 27-02-34	Confinement Facility—15 Men	AD 31-18-39	Service Club—501 to 1000 Airmen
AD 27-02-35	Confinement Facility—20 Men	AD 31-18-41	Service Club—1001 to 2000 Airmen
AD 27-02-36	Confinement Facility—32 Men	AD 31-18-42	Service Club—2001 to 4000 Airmen
AD 27-02-37	Confinement Facility—57 Men	AD 31-18-43	Service Club—4001 to 5000 Airmen
*AD 27-04-05R3	Security Entry Control Bldg	AD 31-21-12	Arts & Craft Shop
*AD 27-04-08R1	Central Security Control	*AD 31-24-10	Youth Center
AD 27-04-10	Gate House	AD 33	
*AD 27-04-11R1	Security Entry Control Bldg	AD 33-02-89R1	Shed Storage
AD 27-05-05	Control & Identification Bldg, Types A&B	AD 33-02-95	Warehouse, Base, Type A thru E
AD 28		AD 33-02-97	Warehouse, Base Type F thru I
AD 28-13-102R1	Flight Simulator Bldg—Fighter Aircraft	AD 33-03-18R1	Ammo Storage, Segregated Magazine
AD 28-13-103R1	Flight Simulator Bldg—Bomber & Cargo Aircraft	AD 33-03-22	Ammo Storage, Inert Spares
AD 28-16-18R1	Special Weapons Trng Fac	AD 33-04-36	Cold Storage, Base
AD 28-16-19	Flight Training Basic	AD 33-13-17	Magazine, Above Ground
AD 28-19-01	Mobile Training Detachment Bldg	AD 33-15-11R2	Igloo Storage, Concrete
AD 29		AD 33-15-67R2	Igloo Storage, Steel Arch
AD 29-04-33	Library Buildings	AD 33-15-68R2	Igloo Storage, Steel Arch
		AD 33-15-69R2	Igloo Storage, Steel Arch
		AD 33-15-70R1	Igloo Storage, Steel Arch
		AD 33-15-72	Igloo Storage, Steel Arch
		AD 33-39-03R1	Rocket Storage Check Out & Assembly Bldg

<i>Drawing No.</i>	<i>Facility</i>
AD 35	
AD 35-01-31	Shop, A/C Maint, Multi-Function
AD 35-01-36	Shop Field Maint Gen Purpose
AD 35-01-38	Shops, A/C Maint, Organizational
AD 35-02-44	Auto Maint Shop
AD 35-02-53R4	Auto Maint Shop
AD 35-02-54	Auto Maint Shop & Motor Pool Admin
AD 35-02-56	Auto Maint Shop & Motor Pool Admin
AD 35-02-57	Auto Maint Shop & Motor Pool Admin
AD 35-02-58	Auto Maint Shop & Motor Pool Admin
AD 35-02-62	Auto Shop
*AD 35-06-01R3	Laboratory, Precision Measurement Equip
AD 35-23-07R1	Ammo Maint Shop
AD 35-32-03	Power Bldg 400/650 KW Units
*AD 35-32-05R1	Aerospace Ground Equip Maint Fac
AD 35-35-08	Shop Ordnance Equip
AD 35-46-05	Instr Land System
AD 35-48-05	Rawinsonde, Weather Facility
AD 35-50-03	Weather Observation Station
AD 35-60-09R1	Armanent & Elec Shop, Type A & B
AD 35-60-10	Armanent & Elec Shop
AD 35-60-35	Armanent & Elec Shop (For F105 A/C)
AD 35-69-07	Assembly & Checkout Bldg
AD 35-77-03	Maint Shop
AD 35-79-03R1	Engine Insp & Repair Shop
AD 36	
AD 36-05-119	Enlisted Dining Facility—500 Man Camp
AD 36-05-120	Enlisted Dining Facility—1000 Man Camp
AD 36-05-121	Enlisted Dining Facility—1500 Man Camp
*AD 36-07-26	Commissary Store
AD 36-08-31	Post Office
AD 36-10-09	Auto Maint Garage, Heated
AD 36-18-06	Banking Facilities
AD 36-30-09	Fire Stations
AD 36-33-11	Parachute & Dinghy Shop
AD 36-40-12R2	Washracks, Aircraft
AD 36-48-04	Education Center
*AD 36-54-01	Child Care Center
*AD 36-55-01	Base Package Store
AD 38	
*AD 38-01-67	Chapel
*AD 38-01-68	Chapel Center
AD 38-04-22	Comm Bldg, Base, Type A&B
AD 38-04-23	Comm Bldg Base, Type C&D

<i>Drawing No.</i>	<i>Facility</i>
AD 38-04-24	Tropospheric Scatter
AD 38-12-10	Transmitter-Receiver Bldg Types A thru D
AD 38-12-15	Transmitter-Receiver Bldg, Types A&B
AD 38-12-24	Transmitter-Receiver Bldg
AD 39	
AD 39-01-13	Dock, Large Aircraft
AD 39-01-65R1	Hanger, A/C Maint
AD 39-01-82R1	Hanger, Maint, Field
AD 39-01-83R1	A/C Corrosion Control Covered
AD 39-01-84	Aircraft Shelter, Inclosed & Open
AD 39-01-86	Shelter, Aircraft Weapons Calibration (Open)
AD 39-01-87	Shelter, Aircraft Weapons Calibration (Closed)
AD 39-01-89	Hanger, Maint Field, C-5A Aircraft
AD 39-05-12	Dock Large Aircraft
AD 39-05-14	Dock Small Aircraft
*AD 39-05-15R1	Maint Dock, Fuel System, Sml Aircraft
*AD 39-19-01R4	Canine Kennels
AD 40	
AD 40-24-01	Aircraft Barrier
AD 60	
AD 60-04-10R2	Fallout Shelter
AD 71	
*AD 71-07-18	Oil Separators
AD 84	
*AD 84-01-07R2	Sml Arms Range, Rifle(100 Positions)
*AD 84-01-08R2	Sml Arms Range, (High Power Rifle, 50 Positions)
AD 84-06-05	Range, Sml Arms, Indoor (10 & 20 Position)
*AD 84-06-06R2	Sml Arms System Range, Pistol (100 Position)
AD 84-12-01R1	Target Intelligence Bldg
AD 86	
*AD 86-06-11	Control Tower
AD 86-08-09	Radar Approach Control Facility Bldg
AD 86-14-04R1	1000" Firing-in-Butt, Types A & B
AD 86-16-15	Mobile Tacan, AN/TRN-6
AD 86-16-17	VHF OMNI-Range, AN/FRN-12A
AD 86-16-21	Class "B" VOR (TVOR)
AD 86-16-23	Nav Aids Bldg—Type 00
*AD 86-16-25	GCA/RAPCON Support Bldg
AD 86-19-01R3	Deflector, Jet Blast
AD 86-21-01R1	Pad Power Check

PART II—LIST OF DEFINITIVE DRAWINGS FOR ANG/USAFR FACILITIES

SECTION A—DRAWINGS LISTED BY FACILITY CATEGORY CODES

Note: Facility codes follow ADE RE-008, AFM 300-4, vol IV

DRAWING NO.	CATEGORY CODE	AREA-SQUARE FEET	FACILITIES	DRAWING NO.	CATEGORY CODE	AREA-SQUARE FEET	FACILITIES
			1. Petroleum Dispensing and Operating Facilities Category Group 12	AD 30-10-32	141-451, 141-453, 141-753	8,928	Squadron Operations for Fighter Interceptor Squadron (F-102/F-106 Aircraft)
AD 30-05-05	121-111	1,200	POL Operations and Quality Control	AD 30-10-33	141-451, 141-453, 141-753, 171-212, 218-852	17,380	Squadron Operations—Combined Facility for Fighter Interceptor Squadron (F-102/F-106 Aircraft)
			2. Communications, Navigational Aids, and Airfield Lighting Category Group 13	AD 30-10-34	141-451, 141-453, 141-753	10,788	Squadron Operations for Tactical Fighter Squadron (F-4 Aircraft)
AD 38-04-29	131-111	3,200	Base Communications Building	AD 30-10-35	141-451, 141-453, 141-753, 171-212, 218-852	19,244	Squadron Operations—Combined Facility for Tactical Fighter Squadron (F-4 Aircraft)
			3. Land Operational Facilities Category Group 14	AD 28-18-06	141-451, 141-453, 141-753	13,049	Squadron Operations for an Air Refueling Squadron (KC-97 Aircraft)
AD 36-30-10	141-142	3,777	Fire Stations	AD 28-18-07	141-451, 141-453, 141-753, 171-212, 218-852	21,505	Squadron Operations—Combined Facility for Air Refueling Squadron (KC-97 Aircraft)
AD 39-01-88 (SHEET 2 OF 2)	141-181	6,163	Aircraft Alert Shelter	AD 30-10-36	141-451, 141-453, 141-753	10,802	Squadron Operations (RF-4 Aircraft)
AD 30-11-17	141-459	4,000	Readiness Crew Building and Utility Plant	AD 30-10-37	141-451, 141-453, 141-753, 141-745, 171-212, 218-852	23,178	Squadron Operations—Combined Facility (RF-4 Aircraft)
AD 39-01-88 (SHEET 1 OF 2)	141-181, 141-459	1 EA.	Alert Shelter Complex				4. Training Facilities Category Group 17
AD 36-32-16	141-745	4,500	Reconnaissance Photo Laboratory—Tactical Recon Squadron	AD 28-13-113	171-212	4,050	Flight Simulator Facility
AD 30-10-24	141-451, 141-453, 141-753	11,780	Squadron Operations for Tactical Airlift Squadron (C-130 Aircraft)	AD 28-18-08	171-445	18,430	Reserve Forces Operational Training Facility
AD 30-10-25	141-451, 141-453, 141-753, 171-212, 218-852	20,236	Squadron Operations—Combined Facility for Tactical Airlift Squadron (C-130 Aircraft)	AD 28-13-123 (Sheets 1 and 2)	171-212	4,678	Flight Simulator Facility—A7 Aircraft
AD 30-10-26	141-451, 141-453, 141-753, 218-852	9,734	Squadron Operations for Tactical Fighter Squadron (F-100/F-104/F-105/A-37 Aircraft)	AD 28-18-04	171-445	7,920	Reserve Forces Wing Operational Training Facility (Air Defense Wing/Military Airlift Wing)
AD 30-10-27	141-451, 141-453, 141-753, 171-212,	18,186	Squadron Operations—Combined Facility for Tactical Fighter Squadron (F-100/F-104/F-105/A-37 Aircraft)	AD 28-18-05	171-445	6,400	Reserve Forces Wing Operational Training Facility (Air Refueling Wing/Tac Reconnaissance Wing/Tac Fighter Wing)
AD 30-10-28	141-451, 141-453, 141-753	10,788	Squadron Operations for Fighter Interceptor Aircraft (F-101 Aircraft)	AD 28-13-116	171-447	13,482	Communications/Electronics Training Facility for Mobile Communication Squadron (Bare Base)
AD 30-10-29	141-451, 141-453, 141-753, 171-212, 218-852	19,240	Squadron Operations—Combined Facility for Fighter Interceptor Squadron (F-101 Aircraft)	AD 28-13-117	171-447	9,200	Communications/Electronics Training Facility for Mobile Communications Flight
AD 30-10-30	141-451, 141-453, 141-753, 171-447	19,635	Composite Squadron Operations Facility—Tactical Air Support Squadron and Direct Air Support Flight	AD 28-13-118	171-447	5,200	Communications/Electronics Training Facility for Flight Facilities Flight
AD 30-10-31	141-451, 141-453, 141-753, 171-447, 218-852	24,035	Combined Facility for Composite Squadron Operations—Tactical Air Support Squadron and Direct Air Support Flight	AD 28-13-119	171-447	17,472	Communications/Electronics Training Facility for Mobile Communications Squadron (Contingency)
				AD 28-13-120	171-447	16,884	Communications/Electronics Train-

DRAWING NO.	CATEGORY CODE	AREA-SQUARE FEET	FACILITIES	DRAWING NO.	CATEGORY CODE	AREA-SQUARE FEET	FACILITIES	
			ing Facility for a Flight Facilities Flight Co-Located with a Mobile Communications Squadron (Bare Base)	(SHEET 1 OF 2) AD 39-05-26	211-173, 211-152,	43,360	Type A Maintenance Dock, Large Aircraft	
AD 28-13-121	171-447	24,125	Communications/Electronics Training Facility for a Mobile Communications Squadron (AFCCP) Collocated with a Mobile Communications Group	(SHEET 2 OF 2) AD 36-36-17	610-129 211-159, 211-179	11,000	Type B Fuel Cell Maintenance Dock/Corrosion Control	
AD 28-16-20 (SHEET 1 OF 2)	171-447	16,846	Communications/Electronics Training Facility (El Squadron, Types A & B)	AD 35-02-63	214-425, 214-467	Various	Automotive Maintenance Shop	
AD 28-16-20 (SHEET 2 OF 2)	171-447	16,846	Communications/Electronics Training Facility (El Squadron, Type C)	AD 33-07-16	214-428	Various	Auto Storage Facility	
AD 28-16-21	171-447	24,480	Communications/Electronics Training Facility for Tactical Control Squadron (CRP)	AD 35-60-41	215-552, 217-712	10,500	Avionics Shop/Weapons and Release Systems Shop (F-105 Aircraft)	
AD 28-16-22	171-447	28,175	Communications/Electronics Training Facility for Two Tactical Control Flights (FACP) and Tactical Control Squadron (CRC) Collocated	AD 35-60-42	217-712	10,500	Avionics Shop (RF-4 Aircraft)	
AD 28-16-23	171-447	59,200	Communications/Electronics Training Facility for Tac Control Group, Tac Air Control Squadron (TACC), and Tac Control Squadron (CRC)	AD 35-60-44	215-552, 217-712	8,330	Avionics Shop/Weapons and Release Systems Shop (F-100 Aircraft)	
AD 28-16-24	171-447	25,920	Communications/Electronics Training Facility for a Tactical Control Squadron (CRP) Collocated with a Tactical Control Flight (FACP)	AD 35-60-46	215-552, 217-712	11,830	Avionics & Weapons & Release Systems Shop, F-101 Aircraft	
AD 28-16-25	171-447	25,920	Communications/Electronics Training Facility for a Tactical Control Squadron (CRC)	AD 35-60-47	215-552, 217-712	13,520	Avionics & Weapons & Release Systems Shop, F-106 Aircraft	
AD 28-16-26	171-447	35,880	Communications/Electronics Training Facility for a Tactical Control Squadron (TACC) Collocated with a Tactical Control Group	AD 35-60-48	215-552, 217-712	18,360	Avionics & Weapons & Release Systems Shop, F-4 Aircraft	
AD 84-06-07	171-475	2,292	Range, Small Arms, Indoors 5 Positions	AD 35-60-49	215-552, 217-712	20,350	Avionics & Weapons & Release Systems Shop, A-7 Aircraft	
AD 35-01-40	211-152	17,051	5. Maintenance Facilities Group 21	AD 35-60-45	211-153, 215-552, 217-712	9,928	Avionics Shop/Weapons and Release Systems Shop/NDI Shop (F-100 Aircraft)	
AD 35-79-05 (SHEET 1 OF 5)	211-157	4,800		General Purpose Shops	AD 35-32-08	218-712	Various	Aerospace Ground Equipment Shop
AD 35-79-05 (SHEET 2 OF 5)	211-157	15,000		Aircraft Engine Inspection and Repair Shop Type A (U-3 and O-2 Aircraft)	AD 35-02-64	214-425, 218-712	7,668	Automotive Maintenance Shop and Aerospace Ground Equipment Shop
AD 35-79-05 (SHEET 3 of 5)	211-157	16,000		Aircraft Engine Inspection and Repair Shop Type B (C-121 Aircraft)	AD 36-33-12	218-852	4,400	Parachute and Dinghy Shop
AD 35-79-05 (SHEET 4 of 5)	211-157	Various		Aircraft Engine Inspection and Repair Shop Type C (KC-97 Aircraft)	AD 35-34-14	219-944, 219-947	9,180	Base Engineering Maintenance Facility
AD 35-79-05 (SHEET 5 OF 5)	211-157	Various	Aircraft Engine Inspection and Repair Shop Type D	AD 33-17-09	442-257	780	6. Storage Facilities-Cold, Covered, Open and Special Purpose Category Groups 43, 44 & 45 Storage, Paint, Oil and Dope	
AD 39-05-26	211-173	26,083	Maintenance Dock, Large Aircraft	AD 33-02-100	442-758	Various		Mobility Storage Warehouse
				AD 30-06-60	442-758, 610-125	24,695		Base Supply and Administration Facility
				AD 32-06-31	550-143	4,902	7. Hospital and Medical Facilities Category Groups 51, 53, 54 & 55 Dispensary	
				AD 30-08-08	610-129	3,000	8. Administrative Facilities Category Group 61 Maintenance Control Facility	
				AD 21-01-162	721-211	17,270	9. Troop Housing Category Code 72 Airmen's Dormitory	
				AD 36-05-123	722-351	6,600		Dining Hall (500-800 MN Capacity)
				AD 36-05-124	723-351	8,450		Dining Hall (800-1000 MN Capacity)

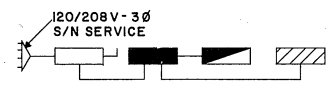
LIST OF DEFINITIVE DRAWINGS FOR ANG/USAFR FACILITIES—Continued

SECTION B—DRAWINGS LISTED IN NUMERICAL ORDER

<i>DRAWING NO.</i>	<i>FACILITY</i>	<i>DRAWING NO.</i>	<i>FACILITY</i>
AD 21-01-162	Airmen Dormitory	AD 30-10-25	Squadron Operations—Combined Facility for Tactical Airlift Squadron (C-130 Aircraft)
AD 28-13-113	Flight Simulator Facility	AD 30-10-26	Squadron Operations for Tactical Fighter Squadron (F-100/F-104/F-105/A-37 Aircraft)
AD 28-13-116	Communications/Electronics Training Facility for Mobile Communication Squadron (Bare Base)	AD 30-10-27	Squadron Operations—Combined Facility for Tactical Fighter Squadron (F-100/F-104/F-105/A-37 Aircraft)
AD 28-13-117	Communications/Electronics Training Facility for Mobile Communications Flight	AD 30-10-28	Squadron Operations for Fighter Interceptor Aircraft (F-101 Aircraft)
AD 28-13-118	Communications/Electronics Training Facility for Flight Facilities Flight	AD 30-10-29	Squadron Operations—Combined Facility for Fighter Interceptor Squadron (F-101 Aircraft)
AD 28-13-119	Communications/Electronics Training Facility for Mobile Communications Squadron (contingency)	AD 30-10-30	Composite Squadron Operations Facility—Tactical Air Support Squadron and Direct Air Support Flight
AD 28-13-120	Communications/Electronics Training Facility for a Flight Facilities Flight Collocated with a Mobile Communications Squadron (Bare Base)	AD 30-10-31	Combined Facility for Composite Squadron Operations—Tactical Air Support Squadron and Direct Air Support Flight
AD 28-13-121	Communications/Electronics Training Facility for a Mobile Communications Squadron (AFCCP) Collocated with a Mobile Communications Group	AD 30-10-32	Squadron Operations for Fighter Interceptor Squadron (F-102/F-106 Aircraft)
AD 28-13-123	Flight Simulator Facility-A-7 Aircraft (Sheets 1 of 2 and 2 of 2)	AD 30-10-33	Squadron Operations—Combined Facility for Fighter Interceptor Squadron (F-102/F-106 Aircraft)
AD 28-16-20	Communications/Electronics Training Facility (El Squadron, Types A & B)	AD 30-10-34	Squadron Operations for Tactical Fighter Squadron (F-4 Aircraft)
(SHEET 1 OF 2)		AD 30-10-35	Squadron Operations—Combined Facility for Tactical Fighter Squadron (F-4 Aircraft)
AD 28-16-20	Communications/Electronics Training Facility (El Squadron, Type C)	AD 30-10-36	Squadron Operations (RF-4 Aircraft)
(SHEET 2 OF 2)		AD 30-10-37	Squadron Operations—Combined Facility (RF-4 Aircraft)
AD 28-16-21	Communications/Electronics Training Facility for Tactical Control Squadron (CRP)	AD 30-11-17	Readiness Crew Building and Utility Plant
AD 28-16-22	Communications/Electronics Training Facility for Two Tactical Control Flights (FACP) and Tactical Control Squadron (CRC) Collocated	AD 32-06-31	Dispensary
AD 28-16-23	Communications/Electronics Training Facility for Tac Control Group, Tac Air Control Squadron (TACC), and Tac Control Squadron (CRC)	AD 33-02-100	Mobility Storage Warehouse
AD 28-16-24	Communications/Electronics Training Facility for a Tactical Control Squadron (CRP) Collocated with a Tactical Control Flight (FACP)	AD 33-07-16	Auto Storage Facility
AD 28-16-25	Communications/Electronics Training Facility for a Tactical Control Squadron (CRC)	AD 33-17-09	Storage, Paint, Oil and Dope
AD 28-16-26	Communications/Electronics Training Facility for a Tactical Control Squadron (TACC) Collocated with a Tactical Control Group	AD 35-01-40	General Purpose Shops
AD 28-18-04	Reserve Forces Wing Operational Training Facility (Air Defense Wing/Military Airlift Wing)	AD 35-02-63	Automotive Maintenance Shop
AD 28-18-05	Reserve Forces Wing Operational Training Facility (Air Refueling Wing/Tac Reconnaissance Wing/Tac Fighter Wing)	AD 35-02-64	Automotive Maintenance Shop and Aerospace Ground Equipment Shop
AD 28-18-06	Squadron Operations for an Air Refueling Squadron (KC-97 Aircraft)	AD 35-32-08	Aerospace Ground Equipment Shop
AD 28-18-07	Squadron Operations—Combined Facility for Air Refueling Squadron (KC-97 Aircraft)	AD 35-34-14	Base Engineering Maintenance Facility
AD 28-18-08	Reserve Forces Operational Training Facility	AD 35-60-41	Avionics Shop/Weapons and Release Systems Shop (F-105 Aircraft)
AD 30-05-05	POL Operations and Quality Control	AD 35-60-42	Avionics Shop (RF-4 Aircraft)
AD 30-06-60	Base Supply and Administration Facility	AD 35-60-44	Avionics Shop/Weapons and Release Systems Shop (F-100 Aircraft)
AD 30-08-08	Maintenance Control Facility	AD 35-60-45	Avionics Shop/Weapons and Release Systems Shop/NDI Shop (F-100 Aircraft)
AD 30-10-24	Squadron Operations for Tactical Airlift Squadron (C-130 Aircraft)	AD 35-60-46	Avionics & Weapons & Release Systems Shop, F-101 Aircraft)
		AD 35-60-47	Avionics & Weapons & Release Systems Shop, F-106 Aircraft
		AD 35-60-48	Avionics & Weapons & Release Systems Shop, F-4 Aircraft
		AD 35-60-49	Avionics & Weapons & Release Systems Shop, A-7 Aircraft
		AD 35-79-05	Aircraft Engine Inspection and Repair Shop Type A (U-3 and O-2 Aircraft)
		(SHEET 1 OF 5)	
		AD 35-79-05	Aircraft Engine Inspection and Repair Shop Type B (C-121 Aircraft)
		(SHEET 2 OF 5)	

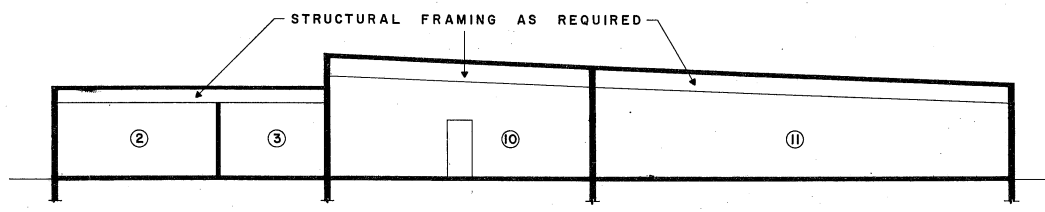
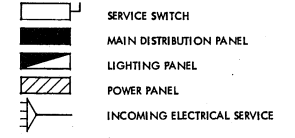
DRAWING NO.	FACILITY
AD 35-79-05 (SHEET 3 OF 5)	Aircraft Engine Inspection and Repair Shop Type C (KC-97 Aircraft)
AD 35-79-05 (SHEET 4 OF 5)	Aircraft Engine Inspection and Repair Shop Type D
AD 35-79-05 (SHEET 5 OF 5)	Aircraft Engine Inspection and Repair Shop Type E
AD 36-05-123	Dining Hall (500-800 MN Capacity)
AD 36-05-124	Dining Hall (800-1000 MN Capacity)
AD 36-30-10	Fire Stations
AD 36-32-16	Reconnaissance Photo Laboratory—Tactical Recon Squadron
AD 36-33-12	Parachute and Dinghy Shop

DRAWING NO.	FACILITY
AD 36-36-17	Fuel Cell Maintenance Dock/Corrosion Control
AD 38-04-29	Base Communications Building
AD 39-01-88 (SHEET 1 OF 2)	Alert Shelter Complex
AD 39-01-88 (SHEET 2 OF 2)	Aircraft Alert Shelter
AD 39-05-26 (SHEET 1 OF 2)	Maintenance Dock, Large Aircraft Type A
AD 39-05-26 (SHEET 2 OF 2)	Maintenance Dock, Large Aircraft Type B
AD 84-06-07	Range, Small Arms, Indoors 5 Positions

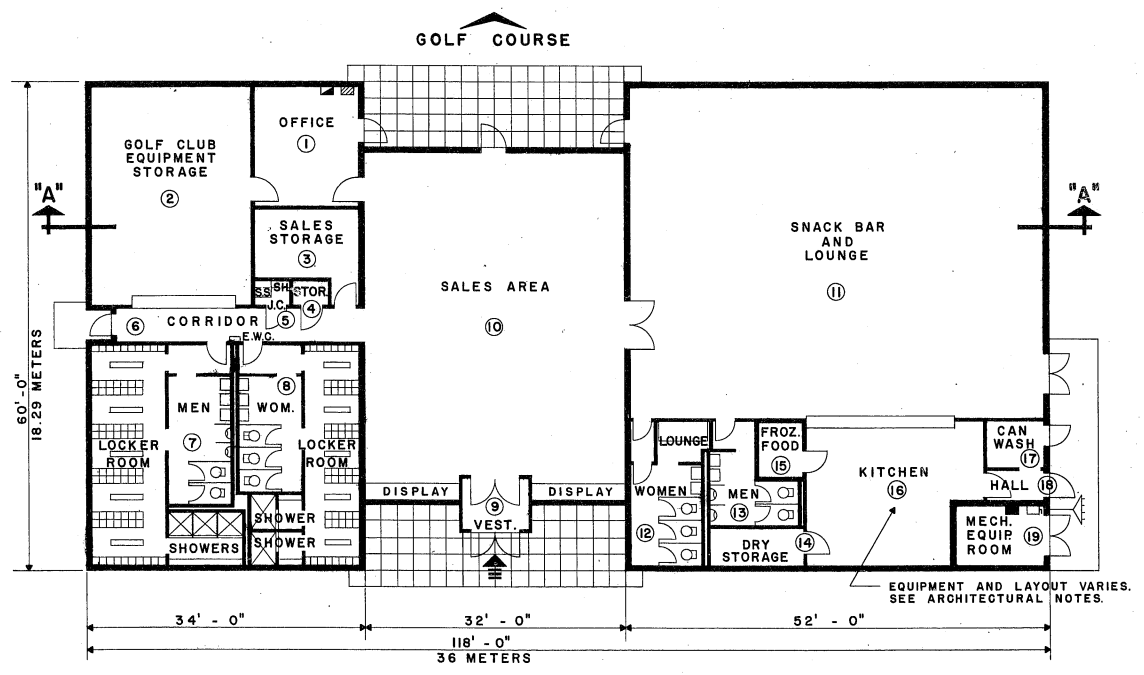


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 1/8" = 1' - 0"



FLOOR PLAN
SCALE: 1/8" = 1' - 0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	25 KW	23.1 KW	33 KW	81.1 KW
ESTIMATED DEMAND	25 KW	21.9 KW	29.7 KW	76.6 KW

WATER (GPM)	HOT	COLD	TOTAL
HOT	21		
COLD		81	
TOTAL			9,750 (GPD)

SEWAGE	6,500 (GPD)
--------	-------------

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	°F
M/BTU/HR	336.0

AIR CONDITIONING REQUIREMENTS

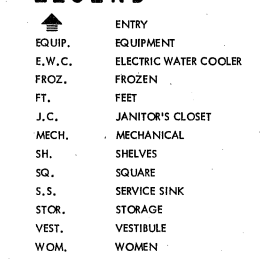
OUTSIDE DESIGN TEMPERATURE	95° DB & 78° WB
TONS OF REFRIGERATION	25

AREA FOR PROGRAMMING

GROSS AREA **6,600 SQ. FT.**

ROOM NUMBER	DESCRIPTION	DIMENSIONS	GROSS AREA SQ. FT.
1	OFFICE	13'-6" x 15'-9"	213
2	GOLF CLUB EQUIPMENT STORAGE	20'-6" x 28'-0"	574
3	SALES STORAGE	13'-6" x 10'-4"	139
4	STORAGE	4'-9" x 3'-6"	17
5	JANITOR'S CLOSET	4'-9" x 3'-6"	17
6	CORRIDOR	32'-0" x 4'-0"	128
7	MEN/LOCKER ROOM/SHOWERS	18'-0" x 28'-0"	504
8	WOMEN/LOCKER ROOM/SHOWERS	16'-0" x 28'-0"	448
9	VESTIBULE	9'-0" x 7'-2"	64
10	SALES AREA	32'-0" x 43'-0"	1,376
11	SNACK BAR AND LOUNGE	52'-6" x 41'-0"	2,152
12	WOMEN/LOUNGE	9'-6" x 18'-6"	176
13	MEN	12'-0" x 10'-0"	120
14	DRY STORAGE	12'-0" x 5'-6"	66
15	FROZEN FOOD	6'-0" x 7'-6"	45
16	KITCHEN	20'-6" x 18'-6"	379
17	CAN WASH	8'-0" x 6'-0"	48
18	HALL	8'-0" x 4'-0"	32
19	MECHANICAL EQUIPMENT ROOM	12'-0" x 8'-6"	102
TOTAL			6,600

LEGEND



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

KITCHEN EQUIPMENT AND LAYOUT WILL VARY ACCORDING TO PROJECT. ALL EQUIPMENT LAYOUTS REQUIRE APPROVAL OF AFMPC/DPMSRA, RANDOLPH AIR FORCE BASE, TEXAS, 78148.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 750 - 426

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

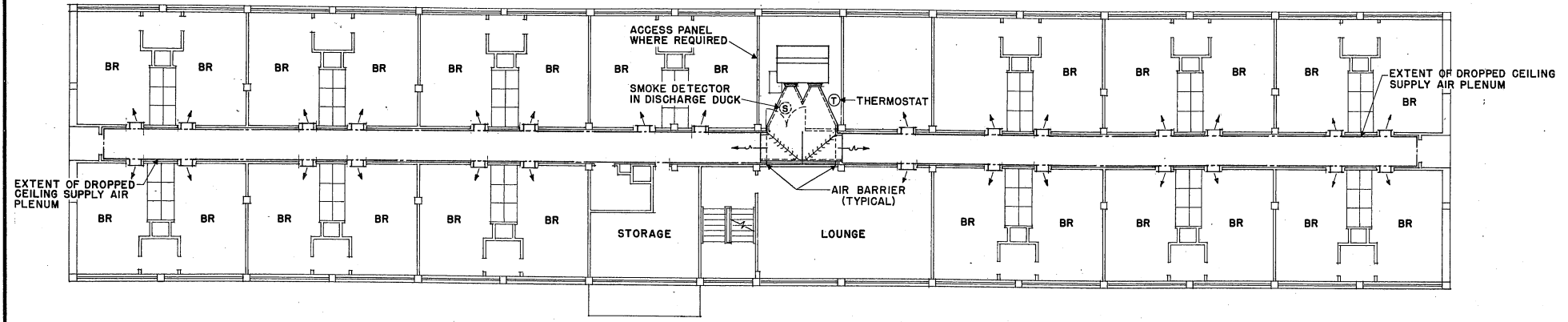
GOLF COURSE CLUB HOUSE
PLAN & SECTION

APPROVED: *Edwin B. McLean*
FOR CHIEF OF STAFF USAF

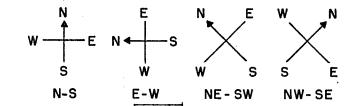
SCALE: 1/8" = 1' - 0"
DATE: 1 May 1975

SHEET 1 OF
AD 14-13-01

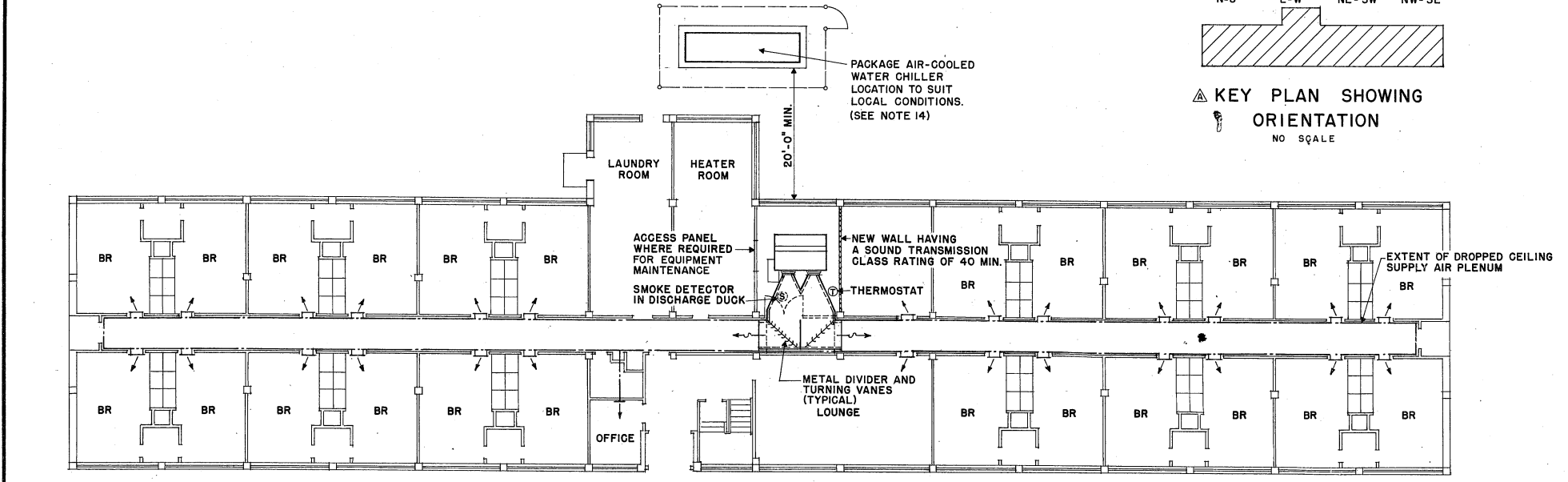
C2



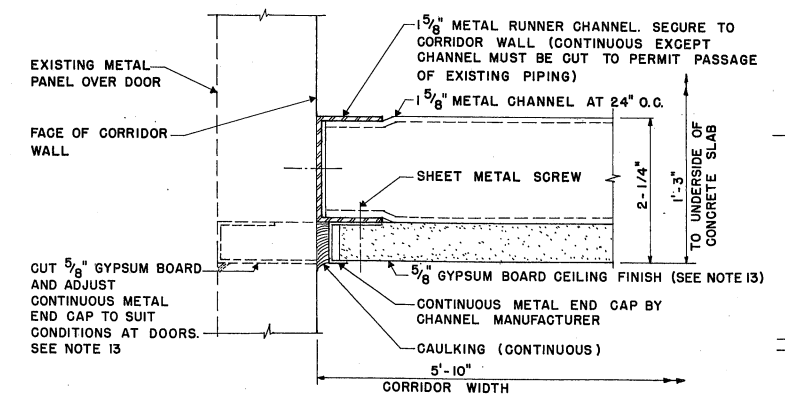
△ SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



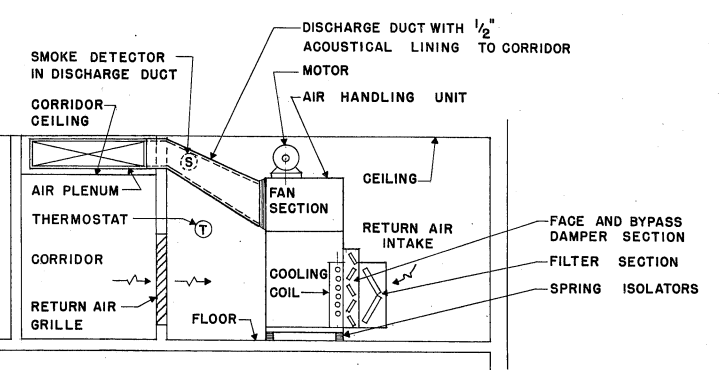
△ KEY PLAN SHOWING ORIENTATION
NO SCALE



△ FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



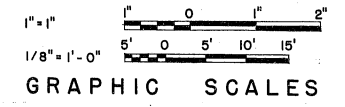
△ TYPICAL CORRIDOR CEILING DETAIL
SCALE: FULL SIZE



△ TYPICAL SECTION THRU MECHANICAL ROOM
NO SCALE

△ BUILDING LOAD SCHEDULE		
LOCATION *LATITUDE	ORIENTATION LONGITUDINAL AXIS	PEAK BUILDING LOAD (TONS)
32°	N - S	30 TONS (12N)
40°	N - S	35 TONS (2PM)
32°	E - W	45 TONS (4PM)
40°	E - W	40 TONS (4PM)
32°	NE - SW	40 TONS (4PM)
40°	NE - SW	35 TONS (2PM)
32°	NW - SE	40 TONS (4PM)
40°	NW - SE	40 TONS (4PM)

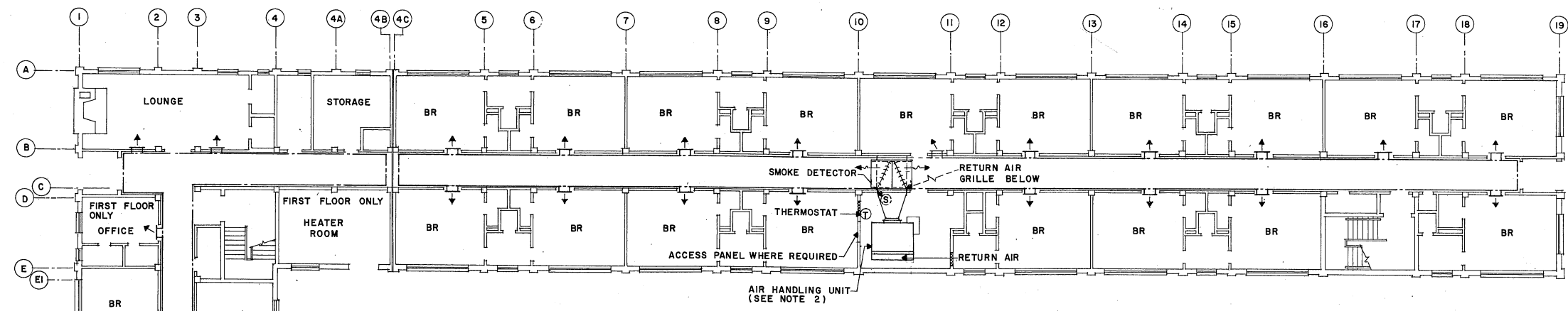
DESIGN LOADS COMPUTED ON BASIS OF:
 (1) 95°F. DB & 78°F. WB OUTSIDE AND 78°F. DB & 50% RH INSIDE FOR ALL LOCATIONS.
 (2) 40% OCCUPANCY AT MAX. LOADS.
 (3) 0.65 SHADE FACTOR FOR WINDOWS FACING SUN AND NO BUILDING OVERHANGS.
 (4) NO LIGHTING & ROOM ELECTRIC LOADS.



- △ GENERAL NOTES** REFERENCE ATCH. 12, AFM 88-15
- EQUIPMENT SIZES SHOWN ARE BASED ON EAST-WEST ORIENTATION.
 - MODIFY EXISTING BEDROOMS TO HOUSE NEW AIR HANDLING UNITS. ALL AIR HANDLING UNITS SHALL BE SINGLE ZONE DRAW THROUGH TYPE WITH CHILLED WATER OR D-X COILS.
 - AIR HANDLING UNIT ROOMS ARE TO BE USED AS RETURN AIR PLENUMS. OUTSIDE AIR INTAKES HAVE NOT BEEN INDICATED SINCE NORMAL BUILDING AIR INFILTRATION IS ADEQUATE FOR PERSONNEL REQUIREMENTS.
 - PROVIDE NEW DROPPED CEILING SUPPLY AIR PLENUMS ON EACH FLOOR AS INDICATED ON PLANS. ON SECOND FLOOR, 1 INCH SEMI-RIGID INSULATION MAY BE REQUIRED ON UNDERSIDE OF CONCRETE ROOF SLAB FOR REQUIRED "U" FACTOR.
 - SPRAY COATING FOR PLENUM SHALL BE CONSIDERED WHERE SITE CONDITIONS WARRANT TREATMENT TO REDUCE AIR LEAKAGE. CAULK ALL HOLES IN WALL ABOVE DROPPED CEILING.
 - INSTALL 1-1/2 INCH MINIMUM SEMI-RIGID INSULATION BOARD ABOVE CORRIDOR CEILING AT CORRIDOR END WALLS.
 - SUPPLY AIR REGISTERS SHALL BE DOUBLE DEFLECTION TYPE WITH OPPOSED BLADE VOLUME DAMPER. MINIMUM AIR VELOCITY THRU REGISTER SHALL BE 600 FPM TO PROVIDE MINIMUM PLENUM PRESSURE FOR AIR DISTRIBUTION. LOCATE REGISTERS AT BOTTOM OF PLENUM TO ALLOW MAXIMUM AVAILABLE AIR DROP ABOVE OCCUPIED ZONE.
 - RELOCATE LIGHTING FIXTURES OR PROVIDE NEW LIGHTING AS REQUIRED TO UNDERSIDE OF NEW CORRIDOR CEILING.
 - EXISTING WALL FIN RADIATOR HEATING SYSTEM SHALL REMAIN UNLESS STATE OF REPAIR WARRANTS REMOVAL.
 - BEDROOM DOORS SHALL BE UNDERCUT 1-1/2" MAXIMUM TO PERMIT AIR RETURN TO CORRIDOR WITH A 600 FPM MAXIMUM VELOCITY THRU THE NET CLEAR AREA. WHERE THE UNDERCUT AREA IS NOT ADEQUATE, PROVIDE SIGHT-PROOF GRILLES IN DOOR.
 - FOR ALL CHILLED WATER INSTALLATIONS, RETURN AIR THERMOSTAT SHALL CONTROL FACE AND BY-PASS DAMPERS IN AIR HANDLING UNIT WITH FULL FLOW WATER THROUGH COOLING COIL. ROOM RETURN AIR SHOULD BY-PASS COIL FOR AIR TEMPERATURE CONTROL.
 - FIRE PROTECTION: A "PRODUCTS OF COMBUSTION" TYPE DETECTOR WILL BE INSTALLED IN THE AIR HANDLING UNIT SUPPLY AIR DUCT AS INDICATED IN TYPICAL SECTION DETAIL THIS SHEET. WHERE AN OUTSIDE AIR VENTILATION DUCT CONNECTION IS REQUIRED, AN ADDITIONAL SMOKE DETECTOR WILL BE REQUIRED UP-STREAM OF THE FILTER SECTION. THE BUILDING FIRE ALARM SYSTEM AND ASSOCIATED AIR HANDLING SYSTEM ARE TO BE INTERLOCKED WITH THE SMOKE DETECTORS.
 - NEW CORRIDOR CEILING SHALL BE 5/8" THICK GYPSUM BOARD, TYPE X PER PARAGRAPH 6-27, AFM 88-15.
 - BEDROOM SOUND PRESSURE LEVELS DUE TO THE AIR CONDITIONING SYSTEM ARE CRITICAL. RECOMMENDED MAXIMUM SOUND LEVEL IS 55 DB "A" SCALE. PREFERRED PACKAGE AIR COOLED CHILLER UNITS SHOULD BE LOCATED NOT LESS THAN 20 FEET FROM BEDROOMS.

- △ DESIGN GUIDES FOR THE ADDITION OF CENTRAL AIR CONDITIONING**
- THE SYSTEM INDICATED BY THIS DRAWING PROVIDES DESIGN GUIDANCE FOR A CORRIDOR PLENUM AIR DISTRIBUTION IN EXISTING DORMITORIES CONTAINING MECHANICAL VENTILATION OR EVAPORATIVE COOLING SYSTEM.
 - THIS SYSTEM WILL BE UTILIZED UNLESS THE CORRIDOR WALLS ARE IN SUCH CONDITION THAT AN AIR TIGHT PLENUM SYSTEM CANNOT BE ECONOMICALLY CONSTRUCTED.
 - WHERE THE BUILDING HAS A WARM AIR HEATING SYSTEM, THE DUCTWORK MAY BE USED WHERE THE HEATING SYSTEM HAS PERFORMED SATISFACTORILY. GENERALLY SINGLE FLOOR ZONE CONTROL DURING THE HEATING SEASON IS NOT PREFERRED, IN WHICH CASE, INDIVIDUAL ROOM FAN-COIL UNITS WOULD BE PROVIDED. SEE PARAGRAPH 6-27, AFM 88-15.
 - PERSONNEL VENTILATION AIR RATE SHALL BE BASED ON 7-1/2 CFM/PERSON. SEE TABLE 6-1, AFM 88-15.
 - PACKAGE AIR-COOLED CHILLER UNITS ARE PREFERRED. UNITS SHALL BE REQUIRED TO OPERATE SATISFACTORILY FROM OUTSIDE AIR DESIGN TEMPERATURE TO 60°F (EQUIPMENT MANUFACTURER WILL BE REQUIRED TO PROVIDE REQUIRED AUTOMATIC CONTROLS). NORMALLY REFRIGERANT HEAD PRESSURE CONTROL IS NOT NECESSARY. LOCATION OF PACKAGE CHILLER IS CRITICAL DUE TO EQUIPMENT HIGH SOUND POWER LEVELS. UNITS SHOULD BE 20 FEET MINIMUM FROM THE BUILDING; PREFERRED LOCATION WOULD BE AT END OF BUILDING ADJACENT TO SOLID END WALL.

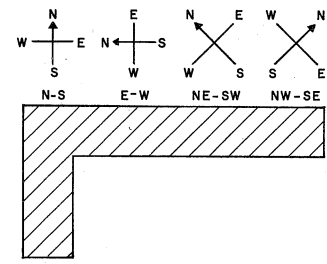
△ SHEET 2 DELETED. A/O, GENERAL NOTES & DESIGN GUIDES REVISED. SHEET REDRAWN.	4/11/73	WJG
△ GENERAL REVISIONS	REVISION - DESCRIPTION	DATE APPROVED
DEPARTMENT OF THE AIR FORCE		
HEADQUARTERS UNITED STATES AIR FORCE		
SPECTOR, PEAKE AND HOWELL		
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA		
AIR CONDITIONING OF EXISTING AF DORMITORIES CONSTRUCTED FROM O.C.E. DRAWING 21-01-102		
APPROVED	SCALE AS NOTED	SHEET 1 OF 1
<i>R. L. ...</i>	DATE: 11 MAR 73	
FOR CHIEF OF STAFF USAF		



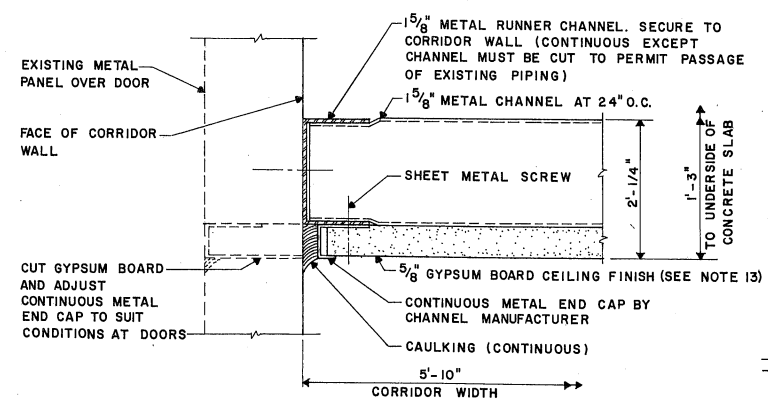
△ FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE
SECOND FLOOR SIMILAR EXCEPT AS NOTED ON PLAN

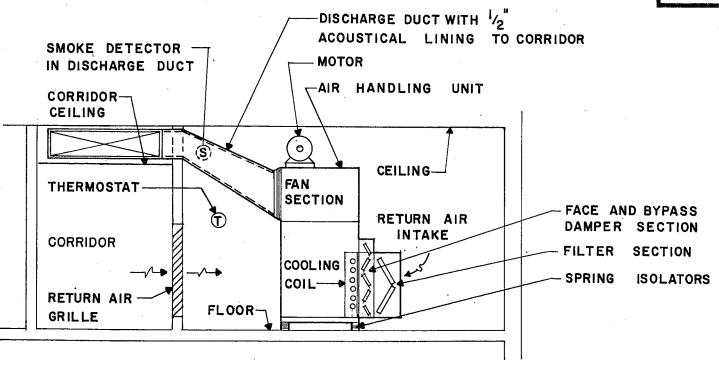
PACKAGED AIR-COOLED CHILLER UNIT. LOCATION TO SUIT EXISTING SITE CONDITIONS. (SEE NOTE 14)



△ KEY PLAN SHOWING ORIENTATION
NO SCALE



TYPICAL CORRIDOR CEILING DETAIL
SCALE: FULL SIZE



△ TYPICAL SECTION THRU MECHANICAL ROOM
NO SCALE

△ GENERAL NOTES REFERENCE ATCH. 12, AFM 88-15

- EQUIPMENT SIZES SHOWN ARE BASED ON EAST-WEST ORIENTATION.
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- INSTALL 1-1/2 INCH MINIMUM SEMI-RIGID INSULATION BOARD ABOVE CORRIDOR CEILING AT CORRIDOR END WALLS.
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- NEW CORRIDOR CEILING SHALL BE 5/8" THICK GYPSUM BOARD, TYPE X PER PARAGRAPH 6-27, AFM 88-15.
- BEDROOM SOUND PRESSURE LEVELS DUE TO THE AIR CONDITIONING SYSTEM ARE CRITICAL. RECOMMENDED MAXIMUM SOUND LEVEL IS 52 DB "A" SCALE. PREFERRED PACKAGE AIR COOLED CHILLER UNITS SHOULD BE LOCATED NOT LESS THAN 20 FEET FROM BEDROOMS.

△ DESIGN GUIDES FOR THE ADDITION OF CENTRAL AIR CONDITIONING

- THE SYSTEM INDICATED BY THIS DRAWING PROVIDES DESIGN GUIDANCE FOR A CORRIDOR PLENUM AIR DISTRIBUTION IN EXISTING OFFICERS QUARTERS CONTAINING MECHANICAL VENTILATION OR EVAPORATIVE COOLING SYSTEM.
- THIS SYSTEM WILL BE UTILIZED UNLESS THE CORRIDOR WALLS ARE IN SUCH CONDITION THAT AN AIR TIGHT PLENUM SYSTEM CANNOT BE ECONOMICALLY CONSTRUCTED. FOR ALTERNATE SYSTEM SEE PAR. 6-27, AFM 88-15.
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△ BUILDING LOAD SCHEDULE

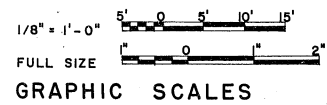
LOCATION	ORIENTATION	PEAK BUILDING LOAD (TONS)
32°	N - S	25 TONS 2 PM
40°	N - S	30 TONS 2 PM
32°	E - W	35 TONS 4 PM
40°	E - W	35 TONS 4 PM
32°	NE - SW	35 TONS 4 PM
40°	NE - SW	35 TONS 4 PM
32°	NW - SE	35 TONS 4 PM
40°	NW - SE	30 TONS 4 PM

DESIGN LOADS COMPUTED ON BASIS OF
 (1) 95°F, DB & 78°F, WB OUTSIDE AND 78°F, DB & 50% RH INSIDE FOR ALL LOCATIONS.
 (2) 40% OCCUPANCY AT MAXIMUM LOADS.
 (3) 0.64 SHADE FACTOR FOR WINDOWS FACING SUN AND NO BUILDING OVERHANGS.
 (4) NO LIGHTING AND ROOM ELECTRIC LOADS.

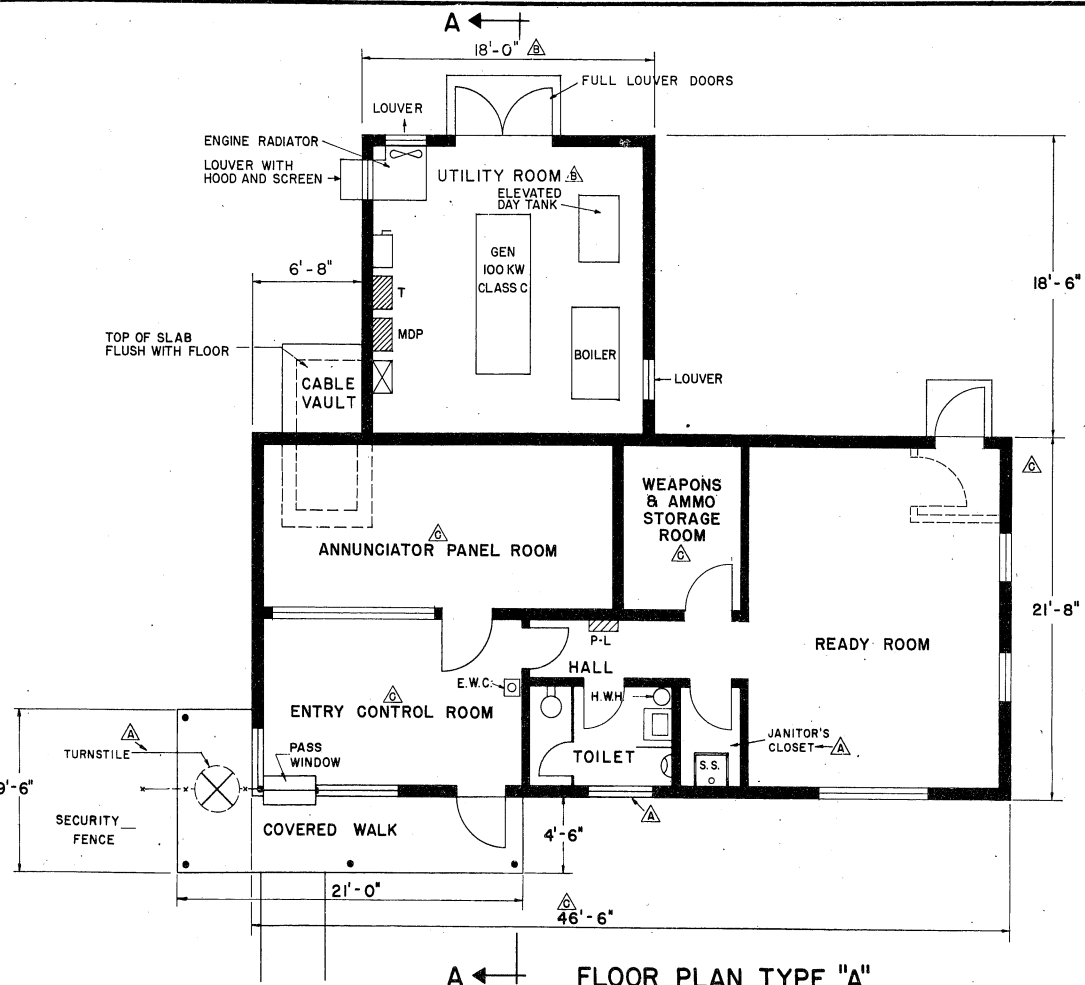
△ SHEETS 203 DELETED, A/C, GENERAL NOTES	1/1/63	1/1/63
AND DESIGN GUIDES REVISED, SHEET REDRAWN.		
△ GENERAL REVISIONS		
SYMBOL	REVISION - DESCRIPTION	DATE APPROVED

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
 ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR CONDITIONING OF EXISTING AF OFFICERS QUARTERS
 CONSTRUCTED FROM
DEFINITIVE DRAWING DEF 25-06-24 (MASONRY)

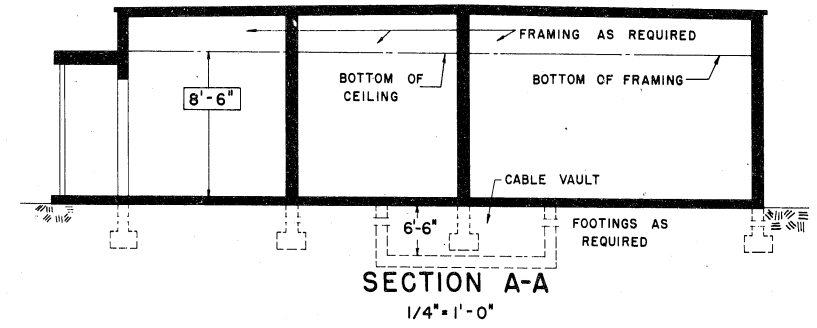
APPROVED
[Signature]
 FOR CHIEF OF STAFF USAF
AD 25-06-78 R2
 SCALE AS NOTED
 DATE: 1 AUG. 1963
 SHEET 1 OF 1



1/8" = 1'-0"
FULL SIZE
GRAPHIC SCALES

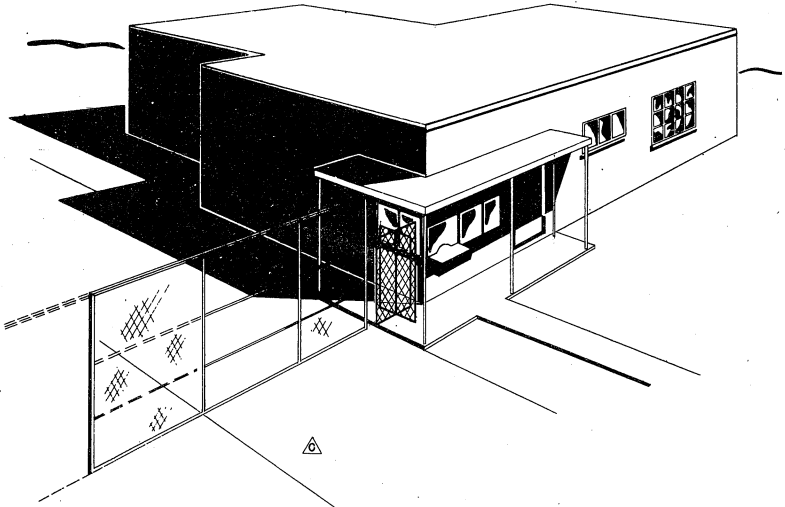


FLOOR PLAN TYPE "A"
1/4" = 1'-0"



SECTION A-A
1/4" = 1'-0"

- LEGEND
- SERVICE SWITCH
 - COMBINED POWER AND LIGHTING PANEL
 - MAIN DISTRIBUTION PANEL
 - TRANSFER PANEL
 - TRANSFORMER (DRY TYPE)
 - E.W.C. ELECTRIC WATER COOLER
 - H.W.H. HOT WATER HEATER
 - S.S. SERVICE SINK



PERSPECTIVE

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

PROGRAMMING AND MASTER PLANNING GUIDES
THE FOLLOWING INFORMATION IS FOR GUIDANCE IN PROGRAMMING AND MASTER PLANNING.

SPECIFICATION - TYPE "N" CONSTRUCTION
FOR ACCEPTABLE MATERIALS SEE AFM 88-15 AND IECMS. FOR INTERIOR AND EXTERIOR COLOR SCHEMES SEE AFR 89-8.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	6	13	19
ESTIMATED DEMAND	6	11	17

WATER (GPM)	
HOT	1
COLD	25
TOTAL	26

WATER (GPD)	
SEWAGE (GPD)	200
GAS (THERM/DAY)	0 (EXCLUDING HEATING)
STEAM (LBS/HR)	0 (EXCLUDING HEATING)
OIL (GPH)	10 (EXCLUDING HEATING)
	31 (EXCLUDING HEATING)

USE INDIVIDUAL ELECTRIC H.W. HEATER IN LAVATORY SUPPLY
*FOR 150KW GENERATORS WHERE JOINT TENANCY (SAC-ADC) OCCURS.

HEATING REQUIREMENTS
HEATING REQUIREMENT (90 MBTU/HR) FOR 0°F OUTSIDE DESIGN TEMPERATURE. FOR PROGRAMMING PURPOSES ONLY.

AIR CONDITIONING REQUIREMENTS
PROVIDE EVAPORATIVE COOLING IN ZONE A, AIR CONDITIONING IN ZONE B AND C AND MECHANICAL VENTILATION IN ZONE D IN ACCORDANCE WITH REQUIREMENTS OF AFM 88-15.

AREA ANALYSIS

	(S.F.)	
TOTAL NET AREA	1,289	
PRIMARY FUNCTIONS	760	
CIRCULATION	134	
SUPPORT	375	

AREA FOR PROGRAMMING
GROSS AREA 1,389 SQ. FT.

GROSS AREA INCLUDES COVERED WALK COMPUTED AT ONE-HALF AREA, 58 SQ. FT.; UTILITY ROOM 324 SQ. FT.

THIS DRAWING SUPERSEDES DRAWING NUMBER AD27-04-05 R2 DATED AUGUST 16, 1957.

THIS SHEET IS ISSUED FOR PROGRAMMING AND MASTER PLANNING ONLY. FOR ENGINEERING DEVELOPMENT USE ALL SHEETS.

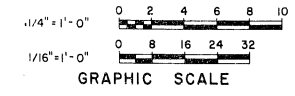
A.F. CONTROL NO. 730-837

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
△	CHANGED ROOM TITLES, ADDED WEAPONS ROOM, EXTENDED READY ROOM, DELETED SALLY PORT	14 Apr 72	[Signature]
△	FLOOR PLAN "A" & PLOT PLAN REVISED, FLOOR PLAN DELETED	2-29-72	[Signature]
△	GENERAL REVISIONS, TURNSTILE RELOCATED, J.C. ADDED	7-9-58	[Signature]
△		10-22-57	[Signature]

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
H. D. NOTTINGHAM & ASSOCIATES
ENGINEERS - ARCHITECTS ARLINGTON, VIRGINIA

SECURITY ENTRY CONTROL BUILDING
PLAN & SECTION

APPROVED:	AD 27-04-05 R3
[Signature]	SCALE: AS NOTED
FOR CHIEF OF STAFF, USAF	DATE: FEB. 1972
	SHEET 1 OF 2



C2

DESIGN DATA & ANALYSIS														
ROOM	BASIC OCCUPANCY FACTOR	CRITERIA		MINIMUM NET DIMENSIONS	CLEAR HGT. REQD.	DIMENSIONS ON THIS PLAN		LIVE LOADS	ELECTRICAL			MECHANICAL		REMARKS AND ADDITIONAL REQUIREMENTS
		DESIGN FACTOR	SOURCE			INTERIOR	SQ. FT.		CONVENIENCE OUTLETS	LIGHTING F.C.	SUPPLEMENTAL PLUMBING	VENTILATION	HEAT AIR/COND. ETC. CONTROL TEMP.	
ENTRY CONTROL ROOM	ADMINISTRATION & SUPERVISION	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	9'-6" X 16'-0"	152		5	30	ELECTRIC WATER COOLER C.W. C.D.	NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	PASS WINDOW SILL HEIGHT 42"
ANNUNCIATOR PANEL ROOM	EQUIPMENT	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	9'-6" X 21'-6"	208	NOTE	5	30		20 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	
HALL	CIRCULATION	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	3'-6" X 5'-0"	17			10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
TOILET	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD	1 W.C., 1 LAV., 1 UR., 1 H.W.H.	8'-6"	5'-6" X 8'-6"	47		2	10		10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	
READY ROOM	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	15'-6" X 21'-0"	325		5	20		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
								STRUCTURAL						
UTILITY ROOM	EQUIPMENT & CLEARANCE	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	16'-0" X 17'-0"	272		3	20		10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	HEATING EQUIPMENT 1 GENERATOR 100KW
COVERED WALK		OPERATIONAL REQUIREMENT	USAF STD		8'-0"	4'-6" X 26'-0"	117			10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
CABLE VAULT	EQUIPMENT CABLES	OPERATIONAL REQUIREMENT	USAF STD		6'-6"	4'-0" X 9'-0"	36	SEE		5		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
JANITORS CLOSET		OPERATIONAL REQUIREMENT	USAF STD		8'-6"	3'-8" X 5'-6"	20			5	SERVICE SINK C.W., H.W., CD	NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
WEAPONS & AMMO STORAGE ROOM	EQUIPMENT	OPERATIONAL REQUIREMENT	USAF STD		8'-6"	6'-6" X 10'-0"	65		2	10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	

REFERENCE MATERIAL

THE FOLLOWING DOCUMENTS HAVE BEEN UTILIZED IN THE DEVELOPMENT OF THIS DEFINITIVE

DESCRIPTION	DESCRIPTION
1. USAF INSTALLATIONS FACILITY REQUIREMENTS MANUAL.	3. SERVICE STORAGE FACILITIES MANUAL.
2. STANDARD OUTLINE SPECS FOR AF FACILITIES, AFM 88-15.	4. AFR 205-4, CHAPTER 4.
	5. AFR 86-6.

NOTE: USE CURRENT REVISIONS TO REFERENCE MATERIAL.

DESIGN GUIDES

ARCHITECTURAL

UNLESS NOTED OTHERWISE WINDOW AND DOOR LOCATIONS ARE APPROXIMATE AND SERVE AS DESIGN GUIDE. ALL DIMENSIONS NOTED WITH A TRIANGLE ARE CRITICAL AND MUST BE HELD. WINDOW SILLS IN PASS ROOM SHALL BE 30" FROM FLOOR. STORM VESTIBULES SHALL BE INSTALLED WHERE REQUIRED. DOORS AND WINDOWS TO BE STANDARD SECURITY TYPE. PLAN VARIATIONS INDICATED ARE: 'A' FOR ADC, 'S' FOR JOINT TENANCY OR FOR SAC SECURITY FENCE WILL BE INSTALLED IN ACCORDANCE WITH AFM 205-4. PROVIDE ONE WAY GLASS PANEL IN CONTROL ROOM DOOR, TRANSPARENT SIDE TOWARDS CONTROL ROOM.

STRUCTURAL

DIMENSIONS MAY BE ADJUSTED FOR STRUCTURAL ADAPTION. LIVE LOADS SHALL BE IN ACCORDANCE WITH PART IX, CHAPTER 1, OF THE OCE ENGINEERING MANUAL.

MECHANICAL

PROVIDE MECHANICAL VENTILATION FOR TOILET, CONTROL ROOM, AND UTILITY ROOM. VENTILATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF AFM 88-8 AND 88-15. PROVIDE 2 - 150 KW GENERATORS FOR JOINT ADC - SAC TENANCY AND PROVIDE 2 - 100 KW GENERATORS FOR SAC.

ELECTRICAL

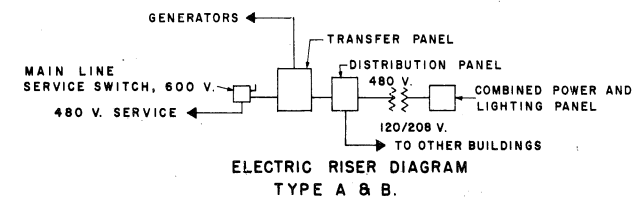
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AFM 88-15. THE AUTOMATIC OPERATED DIESEL GENERATOR SETS SHALL BE CLASS C ENGINES, AS NOTED ON SHEET 1, EQUIPPED WITH SEPARATELY MOUNTED RADIATORS. SETS SHALL BE SO DESIGNED THAT THEY WILL AUTOMATICALLY START ON FAILURE OF NORMAL SOURCE OF POWER. THE SETS SHALL AUTOMATICALLY SHUT DOWN FOLLOWING RESTORATION OF NORMAL POWER SUPPLY. THE SUGGESTED NUMBER OF CONVENIENCE OUTLETS PER ROOM IS TABULATED. LOCATION AS REQUIRED BY DESIGN AGENCY. SPECIAL EQUIPMENT AND DUCTING LAYOUTS FOR CONTROL ROOM WILL BE SUPPLIED FROM SELECTED CLASSIFIED CONTRACTORS.

PROVIDE EXTERIOR LIGHTING FOR SALLY PORT, WALKS AND BUILDINGS PERIMETER AT 1/8 FOOT CANDLES INTENSITY EXTENDING A DISTANCE OF 16'-0" FROM BUILDING. ELECTRICAL CONTROLS FOR LOCKS OF PERSONNEL GATES AND TURNSTILE SHALL BE OPERATED FROM PASS ROOM.

ELECTRICALLY OPERATED GATES SHOULD HAVE AN ELECTRICAL INDICATOR INSIDE THE ENTRY CONTROL ROOM SO THE ENTRY CONTROLLER WILL KNOW WHEN THE GATE IS NOT PROPERLY CLOSED AND LOCKED.

MECHANICAL CODE

H.W. HOT WATER
 C.W. COLD WATER
 C.D. CONNECTED DRAIN
 W.C. WATER CLOSET
 LAV. LAVATORY
 UR. URINAL
 H.W.H. HOT WATER HEATER



THIS DRAWING SUPERSEDES DRAWING NUMBER AD 27-04-05 R2 DATED AUGUST 16, 1957.

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
△	SCHEDULE CHANGED, NOTES ADDED	2-29-72	[Signature]
△	SCHEDULE CHANGED, NOTES ADDED	7-9-58	[Signature]
△	GENERAL REVISIONS, TO DESIGN GUIDES	10-22-57	[Signature]

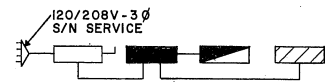
DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 H. D. NOTTINGHAM & ASSOCIATES
 ENGINEERS ARCHITECTS ARLINGTON, VIRGINIA

SECURITY ENTRY CONTROL BUILDING

APPROVED: [Signature] AFOIE
 FOR CHIEF OF STAFF, USAF

AD 27-04-05 R3
 SCALE: NONE
 DATE: FEB. 1972
 SHEET 2 OF 2

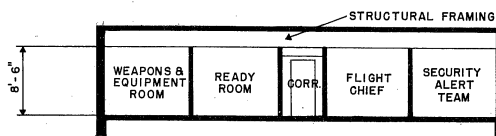
C2



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

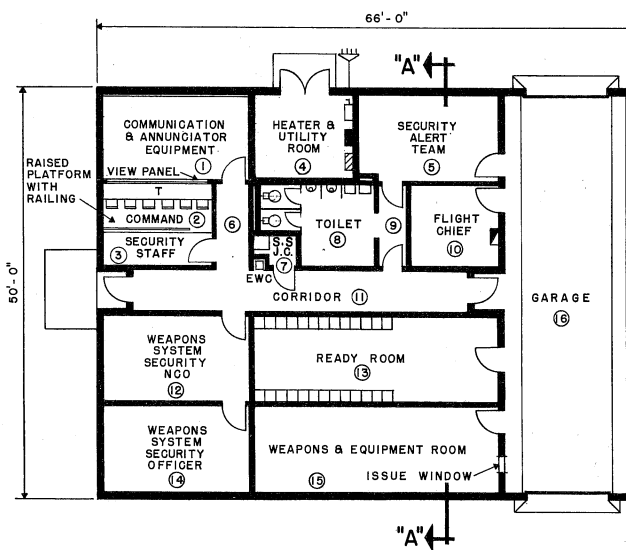
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S. S. SERVICE SINK
- J. C. JANITOR'S CLOSET
- T TABLE



FLOOR PLAN
SCALE: 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIGERATION	LIGHTING	POWER	TOTAL
CONNECTED LOAD	10	16.5	9.9	36.4
ESTIMATED DEMAND	10	15.7	7.9	33.6
WATER (GPM)				
HOT	4			
COLD	43			
TOTAL	45			
TOTAL (GPD)	4,500			
SEWAGE (GPD)	3,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 140.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION

AREA FOR PROGRAMMING GROSS AREA

3,300 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	19'-0" x 11'-6"	219
2	14'-6" x 6'-0"	87
3	14'-6" x 4'-6"	65
4	13'-0" x 11'-6"	150
5	18'-0" x 11'-6"	207
6	5'-0" x 10'-6"	53
7	6'-0" x 4'-0"	24
8	15'-0" x 9'-6"	145
9	4'-0" x 10'-6"	42
10	11'-6" x 10'-6"	121
11	49'-6" x 5'-6"	272
12	19'-0" x 11'-0"	209
13	30'-6" x 11'-0"	336
14	19'-0" x 11'-6"	219
15	30'-6" x 11'-6"	351
16	16'-0" x 50'-0"	800
TOTAL		3,000

CATEGORY CODE NO. 730-833

△	SHEET REDRAWN, FORMER TITLE "SECURITY FORCE STATION"	22 Aug 72	SP
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

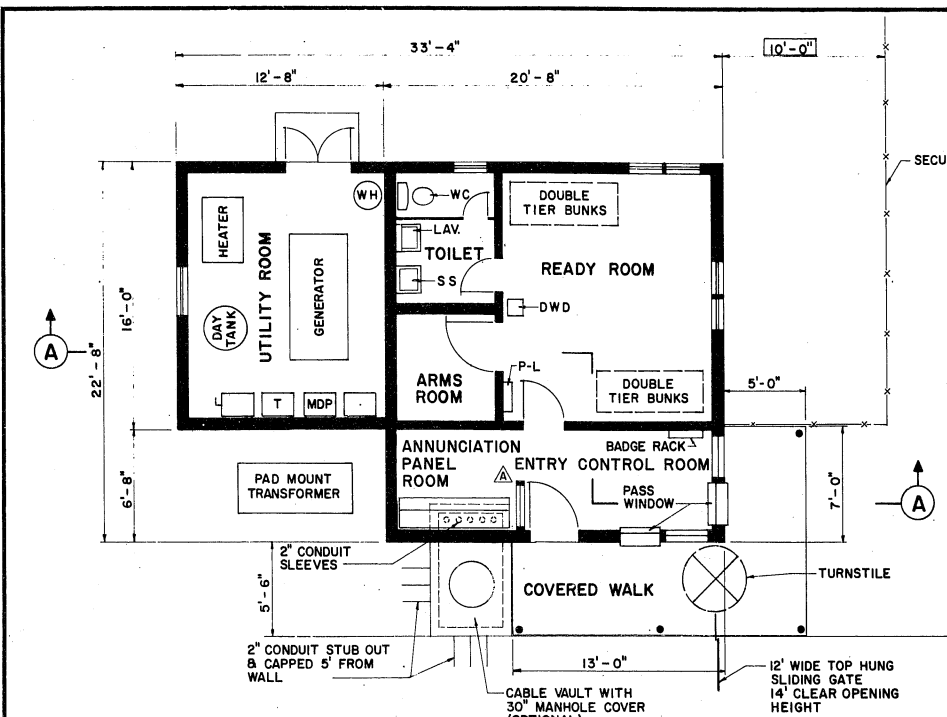
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

△ CENTRAL SECURITY CONTROL

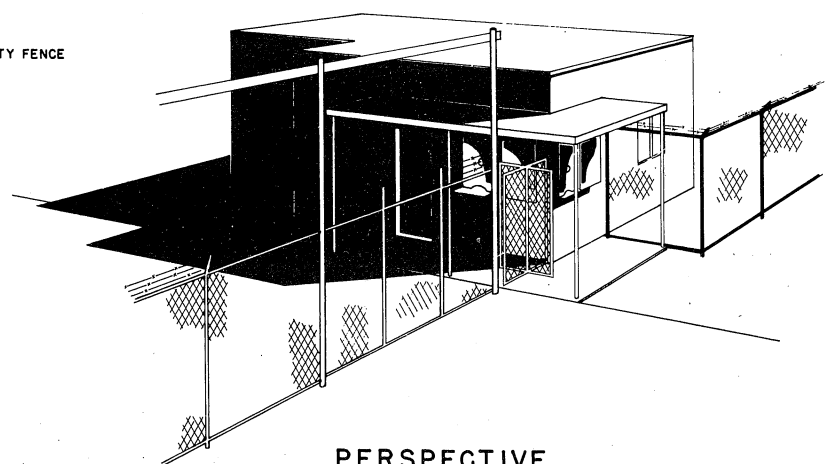
PLAN & SECTION

APPROVED	<i>Daniel J. Spector, Sr. USAF</i>	AD 27-04-08 RI
FOR CHIEF OF STAFF	USAF	SCALE: 1/8" = 1'-0" DATE: 22 August 72
		SHEET 1 OF 1

1/8" = 1'-0" 5' 0' 5' 10' 15'
GRAPHIC SCALE

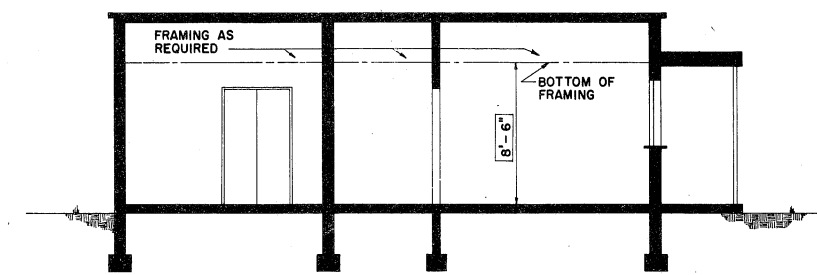


PLAN
SCALE 1/4" = 1'-0"

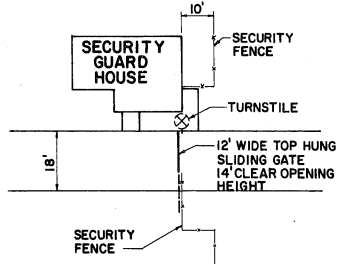


PERSPECTIVE

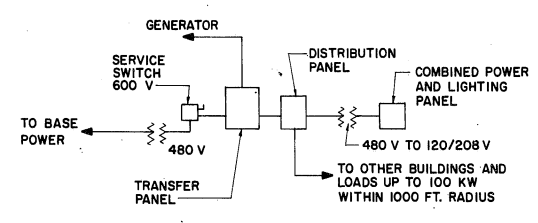
NOTE: THIS SKETCH INDICATES MASS RELATIONSHIP ONLY AND IS NOT INTENDED TO ESTABLISH ARCHITECTURAL DESIGN TREATMENT.



SECTION A-A
SCALE 1/4" = 1'-0"

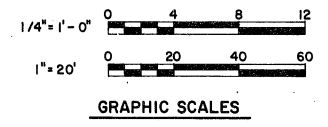


PLOT PLAN
SCALE 1" = 20'



ELECTRIC RISER DIAGRAM

- LEGEND**
- DWD DRINKING WATER DISPENSER
 - SS SERVICE SINK
 - HW HOT WATER
 - CW COLD WATER
 - CD CONNECTED DRAIN
 - WC WATER CLOSET
 - LAV LAVATORY
 - WH WATER HEATER
 - SERVICE SWITCH
 - [P-L] COMBINED POWER & LIGHTING PANEL
 - [MDP] MAIN DISTRIBUTION PANEL
 - [T] TRANSFER PANEL
 - TRANSFORMER (DRY TYPE)



RELATED DWG. SCHEDULE				
TITLE	DWG. NO.	SH. NO.	A F CATEGORY NO.	
GATE HOUSE	AD 27-04-10	1	730-837	
ASSEMBLY & CHECKOUT BUILDING	AD 35-69-07	1	216-614-03	
ASSEMBLY & CHECKOUT BUILDING-INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW 35-69-07	1		
ALERT AIRCRAFT SHELTER AREA-SECURITY LIGHTING	AD-16-06-321	1	812-925	
ALERT AIRCRAFT SHELTER AREA-INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW-16-06-322	1		
IGLOO, STORAGE-INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW-33-15-63	7		
IGLOO, STORAGE-INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW-33-15-63	8		

DESIGN DATA & ANALYSIS

ROOM	BASIC OCCUPANCY FACTOR	CRITERIA		MINIMUM NET DIMENSIONS	CLEAR HGT. REQD.	DIMENSIONS ON THIS PLAN		LIVE LOADS	ELECTRICAL			MECHANICAL		REMARKS AND ADDITIONAL REQUIREMENTS
		DESIGN FACTOR	SOURCE			INTERIOR	SQ. FT.		CONVENIENCE OUTLETS	LIGHTING F C	SUPPLEMENTAL PLUMBING	VENTILATION	HEAT, AIR/COND, ETC. CONTROL TEMP	
PASS ROOM	ADMINISTRATION & SUPERVISION	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	11'-8"	6'-0"	71	3	30		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	PASS WINDOW SILL HEIGHT 42"
CONTROL ROOM	EQUIPMENT	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	7'-0"	6'-0"	42	5	50		20 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	
READY ROOM	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	14'-10"	12'-10"	190	6	30	DWD, CW, CD	NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
TOILET	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	7'-10"	6'-0"	47	2	10	CW, HW, CD	10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	
ARMS ROOM		OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	6'-6"	6'-0"	39	2	10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
UTILITY ROOM	EQUIPMENT & CLEARANCE	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	14'-8"	12'-0"	176	4	20		10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	HEATING EQUIPMENT 1 GENERATOR
COVERED WALK		OPERATIONAL REQUIREMENT	USAF STD	8'-0"	8'-0"	7'-0"	5'-0"	134		10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	
ENTRY POINT										* 15				

* SEE ELECTRICAL GUIDE

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
CONSTRUCTION MATERIALS WILL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AF PAMPHLETS. FOR INTERIOR AND EXTERIOR COLOR SCHEMES SEE AFR 89-8.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	6	7	13
ESTIMATED DEMAND	6	5	11

WATER (GPM)	
HOT	1
COLD	20
TOTAL	21

WATER (GPD)	
TOTAL	200

SEWAGE (GPD)	
TOTAL	200

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURES (REFER TO AFM 88-8 CHAPTER 1)
HEATING REQUIREMENTS (69 M BTU/HR.) FOR 0° OUTSIDE DESIGN TEMPERATURE FOR PROGRAMMING PURPOSES.

AIR CONDITIONING - WEATHER ZONE B
OUTSIDE AIR DESIGN TEMPERATURE (REFER TO AFM 88-8 CHAPTER 1 AND AFM 88-16 CHAPTER 6)
2 1/2 % D. B. BASIS
5 % W. B. BASIS

INSIDE DESIGN CONDITIONS FOR ALL OCCUPIED AREAS 80° DB-50% RH.
NUMBER OF PEOPLE 4

REFERENCE MATERIAL
THE FOLLOWING DOCUMENTS HAVE BEEN UTILIZED IN THE DEVELOPMENT OF THIS DEFINITIVE. (ANY REVISIONS THERETO SHALL BE COMPLIED WITH)

- DESCRIPTION**
- USAF INSTALLATIONS FACILITY REQUIREMENTS AFM 86-4.
 - STANDARD OUTLINE SPECS. FOR AIR FORCE FACILITIES AFM 88-15.
 - AFM 88-2, AFM 88-8 CHAPTERS 1, 4 AND 6, AND AFM 88-3
 - AFM 207-1

ARCHITECTURAL GUIDE
UNLESS NOTED OTHERWISE WINDOW AND DOOR LOCATIONS ARE APPROXIMATE AND SERVE AS DESIGN GUIDE ONLY. ALL DIMENSIONS NOTED (0'-0") ARE CRITICAL AND MUST BE HELD. WINDOW SILLS IN PASS ROOM SHALL BE 42" FROM FLOOR. EXTERIOR DOORS AND WINDOWS TO BE STANDARD SECURITY TYPE. SECURITY FENCE WILL BE INSTALLED IN ACCORDANCE WITH AFM 207-1 CHAPTER 8.

ELECTRICAL GUIDE
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AFM 88-15. THE AUTOMATIC OPERATED DIESEL SET SHALL HAVE CLASS C ENGINE. SET SHALL BE SO DESIGNED THAT IT WILL AUTOMATICALLY START ON FAILURE OF NORMAL SOURCE OF POWER. THE SET SHALL AUTOMATICALLY SHUT DOWN FOLLOWING RESTORATION OF NORMAL POWER SUPPLY. THE SUGGESTED NUMBER OF CONVENIENCE OUTLETS PER ROOM IS TABULATED. THEIR LOCATION TO BE SELECTED BY THE DESIGN AGENCY. ELECTRICAL CONTROLS FOR LOCKS OF THE TURNSTILE AND GATE SHALL BE OPERATED FROM PASS ROOM. PROVIDE EXTERIOR LIGHTING FOR BUILDING PERIMETER AT 1.5 FOOT CANDLES INTENSITY EXTENDING A DISTANCE OF 18 FEET FROM BUILDING. THE INTENSITY OF ENTRY POINT LIGHTING SHOULD BE NOT LESS THAN 1.5 FOOT CANDLES FOR A DISTANCE OF NOT LESS THAN 100 FEET OUTWARD FROM THE ENTRY POINT AND 25 FEET TO EITHER SIDE OF THE ROAD OR WALKWAY. BASE POWER SERVICE ENTRANCE SHALL BE OVERHEAD OR UNDERGROUND AS REQUIRED TO MEET CLEARANCE REQUIREMENTS. LOADS OVER 100 KW BEYOND 1000 FOOT RADIUS USE PRIMARY VOLTAGE DISTRIBUTION AND SEPARATE STANDBY GENERATOR.

HEATING, AIR CONDITIONING AND MECHANICAL VENTILATION GUIDE
MECHANICAL VENTILATION-PROVIDE 10 CFM PER PERSON WITH AIR CONDITIONING AND 20 AIR CHANGES PER HOUR WHEN NOT AIR CONDITIONED. THE LATTER IS TO BE FOR SUMMER OPERATION ONLY AND SHOULD BE AN EXHAUST SYSTEM. PROVIDE TOILET AND UTILITY ROOM WITH EXHAUST FOR 10 AIR CHANGES PER HOUR.

STRUCTURAL GUIDE
DIMENSIONS MAY BE ADJUSTED FOR STRUCTURAL ADAPTATION. LIVE LOADS SHALL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

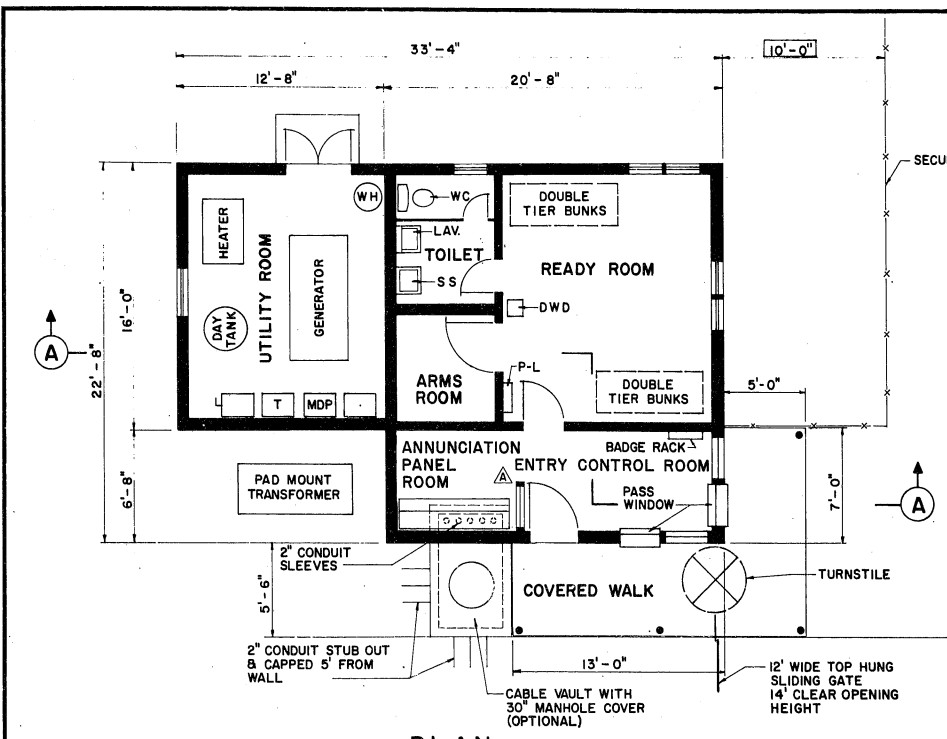
GROSS AREA 737 SQ. FT.*
*GROSS AREA INCLUDES COVERED WALK COMPUTED AT ONE-HALF AREA, 52 SQ. FT.
THIS DRAWING SUPERSEDES NUMBER AD 27-04-11 DATED MARCH 10, 1965. CAT. CODE NO. 730-833

SYMBOL	REVISIONS DESCRIPTION	DATE	APPROVAL
△	CONTROL & PASS RM. TITLES CHANGED-GLASS WALL ADDED	11-11-72	[Signature]

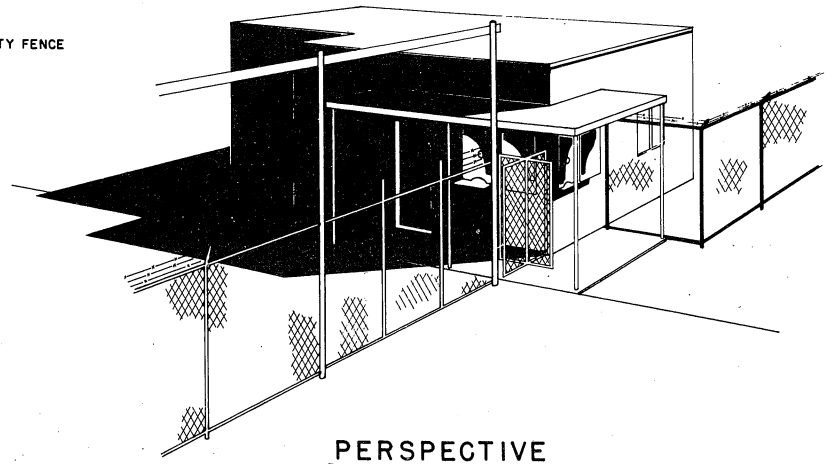
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
BLACK & VEATCH
CONSULTING ENGINEERS
KANSAS CITY, MISSOURI

SECURITY ENTRY CONTROL BUILDING
PLAN, SECTION & SCHEDULES

APPROVED FOR CHIEF OF STAFF, U. S. AIR FORCE
[Signature] AFDC-K
AD 27-04-11 R1
SCALE AS NOTED
DATE FEB. 1972 SHEET 1 OF 1

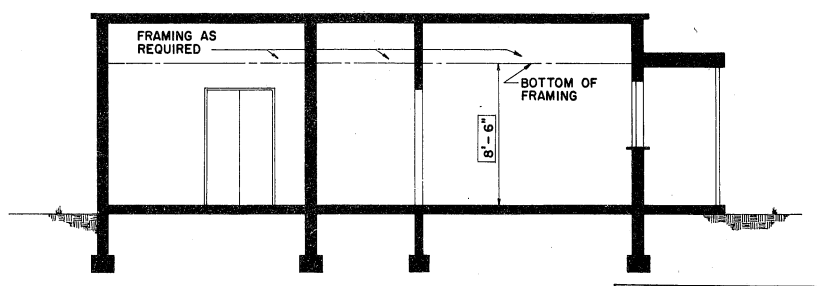


PLAN
SCALE 1/4" = 1'-0"

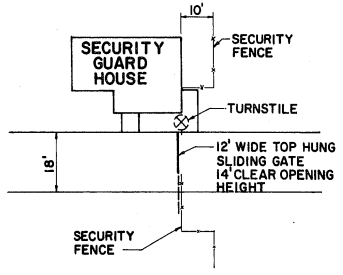


PERSPECTIVE

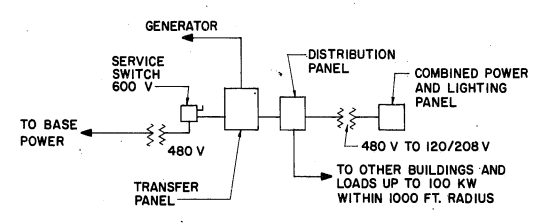
NOTE: THIS SKETCH INDICATES MASS RELATIONSHIP ONLY AND IS NOT INTENDED TO ESTABLISH ARCHITECTURAL DESIGN TREATMENT.



SECTION A-A
SCALE 1/4" = 1'-0"



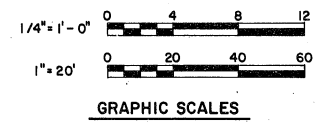
PLOT PLAN
SCALE 1" = 20'



ELECTRIC RISER DIAGRAM

LEGEND

- DWD DRINKING WATER DISPENSER
- SS SERVICE SINK
- HW HOT WATER
- CW COLD WATER
- CD CONNECTED DRAIN
- WC WATER CLOSET
- LAV LAVATORY
- WH WATER HEATER
- SW SERVICE SWITCH
- P-L COMBINED POWER & LIGHTING PANEL
- MDP MAIN DISTRIBUTION PANEL
- T TRANSFER PANEL
- TRANSFORMER (DRY TYPE)



RELATED DWG. SCHEDULE				
TITLE	DWG. NO.	SH. NO.	A.F. CATEGORY NO.	
GATE HOUSE	AD 27-04-10	1	730-837	
ASSEMBLY & CHECKOUT BUILDING	AD 35-69-07	1	216-614-03	
ASSEMBLY & CHECKOUT BUILDING-INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW 35-69-07	1		
ALERT AIRCRAFT SHELTER AREA-SECURITY LIGHTING	AD-16-06-321	1	812-925	
ALERT AIRCRAFT SHELTER AREA - INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW -16-06-322	1		
IGLOO, STORAGE - INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW -33-15-63	7		
IGLOO, STORAGE - INTRUSION DETECTION AND GUARD TELEPHONE SYSTEM (CLASS)	AW -33-15-63	8		

DESIGN DATA & ANALYSIS

ROOM	BASIC OCCUPANCY FACTOR	CRITERIA		MINIMUM NET CLEAR HGT. DIMENSIONS	CLEAR HGT. REQD.	DIMENSIONS ON THIS PLAN		LIVE LOADS	ELECTRICAL				MECHANICAL		REMARKS AND ADDITIONAL REQUIREMENTS
		DESIGN FACTOR	SOURCE			INTERIOR	SQ. FT.		CONVENIENCE OUTLETS	LIGHTING F.C.	SUPPLEMENTAL PLUMBING	VENTILATION	HEAT, AIR/COND, ETC. CONTROL TEMP.		
PASS ROOM	ADMINISTRATION & SUPERVISION	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	11'-8"	6'-0"	71	3	30		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS	PASS WINDOW SILL HEIGHT 42"	
CONTROL ROOM	EQUIPMENT	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	7'-0"	6'-0"	42	5	50		20 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS		
READY ROOM	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	14'-10"	12'-10"	190	6	30	DWD, CW, CD	NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS		
TOILET	PERSONNEL	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	7'-10"	6'-0"	47	2	10	CW, HW, CD	10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS		
ARMS ROOM		OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	6'-6"	6'-0"	39	2	10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS		
UTILITY ROOM	EQUIPMENT & CLEARANCE	OPERATIONAL REQUIREMENT	USAF STD	8'-6"	8'-6"	14'-8"	12'-0"	176	4	20		10 AIR CHANGES PER HOUR	NO CRITICAL REQUIREMENTS	HEATING EQUIPMENT 1 GENERATOR	
COVERED WALK		OPERATIONAL REQUIREMENT	USAF STD	8'-0"	8'-0"	7'-0"	5'-0"	134		10		NO CRITICAL REQUIREMENTS	NO CRITICAL REQUIREMENTS		
ENTRY POINT															

* SEE ELECTRICAL GUIDE

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
CONSTRUCTION MATERIALS WILL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AF PAMPHLETS. FOR INTERIOR AND EXTERIOR COLOR SCHEMES SEE AFM 89-8

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD:	6	7	13
ESTIMATED DEMAND:	6	5	11

WATER (GPM)	
HOT:	1
COLD:	20
TOTAL:	21

WATER (GPD)	
TOTAL:	200

SEWAGE (GPD)	
TOTAL:	200

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURES (REFER TO AFM 88-8 CHAPTER 1)
HEATING REQUIREMENTS (69 M BTU/HR) FOR 0° OUTSIDE DESIGN TEMPERATURE FOR PROGRAMMING PURPOSES.

AIR CONDITIONING - WEATHER ZONE B
OUTSIDE AIR DESIGN TEMPERATURE (REFER TO AFM 88-8 CHAPTER 1 AND AFM 88-15 CHAPTER 6)
2 1/2 % D.B. BASIS
5 % W.B. BASIS

INSIDE DESIGN CONDITIONS FOR ALL OCCUPIED AREAS 80° DB-50% RH.
NUMBER OF PEOPLE 4

REFERENCE MATERIAL
THE FOLLOWING DOCUMENTS HAVE BEEN UTILIZED IN THE DEVELOPMENT OF THIS DEFINITIVE: (ANY REVISIONS THERETO SHALL BE COMPLIED WITH)

- DESCRIPTION**
1. USAF INSTALLATIONS FACILITY REQUIREMENTS AFM 86-4.
 2. STANDARD OUTLINE SPECS. FOR AIR FORCE FACILITIES AFM 88-15.
 3. AFM 88-2, AFM 88-8 CHAPTERS 1, 4 AND 6, AND AFM 88-3
 4. AFM 207-1

ARCHITECTURAL GUIDE
UNLESS NOTED OTHERWISE WINDOW AND DOOR LOCATIONS ARE APPROXIMATE AND SERVE AS DESIGN GUIDE ONLY. ALL DIMENSIONS NOTED (0'-0") ARE CRITICAL AND MUST BE HELD. WINDOW SILLS IN PASS ROOM SHALL BE 42" FROM FLOOR. EXTERIOR DOORS AND WINDOWS TO BE STANDARD SECURITY TYPE. SECURITY FENCE WILL BE INSTALLED IN ACCORDANCE WITH AFM 207-1 CHAPTER 8.

ELECTRICAL GUIDE
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AFM 88-15. THE AUTOMATIC OPERATED DIESEL SET SHALL HAVE CLASS C ENGINE. SET SHALL BE SO DESIGNED THAT IT WILL AUTOMATICALLY START ON FAILURE OF NORMAL SOURCE OF POWER. THE SET SHALL AUTOMATICALLY SHUT DOWN FOLLOWING RESTORATION OF NORMAL POWER SUPPLY. THE SUGGESTED NUMBER OF CONVENIENCE OUTLETS TABULATED THEIR LOCATION TO BE SELECTED BY THE DESIGN AGENCY. ELECTRICAL CONTROLS FOR LOCKS OF THE TURNSTILE AND GATE SHALL BE OPERATED FROM PASS ROOM. PROVIDE EXTERIOR LIGHTING FOR BUILDING PERIMETER AT 1.5 FOOT CANDLES INTENSITY EXTENDING A DISTANCE OF 18 FEET FROM BUILDING. THE INTENSITY OF ENTRY POINT LIGHTING SHOULD BE NOT LESS THAN 1.5 FOOT CANDLES FOR A DISTANCE OF NOT LESS THAN 100 FEET OUTWARD FROM THE ENTRY POINT AND 25 FEET TO EITHER SIDE OF THE ROAD OR WALKWAY. BASE POWER SERVICE ENTRANCE SHALL BE OVERHEAD OR UNDERGROUND AS REQUIRED TO MEET CLEARANCE REQUIREMENTS. LOADS OVER 100 KW BEYOND 1000 FOOT RADIUS USE PRIMARY VOLTAGE DISTRIBUTION AND SEPARATE STANDBY GENERATOR.

HEATING, AIR CONDITIONING AND MECHANICAL VENTILATION GUIDE
MECHANICAL VENTILATION-PROVIDE 10 CFM PER PERSON WITH AIR CONDITIONING AND 20 AIR CHANGES PER HOUR WHEN NOT AIR CONDITIONED. THE LATTER IS TO BE FOR SUMMER OPERATION ONLY AND SHOULD BE AN EXHAUST SYSTEM. PROVIDE TOILET AND UTILITY ROOM WITH EXHAUST FOR 10 AIR CHANGES PER HOUR.

STRUCTURAL GUIDE
DIMENSIONS MAY BE ADJUSTED FOR STRUCTURAL ADAPTATION. LIVE LOADS SHALL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

GROSS AREA 737 SQ. FT. *
* GROSS AREA INCLUDES COVERED WALK COMPUTED AT ONE-HALF AREA, 62 SQ. FT.
THIS DRAWING SUPERSEDES NUMBER AD 27-04-11 DATED MARCH 10, 1965. CAT. CODE NO. 730-833

SYMBOL	REVISIONS DESCRIPTION	DATE	APPROVAL
△	CONTROL & PASS RM. TITLES CHANGED-GLASS WALL ADDED	11-12-72	[Signature]

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
BLACK & VEATCH
CONSULTING ENGINEERS
KANSAS CITY, MISSOURI

SECURITY ENTRY CONTROL BUILDING
PLAN, SECTION & SCHEDULES

APPROVED FOR CHIEF OF STAFF, U.S. AIR FORCE
AF00E-K
AD 27-04-11 R1
DATE: FEB. 1972
SHEET 1 OF 1

C2

ROOM SCHEDULE - GROUND FLOOR

ROOM NO.	ABBREVIATIONS	DESCRIPTION	REMARKS	ROOM NO.	ABBREVIATIONS	DESCRIPTION	REMARKS	ROOM NO.	ABBREVIATIONS	DESCRIPTION	REMARKS
101		LOBBY		120	RECP	RECEPTION		138	RECP	RECEPTION	
102	INFO	INFORMATION		121		JANITOR'S CLOSET		139	R & S	REENLISTMENT AND SEPARATIONS	
103		STAIRS		122		MEN		140	TP	TRANSITION PROGRAM	
104	STOR	STORAGE		123		WOMEN		141		ASSIGNMENTS	
105	PA	PERSONAL AFFAIRS		124		LOUNGE		142	STOR	STORAGE	
106		CONFERENCE		125	VEND'G	VENDING		143		RECEPTION	
107	TEL	TELEPHONE		126	STOR	STORAGE		144	CC, PRC	CAREER CONTROL, PERSONNEL READINESS CENTER	
108	CBPO	CONSOLIDATED BASE PERSONNEL OFFICE		127		PROCESSING CHIEF AND NCOIC		145	C & T	CLASSIFICATION AND TRAINING	
109	DP-NCOIC	DIRECTOR OF PERSONNEL - NCOIC		128		RECEPTION		146		RED CROSS	
110	CBPO	CONSOLIDATED BASE PERSONNEL OFFICE		129	ELEV/DW	ELEVATOR/DUMB WAITER		147		FAMILY SERVICE STORAGE	
111	DP	DIRECTOR OF PERSONNEL		130		PROCESSING		148		FAMILY SERVICE	
112	PSM	PERSONNEL SYSTEMS MANAGER		131	RCD	RECORDS		149	PA	PERSONAL AFFAIRS	
113		STAIRS		132		UTILITY ROOM		150	CSC	CUSTOMER SERVICE CENTER	
114		ADMINISTRATION		133	CIAC	CAREER INFORMATION AND COUNSELING		151		CORRIDOR	
115		BOARD ROOM		134	TP or CIAC	TRANSITION PROGRAM OR CAREER INFORMATION AND COUNSELING					
116	P & T	PROMOTION AND TRAINING									
117	CH-QC	CHIEF - QUALITY CONTROL		135	CIAC	CAREER INFORMATION AND COUNSELING					
118	ER/PR, QC	EFFECTIVENESS REPORTS/ PERFORMANCE REPORTS, QUALITY CONTROL - NCOIC		136	CAC	CAREER ADVISORY AND COUNSELING					
119	SA	SPECIAL ACTION		137	I & OP	IN AND OUT PROCESSING					

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.
IT IS DESIRABLE THAT CHANGES IN PLAN MAY BE EASILY AND QUICKLY MADE TO ACCOMMODATE CHANGING REQUIREMENTS. THIS FLEXIBILITY MAY BE OBTAINED THRU THE USE OF MODULAR "PLUG-IN" ELECTRICAL PORTABLE PARTITIONS AND LIGHT FIXTURES. A SYSTEM OF DISTRIBUTION BOXES IS LOCATED IN THE SPACE ABOVE THE CEILING. FLEXIBLE CABLES ARE PLUGGED IN TO THE TOP OF THE PORTABLE PARTITION PANEL WHICH EXTENDS THRU SPECIAL OPENINGS IN THE CEILING GRID. SEE DETAIL.
CONSIDERATION SHALL BE GIVEN TO SPECIAL LOADING REQUIREMENTS TO ACCOMMODATE HEAVY STORAGE AND COMPUTER EQUIPMENT.
PROVIDE SOUND PROOFING AS REQUIRED AT COMPUTER LOCATIONS.
IF REQUIRED, AN INTERCOM SYSTEM MAY BE PROVIDED.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	145 KW	151.2 KW	216 KW	512.2 KW
ESTIMATED DEMAND	145 KW	143.64 KW	194.4 KW	483.04 KW

WATER (GPM)

HOT	26
COLD	100
TOTAL	105
TOTAL (GPD)	60,000
SEWAGE (GPD)	40,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F.

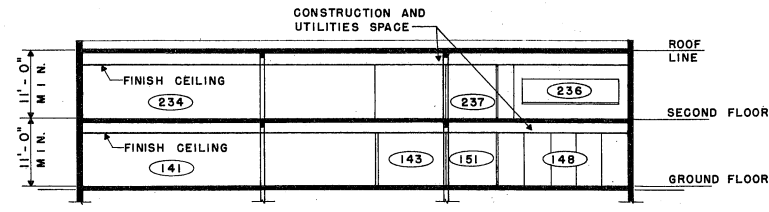
M/BTU/HR 1,590.0

AIR CONDITIONING REQUIREMENTS

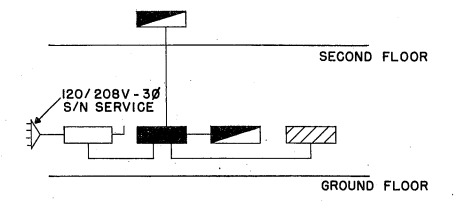
OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB

TONS OF REFRIGERATION 145

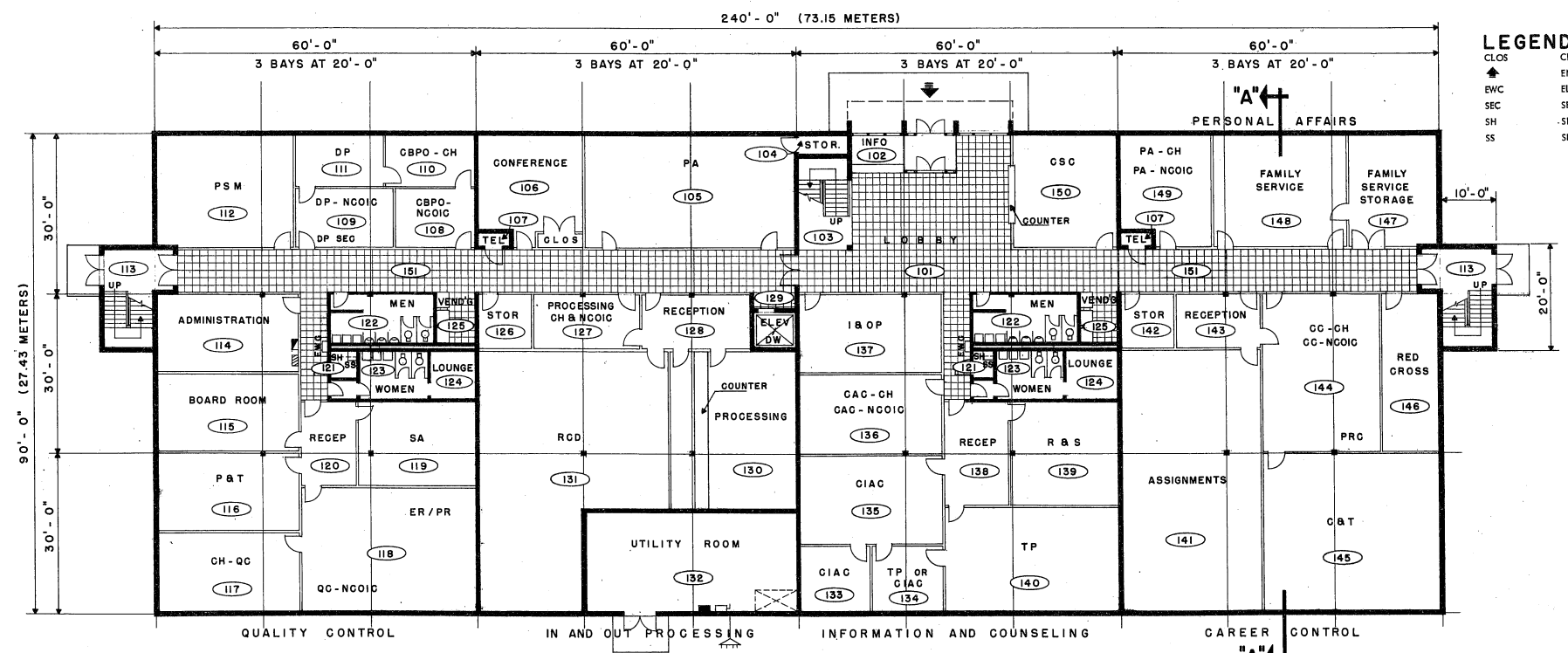
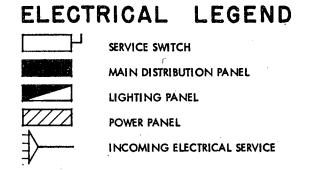
AREA FOR PROGRAMMING GROSS AREA 44,000 SQ. FT.



SECTION "A"- "A"
SCALE: 3/32" = 1'-0"

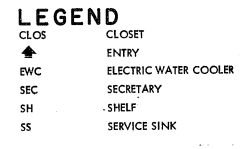
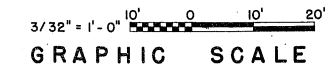


ELECTRICAL RISER DIAGRAM
NO SCALE



GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"

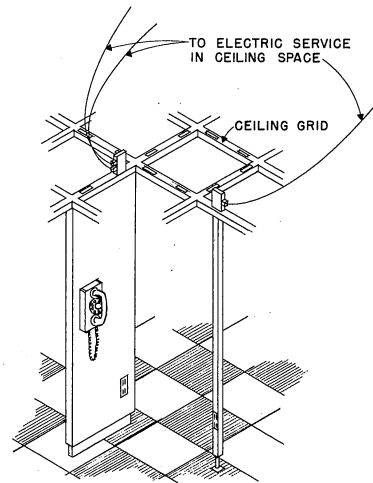
INDICATES PERMANENT WALLS AND PARTITIONS
INDICATES MOVEABLE PARTITIONS



CATEGORY CODE NO. 610-128

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
COMBINED BASE PERSONNEL OFFICE			
PLAN & SECTION			
APPROVED	SCALE: 3/32" = 1'-0"	DATE: 12-75	SHEET 1 OF 2
<i>Henry J. Rottalup</i>			
FOR CHIEF OF STAFF USAF		AD 30-01-61	

C2



MOVEABLE PARTITION AND POWER POLE

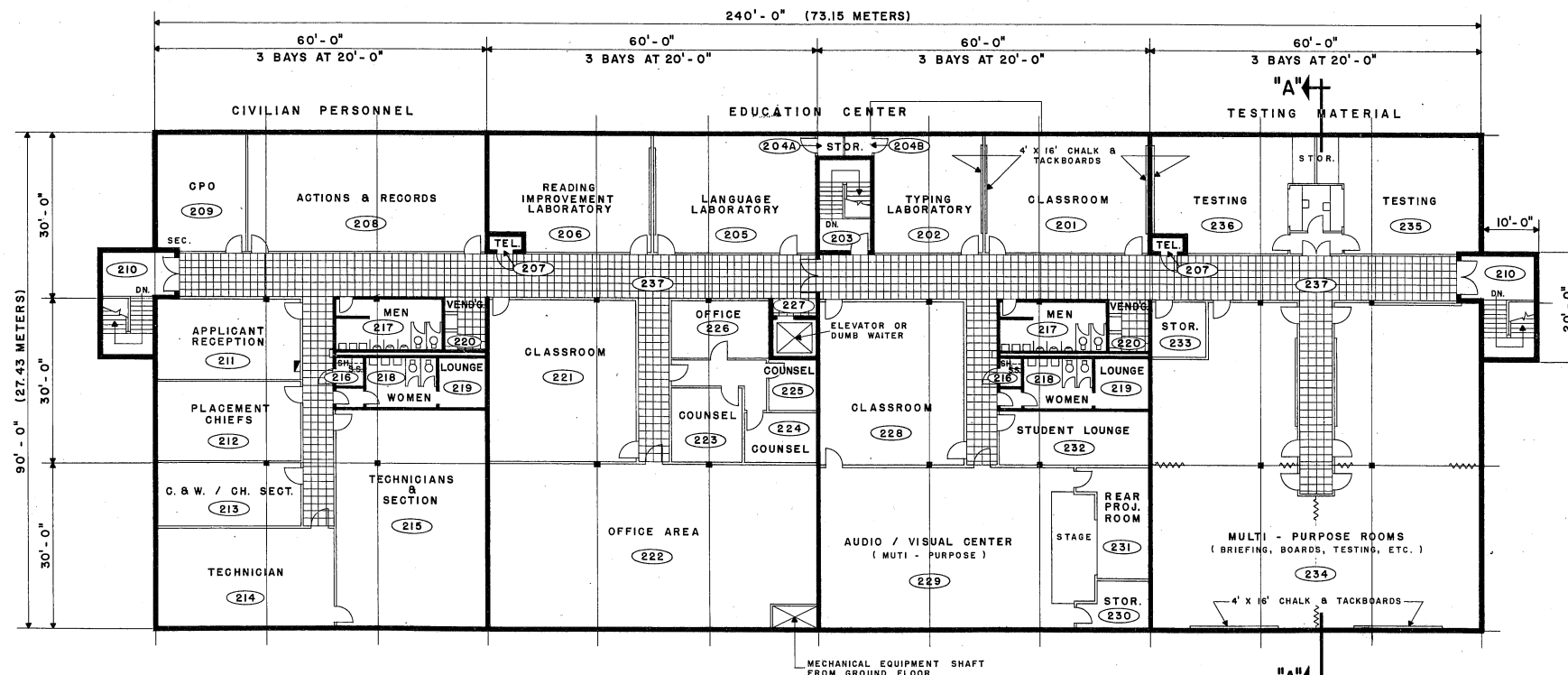
WITH FLEXIBLE ELECTRICAL CONNECTIONS TO ELECTRIC SERVICE, PHONE SERVICE, ETC. IN CEILING SPACE
NOT TO SCALE

LEGEND

- DN DOWN
- EWC ELECTRIC WATER COOLER
- SEC SECRETARY
- SH SHELF
- SS SERVICE SINK

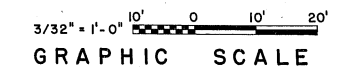
ROOM SCHEDULE - SECOND FLOOR

ROOM NO.	ABBREVIATIONS	DESCRIPTION	REMARKS
201		CLASSROOM	
202		TYPING LABORATORY	
203		STAIRS	
204	STOR	STORAGE	
205		LANGUAGE LABORATORY	
206		READING IMPROVEMENT LABORATORY	
207	TEL	TELEPHONE	
208		ACTIONS & RECORDS	
209	CPO	CIVILIAN PERSONNEL OFFICER	
210		STAIRS	
211		APPLICANT RECEPTION	
212		PLACEMENT CHIEFS	
213	C & W/CH SECT	CLASSIFICATION AND WAGE SECTION/CHIEF OF SECTION	
214		TECHNICIAN	
215		TECHNICIAN & SECTION	
216		JANITOR'S CLOSET	
217		MEN	
218		WOMEN	
219		LOUNGE	
220	VEND'G	VENDING	
221		CLASSROOM	
222		OFFICE AREA	
223		COUNSEL	
224		COUNSEL	
225		COUNSEL	
226		OFFICE	
227		ELEVATOR OR DUMB WAITER	
228		CLASSROOM	
229		AUDIO/VISUAL CENTER	
230	STOR	STORAGE	
231	REAR PROJ ROOM	REAR PROJECTION ROOM	
232		STUDENT LOUNGE	
233	STOR	STORAGE	
234		MULTI-PURPOSE ROOMS	
235		TESTING	
236		TESTING	
237		CORRIDOR	



SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

— INDICATES PERMANENT WALLS AND PARTITIONS
- - - INDICATES MOVEABLE PARTITIONS



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION, ORIENTATION OF THE FACILITY AND PROXIMITY TO THE FLIGHT LINE (AIRCRAFT NOISES).

A HYDRAULIC ELEVATOR OR DUMB WAITER MAY BE PROVIDED, AS SHOWN, WHEN PROVISION FOR THE HANDICAPPED AND OTHER CONSIDERATIONS JUSTIFY ITS USE AND AS APPROVED BY HQUSAF.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8.

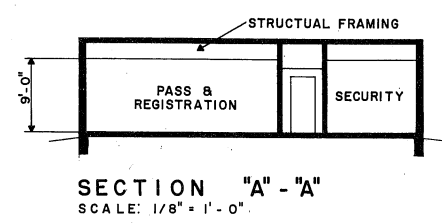
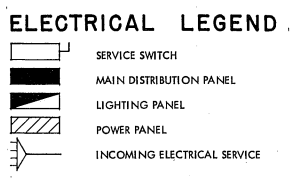
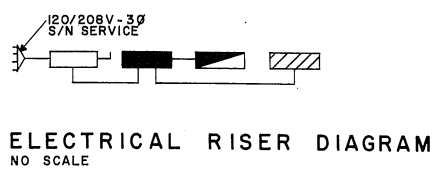
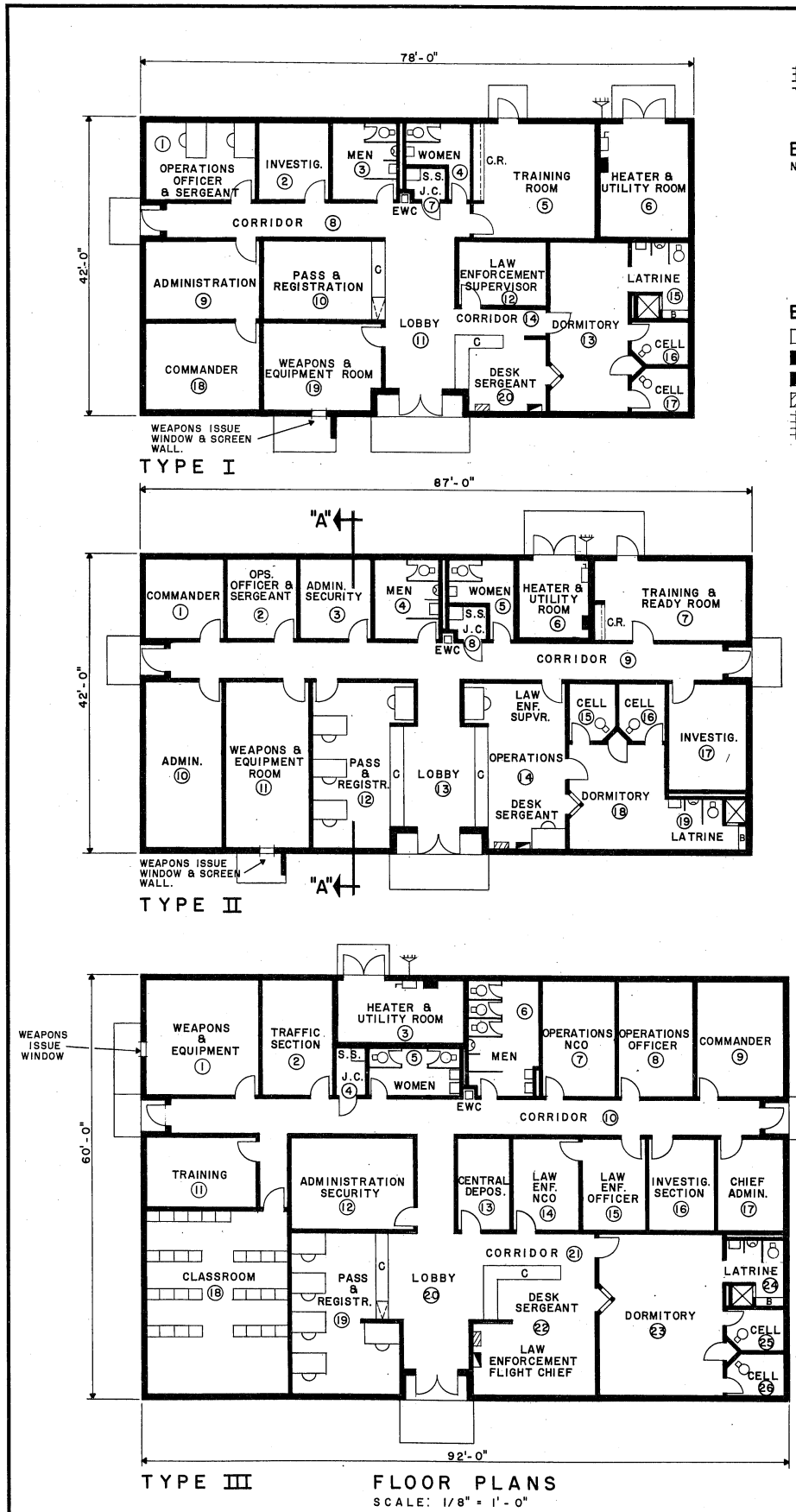
CATEGORY CODE NO. 610-128

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

COMBINED BASE PERSONNEL OFFICE
PLAN & DETAIL

APPROVED: *George J. Pritchard*
FOR CHIEF OF STAFF USAF
SCALE: 3/32" = 1'-0" SHEET 2 OF 2
DATE: 10/25/75
AD 30-01-61



- LEGEND**
- B BENCH
 - C COUNTER
 - C.R. CLOTHES RACK
 - ENF. ENFORCEMENT
 - INVESTIG. INVESTIGATION
 - S.S. SERVICE SINK
 - J.C. JANITOR'S CLOSET
 - E.W.C. ELECTRIC WATER COOLER
 - OPS. OPERATIONS
 - ADMIN. ADMINISTRATION
 - REGISTR. REGISTRATION
 - SUPVR. SUPERVISOR

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIGERATION		LIGHTING	POWER
	TYPE 1	TYPE 2		
CONNECTED LOAD	13.0	14.0	16.4	9.9
ESTIMATED DEMAND	13.0	14.0	15.2	7.9
WATER	TYPE 3		26.2	12.3
HOT	1 & 2	8		
COLD	50	65		
TOTAL	53	70		
TOTAL (GPD)	6,750	11,250		
SEWAGE (GPD)	4,500	7,500		

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F

M/BTU/HR	TYPE 1	TYPE 2	TYPE 3
	186.0	203.0	286.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB

TONS OF REFRIGERATION	TYPE 1		TYPE 2		TYPE 3
	13	14	14	14	21

AREA FOR PROGRAMMING GROSS AREA

TYPE I 3,276 SQ. FT.
TYPE II 3,654 SQ. FT.
TYPE III 5,520 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

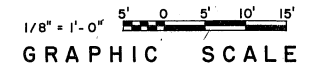
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 738-835

ROOM SCHEDULE

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
TYPE I 1	16'-0" x 12'-0"	192
2	10'-0" x 12'-0"	120
3	10'-0" x 12'-0"	120
4	10'-0" x 8'-0"	80
5	18'-0" x 17'-6"	315
6	14'-0" x 17'-6"	245
7	6'-6" x 5'-0"	32
8	5'-0" WIDE	230
9	17'-6" x 11'-6"	200
10	17'-6" x 11'-6"	200
11	10'-0" x 25'-0"	250
12	13'-0" x 9'-6"	123
13	11'-0" x 25'-0"	274
14	13'-0" x 4'-0"	52
15	9'-0" x 11'-6"	104
16	9'-0" x 8'-0"	72
17	9'-0" x 7'-0"	63
18	17'-6" x 13'-6"	236
19	17'-6" x 13'-6"	236
20	13'-0" x 11'-6"	150
TYPE II 1	12'-6" x 12'-6"	156
2	10'-6" x 12'-6"	131
3	10'-6" x 12'-6"	131
4	10'-0" x 12'-6"	125
5	10'-0" x 9'-6"	95
6	10'-6" x 12'-6"	131
7	23'-0" x 12'-6"	287
8	6'-6" x 5'-0"	32
9	5'-0" WIDE	435
10	12'-0" x 24'-6"	294
11	12'-0" x 24'-6"	294
12	15'-0" x 24'-6"	367
13	7'-0" x 24'-6"	173
14	15'-0" x 24'-6"	367
15	7'-0" x 8'-6"	59
16	7'-0" x 8'-6"	59
17	12'-0" x 16'-0"	192
18	14'-0" x 16'-0"	224
19	12'-0" x 8'-6"	102
TYPE III 1	17'-0" x 17'-6"	297
2	10'-6" x 17'-6"	184
3	18'-6" x 10'-0"	185
4	4'-6" x 7'-6"	34
5	14'-0" x 7'-6"	105
6	11'-0" x 17'-6"	192
7	11'-0" x 17'-6"	192
8	17'-0" x 17'-6"	294
9	13'-0" x 17'-6"	227
10	5'-6" WIDE	603
11	16'-6" x 10'-6"	163
12	18'-0" x 13'-6"	245
13	8'-0" x 13'-6"	108
14	10'-0" x 13'-6"	135
15	9'-6" x 13'-6"	129
16	10'-0" x 13'-6"	135
17	10'-6" x 13'-6"	142
18	21'-0" x 27'-0"	567
19	16'-0" x 24'-0"	384
20	10'-0" x 24'-0"	240
21	5'-0" WIDE	80
22	18'-0" x 19'-0"	342
23	18'-0" x 24'-0"	432
24	9'-0" x 10'-6"	95
25	9'-0" x 6'-6"	59
26	9'-0" x 7'-0"	63



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

SECURITY POLICE OPERATIONS
TYPES I, II & III

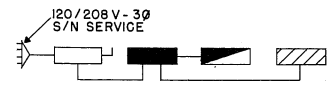
PLAN & SECTION

APPROVED
Daniel A. Spector, Col USAF
FOR CHIEF OF STAFF USAF

AD 30-02-59RI

SCALE: 1/8" = 1'-0"
DATE: 28 August 72

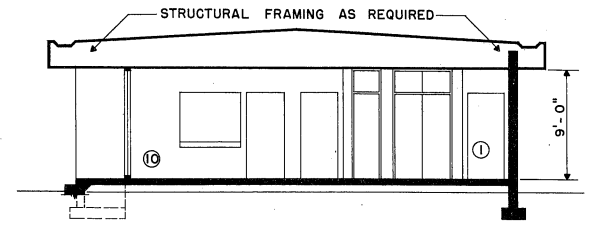
SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE: 3/16" = 1' - 0"

LEGEND

- C.C.C. CONTROL CENTER CONSOLE
- CONC. CONCRETE
- DIA. DIAMETER
- DN. DOWN
- ENTR. ENTRY
- E.W.C. ELECTRIC WATER COOLER
- F.D. FLOOR DRAIN
- J.C. JANITOR'S CLOSET
- LG. LONG
- SH. SHELVES
- S.S. SERVICE SINK
- STOR. STORAGE
- WOM. WOMEN

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 420-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	11	12.60	15.12	38.72
ESTIMATED DEMAND	11	11.97	13.6	36.57

WATER (GPM)	HOT	COLD	TOTAL
HOT	12		
COLD		54	
TOTAL			57

TOTAL (GPD)	SEWAGE (GPD)
13,500	9,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 150.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 11

AREA FOR PROGRAMMING GROSS AREA

2,500 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

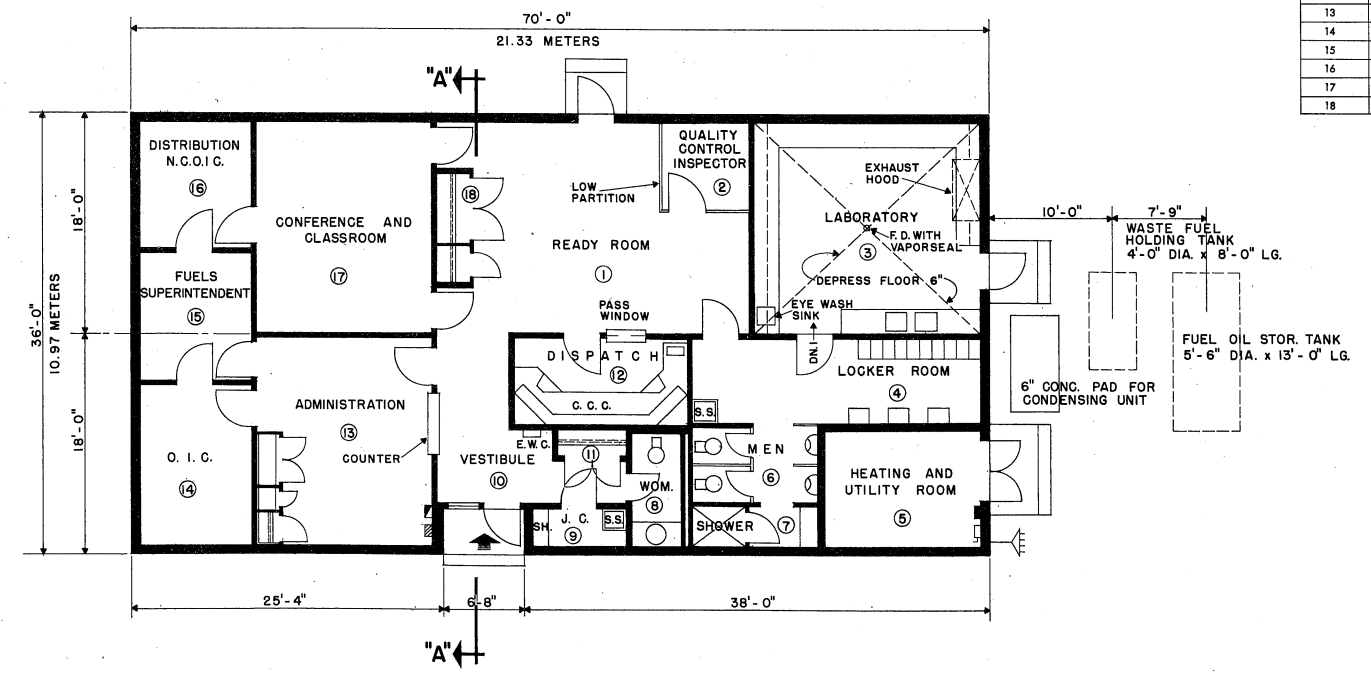
WORKING DRAWINGS

THIS DEFINITIVE DRAWING IS ISSUED FOR PROGRAMMING AND PLANNING ONLY. FOR CONSTRUCTION USE LATEST REVISION OF WORKING DRAWINGS NUMBERED AW 78-24-32.

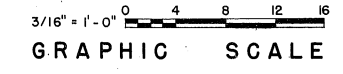
CATEGORY CODE NO. 121-111

THIS DEFINITIVE SUPERSEDES DRAWING AD 30-05-04 R1 DATED 26 FEBRUARY 1965.

ROOM NO.	DESCRIPTION	DIMENSIONS	AREAS
1	READY ROOM		325
2	QUALITY CONTROL INSPECTOR	7'-0" x 7'-0"	49
3	LABORATORY	18'-6" x 17'-6"	324
4	LOCKER ROOM	23'-6" x 7'-0"	165
5	HEATING AND UTILITY ROOM	12'-9" x 9'-6"	121
6	MEN'S TOILET	10'-0" x 6'-0"	60
7	SHOWER ROOM	10'-0" x 3'-6"	35
8	WOMEN'S TOILET	4'-0" x 9'-6"	38
9	JANITOR'S CLOSET	7'-6" x 3'-0"	23
10	VESTIBULE		158
11	CLOSET	5'-6" x 2'-0"	11
12	DISPATCH	14'-0" x 7'-0"	98
13	ADMINISTRATION	14'-0" x 17'-0"	238
14	O. I. C.	9'-0" x 13'-0"	117
15	FUELS SUPERINTENDENT	9'-0" x 10'-6"	95
16	DISTRIBUTION N.C.O.I.C.	9'-0" x 10'-3"	92
17	CONFERENCE AND CLASSROOM	14'-0" x 15'-3"	214
18	CLOSET	3'-0" x 9'-0"	27

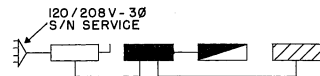


FLOOR PLAN
SCALE: 3/16" = 1' - 0"



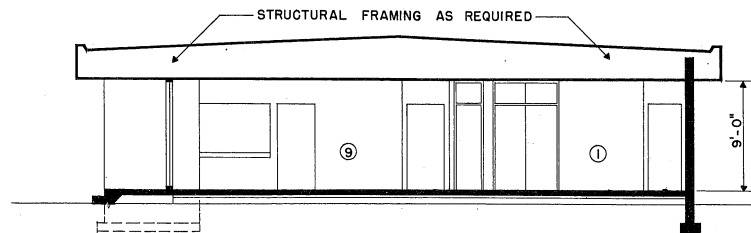
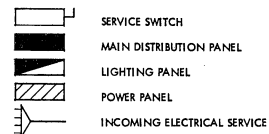
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
PETROLEUM OPERATIONS BUILDING 2,500 SQ. FT. BUILDING PLAN & SECTION			
APPROVED	SCALE: 3/16" = 1' - 0"	DATE: 1 May 1975	SHEET 1 OF 2
FOR CHIEF OF STAFF USAF		AD 30-05-04(R2)	

C2



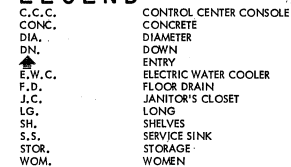
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 3/16" = 1'-0"

LEGEND



ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY	(KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		15	18.08	21.69	54.77
ESTIMATED DEMAND		15	17.17	19.52	51.69

WATER	(GPM)
HOT	13
COLD	60
TOTAL	62
TOTAL	(GPD) 15,750
SEWAGE	(GPD) 10,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 200.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 15

AREA FOR PROGRAMMING

GROSS AREA **3,600 SQ. FT.**

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

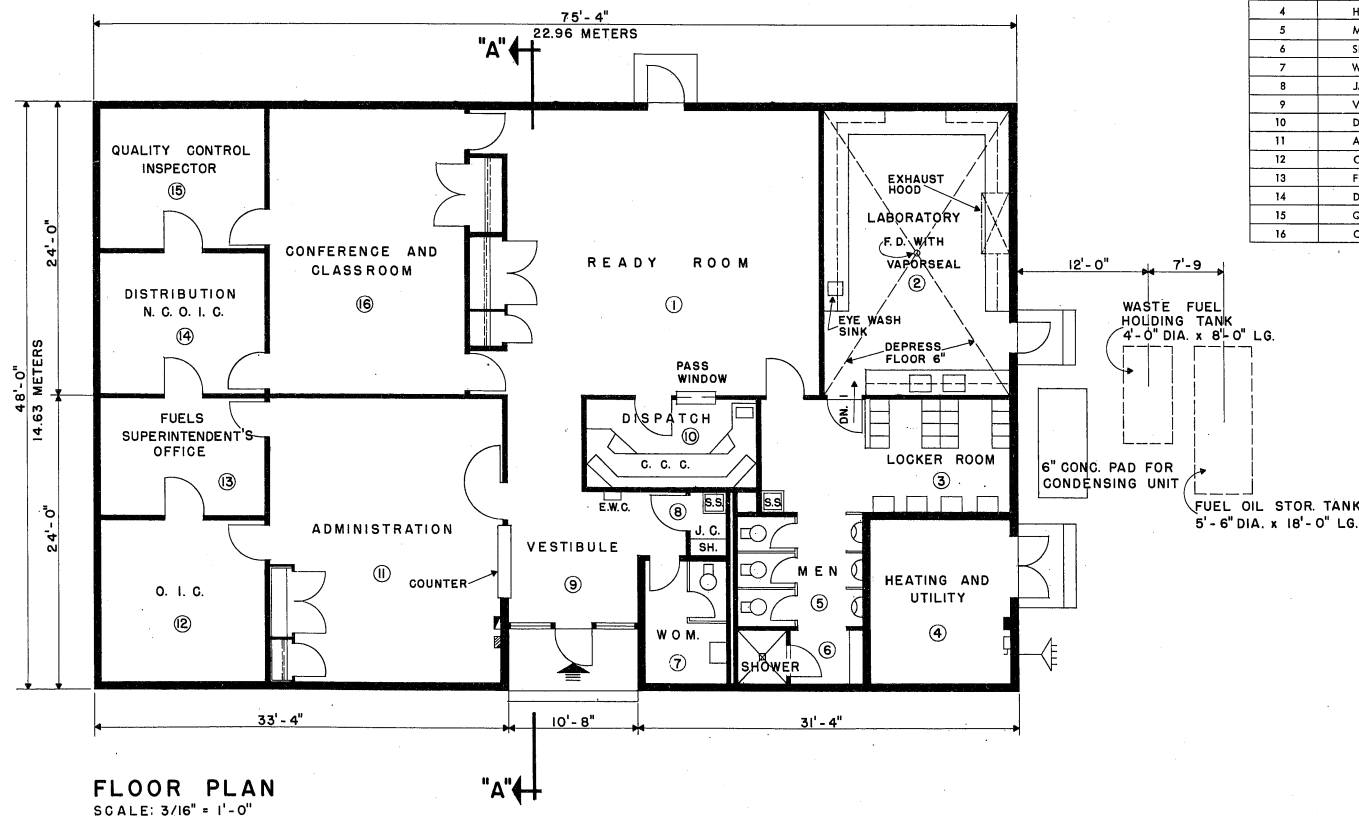
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

WORKING DRAWINGS

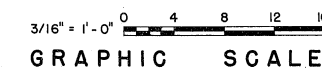
THIS DEFINITIVE DRAWING IS ISSUED FOR PROGRAMMING AND PLANNING ONLY. FOR CONSTRUCTION USE LATEST REVISION OF WORKING DRAWINGS NUMBERED AW 78-24-32.

CATEGORY CODE NO. 121-III
THIS DEFINITIVE SUPERSEDES DRAWING AD 30-05-04 R1 DATED 26 FEBRUARY 1965.

ROOM NO.	DESCRIPTION	DIMENSIONS	AREAS
1	READY ROOM	27'-0" x 23'-3"	628
2	LABORATORY	15'-3" x 23'-3"	355
3	LOCKER ROOM	20'-6" x 9'-3"	199
4	HEATING AND UTILITY ROOM	11'-6" x 13'-6"	155
5	MEN'S TOILET	10'-3" x 9'-0"	92
6	SHOWER	10'-3" x 4'-6"	46
7	WOMEN'S TOILET	6'-6" x 10'-0"	65
8	JANITOR'S CLOSET	3'-0" x 5'-3"	16
9	VESTIBULE		236
10	DISPATCH	14'-0" x 7'-0"	98
11	ADMINISTRATION	19'-0" x 23'-3"	442
12	O.I.C.	13'-6" x 13'-3"	179
13	FUELS SUPERINTENDENT'S OFFICE	13'-6" x 9'-6"	128
14	DISTRIBUTION N.C.O.I.C.	13'-6" x 11'-6"	155
15	QUALITY CONTROL INSPECTOR	13'-6" x 11'-6"	155
16	CONFERENCE AND CLASSROOM	17'-6" x 23'-0"	403

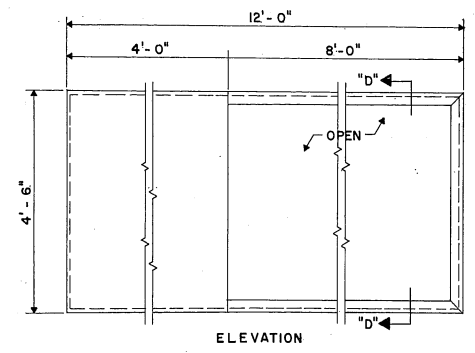


FLOOR PLAN
SCALE: 3/16" = 1'-0"

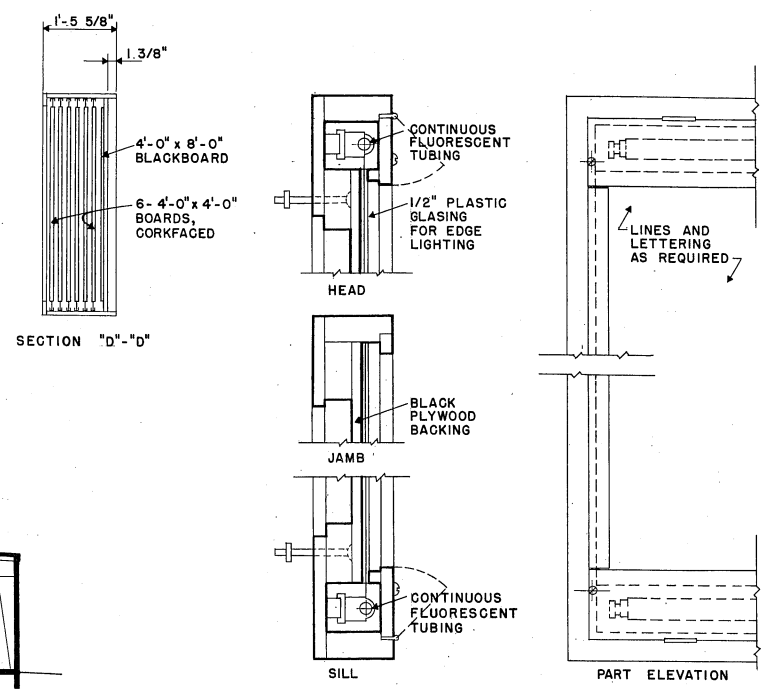


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
PETROLEUM OPERATIONS BUILDING 3,600 SQ. FT. BUILDING PLAN & SECTION			
APPROVED	SCALE: 3/16" = 1'-0"	DATE: 1 May 1975	SHEET 2 OF 2
FOR CHIEF OF STAFF USAF		AD 30-05-04(R2)	

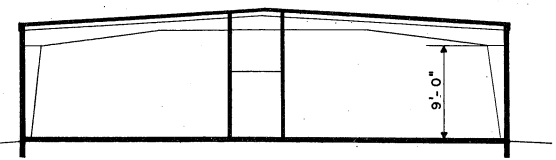
C2



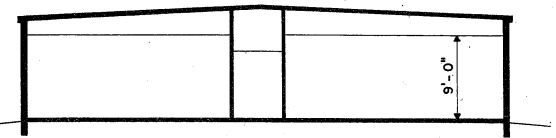
BRIEFING ROOM PANEL DETAIL
SCALE: 3/4" = 1'-0"
1. 4 PANELS REQUIRED (1 IN EACH BRIEFING ROOM)
2. FRAME CONSTRUCTED OF 3/4" PLYWOOD
3. 6- 4'-0" x 4'-0" BOARDS TO BE CORK FACED
4. BOARDS TO BE ON SLIDING DOOR ROLLERS AND GUIDES
5. BLACKBOARD TO BE 4'-0" x 8'-0" (FIXED)



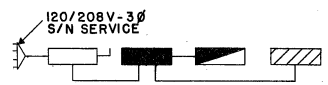
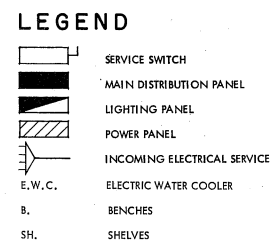
LIGHTED PANEL DETAIL
SCALE: 3" = 1'-0"
SIZE PANEL TO FIT DISPATCH WALL



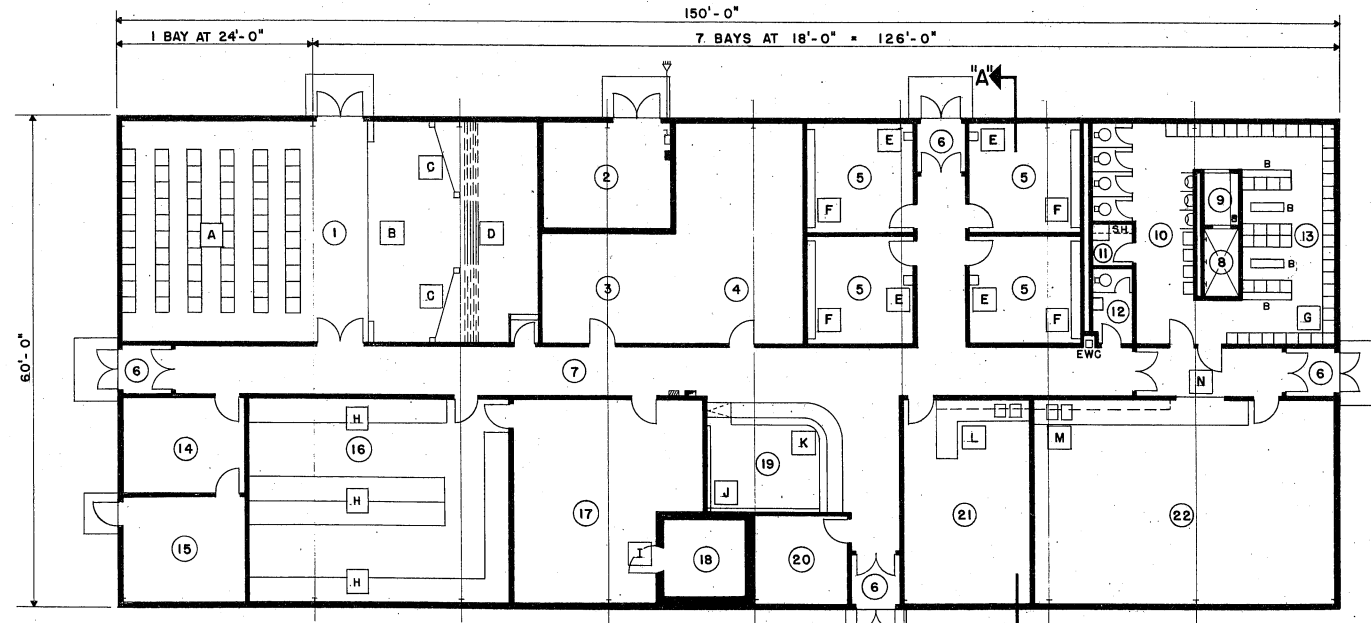
SECTION "A-A" (PRE-ENGINEERED)
SCALE: 1/8" = 1'-0"



SECTION "A-A" (STANDARD CONSTRUCTION)
SCALE: 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE



FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE: THE INTERIOR PARTITION ARRANGEMENT SHOWN IS BASED UPON 18 UE REGON. SQUADRON F-4 AND 24 UE SINGLE PLAGE A/C SQUADRON MISSION REQUIREMENTS BUT MAY BE ALTERED WHERE THE GROSS AREA IS SUITABLE FOR OTHER SQUADRON OPERATIONS MISSION REQUIREMENTS.

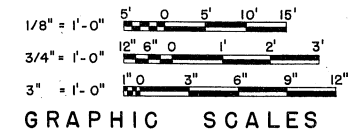
ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.
CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.
PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.
PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.
PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

NO.	DESCRIPTION	DIMENSIONS
1.	SQUADRON BRIEFING	27'-0" x 51'-0"
2.	HEATER & UTILITY	13'-0" x 15'-6"
3.	TRAINING & RECORDS	12'-6" x 16'-0"
4.	OPERATIONS ADMIN.	15'-8" x 27'-0"
5.	FLIGHT C.O. & BRIEFING	13'-0" x 13'-3"
6.	VESTIBULE	6'-0" x 6'-0"
7.	CORRIDOR	6'-0" WIDE
8.	SHOWER	4'-6" x 9'-0"
9.	DRYING AREA	4'-6" x 6'-6"
10.	MEN'S LATRINE	12'-0" x 27'-0"
11.	JANITOR'S CLOSET	5'-0" x 5'-0"
12.	WOMEN'S LATRINE	5'-0" x 9'-0"
13.	LOCKER ROOM	11'-0" x 27'-0"
14.	N.C.O.I.C.	11'-8" x 15'-0"
15.	SQUADRON C.O.	12'-8" x 15'-0"
16.	FLIGHT PLANNING	25'-0" x 32'-0"
17.	INTELLIGENCE	21'-0" x 25'-0"
18.	CLASS "A" VAULT	9'-6" x 10'-0"
19.	DISPATCH	13'-0" x 16'-6"
20.	OPERATIONS OFFICE	11'-0" x 11'-6"
21.	CREW READY ROOM	15'-6" x 25'-0"
22.	PERSONNEL EQUIPMENT	25'-0" x 37'-0"

NO.	ITEM
A.	FIXED CLASSROOM TYPE SEATS WITH FOLD-AWAY ARMS. 40 REQUIRED.
B.	PLATFORM
C.	8'-0" x 8'-0" REAR-VIEW PROJECTION SCREEN. 2 REQUIRED.
D.	6- 8'-0" x 8'-0" SLIDING PANELS WITH FLOOR TRACK.
E.	DISTR. BOXES (6" H x 12" W x 12" D) EACH WITH 12 COMPARTMENTS. 4 REQUIRED.
F.	BRIEFING ROOM PANELS. 4 REQUIRED. SEE DETAIL.
G.	18" x 18" LOCKERS. 53 REQUIRED.
H.	3'-0" WIDE STAND UP WORK TABLE.
I.	CLASS "A" SECURITY VAULT DOOR.
J.	LIGHTED PANEL. SEE DETAIL.
K.	COUNTER
L.	2'-0" COUNTER WITH DOUBLE SINK AND 12" WALL CABINETS.
M.	3'-0" WORK BENCH WITH DOUBLE SINK AND DRAWERS. WALL CABINETS ABOVE.
N.	6'-0" W.x 4'-0" H. PULL DOWN DOOR WITH LOCK.



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	45.0	36.0	117.0
ESTIMATED DEMAND	42.7	28.8	107.0

WATER (GPM)			
HOT	17		
COLD	65		
TOTAL	70		
TOTAL (GPD)	12,000		
SEWAGE (GPD)	8,000		

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB
TONS OF REFRIGERATION 36

AREA FOR PROGRAMMING GROSS AREA
9,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURE AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINA DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1. *LOAD ASSUMPTIONS FOR BUILDINGS*.

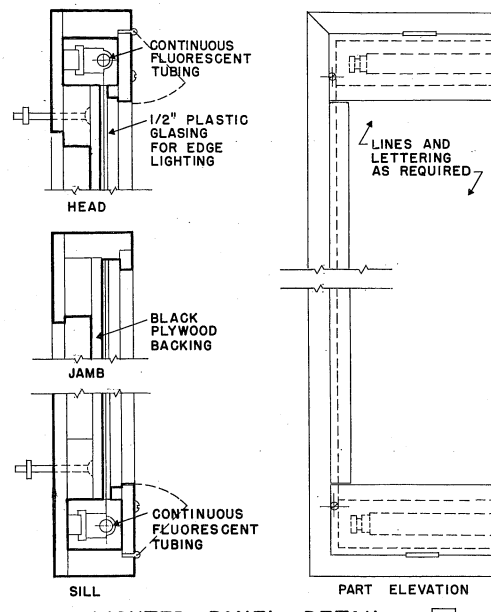
CATEGORY CODE NO. 141-753

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

SQUADRON OPERATIONS TYPE A
PLAN & SECTIONS

APPROVED: *Daniel J. ...*
DATE: 2/1/72
SCALE: AS SHOWN
SHEET 1 OF 1



LIGHTED PANEL DETAIL
SCALE: 3" = 1'-0"
SIZE PANEL TO FIT DISPATCH WALL

ROOM SCHEDULE		
NO.	DESCRIPTION	DIMENSIONS
1.	SQUADRON BRIEFING	27'-0" x 65'-6"
2.	HEATER & UTILITY	13'-0" x 18'-6"
3.	TRAINING & RECORDS	13'-0" x 19'-6"
4.	OPERATIONS ADMINISTRATION	15'-0" x 27'-0"
5.	FLIGHT C.O. & BRIEFING	13'-0" x 19'-6"
6.	VESTIBULE	6'-0" x 6'-0"
7.	CORRIDOR	6'-0" WIDE
8.	SHOWER	4'-6" x 9'-0"
9.	DRYING AREA	4'-6" x 6'-6"
10.	MEN'S LATRINE	12'-0" x 27'-0"
11.	JANITOR'S CLOSET	5'-0" x 5'-0"
12.	WOMEN'S LATRINE	5'-0" x 9'-0"
13.	LOCKER ROOM	15'-6" x 27'-0"
14.	N.C.O./I.C. & SECRETARY	11'-8" x 15'-0"
15.	SQUADRON C.O.	12'-8" x 15'-0"
16.	FLIGHT PLANNING	25'-0" x 32'-0"
17.	INTELLIGENCE	24'-6" x 25'-0"
18.	CLASS "A" VAULT	9'-6" x 10'-0"
19.	DISPATCH	13'-6" x 22'-0"
20.	OPERATIONS OFFICE	11'-0" x 11'-6"
21.	SAFETY/GUNNERY/STANDARDIZATION/TACTICS AND MAINTENANCE	17'-0" x 28'-0"
22.	CREW READY ROOM	21'-6" x 25'-0"
23.	PERSONNEL EQUIPMENT	25'-0" x 39'-6"

SPECIAL EQUIPMENT ITEMS	
NO.	ITEM
A.	FIXED CLASSROOM TYPE SEATS WITH FOLD-AWAY ARMS. 90 REQUIRED.
B.	PLATFORM
C.	8'-0" x 8'-0" REAR-VIEW PROJECTION SCREEN 2 REQUIRED.
D.	6 - 8'-0" x 8'-0" SLIDING PANELS WITH FLOOR TRACK.
E.	DISTR. BOXES (6" H x 12" W x 12" D) EACH WITH 12 COMPARTMENTS. 4 REQUIRED.
F.	BRIEFING ROOM PANELS. 4 REQUIRED. SEE DETAIL.
G.	18" x 18" LOCKERS. 80 REQUIRED.
H.	3'-0" WIDE STAND UP WORK TABLE.
I.	CLASS "A" SECURITY VAULT DOOR.
J.	LIGHTED PANEL. SEE DETAIL.
K.	COUNTER
L.	2'-4" COUNTER WITH DOUBLE SINK AND 12" WALL CABINETS.
M.	3'-0" WORK BENCH WITH DOUBLE SINK AND DRAWERS. WALL CABINETS ABOVE.
N.	6'-0" W x 4'-0" H PULL DOWN DOOR WITH LOCK.

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

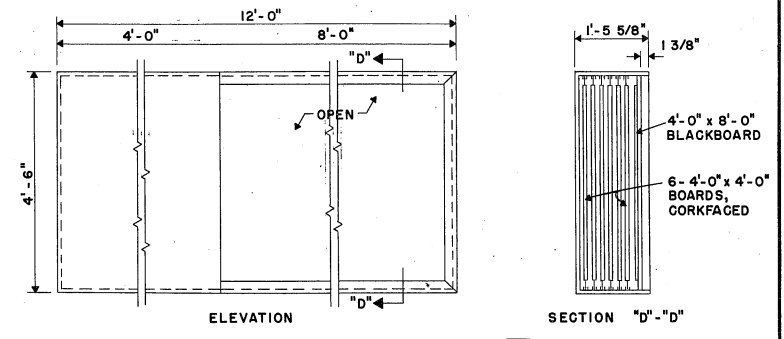
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

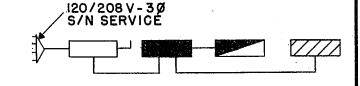
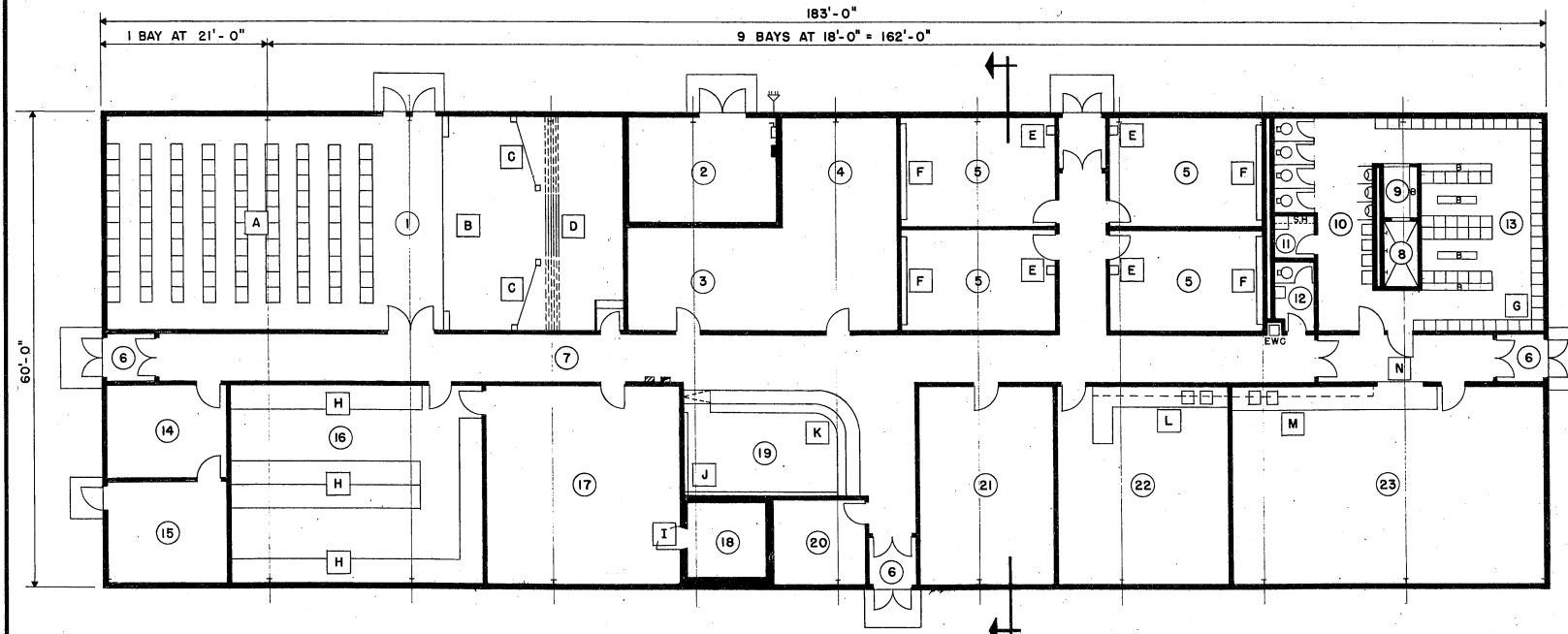
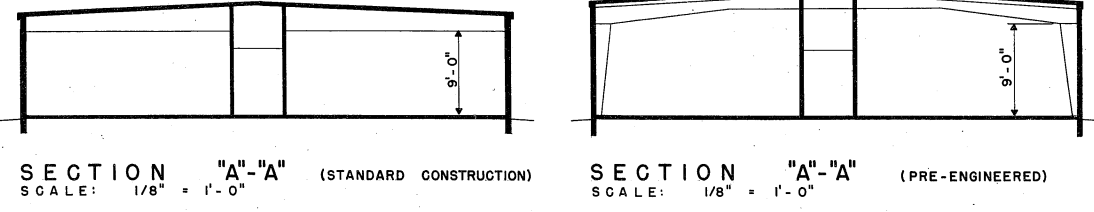
MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.



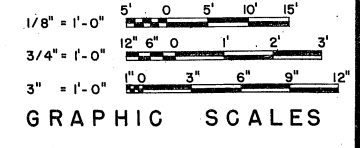
BRIEFING ROOM PANEL DETAIL
SCALE: 3/4" = 1'-0"
1. 4 PANELS REQUIRED (1 IN EACH BRIEFING ROOM)
2. FRAME CONSTRUCTED OF 3/4" PLY WOOD
3. 6-4'-0" x 4'-0" BOARDS TO BE CORK FACED
4. BOARDS TO BE ON SLIDING DOOR ROLLERS AND GUIDES
5. BLACKBOARD TO BE 4'-0" x 8'-0" (FIXED)



ELECTRICAL RISER DIAGRAM
NO SCALE

LEGEND

[Symbol]	SERVICE SWITCH
[Symbol]	MAIN DISTRIBUTION PANEL
[Symbol]	LIGHTING PANEL
[Symbol]	POWER PANEL
[Symbol]	INCOMING ELECTRICAL SERVICE
[Symbol]	ELECTRIC WATER COOLER
[Symbol]	E.W.C.
[Symbol]	BENCHES
[Symbol]	SH.
[Symbol]	SHelves



NOTE: THE INTERIOR PARTITION ARRANGEMENT SHOWN IS BASED UPON 24 U.E. DUAL PLACE AIRCRAFT RF-4 AND F-III SQUADRON MISSION REQUIREMENTS BUT MAY BE ALTERED WHERE THE GROSS AREA IS SUITABLE FOR OTHER SQUADRON OPERATIONS MISSION REQUIREMENTS.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	54.9	43.9	141.8
ESTIMATED DEMAND	51.9	35.1	130.0

WATER (GPM)	SEWAGE (GPD)
HOT	17
COLD	45
TOTAL	70
TOTAL (GPD) 12,000	
SEWAGE (GPD) 8,000	

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 554.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB
TONS OF REFRIGERATION 43

AREA FOR PROGRAMMING GROSS AREA
10,980 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1. "LOAD ASSUMPTIONS FOR BUILDINGS".

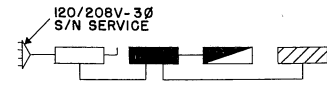
CATEGORY CODE NO. 141-753

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

SQUADRON OPERATIONS
TYPE B
PLAN & SECTIONS

APPROVED
Daniel J. Gaylor, Col.
FOR CHIEF OF STAFF USAF

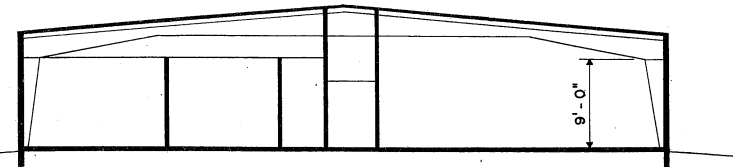
AD 30-10-22
SCALE: AS SHOWN
DATE: 2/1/72 SHEET 1 OF 1



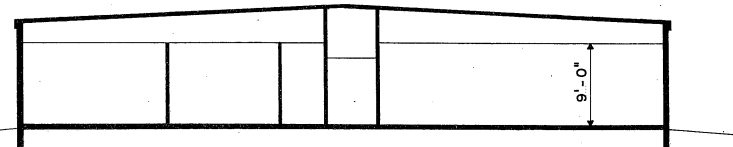
ELECTRICAL RISER DIAGRAM
NO SCALE

LEGEND

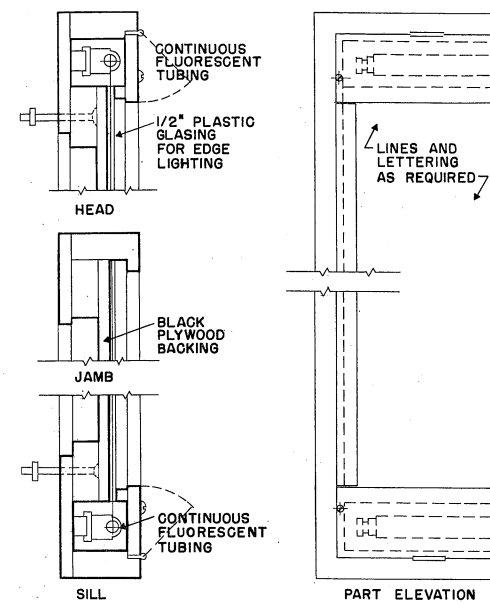
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER
- B. BENCHES
- S.H. SHELVES



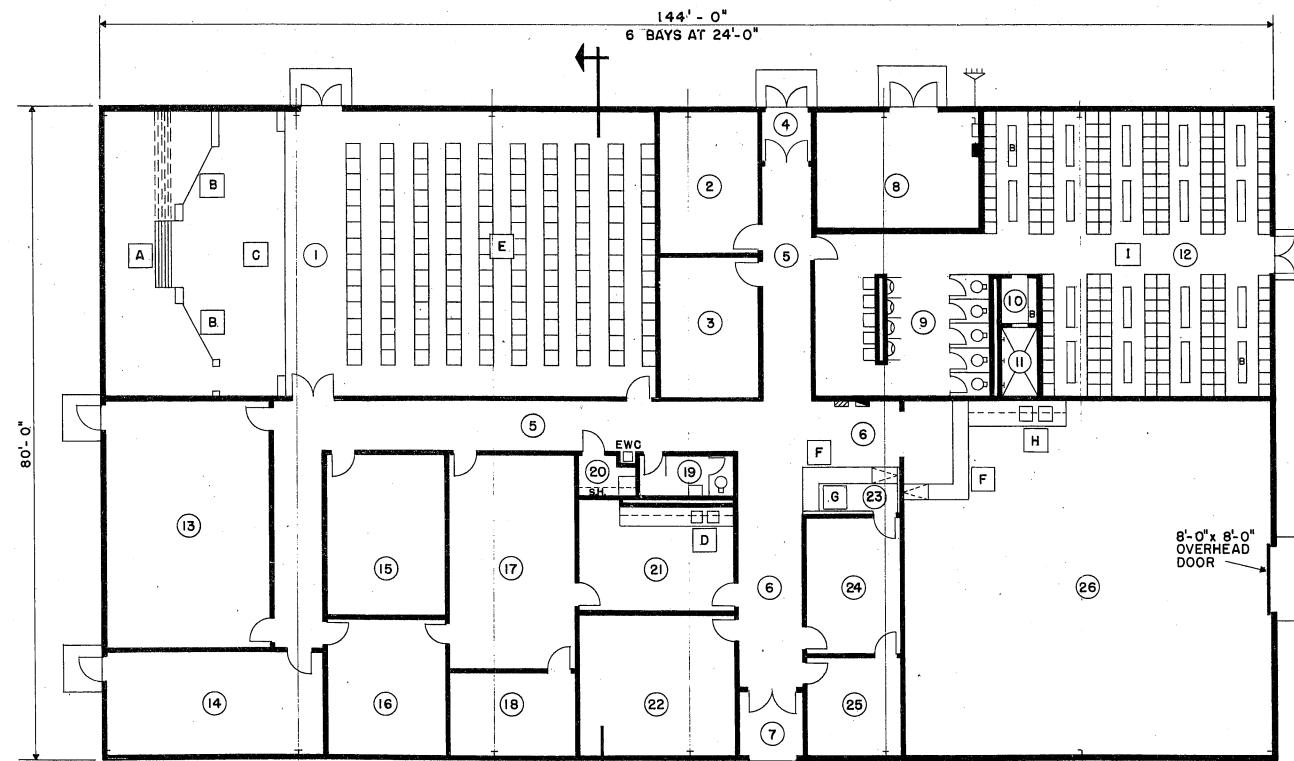
SECTION "A-A" (PRE-ENGINEERED)
SCALE: 1/8" = 1'-0"



SECTION A-A (STANDARD CONSTRUCTION)
SCALE: 1/8" = 1'-0"



LIGHTED PANEL DETAIL
SCALE: 3" = 1'-0"
SIZE PANEL TO FIT DISPATCH WALL



FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE: THE INTERIOR PARTITION ARRANGEMENT SHOWN IS BASED UPON C-130-E AIRCRAFT SQUADRON MISSION REQUIREMENTS BUT MAY BE ALTERED WHERE THE GROSS AREA IS SUITABLE FOR OTHER SQUADRON OPERATIONS MISSION REQUIREMENTS.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 422-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-9, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING POWER		TOTAL
	CONNECTED LOAD	ESTIMATED DEMAND	
	57.6	46.0	150.6
	54.8	36.8	138.5

WATER (GPH)	
HOT	17
COLD	70
TOTAL	75

TOTAL (GPD)	
TOTAL	21,000

SEWAGE (GPD)	
SEWAGE	14,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 576.3

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, W.B.
TONS OF REFRIGERATION 47

AREA FOR PROGRAMMING GROSS AREA

11,520 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

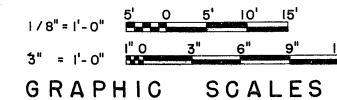
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 141-753

NO.	DESCRIPTION	DIMENSIONS
1.	SQUADRON BRIEFING	35'-0" x 67'-0"
2.	FLIGHT ENGINEER	12'-0" x 17'-0"
3.	LOADMASTER	12'-0" x 17'-0"
4.	VESTIBULE	6'-0" x 6'-0"
5.	CORRIDOR	6'-0" WIDE
6.	CORRIDOR	8'-0" WIDE
7.	VESTIBULE	8'-0" x 8'-0"
8.	HEATER & UTILITY	14'-0" x 20'-6"
9.	MEN'S LATRINE	20'-0" x 22'-0"
10.	DRYING AREA	4'-6" x 6'-0"
11.	SHOWER	4'-6" x 8'-6"
12.	LOCKER ROOM	35'-0" x 35'-0"
13.	ADMINISTRATION	20'-0" x 30'-0"
14.	C.O./CONFERENCE	12'-6" x 26'-6"
15.	CLASS/TRAINING	14'-6" x 19'-6"
16.	FLIGHT COMDR'S.	14'-6" x 16'-6"
17.	FLIGHT PLANNING	15'-6" x 26'-0"
18.	MAP/CHART STORAGE	10'-0" x 15'-6"
19.	LADIES' LATRINE	5'-0" x 11'-6"
20.	JANITOR'S CLOSET	5'-0" x 7'-0"
21.	CREW READY ROOM	13'-0" x 19'-0"
22.	OPERATIONS ADMIN./SAFETY	17'-0" x 19'-0"
23.	DISPATCH	5'-0" x 12'-0"
24.	SCHEDULING	11'-6" x 16'-6"
25.	OPERATIONS OFFICE	11'-6" x 12'-0"
26.	LIFE SUPPORT	43'-6" x 45'-0"

NO.	ITEM
A.	6 - 8'-0" x 8'-0" SLIDING PANELS WITH FLOOR TRACK.
B.	8'-0" x 8'-0" REAR-VIEW PROJECTION SCREEN 2 REQUIRED.
C.	PLATFORM
D.	2'-6" COUNTER WITH DOUBLE SINK AND 12" WALL CABINETS.
E.	FIXED CLASSROOM TYPE SEATS WITH FOLD-AWAY ARMS. 140 REQUIRED.
F.	COUNTER
G.	LIGHTED PANEL. SEE DETAIL.
H.	3'-0" WORK BENCH WITH DOUBLE SINK AND WALL CABINETS.
I.	18" x 18" LOCKERS (200 REQUIRED).



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

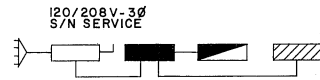
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

SQUADRON OPERATIONS TYPE C

PLAN & SECTIONS

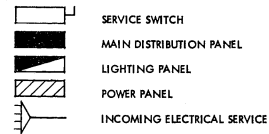
APPROVED <i>Daniel Spector, Col</i>	AD 30-10-23
FOR CHIEF OF STAFF USAF	SCALE AS SHOWN DATE: 2/1/72

SHEET 1 OF 1



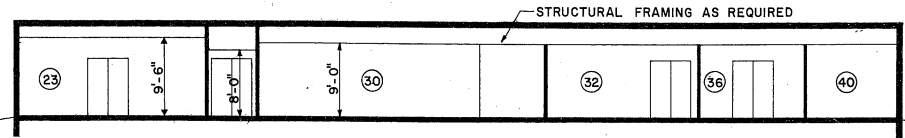
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

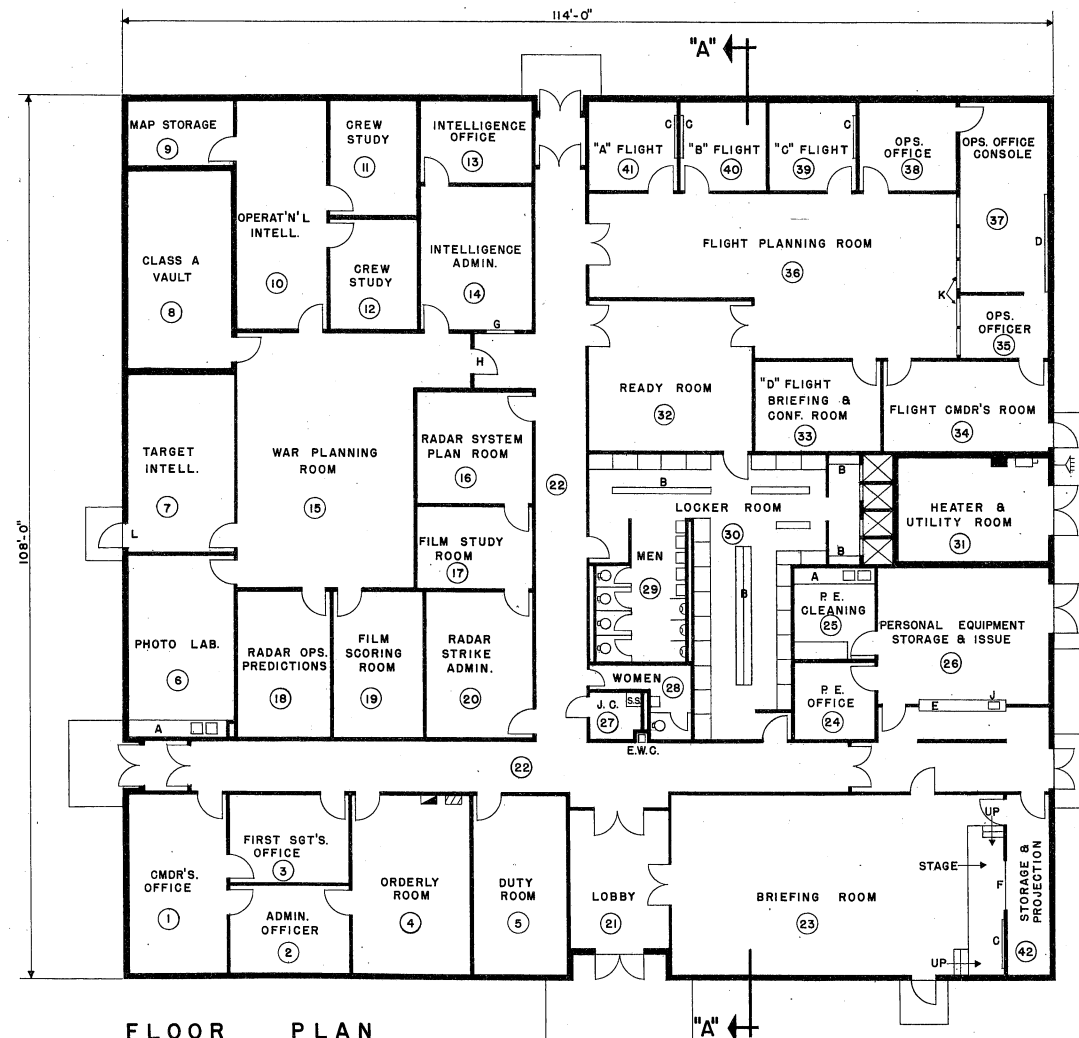


SPECIAL EQUIPMENT ITEMS

A	SINK AND COUNTER
B	BENCH
C	SLIDING PANEL
D	LIGHTED PANEL
E	COUNTER
F	PROJECTION SCREEN
G	ONE WAY MIRROR
H	SECURITY DOOR
J	OXYGEN TEST
K	GLASS PARTITION
L	EMERGENCY EXIT
	NO EXTERIOR HARDWARE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	COMMANDER'S OFFICE	12'-0" x 22'-0"	264
2	ADMINISTRATION OFFICER	10'-6" x 14'-6"	152
3	FIRST SERGEANT'S OFFICE	10'-6" x 14'-6"	152
4	ORDERLY ROOM	14'-6" x 22'-0"	319
5	DUTY ROOM	11'-6" x 22'-0"	253
6	PHOTO LAB	13'-0" x 22'-0"	286
7	TARGET INTELLIGENCE	13'-0" x 22'-0"	286
8	CLASS "A" VAULT	12'-8" x 24'-0"	304
9	MAP STORAGE	8'-0" x 13'-0"	104
10	OPERATIONAL INTELLIGENCE	11'-0" x 28'-0"	308
11	CREW STUDY	10'-8" x 14'-0"	150
12	CREW STUDY	10'-8" x 14'-0"	150
13	INTELLIGENCE OFFICE	10'-6" x 13'-8"	143
14	INTELLIGENCE ADMINISTRATION	13'-8" x 17'-6"	239
15	WAR PLANNING ROOM	21'-8" x 31'-4"	680
16	RADAR SYSTEM PLANNING ROOM	13'-8" x 14'-0"	191
17	FILM STUDY ROOM	10'-0" x 14'-0"	140
18	RADAR OPERATIONS PREDICTION	11'-4" x 18'-0"	204
19	FILM SCORING ROOM	11'-0" x 18'-0"	198
20	RADAR STRIKE ADMINISTRATION	13'-0" x 18'-0"	234
21	LOBBY	12'-0" x 17'-0"	204
22	CORRIDOR	6'-0" WIDE	
23	BRIEFING ROOM	22'-0" x 40'-8"	895
24	PERSONAL EQUIPMENT OFFICE	9'-8" x 10'-0"	97
25	PERSONAL EQUIPMENT CLEANING	10'-0" x 11'-6"	115
26	PERSONAL EQUIPMENT STORAGE & ISSUE	20'-8" x 21'-0"	434
27	JANITOR'S CLOSET	5'-8" x 6'-6"	37
28	WOMEN'S TOILET	5'-0" x 9'-4"	47
29	MEN'S TOILET	11'-6" x 25'-6"	305
30	LOCKER ROOM	12'-0" x 35'-0"	420
31	HEATING & UTILITY ROOM	13'-0" x 18'-6"	240
32	READY ROOM	18'-6" x 20'-0"	370
33	"D" FLIGHT	11'-4" x 15'-6"	176
34	FLIGHT COMMANDER'S ROOM	11'-4" x 20'-4"	230
35	OPERATIONS OFFICER	8'-0" x 11'-0"	88
36	FLIGHT PLANNING ROOM	16'-6" x 45'-0"	742
37	OPERATIONS OFFICE CONSOLE	11'-0" x 23'-6"	258
38	OPERATIONS OFFICE	11'-0" x 12'-0"	132
39	"C" FLIGHT	10'-8" x 11'-0"	117
40	"B" FLIGHT	10'-8" x 11'-0"	117
41	"A" FLIGHT	10'-8" x 11'-0"	117
42	STORAGE AND PROJECTION	5'-0" x 22'-0"	110

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	43	49.2	36.9	129.1
ESTIMATED DEMAND	43	46.7	29.6	119.3

WATER (GPM)	SEWAGE (GPD)
HOT	15
COLD	65
TOTAL	67
TOTAL	(GPD) 18,000
SEWAGE	(GPD) 12,000

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 565.2

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F WB
TONS OF REFRIGERATION 43

AREA FOR PROGRAMMING GROSS AREA 12,312 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

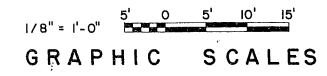
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

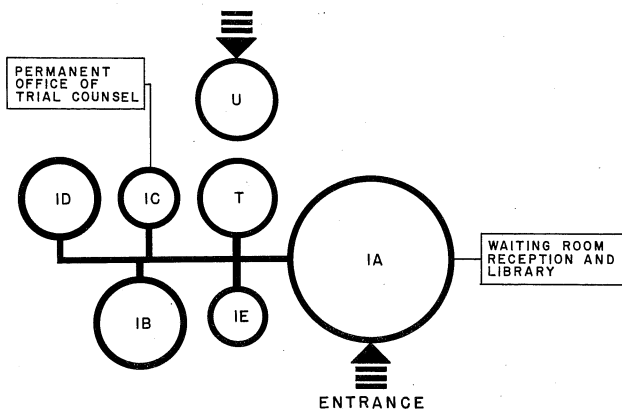
STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 141-753

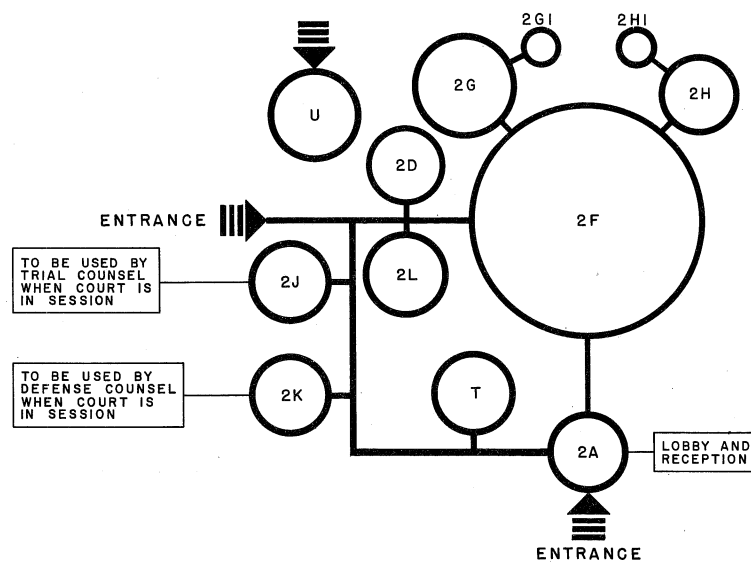
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
SQUADRON OPERATIONS			
F-III OVERSEAS			
PLAN & SECTION			

APPROVED <i>Richard B. ...</i>	AD 30-10-38
FOR CHIEF OF STAFF USAF	SCALE: 1/8" = 1'-0" DATE: 16 MARCH 73
	SHEET 1 OF 1

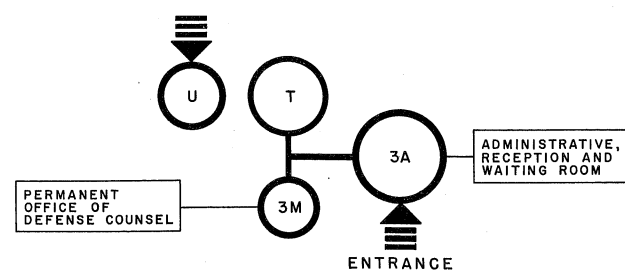




FACILITY NO. 1
INSTALLATIONS STAFF JUDGE ADVOCATE



FACILITY NO. 2
COURTROOM FACILITY



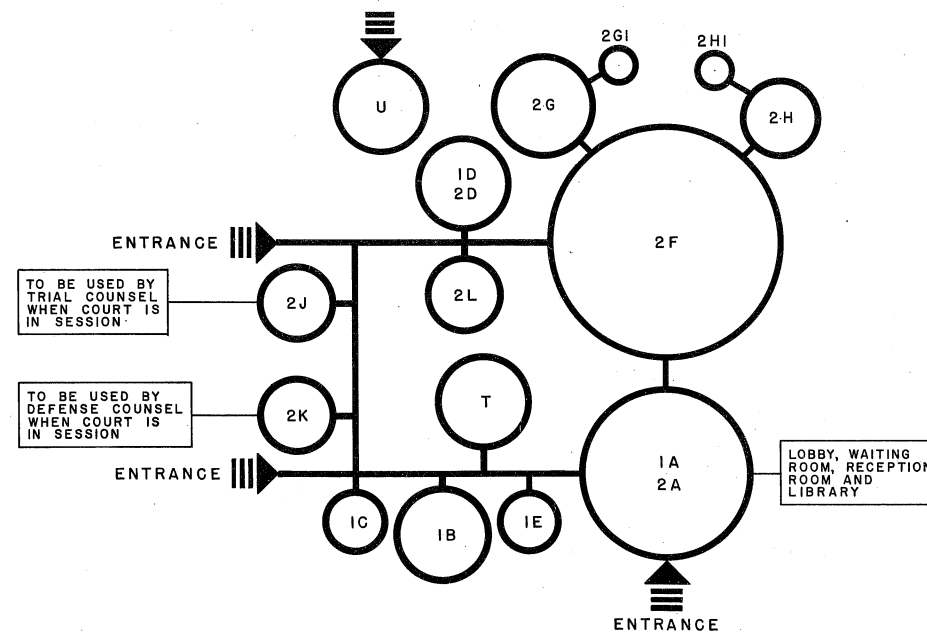
FACILITY NO. 3
BRANCH DEFENSE COUNSEL OFFICE

FACILITY NO. 1 INSTALLATIONS STAFF JUDGE ADVOCATE		
NUMBER	DESCRIPTION	NET AREA
1A	WAITING / RECEPTION / LIBRARY	600 - 700 S.F.
1B	PRIVATE OFFICE - STAFF JUDGE ADVOCATE	200 S.F.
1C	STAFF OFFICES (110 TO 120 S.F./INDIVIDUAL)	120 S.F.
1D	COURT REPORTER'S OFFICE	120 S.F.
1E	ADMINISTRATIVE AREA (80 TO 90 S.F./INDIVIDUAL)	90 S.F.
T	TOILETS (MEN, WOMEN & JANITOR'S CLOSET)	120 S.F.
U	UTILITY ROOM	120 S.F.

FACILITY NO. 2 COURTROOM FACILITY		
2A	LOBBY / RECEPTION	120 S.F.
2D	COURT REPORTER'S OFFICE	120 S.F.
2F	COURTROOM	1,200 S.F.
2G	DELIBERATION ROOM FOR COURT MEMBERS	220 S.F.
2G-1	PRIVATE TOILET, COURT MEMBERS	35 S.F.
2H	JUDGE'S OFFICE	140 S.F.
2H-1	PRIVATE TOILET, JUDGE	35 S.F.
2J	TRIAL COUNSEL'S CONVENIENCE OFFICE	140 S.F.
2K	DEFENSE COUNSEL'S CONVENIENCE OFFICE	140 S.F.
2L	WITNESS ROOM	150 S.F.
T	TOILETS (MEN, WOMEN & JANITOR'S CLOSET)	120 S.F.
U	UTILITY ROOM	200 S.F.

FACILITY NO. 3 BRANCH DEFENSE COUNSEL OFFICE		
3A	ADMINISTRATIVE / RECEPTION / WAITING	200 S.F.
3M	PRIVATE OFFICE - BRANCH DEFENSE COUNSEL	90 S.F.
T	TOILETS (MEN, WOMEN & JANITOR'S CLOSET)	120 S.F.
U	UTILITY ROOM	100 S.F.

NOTE: FOR EACH ADDITIONAL OFFICE REQUIRED, ADD 90 S.F.



COMBINED FACILITIES NO. 1 AND NO. 2

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15, AFM 86-2, TA-006 AND OTHER APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES

- ALL JUDGE ADVOCATE FACILITIES MUST REFLECT GOOD QUALITY CONSTRUCTION AND DESIGN, WHILE MAINTAINING THE PROPER DIGNITY AS BEFITS THE PROFESSIONAL IMAGE OF AIR FORCE LAWYERS.
- THE MOST DESIRABLE ARRANGEMENT IS TO PHYSICALLY SEPARATE THE THREE FACILITIES AND LOCATE THEM IN DIFFERENT BUILDINGS ON THE INSTALLATION.
- WHERE THIS IS NOT PRACTICAL, A COMBINATION FACILITY IS PERMITTED WITH THE COURTROOM FACILITY COMBINED WITH THE INSTALLATIONS STAFF JUDGE ADVOCATE (1 AND 2).
- STAFF JUDGE ADVOCATE (PROSECUTION) AND BRANCH DEFENSE COUNSEL CAN NOT SHARE THE SAME FACILITIES, AND WILL NOT BE COMBINED.
- WHERE A COMBINATION FACILITY IS USED, SEPARATE OUTSIDE ENTRANCES FOR EACH FACILITY WILL BE PROVIDED.
- WHERE A COMBINATION FACILITY IS USED, UTILITY AREAS WILL BE COMBINED WHEREVER POSSIBLE.
- NORMALLY, THERE WILL BE ONE COURTROOM AT AN INSTALLATION. WHERE AN INSTALLATION MAY BE ABLE TO JUSTIFY ADDITIONAL COURTROOMS, WHERE THERE IS A PARTICULARLY HIGH RATE OF COURTS-MARTIAL, APPROVAL MUST BE OBTAINED FROM HEADQUARTERS, USAF/JAJM.
- DEVIATIONS FROM THE FUNCTIONAL DIAGRAMS SHOWN WILL REQUIRE HQUSAF APPROVAL.

THIS DRAWING SUPERSEDES AIR FORCE DEFINITIVE DRAWING NUMBER AD 30-02-63.

CATEGORY CODE NO. 610-III

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

JUDGE ADVOCATE FACILITIES
FUNCTIONAL RELATIONSHIP DIAGRAMS

APPROVED	SCALE: NONE	SHEET 1 OF 2
<i>George J. Richard, Jr.</i> LT COL, US AF FOR CHIEF OF STAFF USAF	DATE: 1 April 1975	AD 30-16-03

C2

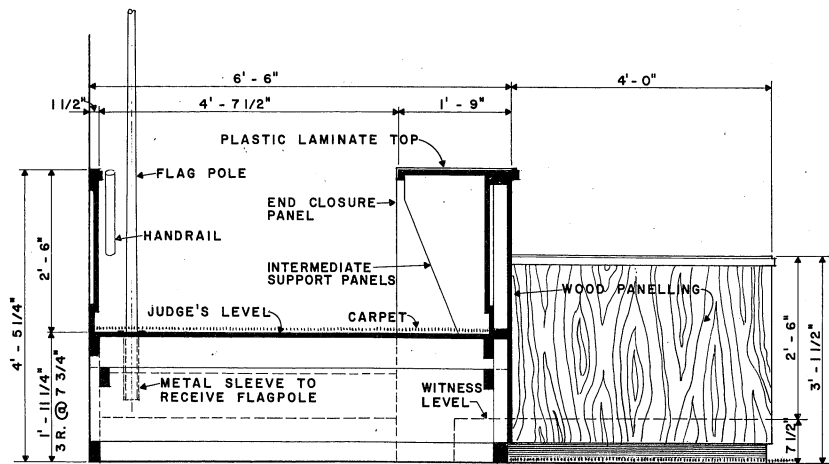
PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

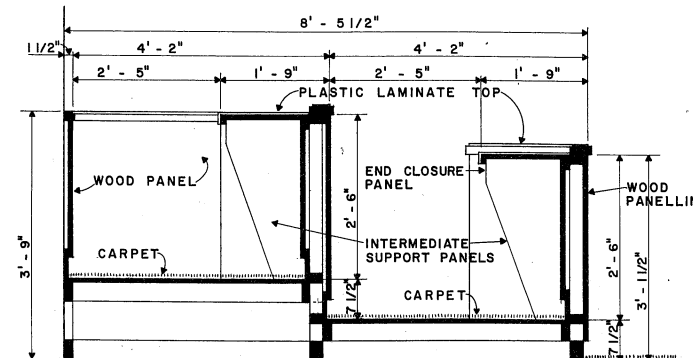
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA, SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES

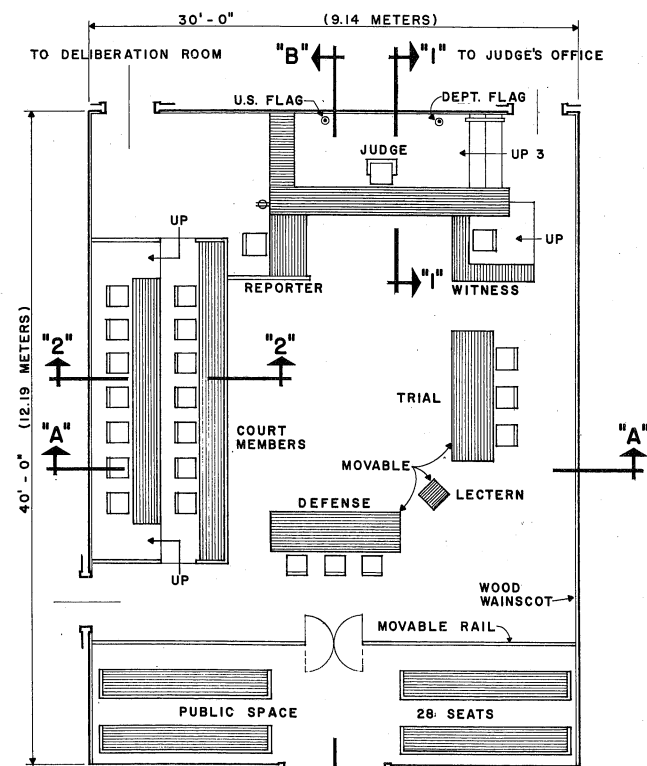
1. THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED REPRESENTS THE DESIRED GENERAL ARRANGEMENT OF A COURTROOM AND SHOULD BE FOLLOWED AS CLOSELY AS IS FEASIBLE.
2. DESIGN SHOWN HAS BEEN DEVELOPED FOR USE IN ALTERATION AND UPGRADING OF EXISTING COURTROOMS AND CONVERSION OF EXISTING STRUCTURES INTO COURTROOMS.
3. THE ESTHETIC DESIGN OF COURTROOM EQUIPMENT AS SHOWN IS SUGGESTED AND MAY VARY ACCORDING TO LOCAL PREFERENCE. IF PANELING IS USED, SOLID WOOD (NOT LAMINATED) IS PREFERRED. IF AN EFFECT IS OBTAINED BY APPLYING WOOD MOULDINGS, A PLYWOOD VENEER MAY BE USED. NATURAL FINISHES ARE PREFERRED AS THEY DO NOT READILY SHOW SCUFF MARKS AS DO PAINTED FINISHES. WHATEVER MATERIAL AND DESIGN IS USED, IT IS DESIRED THAT THE FINISH CABINET WORK HAVE AN ATTRACTIVE, PLEASING AND PROFESSIONAL APPEARANCE.
4. PROVIDE COMMUNICATION SYSTEM AT JUDGE'S BENCH, WITNESS STAND, REPORTER, AND DEFENSE AND TRIAL COUNSEL AREAS.
5. PROVIDE ELECTRIC POWER CONVENIENT TO COURT REPORTER.
6. PROVIDE CONVENIENCE OUTLET FOR COURT REPORTER IN JUDGE'S BENCH.



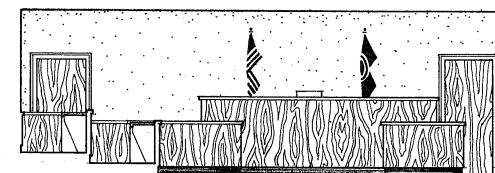
SECTION "1" - "1"
SCALE: 1" = 1'-0"



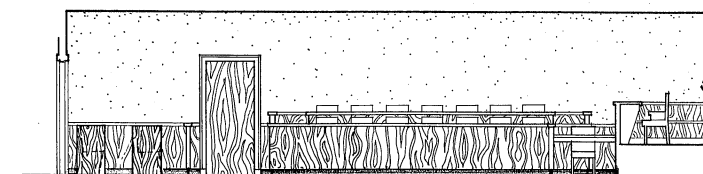
SECTION "2" - "2"
SCALE: 1" = 1'-0"



FLOOR PLAN
SCALE: 1/4" = 1'-0"

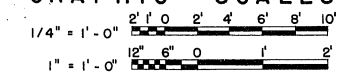


SECTION "A" - "A"
SCALE: 1/4" = 1'-0"



SECTION "B" - "B"
SCALE: 1/4" = 1'-0"

GRAPHIC SCALES



CATEGORY CODE NO. 610-112

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA

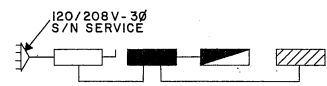
JUDGE ADVOCATE FACILITIES
COURTROOM

APPROVED	SCALE AS SHOWN	SHEET 2 OF 2
DATE 11/20/1975		

Henry A. Peake, Jr.
FOR CHIEF OF STAFF USAF

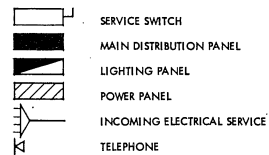
AD 30-16-03

C2



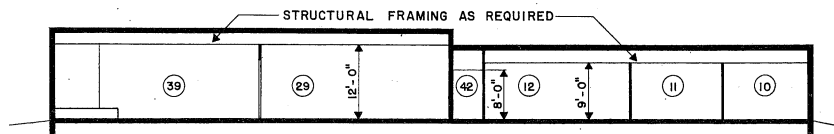
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

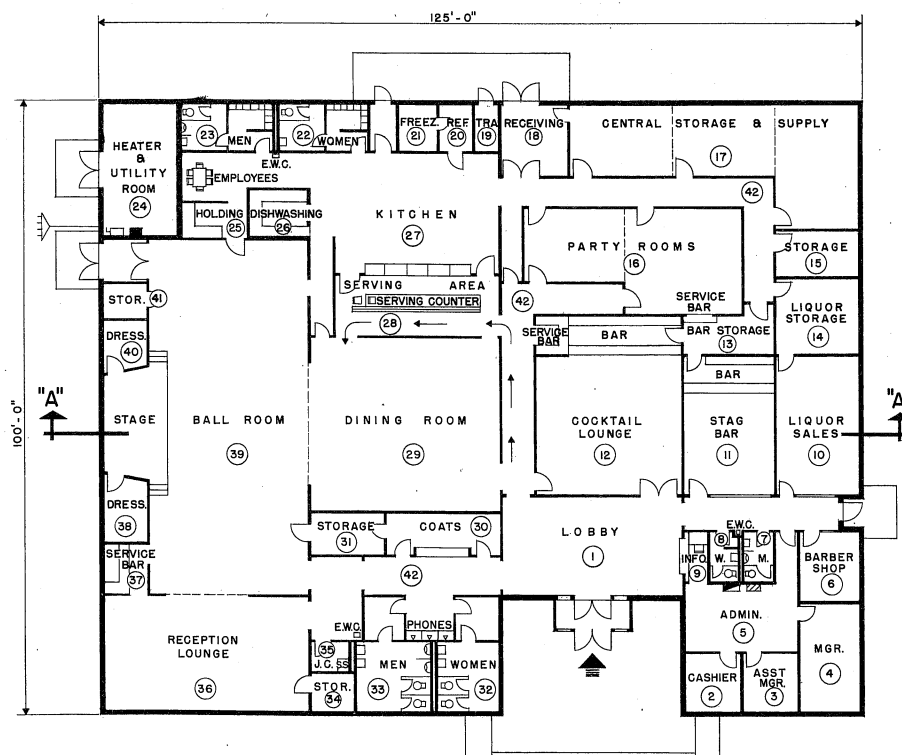


LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- FREEZ. FREEZER
- INFO: INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- MGR. MANAGER
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- STOR. STORAGE
- TRA. TRASH
- W. WOMEN



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN TYPE I
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	45	96	72	213
ESTIMATED DEMAND	45	76.8	64.8	186.6

WATER (GPM)	SEWAGE (GPD)
HOT	18
COLD	78
TOTAL	82
TOTAL (GPD)	27,000
SEWAGE (GPD)	18,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 605

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 45.0

AREA FOR PROGRAMMING GROSS AREA 12,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

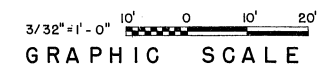
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:

CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

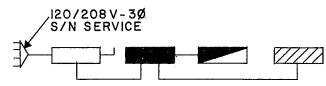
NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	29'-4" x 14'-0"	469
2	CASHIER	9'-0" x 9'-6"	85
3	ASST. MANAGER	9'-0" x 9'-6"	85
4	MANAGER	9'-0" x 17'-0"	158
5	ADMINISTRATION	18'-0" x 14'-6"	261
6	BARBER SHOP	9'-0" x 11'-0"	99
7	MEN	4'-9" x 8'-0"	38
8	WOMEN	4'-9" x 8'-0"	38
9	INFORMATION	3'-9" x 8'-0"	30
10	LIQUOR SALES	13'-6" x 22'-6"	303
11	STAG BAR	14'-9" x 22'-6"	332
12	COCKTAIL LOUNGE	23'-6" x 22'-6"	528
13	BAR STORAGE	14'-9" x 6'-0"	88
14	LIQUOR STORAGE	13'-6" x 12'-3"	165
15	STORAGE	13'-6" x 7'-6"	101
16	PARTY ROOMS	35'-6" x 14'-0"	497
17	CENTRAL STORAGE & SUPPLY	47'-0" x 14'-0"	658
18	RECEIVING ROOM	11'-0" x 11'-6"	127
19	TRASH	4'-0" x 7'-6"	30
20	REFRIGERATOR	5'-0" x 7'-6"	37
21	FREEZER	6'-3" x 7'-6"	47
22	WOMEN	14'-3" x 7'-6"	109
23	MEN	15'-0" x 7'-6"	112
24	HEATER & UTILITY ROOM	12'-0" x 21'-3"	255
25	HOLDING	10'-6" x 5'-6"	58
26	DISH WASHING	9'-3" x 8'-0"	74
27	KITCHEN	41'-0" x 19'-6"	800
28	SERVING AREA	27'-0" x 9'-0"	263
29	DINING ROOM	31'-0" x 28'-0"	868
30	COATS	18'-6" x 6'-6"	120
31	STORAGE	12'-0" x 6'-6"	78
32	WOMEN	10'-0" x 14'-0"	140
33	MEN	12'-0" x 14'-0"	168
34	STORAGE	7'-0" x 6'-0"	42
35	JANITOR'S CLOSET	6'-6" x 5'-0"	33
36	RECEPTION LOUNGE	33'-0" x 18'-6"	610
37	SERVICE BAR	7'-0" x 8'-0"	56
38	DRESSING ROOM	7'-0" x 9'-0"	63
39	BALL ROOM	26'-0" x 57'-6"	1,495
40	DRESSING ROOM	7'-0" x 7'-6"	53
41	STORAGE	7'-0" x 5'-6"	38
42	CORRIDOR	---	931

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
OFFICERS' / NCO CLUB TYPE I 12,000 SQ. FT. PLAN & SECTION			
APPROVED <i>Richard B. Keady, USAF</i> FOR CHIEF OF STAFF USAF	AD 31-02-50 SCALE: 3/32" = 1'-0" DATE: 14/March 73		SHEET 1 OF 6

C2



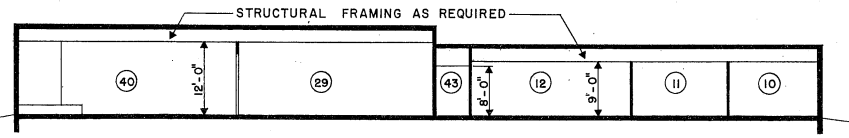
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

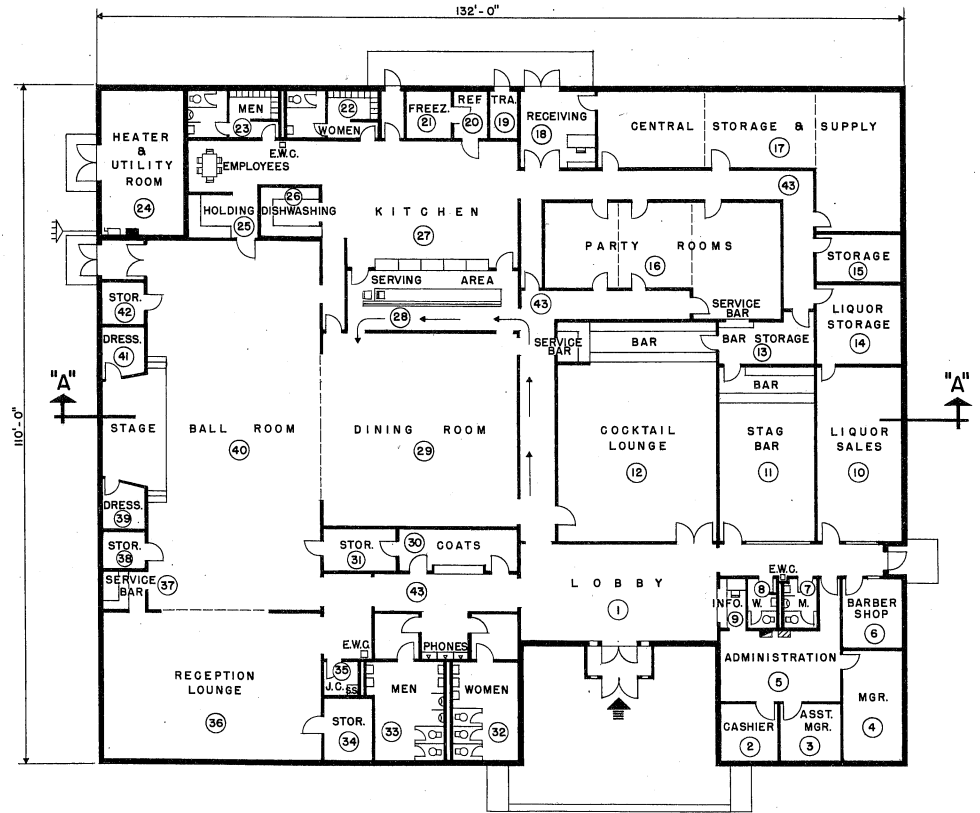


LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- FREEZ. FREEZER
- INFO. INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- MGR. MANAGER
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- STOR. STORAGE
- TRA. TRASH
- W. WOMEN



SECTION "A" - "A"
SCALE 3/32" = 1'-0"



FLOOR PLAN TYPE 2
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		55	112.0	84	251
ESTIMATED DEMAND		55	89.6	75.6	220.2

	WATER (GPM)
HOT	25
COLD	80
TOTAL	85

	TOTAL (GPD)	29,450
SEWAGE (GPD)	19,500	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR=705

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 55.0

AREA FOR PROGRAMMING
GROSS AREA 14,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

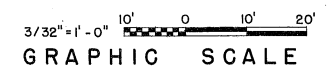
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:

CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

ROOM SCHEDULE			
NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	32'-0" x 16'-0"	512
2	CASHIER	9'-4" x 9'-6"	89
3	ASST. MANAGER	9'-10" x 9'-6"	93
4	MANAGER	9'-10" x 18'-0"	177
5	ADMINISTRATION	19'-8" x 12'-11"	254
6	BARBER SHOP	9'-10" x 11'-4"	111
7	MEN	5'-4" x 8'-0"	43
8	WOMEN	4'-10" x 8'-0"	39
9	INFORMATION	4'-2" x 8'-0"	33
10	LIQUOR SALES	13'-10" x 28'-4"	391
11	STAG BAR	15'-8" x 28'-4"	443
12	COCKTAIL LOUNGE	26'-0" x 35'-8"	927
13	BAR STORAGE	15'-8" x 7'-9"	121
14	LIQUOR STORAGE	13'-10" x 13'-0"	180
15	STORAGE	13'-10" x 8'-0"	111
16	PARTY ROOMS	38'-8" x 15'-11"	615
17	CENTRAL STORAGE & SUPPLY	49'-6" x 13'-4"	659
18	RECEIVING ROOM	12'-2" x 12'-6"	152
19	TRASH	4'-6" x 7'-10"	35
20	REFRIGERATOR	5'-6" x 7'-10"	43
21	FREEZER	7'-6" x 7'-10"	43
22	WOMEN	14'-10" x 7'-10"	118
23	MEN	14'-10" x 7'-10"	112
24	HEATER & UTILITY ROOM	13'-6" x 23'-10"	320
25	HOLDING	11'-6" x 7'-0"	81
26	DISHWASHING	9'-8" x 8'-2"	79
27	KITCHEN	40'-4" x 20'-8"	834
28	SERVING AREA	27'-10" x 9'-10"	274
29	DINING ROOM	32'-0" x 31'-6"	1,008
30	COATS	19'-6" x 6'-10"	133
31	STORAGE	12'-0" x 6'-10"	82
32	WOMEN	10'-10" x 21'-3"	230
33	MEN	12'-0" x 21'-6"	258
34	STORAGE	8'-0" x 10'-0"	80
35	JANITOR'S CLOSET	5'-8" x 5'-6"	31
36	RECEPTION LOUNGE	35'-6" x 23'-10"	846
37	SERVICE BAR	7'-0" x 6'-4"	44
38	STORAGE	7'-0" x 6'-0"	42
39	DRESSING ROOM	7'-0" x 8'-0"	56
40	BALL ROOM	30'-4" x 60'-2"	1,825
41	DRESSING ROOM	7'-0" x 8'-0"	56
42	STORAGE	7'-0" x 7'-0"	49
43	CORRIDOR		1,290

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

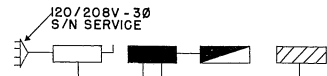
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

OFFICERS' / NCO CLUB
TYPE 2 14,000 SQ. FT.
PLAN & SECTION

APPROVED
Robert B. ... USAF
FOR CHIEF OF STAFF USAF

AD 31-02-50
SCALE: 3/32" = 1'-0"
DATE: 16 March 73

SHEET 2 OF 6



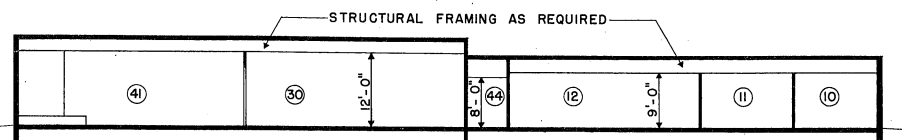
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

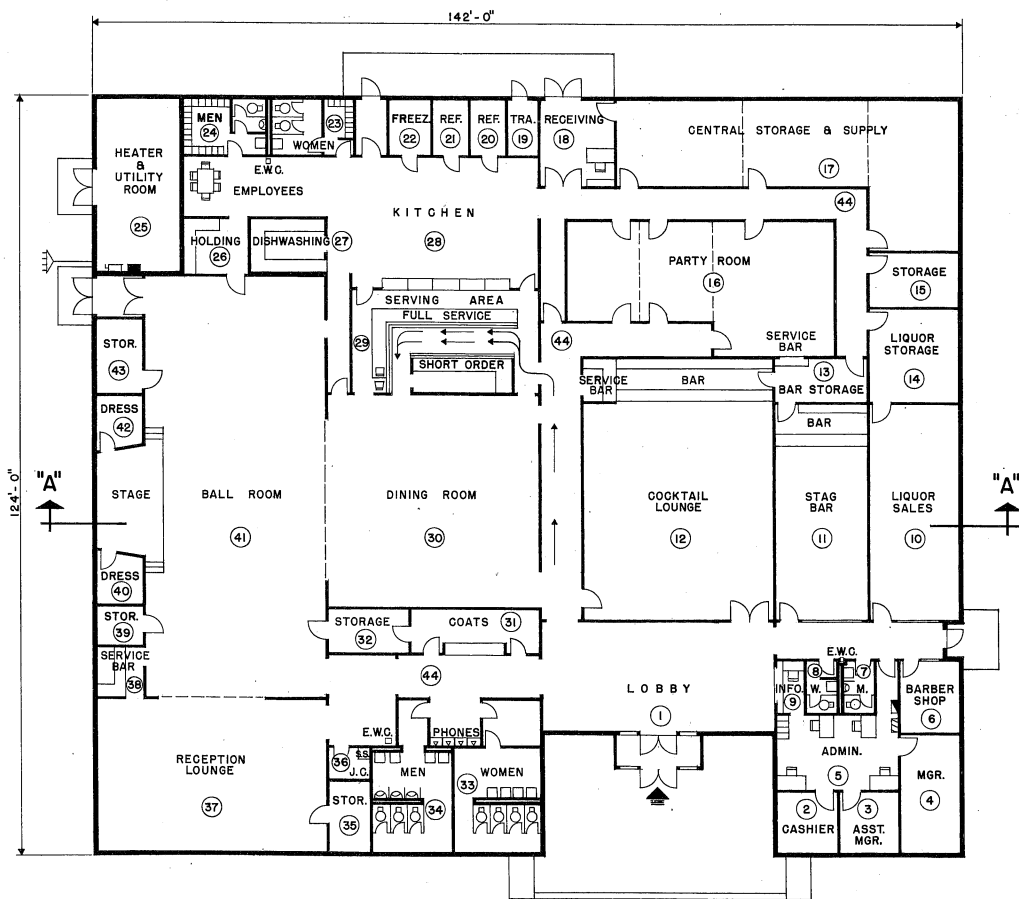
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE

LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- FREEZ. FREEZER
- INFO. INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- MGR. MANAGER
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- STOR. STORAGE
- TRA. TRASH
- W. WOMEN



SECTION "A" - "A"
SCALE 3/32" = 1'-0"



FLOOR PLAN TYPE 3
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65	134	100	299
ESTIMATED DEMAND	65	107	90	262

WATER (GPM)	HOT	COLD	TOTAL
HOT	28	63	93
TOTAL (GPD)	33,750		

SEWAGE (GPD)	TOTAL
22,500	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 839

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 65.0

AREA FOR PROGRAMMING GROSS AREA 16,800 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

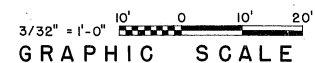
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:

CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	37'- 8" x 17'- 6"	659
2	CASHIER	9'-10" x 9'-10"	97
3	ASST. MANAGER	9'- 6" x 9'-10"	93
4	MANAGER	9'- 8" x 19'- 0"	192
5	ADMINISTRATION	19'- 8" x 13'- 8"	269
6	BARBER SHOP	9'- 8" x 11'- 8"	113
7	MEN	4'-10" x 8'- 6"	41
8	WOMEN	4'-10" x 8'- 6"	41
9	INFORMATION	4'- 6" x 8'- 6"	38
10	LIQUOR SALES	14'- 6" x 35'- 0"	508
11	STAG BAR	15'- 0" x 35'- 0"	525
12	COCKTAIL LOUNGE	30'-10" x 42'- 6"	1,310
13	BAR STORAGE	15'- 0" x 7'- 0"	105
14	LIQUOR STORAGE	14'- 6" x 15'- 4"	222
15	STORAGE	14'- 6" x 8'- 6"	123
16	PARTY ROOMS	43'- 0" x 18'- 8"	805
17	CENTRAL STORAGE & SUPPLY	55'- 6" x 16'- 8"	930
18	RECEIVING ROOM	11'- 8" x 14'- 0"	163
19	TRASH	5'- 0" x 9'- 0"	45
20	REFRIGERATOR	5'- 6" x 9'- 0"	50
21	REFRIGERATOR	5'- 6" x 9'- 0"	50
22	FREEZER	6'-10" x 9'- 0"	61
23	WOMEN	13'- 0" x 9'- 0"	117
24	MEN	13'- 4" x 9'- 0"	120
25	HEATER & UTILITY ROOM	13'- 6" x 28'- 4"	382
26	HOLDING	10'- 4" x 9'- 0"	93
27	DISHWASHING	12'- 0" x 9'- 0"	108
28	KITCHEN	45'- 0" x 21'- 6"	1,161
29	SERVING AREA	30'- 6" x 16'- 6"	503
30	DINING ROOM	34'- 6" x 34'- 6"	1,190
31	COATS	21'- 0" x 7'- 0"	147
32	STORAGE	13'- 0" x 7'- 0"	91
33	WOMEN	14'- 0" x 22'- 6"	315
34	MEN	12'-10" x 20'- 0"	257
35	STORAGE	6'- 6" x 11'- 6"	75
36	JANITOR'S CLOSET	6'- 6" x 5'- 0"	33
37	RECEPTION LOUNGE	37'- 0" x 24'- 6"	907
38	SERVICE BAR	7'- 6" x 7'- 8"	58
39	STORAGE	7'- 6" x 6'- 5"	49
40	DRESSING ROOM	7'- 6" x 8'- 0"	60
41	BALL ROOM	31'- 6" x 68'- 6"	2,158
42	DRESSING ROOM	7'- 6" x 8'- 0"	60
43	STORAGE	7'- 6" x 12'- 0"	90
44	CORRIDOR		1,511

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

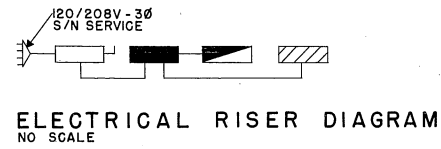
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

OFFICERS' / NCO CLUB
TYPE 3 16,800 SQ. FT.
PLAN & SECTION

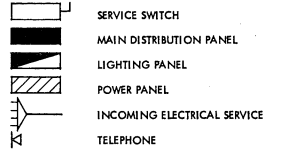
APPROVED
Richard B. [Signature]
FOR CHIEF OF STAFF USAF

AD 31-02-50
SCALE 3/32" = 1'-0"
DATE: 16/11/73

SHEET 3 OF 6

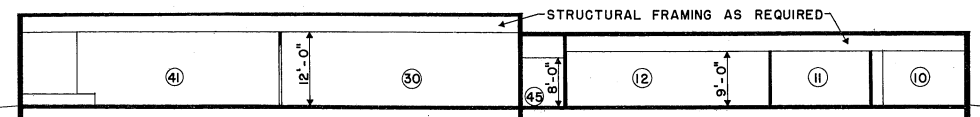


ELECTRICAL LEGEND

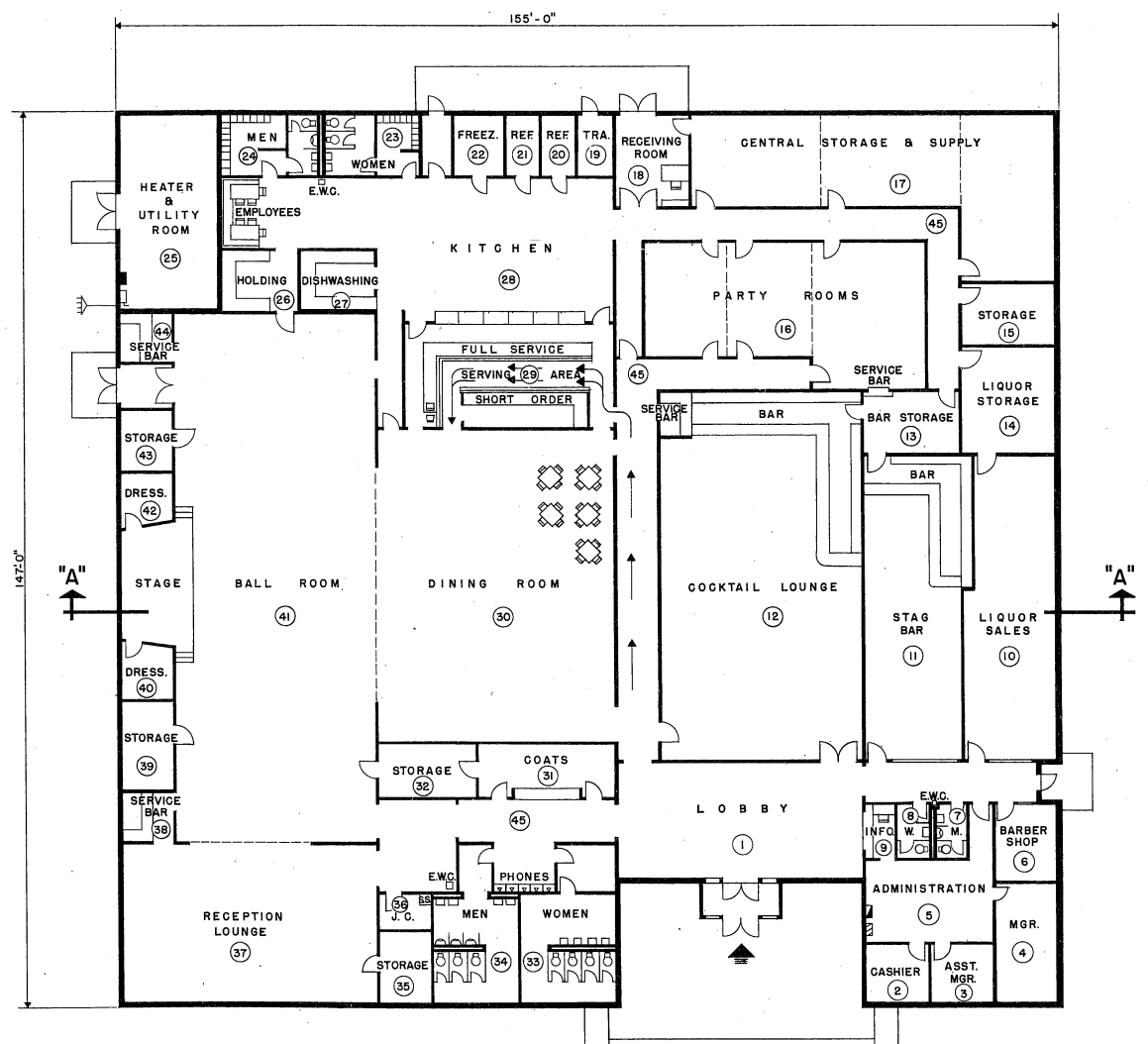


LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- FREEZ. FREEZER
- INFO. INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- MGR. MANAGER
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- TRA. TRASH
- W. WOMEN



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN TYPE 4
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 422-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

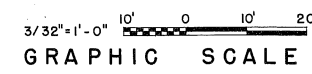
PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	40'-4" x 19'-0"	766
2	CASHIER	10'-0" x 9'-6"	95
3	ASST. MANAGER	10'-0" x 9'-6"	95
4	MANAGER	10'-0" x 19'-6"	195
5	ADMINISTRATION	20'-8" x 16'-6"	340
6	BARBER SHOP	10'-0" x 12'-6"	125
7	MEN	5'-0" x 8'-6"	42
8	WOMEN	5'-0" x 8'-6"	42
9	INFORMATION	5'-0" x 8'-6"	42
10	LIQUOR SALES	15'-6" x 49'-6"	742
11	STAG BAR	15'-6" x 49'-6"	767
12	COCKTAIL LOUNGE	33'-4" x 60'-6"	2,016
13	BAR STORAGE	15'-6" x 10'-0"	155
14	LIQUOR STORAGE	15'-0" x 15'-6"	232
15	STORAGE	15'-0" x 9'-6"	146
16	PARTY ROOMS	46'-4" x 20'-6"	941
17	CENTRAL STORAGE & SUPPLY	60'-0" x 17'-0"	1,020
18	RECEIVING ROOM	12'-0" x 15'-0"	180
19	TRASH	5'-6" x 10'-0"	55
20	REFRIGERATOR	5'-6" x 10'-0"	55
21	REFRIGERATOR	5'-6" x 10'-0"	55
22	FREEZER	8'-0" x 10'-0"	80
23	WOMEN	15'-6" x 10'-0"	155
24	MEN	16'-0" x 10'-0"	160
25	HEATER & UTILITY ROOM	16'-0" x 32'-0"	512
26	HOLDING	12'-0" x 10'-0"	120
27	DISHWASHING	12'-6" x 10'-0"	125
28	KITCHEN	52'-0" x 23'-0"	1,196
29	SERVING AREA	34'-0" x 17'-0"	578
30	DINING ROOM	39'-0" x 51'-0"	1,989
31	COATS	22'-4" x 8'-8"	210
32	STORAGE	15'-6" x 8'-8"	134
33	WOMEN	13'-6" x 20'-0"	270
34	MEN	14'-0" x 20'-0"	280
35	STORAGE	8'-0" x 12'-0"	96
36	JANITOR'S CLOSET	8'-0" x 5'-6"	44
37	RECEPTION LOUNGE	42'-0" x 26'-0"	1,092
38	SERVICE BAR	8'-6" x 8'-0"	68
39	STORAGE	8'-6" x 14'-6"	123
40	DRESSING ROOM	8'-6" x 8'-0"	68
41	BALL ROOM	36'-0" x 87'-0"	3,132
42	DRESSING ROOM	8'-6" x 8'-0"	68
43	STORAGE	8'-6" x 9'-6"	80
44	SERVICE BAR	8'-6" x 8'-0"	68
45	CORRIDOR		1,686

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		85	154.0	110.0	349
ESTIMATED DEMAND		85	123.2	104.5	312.7
WATER (GPM)					
HOT				30	
COLD				92	
TOTAL				96	
TOTAL (GPD)		40,500			
SEWAGE (GPD)		27,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,187

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 85

AREA FOR PROGRAMMING

GROSS AREA 22,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:

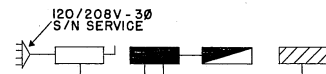
CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

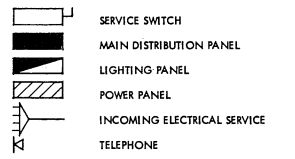
OFFICERS' / NCO CLUB
TYPE 4 22,000 SQ. FT.
PLAN & SECTION

APPROVED
Richard B. Webb, USAF
FOR CHIEF OF STAFF USAF
AD 31-02-50
SCALE: 3/32" = 1'-0"
DATE: 16 MARCH 73 SHEET 4 OF 6



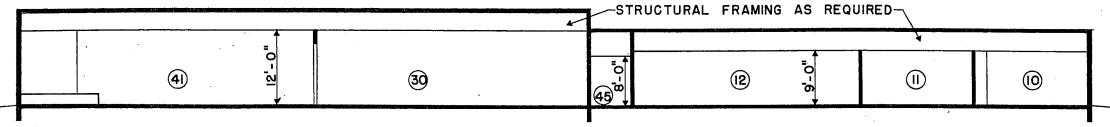
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

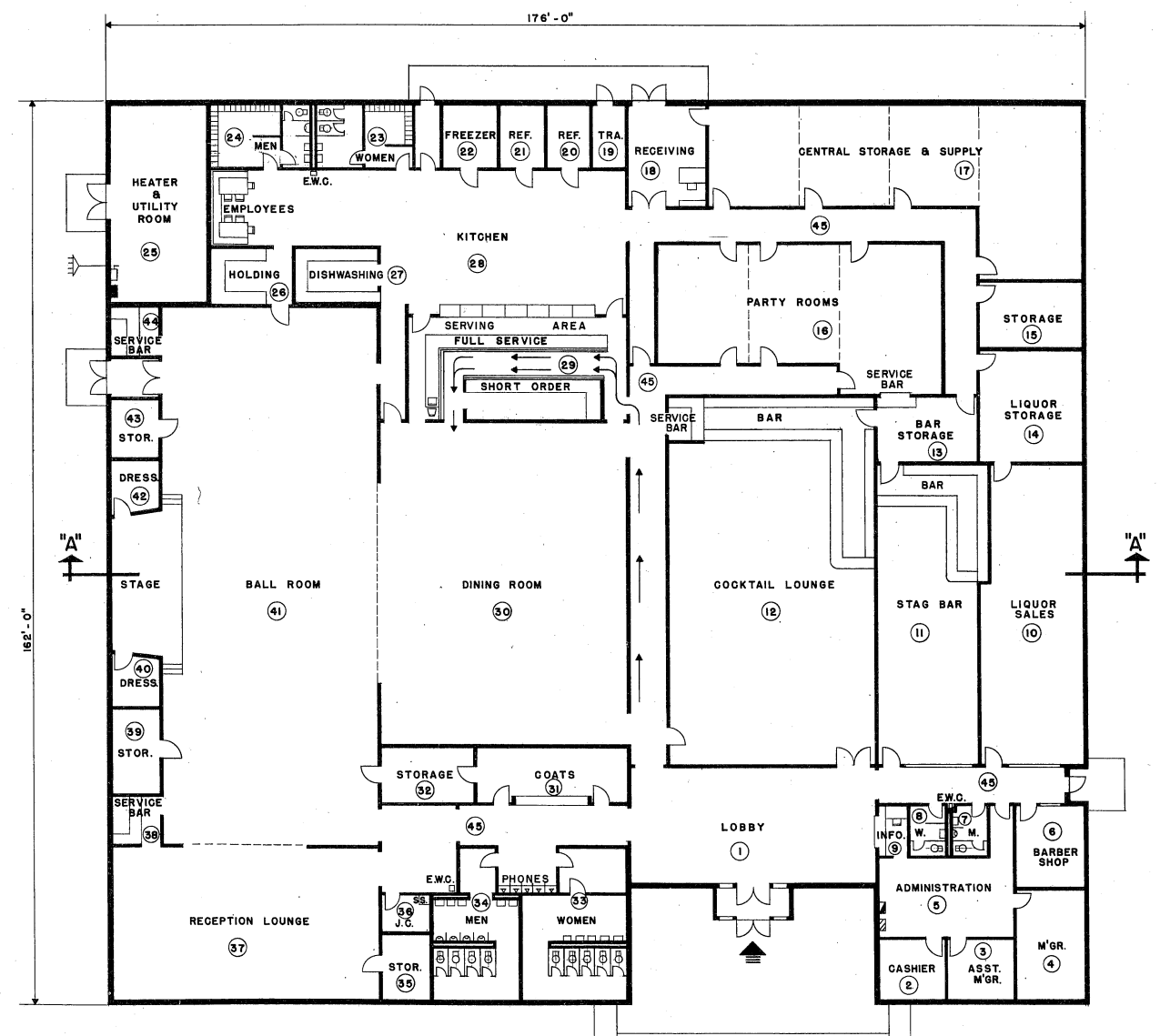


LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- INFO. INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- MGR. MANAGER
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- STOR. STORAGE
- TRA. TRASH
- W. WOMEN



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN TYPE 5
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

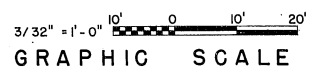
PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	44'-4" x 20'-8"	916
2	CASHIER	11'-10" x 10'-10"	128
3	ASST. MANAGER	12'-2" x 10'-10"	130
4	MANAGER	12'-2" x 19'-6"	237
5	ADMINISTRATION	24'-2" x 15'-8"	378
6	BARBER SHOP	12'-2" x 14'-10"	180
7	MEN	6'-2" x 9'-0"	55
8	WOMEN	6'-4" x 9'-0"	57
9	INFORMATION	5'-2" x 9'-0"	46
10	LIQUOR SALES	17'-6" x 53'-6"	937
11	STAG BAR	19'-0" x 53'-6"	1,017
12	COCKTAIL LOUNGE	37'-0" x 65'-8"	2,430
13	BAR STORAGE	18'-0" x 11'-8"	210
14	LIQUOR STORAGE	18'-4" x 20'-0"	367
15	STORAGE	18'-4" x 11'-10"	217
16	PARTY ROOMS	51'-0" x 23'-1"	1,181
17	CENTRAL STORAGE & SUPPLY	66'-10" x 21'-9"	1,454
18	RECEIVING ROOM	14'-0" x 18'-2"	254
19	TRASH	5'-10" x 11'-2"	65
20	REFRIGERATOR	7'-8" x 11'-2"	86
21	REFRIGERATOR	8'-0" x 11'-2"	89
22	FREEZER	9'-0" x 11'-2"	108
23	WOMEN	17'-2" x 11'-2"	192
24	MEN	17'-10" x 11'-2"	199
25	HEATER & UTILITY ROOM	17'-2" x 35'-4"	606
26	HOLDING	14'-6" x 10'-0"	149
27	DISHWASHING	14'-10" x 10'-0"	140
28	KITCHEN	62'-1" x 25'-10"	1,606
29	SERVING AREA	39'-2" x 18'-4"	718
30	DINING ROOM	44'-4" x 57'-8"	2,557
31	COATS	27'-0" x 10'-0"	270
32	STORAGE	16'-8" x 10'-0"	167
33	WOMEN	18'-8" x 24'-7"	461
34	MEN	15'-6" x 22'-5"	349
35	STORAGE	8'-8" x 11'-8"	101
36	JANITOR'S CLOSET	8'-8" x 6'-6"	56
37	RECEPTION LOUNGE	47'-8" x 27'-4"	1,303
38	SERVICE BAR	8'-8" x 8'-8"	75
39	STORAGE	8'-8" x 15'-0"	130
40	DRESSING ROOM	8'-8" x 9'-0"	78
41	BALL ROOM	41'-2" x 96'-4"	3,965
42	DRESSING ROOM	8'-8" x 9'-0"	78
43	STORAGE	8'-8" x 10'-4"	90
44	SERVICE BAR	8'-8" x 8'-8"	75
45	CORRIDOR		2,191

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	105	166.8	139.0	410.8
ESTIMATED DEMAND	105	131.7	115.0	351.8

WATER (GPM)	SEWAGE (GPD)
HOT	49,500
COLD	33,000
TOTAL	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,397.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 105.0

AREA FOR PROGRAMMING GROSS AREA 27,800

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:

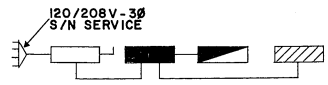
CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

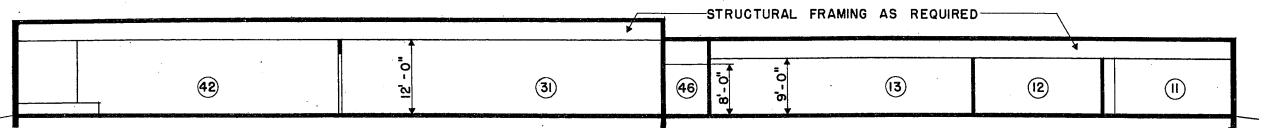
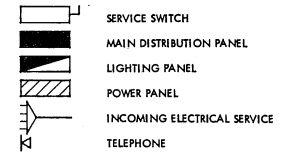
OFFICERS' / NCO CLUB
TYPE 5 27,800 SQ.FT.
PLAN & SECTION

APPROVED: *Richard B. ...*
DATE: 16 March 73
SHEET 5 OF 6

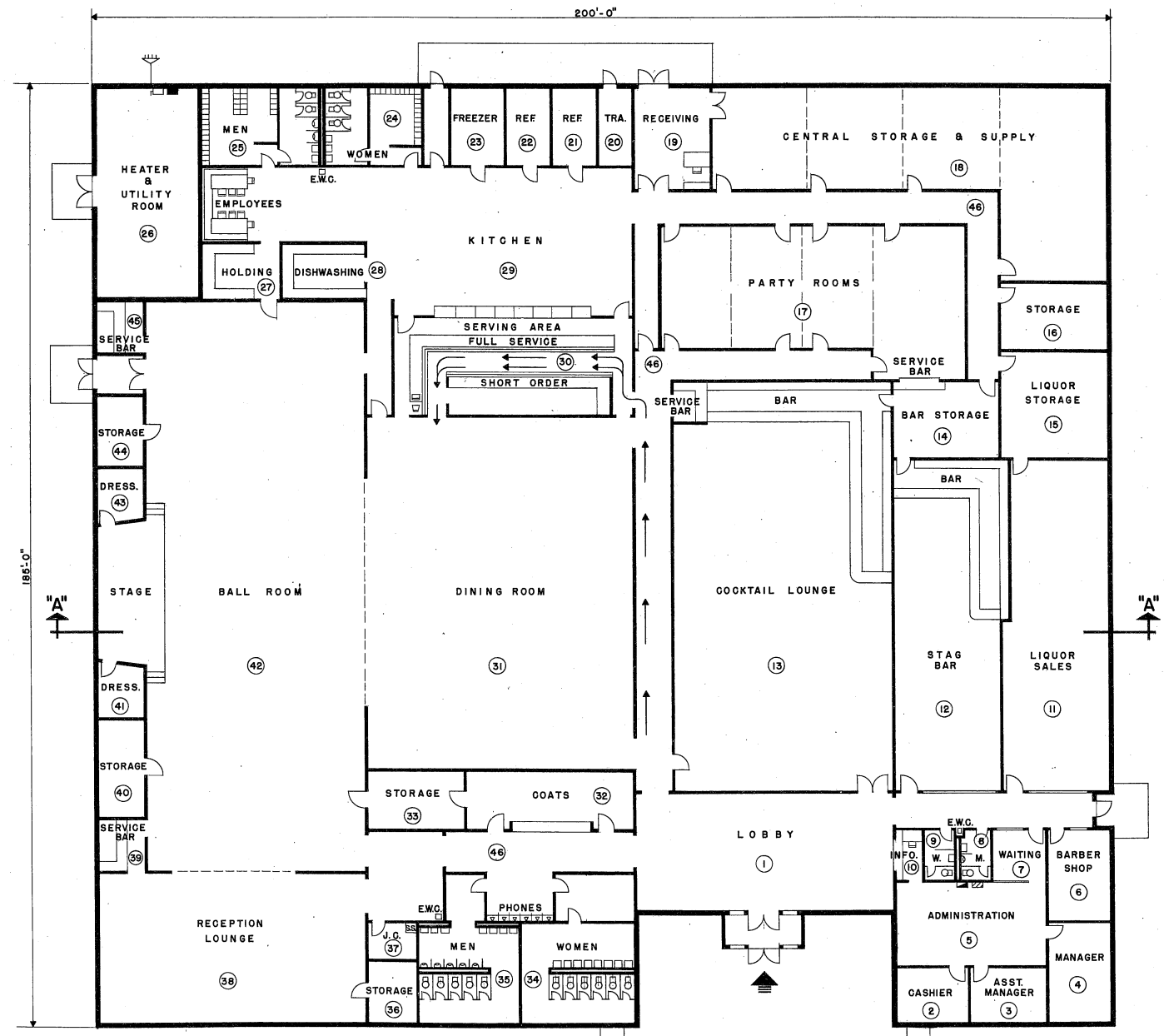


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN TYPE 6
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

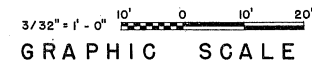
ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	50'-0" x 22'-8"	1,141
2	CASHIER	14'-0" x 10'-0"	147
3	ASST. MANAGER	15'-0" x 10'-0"	158
4	MANAGER	12'-0" x 19'-0"	234
5	ADMINISTRATION	29'-0" x 16'-0"	464
6	BARBER SHOP	12'-0" x 17'-0"	212
7	WAITING ROOM	10'-0" x 10'-0"	105
8	MEN	5'-10" x 9'-10"	57
9	WOMEN	6'-0" x 9'-10"	59
10	INFORMATION	5'-0" x 9'-10"	49
11	LIQUOR SALES	19'-0" x 64'-8"	1,286
12	STAG BAR	21'-0" x 64'-8"	1,415
13	COCKTAIL LOUNGE	42'-0" x 80'-0"	3,426
14	BAR STORAGE	20'-0" x 14'-10"	289
15	LIQUOR STORAGE	20'-10" x 20'-0"	427
16	STORAGE	20'-10" x 13'-0"	271
17	PARTY ROOMS	58'-0" x 23'-11"	1,520
18	CENTRAL STORAGE & SUPPLY	77'-4" x 23'-0"	1,818
19	RECEIVING ROOM	14'-10" x 20'-0"	297
20	TRASH	6'-0" x 15'-0"	98
21	REFRIGERATOR	8'-0" x 15'-0"	130
22	REFRIGERATOR	8'-0" x 15'-0"	130
23	FREEZER	10'-4" x 15'-0"	155
24	WOMEN	18'-10" x 15'-0"	282
25	MEN	22'-0" x 15'-0"	340
26	HEATER & UTILITY ROOM	20'-0" x 40'-10"	817
27	HOLDING	15'-2" x 10'-0"	162
28	DISHWASHING	16'-2" x 10'-0"	172
29	KITCHEN	69'-4" x 28'-10"	1,947
30	SERVING AREA	46'-10" x 19'-0"	890
31	DINING ROOM	52'-0" x 68'-8"	3,571
32	COATS	32'-0" x 11'-4"	372
33	STORAGE	18'-10" x 11'-4"	213
34	WOMEN	19'-11" x 28'-0"	568
35	MEN	19'-0" x 22'-11"	451
36	STORAGE	9'-0" x 15'-0"	114
37	JANITOR'S CLOSET	9'-0" x 2'-0"	68
38	RECEPTION LOUNGE	52'-0" x 29'-0"	1,508
39	SERVICE BAR	9'-0" x 10'-0"	90
40	STORAGE	9'-0" x 15'-0"	171
41	DRESSING ROOM	9'-0" x 10'-0"	95
42	BALL ROOM	42'-0" x 111'-4"	4,732
43	DRESSING ROOM	9'-0" x 10'-0"	95
44	STORAGE	9'-0" x 15'-0"	132
45	SERVICE BAR	9'-0" x 10'-0"	90
46	CORRIDOR		2,732

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

- ASST. ASSISTANT
- DRESS. DRESSING ROOM
- E.W.C. ELECTRIC WATER COOLER
- INFO. INFORMATION
- J.C. JANITOR'S CLOSET
- M. MEN
- REF. REFRIGERATOR
- S.S. SERVICE SINK
- TRA. TRASH
- W. WOMEN



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	140	216.0	180.0	536
ESTIMATED DEMAND	140	183.6	162.0	485.6

WATER (GPM)	TOTAL
HOT	37
COLD	103
TOTAL	110

TOTAL (GPD)	SEWAGE (GPD)
63,000	42,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 1,810.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 140.0

AREA FOR PROGRAMMING
GROSS AREA 36,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

THIS DESIGN MAY BE USED FOR OFFICERS OR NCO'S. CATEGORY CODE NO. USED WILL BE AS FOLLOWS:
CATEGORY CODE NO. 740-617 FOR NCO'S.
CATEGORY CODE NO. 740-618 FOR OFFICERS.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

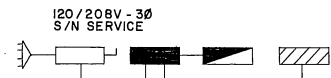
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

OFFICERS' / NCO CLUB
TYPE 6 36,000 SQ. FT.
PLAN a SECTION

APPROVED
Richard B. Keefe, USAF
FOR CHIEF OF STAFF USAF

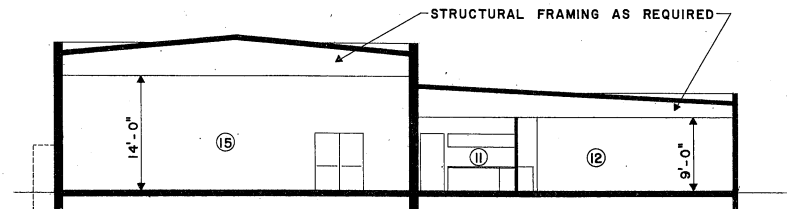
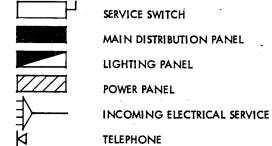
AD 31-02-50
SCALE: 3/32" = 1'-0"
DATE: 16 March 73

SHEET 6 OF 6

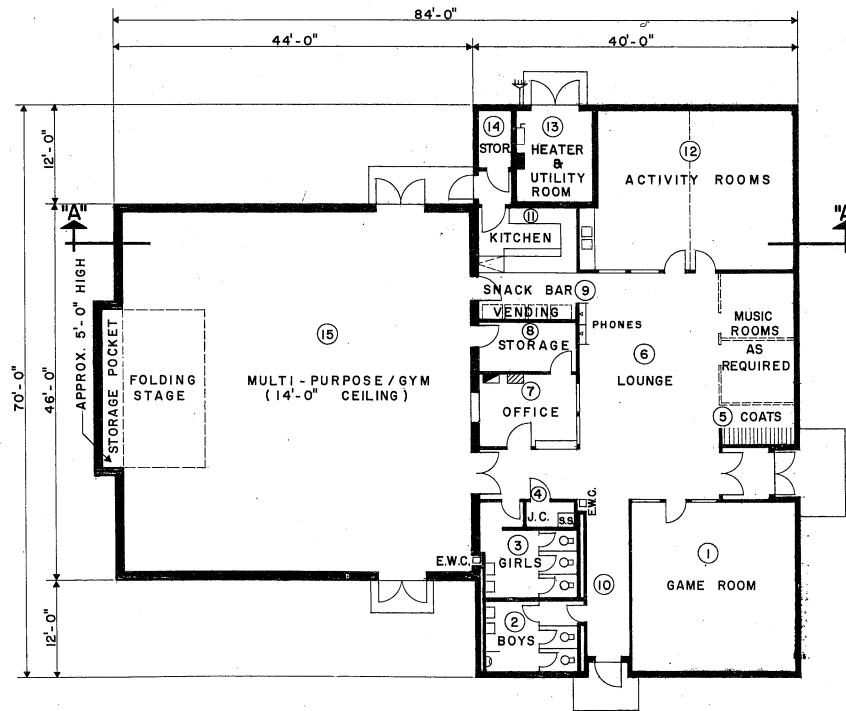


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE I
SCALE 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

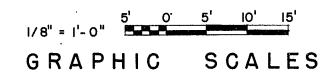
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE			
NO.	DESCRIPTION	DIMENSIONS	AREAS
1	GAME ROOM	20'-0" x 20'-6"	410
2	BOYS	11'-0" x 8'-6"	94
3	GIRLS	11'-0" x 8'-6"	94
4	JANITOR'S CLOSET	6'-0" x 3'-0"	18
5	COATS	9'-0" x 2'-0"	18
6	LOUNGE	26'-6" x 20'-6"	543
7	OFFICE	12'-0" x 8'-10"	105
8	STORAGE	12'-0" x 6'-0"	72
9	SNACK BAR	12'-0" x 5'-6"	66
10	CORRIDOR		279
11	KITCHEN	12'-0" x 7'-8"	92
12	ACTIVITY ROOMS	24'-0" x 20'-0"	480
13	HEATER & UTILITY ROOM	9'-6" x 11'-8"	111
14	STORAGE	4'-0" x 7'-6"	30
15	MULTI-PURPOSE/GYM	43'-0" x 16'-0"	1,978

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

E.W.C. ELECTRIC WATER COOLER
J.C. JANITOR'S CLOSET
S.S. SERVICE SINK
STOR. STORAGE



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	24	23.75	14.25	
ESTIMATED DEMAND	24	22.56	12.83	
WATER (GPM)				
HOT		11.25		
COLD		67.25		
TOTAL		60		
TOTAL (GPD)	13,500			
SEWAGE (GPD)	9,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 325

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 28

AREA FOR PROGRAMMING
GROSS AREA 4,750 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE 740-883

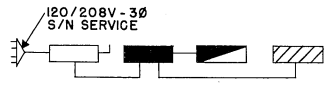
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA

YOUTH CENTER
TYPE I
PLAN & SECTION

APPROVED
R. D. B. H. / 16 MAR 73
FOR CHIEF OF STAFF USAF

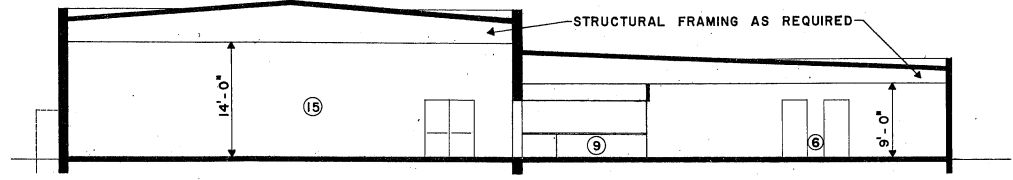
AD 31-24-10
SCALE: 1/8" = 1'-0"
DATE: 16 MAR 73 SHEET 1 OF 3



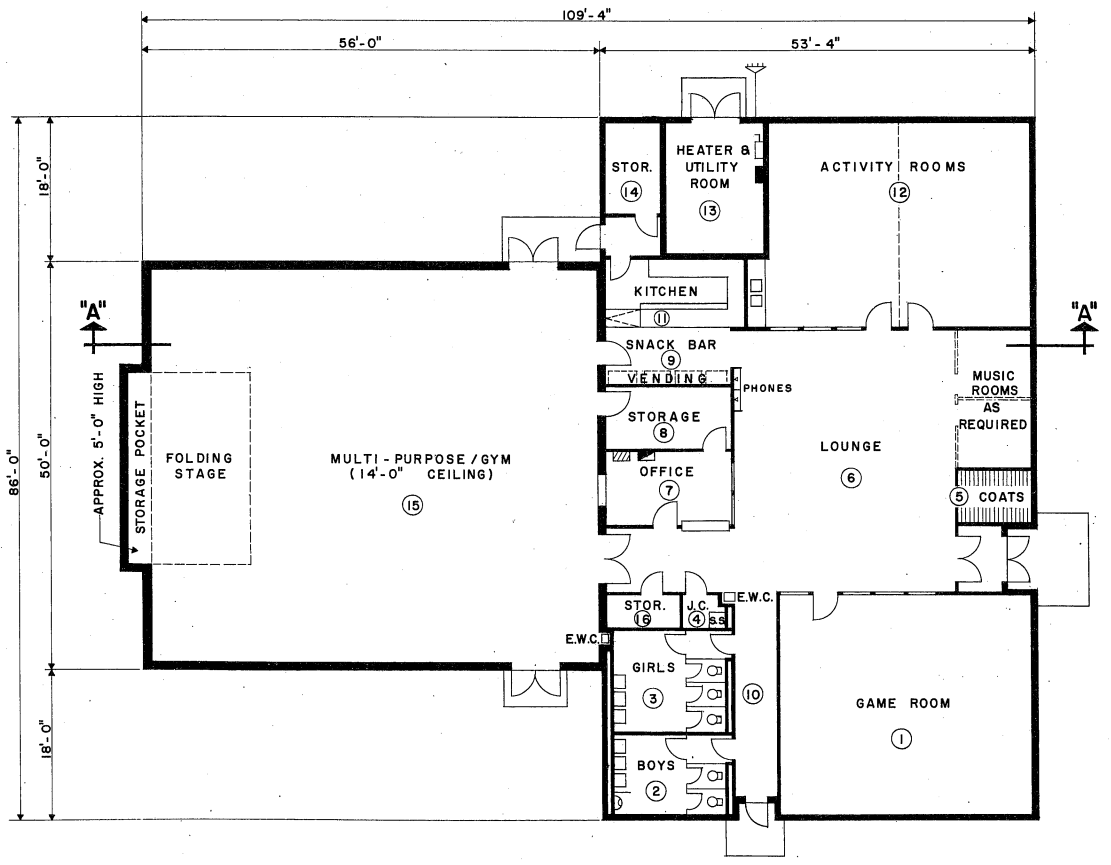
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE 2
SCALE 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

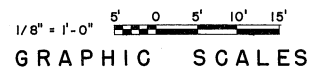
PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE			
NO.	DESCRIPTION	DIMENSIONS	AREAS
1	GAME ROOM	30'-6" x 26'-6"	808
2	BOYS	12'-6" x 9'-6"	119
3	GIRLS	12'-6" x 12'-0"	150
4	JANITOR'S CLOSET	5'-0" x 4'-0"	20
5	COATS	8'-8" x 6'-4"	55
6	LOUNGE	31'-6" x 31'-8"	997
7	OFFICE	14'-0" x 8'-8"	121
8	STORAGE	14'-0" x 7'-6"	105
9	SNACK BAR	14'-0" x 7'-0"	98
10	CORRIDOR	---	343
11	KITCHEN	16'-0" x 8'-0"	128
12	ACTIVITY ROOMS	31'-6" x 24'-8"	777
13	HEATER & UTILITY ROOM	12'-0" x 16'-0"	192
14	STORAGE	5'-6" x 11'-0"	60
15	MULTI-PURPOSE/GYM	55'-0" x 50'-0"	2,750
16	STORAGE	7'-8" x 4'-0"	31

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

- LEGEND**
- E.W.C. ELECTRIC WATER COOLER
 - J.C. JANITOR'S CLOSET
 - S.S. SERVICE SINK
 - STOR. STORAGE



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	32	36.25	21.75	90
ESTIMATED DEMAND	32	34.44	19.57	86

WATER (GPM)	SEWAGE (GPD)
HOT	11.25
COLD	67.25
TOTAL	60
TOTAL (GPD)	13,500
SEWAGE (GPD)	9,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 510

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 45.0

AREA FOR PROGRAMMING GROSS AREA 7,250 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE 740-883

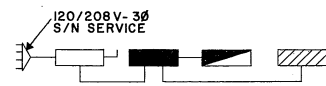
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA

YOUTH CENTER
TYPE 2
PLAN & SECTION

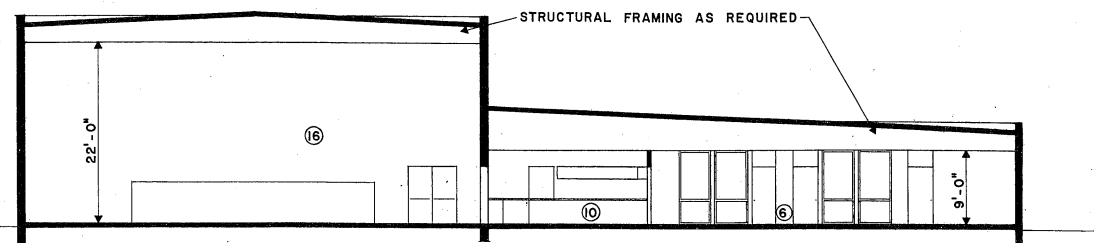
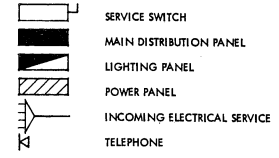
APPROVED
R. S. Spector
FOR CHIEF OF STAFF USAF

AD 31-24-10
SCALE: 1/8" = 1'-0"
DATE: 11 MAR 73 SHEET 2 OF 3

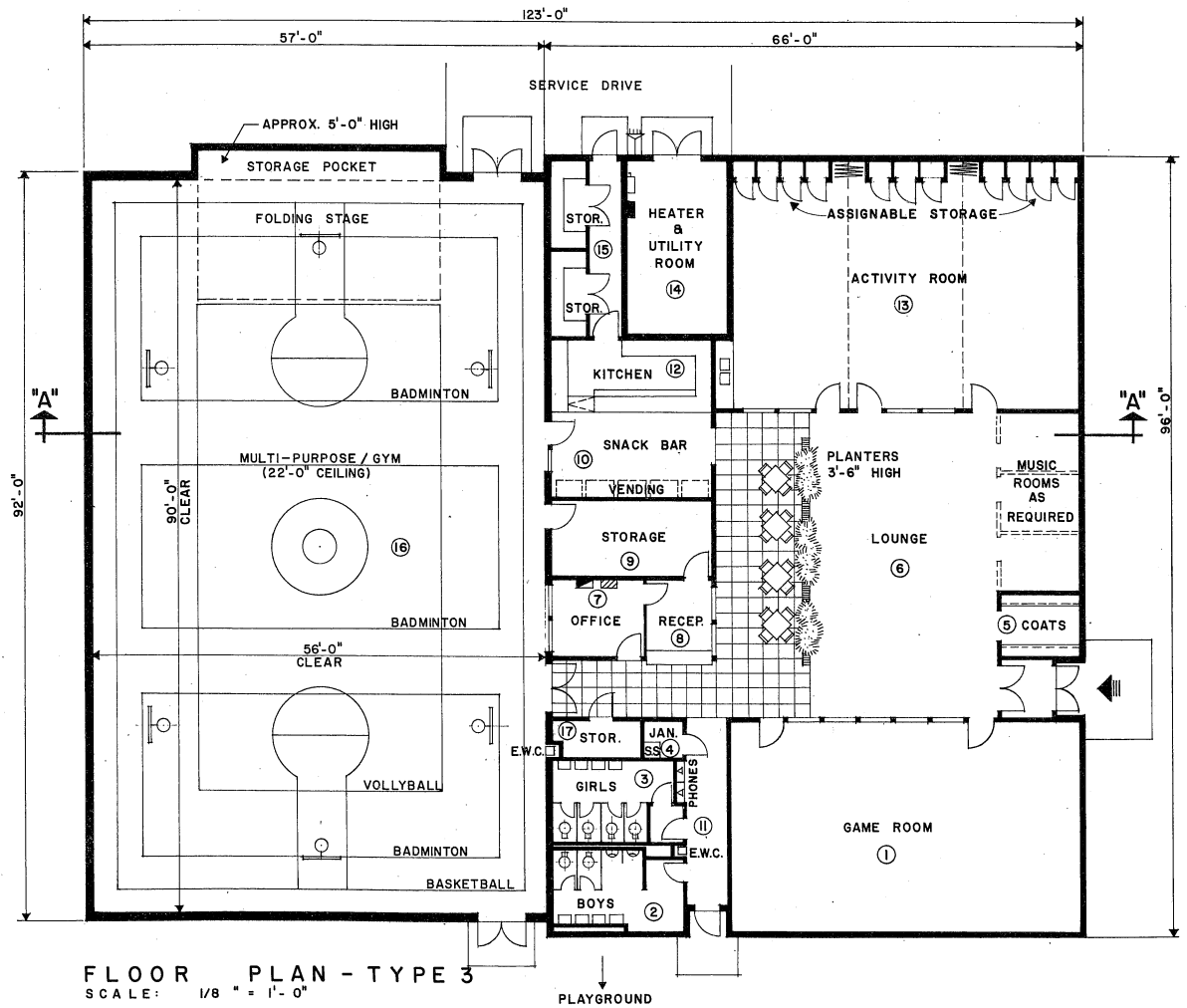


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE 3
SCALE: 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		50	56.7	34.02	140.72
ESTIMATED DEMAND		50	53.8	27.62	131.42
WATER (GPM)					
HOT				17.25	
COLD				89.25	
TOTAL				95	
TOTAL (GPD)	18,000				
SEWAGE (GPD)	12,000				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 630.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 55

AREA FOR PROGRAMMING

GROSS AREA 11,340 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE 740-883

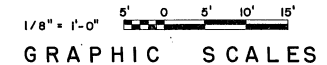
ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	GAME ROOM	43'-0" x 25'- 6"	1,096
2	BOYS	16'-0" x 10'- 6"	168
3	GIRLS	16'-0" x 10'- 6"	168
4	JANITOR'S CLOSET	4'-8" x 4'- 6"	21
5	COATS	9'-4" x 7'- 6"	71
6	LOUNGE	33'-6" x 37'- 3"	1,248
7	OFFICE	11'-0" x 9'- 6"	104
8	RECEPTION	8'-0" x 9'- 6"	76
9	STORAGE	19'-4" x 9'- 2"	178
10	SNACK BAR	19'-4" x 10'- 6"	205
11	CORRIDOR	-----	344
12	KITCHEN	19'-8" x 8'-10"	174
13	ACTIVITY ROOMS	42'-0" x 30'- 2"	1,266
14	HEATER & UTILITY ROOM	12'-3" x 21'- 0"	257
15	STORAGE	8'-6" x 21'- 6"	183
16	MULTI-PURPOSE/GYM	56'-0" x 92'- 0"	5,152
17	STORAGE	11'-0" x 4'- 6"	50

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

E.W.C. ELECTRIC WATER COOLER
JAN. JANITOR
RECEP. RECEPTION
S.S. SERVICE SINK
STOR. STORAGE



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

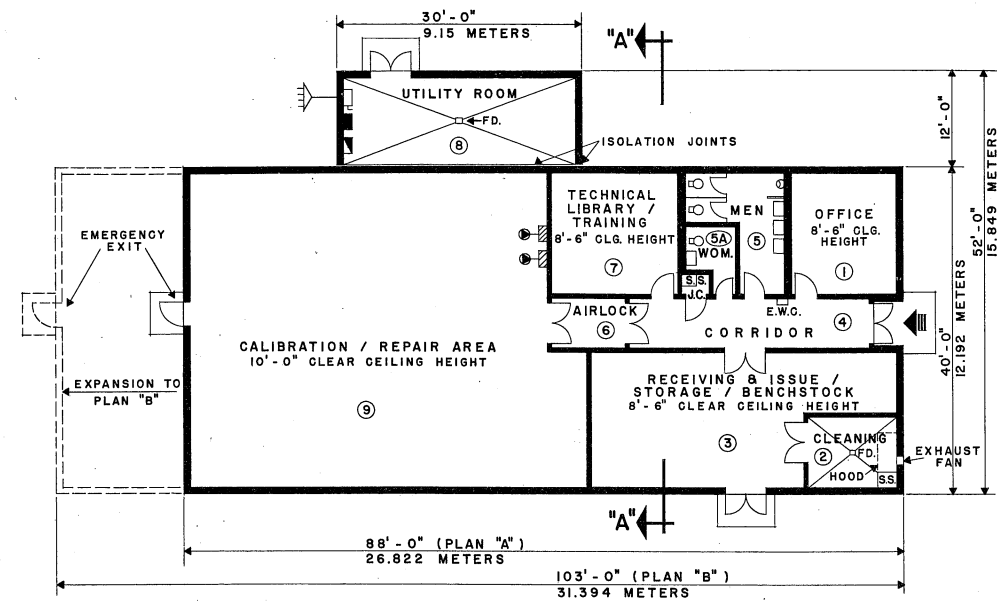
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

YOUTH CENTER
TYPE 3
PLAN & SECTION

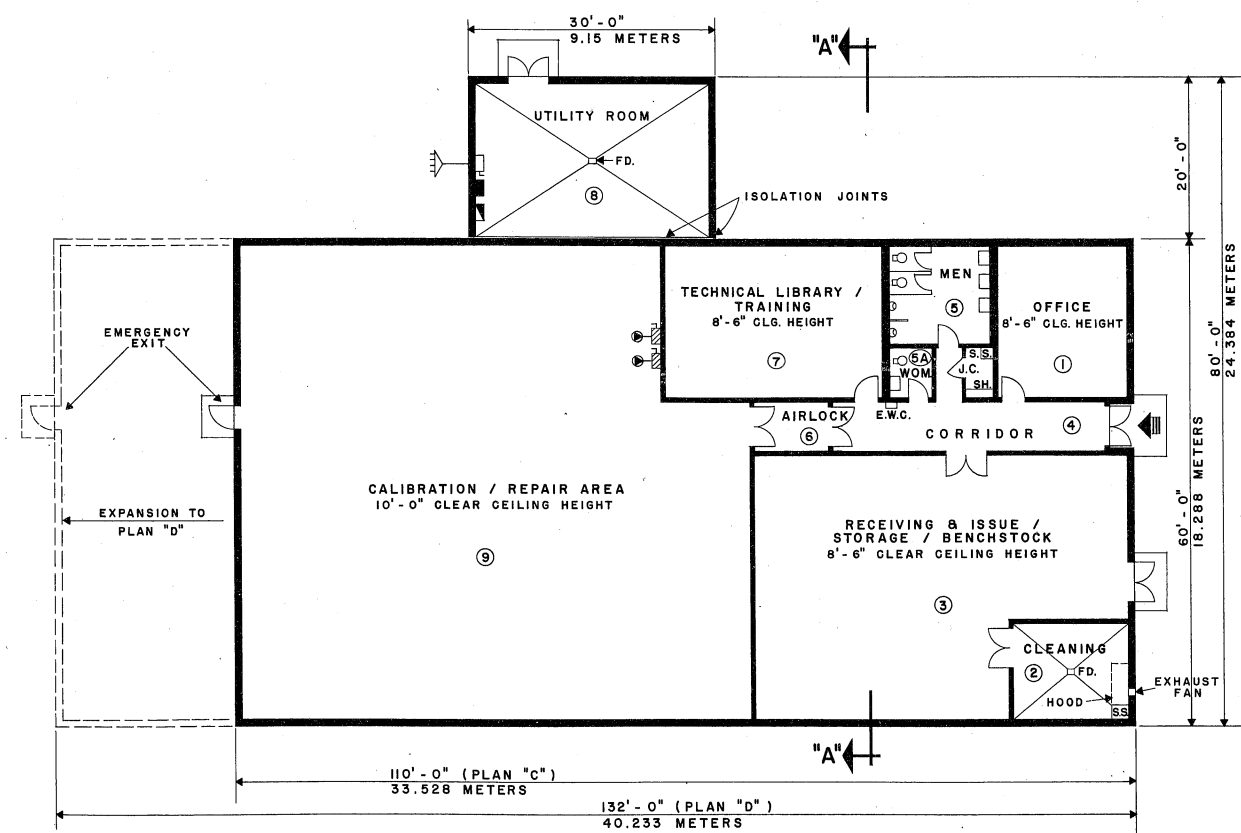
APPROVED
Richard B. Spector
FOR CHIEF OF STAFF USAF

AD 31-24-10
SCALE: 1/8" = 1'-0"
DATE: 12 March 73

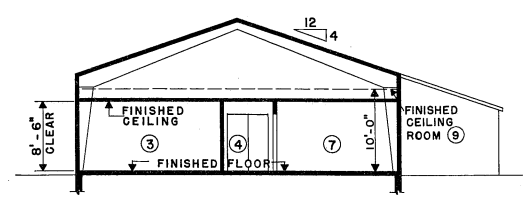
SHEET 3 OF 3



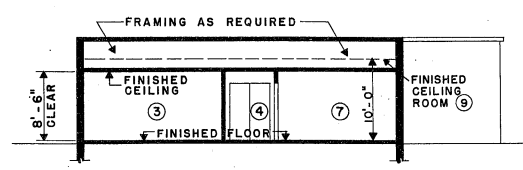
FLOOR PLANS "A" & "B"
SCALE: 1/8" = 1'-0"



FLOOR PLANS "C" & "D"
SCALE: 1/8" = 1'-0"



PRE-ENGINEERED SECTION "A" - "A"
NO SCALE



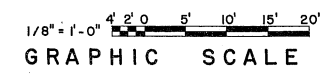
CONVENTIONAL SECTION "A" - "A"
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL - POWER & LIGHTING - 277/480V
- MISC. - 120/208 VOLT POWER
- SAFETY SWITCH
- INCOMING ELECTRICAL SERVICE, UNDERGROUND OR OVERHEAD
- SPECIAL RECEPTACLE

LEGEND

- CLG. CEILING
- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- F.D. FLOOR DRAIN
- J.C. JANITOR CLOSET
- SH. SHELF
- S.S. SERVICE SINK
- WOM. WOMEN



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS SEE CURRENT AFM 88-15, APPLICABLE AIR FORCE PAMPHLETS, T.O. 00-20-14, AND AFM 88-4.
PROVIDE AUTOMATIC SPRINKLER SYSTEM, AS SPECIFIED BY AFM 88-15.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	PLAN A	PLAN B	PLAN C	PLAN D
ESTIMATED DEMAND				
LIGHTING	25	25	48	60
POWER	120	120	165	175
TOTAL	145	145	203	235
CONNECTED LOAD				
LIGHTING	25	25	60	60
POWER	150	150	190	205
TOTAL	175	175	250	265
SPECIAL ELECTRICAL POWER EQUIPMENT				
WATER				
HOT (GPH)	50	50	60	80
COLD (GPM)	40	40	45	52
TOTAL (GPM)	42	42	48	55
TOTAL (GPD)	900	1250	1800	2500
SEWAGE (GPD)	900	1250	1800	2500

HEATING REQUIREMENTS

FOR OUTSIDE DESIGN CONDITIONS, REFER TO AFM 88-8 FOR SPECIFIC PNEUMATIC LOCATION
INSIDE DESIGN CONDITIONS, CALIBRATION/REPAIR AREA, 73± 1°F. DB, 45 ± 5%, -25% RH.

AIR CONDITIONING REQUIREMENTS

FOR OUTSIDE DESIGN CONDITIONS, REFER TO AFM 88-8 FOR SPECIFIC PNEUMATIC LOCATION
INSIDE DESIGN CONDITIONS, CALIBRATION/REPAIR AREA, 73± 1°F. DB, 45 ± 5%, -25% RH.

AREA FOR PROGRAMMING

GROSS AREA	PLAN "A"	PLAN "B"	PLAN "C"	PLAN "D"
PLAN "A" INCLUDES UTILITY LEAN-TO AT 360 SQ. FT.	3,880 SQ. FT.			
PLAN "B" INCLUDES UTILITY LEAN-TO AT 360 SQ. FT.		4,480 SQ. FT.		
PLAN "C" INCLUDES UTILITY LEAN-TO AT 600 SQ. FT.			7,200 SQ. FT.	
PLAN "D" INCLUDES UTILITY LEAN-TO AT 600 SQ. FT.				8,520 SQ. FT.

NOTES

- AIR CONDITIONING DESIGN CONDITION
1. CRITICAL SYSTEMS CRITERIA WILL BE USED AS OUTLINED IN AFM 88-15.
- AIR FILTERS WILL BE MEDIUM EFFICIENCY TYPE, 35% MIN. EFFICIENCY (AS TESTED BY THE NBS DUST SPOT TEST METHOD USING ATMOSPHERIC DUST) WHERE A SINGLE AIR HANDLING UNIT IS UTILIZED; OTHERWISE THE CALIBRATION AND REPAIR AREA WILL HAVE MEDIUM EFFICIENCY FILTERS AND THE REMAINDER OF THE BUILDING WILL HAVE ROUGHING FILTERS.
- SEE AFM 88-4 FOR CLARIFICATION OF TYPES OF PNEUMATIC LABORATORIES AND APPLICABLE FLOOR PLAN.

CATEGORY CODE NO. 218-868

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
PRECISION MEASUREMENT
EQUIPMENT LABORATORY
TYPE II B, II D & III
PLANS & SECTIONS

APPROVED: *Edwin A. M. Jr.*
FOR CHIEF OF STAFF - USAF
SCALE: AS SHOWN
DATE: 1 May 1975
SHEET 1 OF 2
AD 35-06-01R3

DESIGN DATA AND ANALYSIS

NO.	ROOM	BASIC OCCUPANCY FACTOR	CRITERIA DESIGN FACTOR	CLEAR HGT. REQ'D	DIMENSIONS OF THIS PLAN		LIVE LOADS	ELECTRICAL LIGHTING F.C.	MECHANICAL			REMARKS AND ADDITIONAL REQUIREMENTS
					INTERIOR APPROXIMATE	SQ. FT. APPROX.			SUPPLEMENTAL PLUMBING	VENTILATION	HEATING, AIR COND., ETC. CONTROL TEMPERATURE	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
1.	OFFICE PLAN A " B " C " D	PERSONNEL	70-90 S.F./MAN	8'-6"	12'-11" x 14'-9" 12'-11" x 14'-9" 15'-9" x 18'-9" 15'-9" x 18'-9"	192 192 295 295					SEE AFM 88-15	
2.	CLEANING PLAN A " B " C " D	EQUIPMENT		8'-6"	11'-3" x 8'-9" 11'-3" x 8'-9" 14'-3" x 12'-3" 14'-3" x 12'-3"	98 98 175 175			FLOOR DRAIN & OIL SEPARATOR	POWER EXHAUST	SUPPLY AIR QUANTITY DEPENDENT ON HEATING DEMAND. POSITIVE EXHAUST AT ALL TIMES.	HOOD OVER SINK. AIR CONDITIONING SYSTEM SHOULD NOT BE REQUIRED TO SUPPLY TOTAL HOOD EXHAUST AIR RATE. CONSIDER SEPARATE MAKE-UP AIR UNIT TO ROOM (HEAT ONLY) TO BALANCE HOOD EXHAUST AIR FAN DEMAND.
3.	RECEIVING, STORAGE, ISSUE, BENCH STOCK PLAN A " B " C " D	EQUIPMENT & PERSONNEL	CIRCULATION	8'-6"	37'-9" x 16'-9" IRREG 37'-9" x 16'-9" IRREG 45'-9" x 32'-9" IRREG 45'-9" x 32'-9" IRREG	522 522 1310 1310					SEE AFM 88-15	
4.	CORRIDOR PLAN A " B " C " D	CIRCULATION		8'-6"	6'-0" WIDE 6'-0" WIDE 6'-0" WIDE 6'-0" WIDE							
5.	MEN'S TOILET PLAN A " B " C " D	FIXTURES	MEN PER FIXTURE	8'-6"	12'-0" x 10'-0" 12'-0" x 10'-0" 12'-4" x 12'-0" 12'-4" x 12'-0"	120 120 148 148		SEE AFM 88-15	DEEP SINK			HEATING AND VENTILATION ONLY
5A.	WOMEN'S TOILET PLAN A " B " C " D	FIXTURES	WOMEN PER FIXTURE	8'-6"	6'-0" x 6'-8" 6'-0" x 6'-8" 6'-2" x 6'-4" 6'-2" x 6'-4"	40 40 39 39		SEE AFM 88-15	DEEP SINK			HEATING AND VENTILATION ONLY
6.	AIR LOCK PLAN A " B " C " D	CIRCULATION	OPERATIONAL REQUIREMENT	8'-6"	9'-0" x 6'-0" 9'-0" x 6'-0" 9'-0" x 6'-0" 9'-0" x 6'-0"	54 54 54 54					AIR SUPPLY GRILLE OVER INSIDE AIRLOCK DOORS	MINIMUM SIZE CLEAR DOOR OPENING - 5'-0"
7.	TECH. LIBRARY, BREAKROOM, TRAINING PLAN A " B " C " D	PERSONNEL	OPERATIONAL REQUIREMENT	8'-6"	15'-6" x 14'-9" 15'-6" x 14'-9" 26'-6" x 18'-9" 26'-6" x 18'-9"	229 229 516 516					SEE AFM 88-15	
8.	UTILITY PLAN A " B " C " D	MECHANICAL & ELECTRICAL EQUIPMENT		8'-6"	29'-0" x 11'-6" 29'-0" x 11'-6" 29'-0" x 19'-6" 29'-0" x 19'-6"	334 334 566 566			FLOOR DRAIN		50°F MINIMUM	HEATING AND VENTILATION ONLY
9.	CALIBRATION/REPAIR AREA PLAN A " B " C " D	EQUIPMENT & PERSONNEL	OPERATIONAL REQUIREMENT	10'-0"	48'-3" x 38'-6" IRREG 63'-3" x 38'-6" IRREG 62'-3" x 58'-6" IRREG 84'-3" x 58'-6" IRREG	1760 2337 3430 4717					SEE AFM 88-4	

DESIGN GUIDES

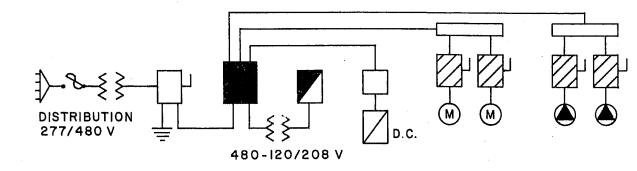
- ARCHITECTURAL**
- TYPE OF CONSTRUCTION - PERMANENT, TYPE "N" NONCOMBUSTIBLE.
 - WHERE PRE-ENGINEERED CONSTRUCTION IS MORE ECONOMICAL THAN CONVENTIONAL CONSTRUCTION A COMMERCIALY AVAILABLE PRE-ENGINEERED STRUCTURE OF NEAREST SUITABLE DIMENSIONS SHOULD BE UTILIZED; IN ACCORDANCE WITH AFM 88-15, CRITERIA AND STANDARDS FOR AIR FORCE CONSTRUCTION.
 - UTILITY ROOM SHOULD BE OF THE MINIMUM PRACTICAL SIZE TO SUIT THE EQUIPMENT REQUIRED.
 - PROVIDE SUITABLE JOINTS TO ISOLATE VIBRATION WHERE UTILITY ROOM WALLS AND FLOOR ADJOIN MAIN STRUCTURE.
 - DOOR LOCATIONS ARE SUBJECT TO MINOR RELOCATION TO MEET MANUFACTURER'S STANDARDS.
 - LENGTH OF AIR LOCK SHALL ACCOMMODATE ITEMS BEING MOVED, SO THAT BOTH SETS OF DOORS ARE NOT OPEN AT THE SAME TIME.
 - PROVIDE VISION PANELS IN AIR-LOCK DOORS, AND ELSEWHERE AS REQUIRED TO AVOID INTERFERENCE OR DAMAGE.
 - AIR-LOCK DOORS CLOSEST TO CALIBRATION/REPAIR AREA SHALL BE PROVIDED WITH GASKET TYPE STOPS AND ASTRAGALS AND AUTOMATIC DOOR BOTTOMS. EMERGENCY EXIT DOORS IN THE CALIBRATION/REPAIR AREA SHALL BE WEATHER STRIPPED TO PREVENT INFILTRATION OF DUST AND MOISTURE LADEN AIR.
 - ALL DOORS SHALL BE OF THE MINIMUM PRACTICAL SIZE TO PROVIDE CLEARANCE FOR PASSAGE OF EQUIPMENT.
 - FOR OPTIMUM ENVIRONMENTAL CONTROL THE WORKING DRAWINGS AND SPECIFICATIONS SHOULD EMPHASIZE INTEGRITY OF "UP" FACTORS AND VAPOR BARRIERS.

- STRUCTURAL**
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3.
- ELECTRICAL**
LIGHTING INTENSITIES ARE DETERMINED AT WORKING LEVELS, CONVENIENCE OUTLETS WILL BE LOCATED BY THE DESIGN AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113. THE LIGHTING SYSTEM SHALL BE DETERMINED BY AN ECONOMIC ANALYSIS IN ACCORDANCE WITH AFM 88-29.

- MECHANICAL**
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

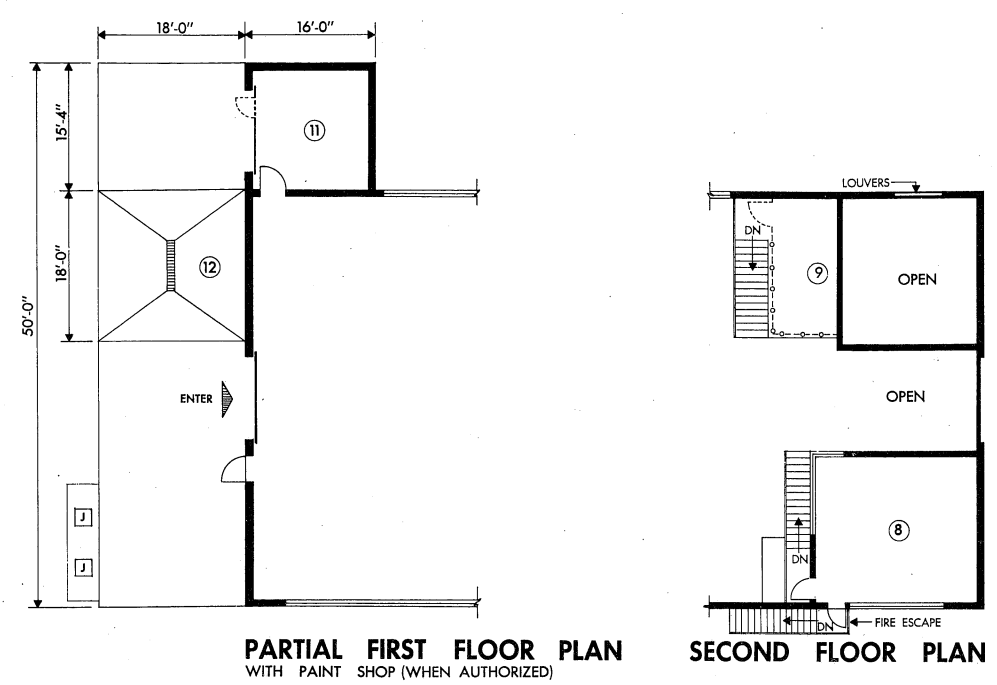
- PLUMBING**
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

CATEGORY CODE NO. 218-868



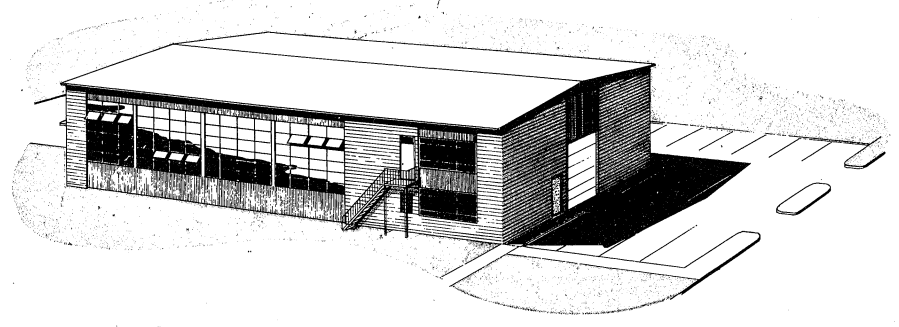
ELECTRICAL RISER DIAGRAM
NO SCALE

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
PRECISION MEASUREMENT EQUIPMENT LABORATORY TYPE II B, II D & III DESIGN DATA & ANALYSIS			
APPROVED	SCALE: NONE	SHEET 2 OF 2	
	DATE: 1 May 1975		
FOR CHIEF OF STAFF USAF		AD 35-06-01R3	

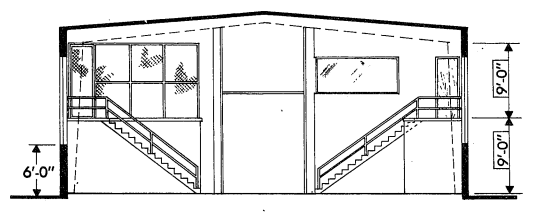


PARTIAL FIRST FLOOR PLAN
WITH PAINT SHOP (WHEN AUTHORIZED)

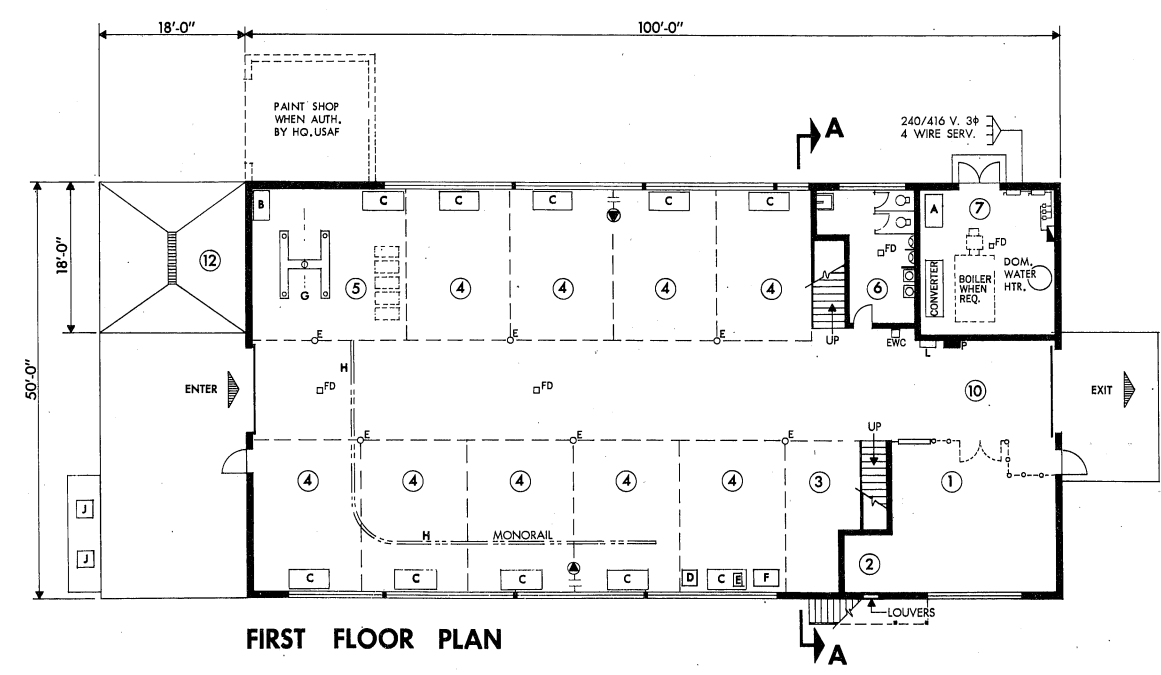
SECOND FLOOR PLAN



PERSPECTIVE



SECTION A-A



FIRST FLOOR PLAN

ROOM SCHEDULE

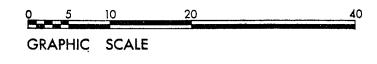
- ① TOOL STORAGE
- ② BATTERY ROOM
- ③ REPAIRABLE STORAGE
- ④ WORK STALL
- ⑤ LUBRICATION
- ⑥ TOILET
- ⑦ HEATER & UTILITY ROOM
- ⑧ ADMIN., T.O. LIBRARY & DISPATCHER
- ⑨ STORAGE
- ⑩ AISLE
- ⑪ PAINT SHOP, WHEN AUTHORIZED
- ⑫ WASH AREA

EQUIPMENT LIST

- A AIR COMPRESSOR
- B STEAM GENERATOR
- C WORK BENCH
- D DRILL PRESS
- E BENCH GRINDER - BUFFER
- F CLEANER, METAL PARTS
- G LIFT, SINGLE POST, FRAME CONTACT TYPE
- H MONORAIL, 1 TON
- J FUEL SERVICING PUMPS

LEGEND

- SAFETY SWITCH
- POWER DISTRIBUTION PANEL
- LIGHTING DISTRIBUTION PANEL
- MAIN POWER DISTRIBUTION PANEL
- ⊕ CONTACTOR/RECEPTACLE FOR M-G SET 480 V
- MOTOR EXHAUST OUTLET (OVF. HEAD)
- EWC ELECTRIC WATER COOLER
- TRENCH DRAIN
- FLOOR DRAIN
- PAINTED LINES
- - - WIRE MESH PARTITION



PROGRAMMING AND PLANNING GUIDES

THE FOLLOWING INFORMATION IS FOR GUIDANCE IN PROGRAMMING AND PLANNING.
SPECIFICATIONS
SEE CURRENT AFM 88-15 AND APPLICABLE AF PAMPHLETS FOR ACCEPTABLE CONSTRUCTION MATERIALS.
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.
CONSTRUCTION SHALL BE TYPE 'N', UNPROTECTED, NON-COMBUSTIBLE.

UTILITY REQUIREMENTS

ELECTRICITY (KW)*	LIGHTING	POWER
CONNECTED LOAD 23		80
ESTIMATED DEMAND 16		72
WATER (GPM)		
HOT 8		
COLD 40		
TOTAL 48		
GALLONS PER DAY 1000		
SEWAGE (GPD) 1000		

* EXCLUDING HEATING

HEAT REQUIREMENTS
DESIGN TEMPERATURE - ZERO° F
M BTU/HR 670

GENERAL NOTES
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.
BAY SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET DESIGN LOAD CONDITIONS AND TO CONFORM TO MANUFACTURERS' STANDARDS FOR PRE-ENGINEERED COMPONENTS.
WASH RACK MAY BE USED AS GAS TURBINE RUN-UP ROOM WHEN SPECIFICALLY AUTHORIZED BY HQ, USAF & WHEN CONSTRUCTED TO PROVIDE PROPER DECIBEL REDUCTION.

AREA FOR PROGRAMMING
GROSS AREA (SQ. FT.)
WITH PAINT SHOP **5720**
NOTE: THIS FACILITY WILL BE PROGRAMMED FOR 1ST - 200 AUTHORIZED PIECES OF GROUND SUPPORT EQUIPMENT. EXPANSION AND DEDUCTIONS FOR OTHER AUTHORIZED CAPACITIES WILL BE IN ACCORDANCE WITH AFM 88-4.
SEE SHEET 3 DESIGN GUIDES "SPECIAL NOTES."

CATEGORY CODE NO. 218-712
THIS DRAWING SUPERSEDES DEFINITIVE DRAWING NO. AD 35-32-03, DATED 21 SEPTEMBER 1955.

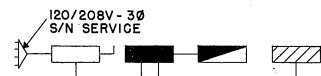
TITLE & SHEET NUMBER	REVISED	DATE	APPROVED
AD 35-32-05 RI			

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
McGAUGHAN AND JOHNSON
ARCHITECTS-ENGINEERS WASHINGTON, D. C.

AERO SPACE GROUND EQUIPMENT MAINTENANCE FACILITY TYPE A
F-106 FIGHTER SQUADRON
PLAN & SECTION

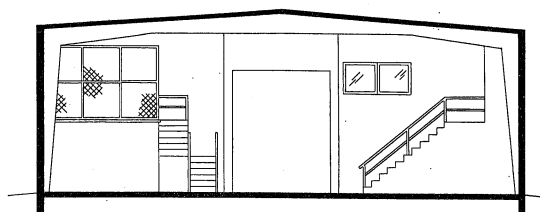
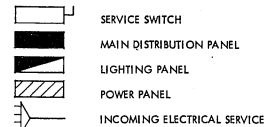
APPROVED: *[Signature]*
FOR CHIEF OF STAFF USAF

SCALE 1/8" = 1'-0"
DATE 7 MAY 1962 SHEET 1 OF 3

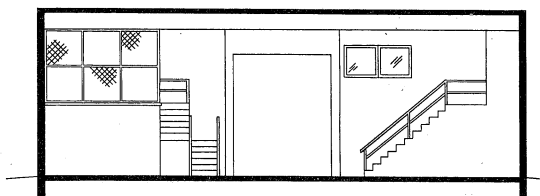


ELECTRICAL RISER DIAGRAM
NO SCALE

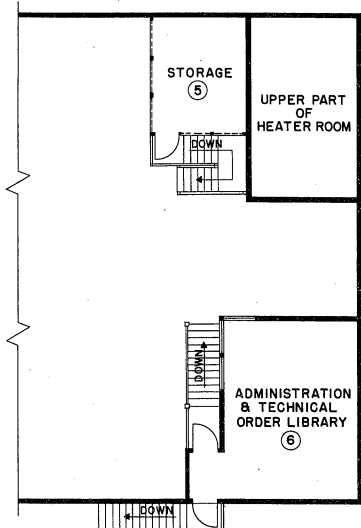
ELECTRICAL LEGEND



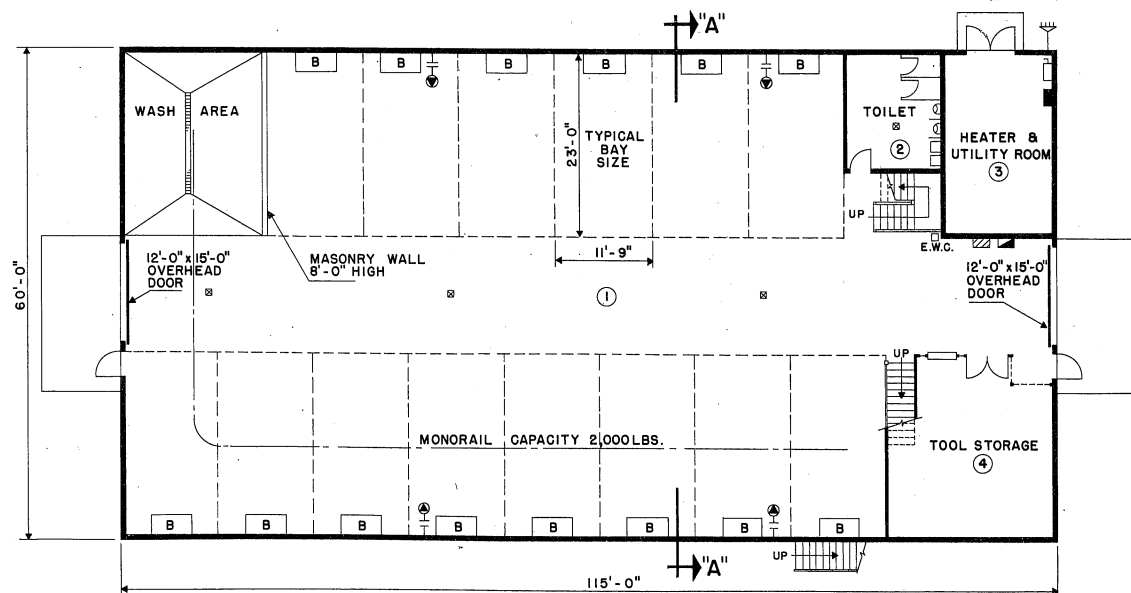
SECTION "A" - "A"
SCALE: 1/8" = 1'-0"
PRE-ENGINEERED CONSTRUCTION



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"
STANDARD CONSTRUCTION



PART SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

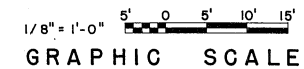
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

LEGEND

- B WORK BENCHES
 - ⊗ FLOOR DRAINS
 - ⊕ CONTACTOR/RECEPTACLE FOR M-G SET 480 V
 - E.W.C. ELECTRIC WATER COOLER
- SEE SHEET 3 FOR RISER DIAGRAM

ROOM SCHEDULE

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	97'-6" x 60'-0"	5,852
2	12'-0" x 15'-0"	180
3	14'-0" x 23'-0"	322
4	21'-0" x 23'-0"	483
5	12'-0" x 15'-0"	180
6	21'-0" x 23'-0"	483
TOTAL		7,500



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	43.7	25.2	68.9
ESTIMATED DEMAND	41.5	22.6	63.1

HEATING LOAD = 153

WATER (GPM)	
HOT	1
COLD	38
TOTAL	39
TOTAL (GPD)	3,000
SEWAGE (GPD)	2,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR 520.0

AREA FOR PROGRAMMING GROSS AREA

7,500 SQ. FT.

CATEGORY CODE NO. 218-712

THIS SHEET ADDED TO SET
SYMBOL REVISION - DESCRIPTION DATE APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AERO SPACE GROUND EQUIPMENT MAINTENANCE FACILITY TYPE B
F-106 FIGHTER SQUADRON
PLAN & SECTION

APPROVED
Daniel H. ...
FOR CHIEF OF STAFF USAF
AD 35-32-05RI
SCALE: 1/8" = 1'-0" SHEET 2 OF 3
DATE: 28 August 1972

DESIGN DATA ANALYSIS [△] (FOR SHEET 1 OF 3)

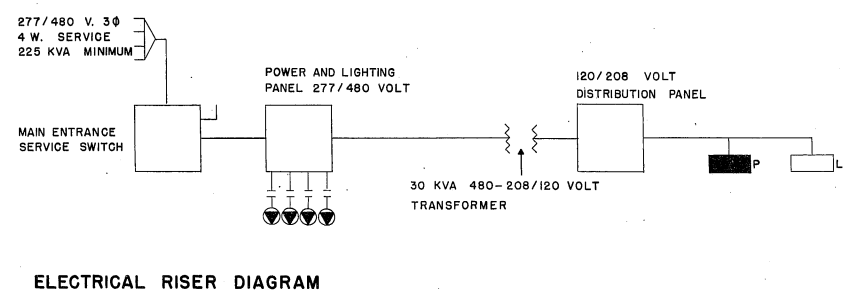
NO.	ROOM	BASIC OCCUPANCY FACTOR	DESIGN CRITERIA		MINIMUM NET DIMENSIONS	CLEAR HEIGHT REQUIRED	DIMENSIONS ON THIS PLAN		FLOOR LOADS	ELECTRICAL		MECHANICAL		HTG., AIR COND., EVAP. COOLING, ETC. SEE MECHANICAL GUIDE	REMARKS AND ADDITIONAL REQUIREMENTS
			DESIGN FACTOR	SOURCE			INTERIOR	SQ. FT.		CONVEN. OUTLETS	LIGHTING F. C.	SUPPLEMENTAL PLUMBING	VENTILATION		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	TOOL STORAGE	STOCK & TOOLS	TOOLS & SUPPLY LEVEL		9'-0"	20'-0" x 18'-0"	360		1	20 I				CONSTANT FOR ALL TEMPERATURE ZONES	
2	BATTERY	STOCK	SUPPLY & EQUIPMENT		9'-0"	6'-0" x 6'-8"	40		1	20 I	FLOOR DRAIN	MECHANICAL VENTILATION			
3	REPAIRABLE STORAGE	EQUIPMENT	EQUIPMENT SIZE		15'-0"	SEE PLAN	156		1	10 F				DROP EXTENSION CORDS	
4	WORK STALLS	EQUIPMENT	EQUIPMENT SIZE		15'-0"	8 @ 13'-0" x 18'-0"	1872		1 EA.	20 F				COMPRESSED AIR OUTLETS AND DROP EXTENSION CORDS	
5	LUBRICATION	EQUIPMENT	EQUIPMENT SIZE		15'-0"	18'-8" x 18'-0"	336		1	20 F				COMPRESSED AIR OUTLETS AND DROP EXTENSION CORDS	
6	TOILET	PERSONNEL	MEN PER FIXTURE	OCE ENG. MAN.	9'-0"	SEE PLAN	149		2	10 F	FLOOR DRAIN				
7	UTILITIES	HEATING & ELECTRICAL EQUIPMENT	DICTATED BY EQUIPMENT		9'-0"	16'-4" x 17'-4"	283		1	10 I	WATER OUTLET & FLOOR DRAIN				
8	ADMINISTRATION, T. O., LIBRARY & DISPATCHER	PERSONNEL			9'-0"	20'-0" x 17'-4"	347		4	30 F					
9	STORAGE	SUPPLIES	SUPPLY LEVEL		9'-0"	7'-4" x 16'-4"	119		1	10 I					
10	AISLE	CIRCULATION	TRAFFIC REQUIREMENTS			20'-0" x 12'-0"	240			20 F	DRINKING FOUNTAIN & FLOOR DRAINS			MOTOR EXHAUST OUTLET SYSTEM	
11	PAINT	EQUIPMENT	EQUIPMENT SIZE		13'-0"	14'-0" x 14'-4"	201		0	30 F		AFM 88-15		AIR DROP EXPLOSION PROOF ELECTRICAL FIXTURES	
12	WASH AREA	EQUIPMENT	EQUIPMENT SIZE		15'-0"	18'-0" x 18'-0"	324				HW - CW TRENCH DRAIN			COMPRESSED AIR	

EQUIPMENT SCHEDULE [△] (FOR SHEET 1 OF 3)

GENERAL										ELECTRICAL					MECHANICAL				
NO. ON PLAN	QUAN-TITY	DESCRIPTION	OPERATIONAL CRITERIA	STATUS	SPEC. NO.	A. F. STOCK NO.	APPROXIMATE DIMENSIONS OR REQUIRED CLEARANCES	REMARKS	VOLTAGE	NO. OF PHASES	LOAD	TERMINATION	FREQUENCY CPS	REMARKS	UTILITIES OTHER THAN ELECTRICITY	USAF INSTALLED EQUIPMENT ONLY	TERMINAL FITTINGS SUPPLIED W/EQUIP.	UTILITY TERMINATION	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	1	COMPRESSOR, AIR	CO/CO				2'-0" x 4'-0"		110	1	2								
B	1	GENERATOR, STEAM	AF/AF				2'-6" x 3'-6"		110/220	3	3								
C	7	BENCH, WORK	AF/AF											ONE - 110/220 OUTLET @ EACH WORK BENCH					
D	1	PRESS, DRILL-BENCH TYPE	AF/AF				2'-0" x 2'-0"		110	1	2								
E	1	GRINDER & BUFFER - BENCH TYPE	AF/AF						110	1	2								
F	1	CLEANER, METAL PARTS	AF/AF				2'-0" x 3'-0"		110	1	2								
G	1	LIFT, SINGLE POST, FRAME CONTACT TYPE	CO/CO				SEE DRAWING SHEET #1												
H	1	MONORAIL - 1 TON	CO/CO				SEE DRAWING SHEET #1												
J	2	PUMP, FUEL SERVICING, CALCULATING TYPE	CO/CO						110/220	3	3								ONE 5000 GAL. UNDERGROUND TANK WITH EACH PUMP.

EQUIPMENT SCHEDULE EXPLANATION OF COLUMN ENTRIES

- COLUMN 5**
 AF/AF ITEMS SUPPLIED AND INSTALLED BY THE AIR FORCE.
 CO/CO ITEMS SUPPLIED AND INSTALLED BY THE CONTRACTOR.
 CO/AF ITEMS SUPPLIED BY THE CONTRACTOR AND INSTALLED BY THE AIR FORCE.
- COLUMN 12**
 PHYSICAL NO. OF CONDUCTORS CARRIED TO EQUIPMENT. SYMBOL "PG" INDICATES THAT ONE OF THE CONDUCTORS INCLUDED IS PROVIDED TO GROUND THE METAL FRAME OF THE EQUIPMENT AND IS NOT SYSTEM NEUTRAL.
- COLUMN 16**
 CONTRACTOR FURNISHED OR INSTALLED BRANCH CIRCUITS MUST PROVIDE SUITABLE DISCONNECT DEVICES TO MATCH A.F. FURNISHED ELECTRICAL ITEMS.



DESIGN GUIDES

- SPECIFICATIONS**
 ALL SPECIFICATIONS WILL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
- ELECTRICAL**
 LIGHTING INTENSITIES SHOWN ARE AT WORKING LEVEL. THE NUMBER OF CONVENIENCE OUTLETS IS TABULATED. THEIR LOCATION WILL BE SELECTED BY THE DESIGN AGENCY. OUTLETS TO SERVE ITEMS TABULATED ON THE EQUIPMENT SCHEDULE ARE NOT INCLUDED IN THE COLUMN "CONVENIENCE OUTLETS." THEY WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS SHOWN ON THIS PLAN. ALL ELECTRICAL PANELS WILL BE LOCATED AS SHOWN. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 4241-4401 AND 4410.
- SYMBOLS IN COLUMN 11**
 F - FLUORESCENT
 I - INCANDESCENT
- PAINT SHOP: PROVIDE SAFETY SWITCHES TO MAKE DRYING LAMPS AND SPRAY PAINTING UNITS INOPERATIVE UNLESS FIRE DOOR IS CLOSED AND VENTILATING SYSTEM IS IN OPERATION.
- WALL RECEPTACLE AND INTERLOCKED CONTACTORS SHALL COMPLY WITH PARAGRAPH 8-5, AFM 88-15 FOR PORTABLE MOTOR GENERATOR (AGE) UNITS.
- FOR FOUR RECEPTACLES THE TRANSFORMER BANK SHOULD NOT BE SMALLER THAN 225 KVA.
- ARCHITECTURAL**
 WINDOW AND DOOR LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND SERVE AS A DESIGN GUIDE, ETC. DIMENSIONS NOTED [17-50] ARE CRITICAL AND MUST BE HELD.
- APPARATUS DOORS TO BE OVERHEAD TYPE, NON-MOTORIZED.
- ALL ENTRANCES SHALL HAVE CONCRETE PADS.

STRUCTURAL

DIMENSIONS MAY BE ADJUSTED FOR STRUCTURAL ADAPTATION. LIVE LOADS WILL BE IN ACCORDANCE WITH PART IV, CHAPTER 1, ENGINEERING MANUAL FOR MILITARY CONSTRUCTION.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION WILL BE IN ACCORDANCE WITH AFM 88-15.

SPECIAL NOTES

- WASH RACK MAY BE ENCLOSED IN AREAS HAVING HEATING DESIGN TEMPERATURE (AFM 88-15) OF 5° OR LESS; SCOPE WILL BE INCREASED ACCORDINGLY.
- WASH RACK MAY BE USED AS GAS TURBINE RUN-UP ROOM WHEN SPECIFICALLY AUTHORIZED BY HQUSAF AND WHEN CONSTRUCTED TO PROVIDE PROPER DECIBEL REDUCTION. EACH STALL WILL HAVE 110V., 220V., AND 440V. OUTLETS AND COMPRESSED AIR.

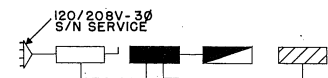
CATEGORY CODE NO. 218-712

	TITLE, SHEET NUMBER & SCHEDULE HEADINGS REVISION	DATE	APPROVED
△		22/5/72	OB
SYMBOL	REVISION-DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 McGAUGHAN AND JOHNSON
 ARCHITECTS-ENGINEERS WASHINGTON, D. C.

△ **AERO SPACE GROUND EQUIPMENT MAINTENANCE FACILITY TYPE A**
 F-106 FIGHTER SQUADRON
 DESIGN DATA & EQUIPMENT SCHEDULE

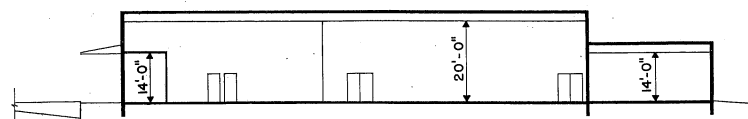
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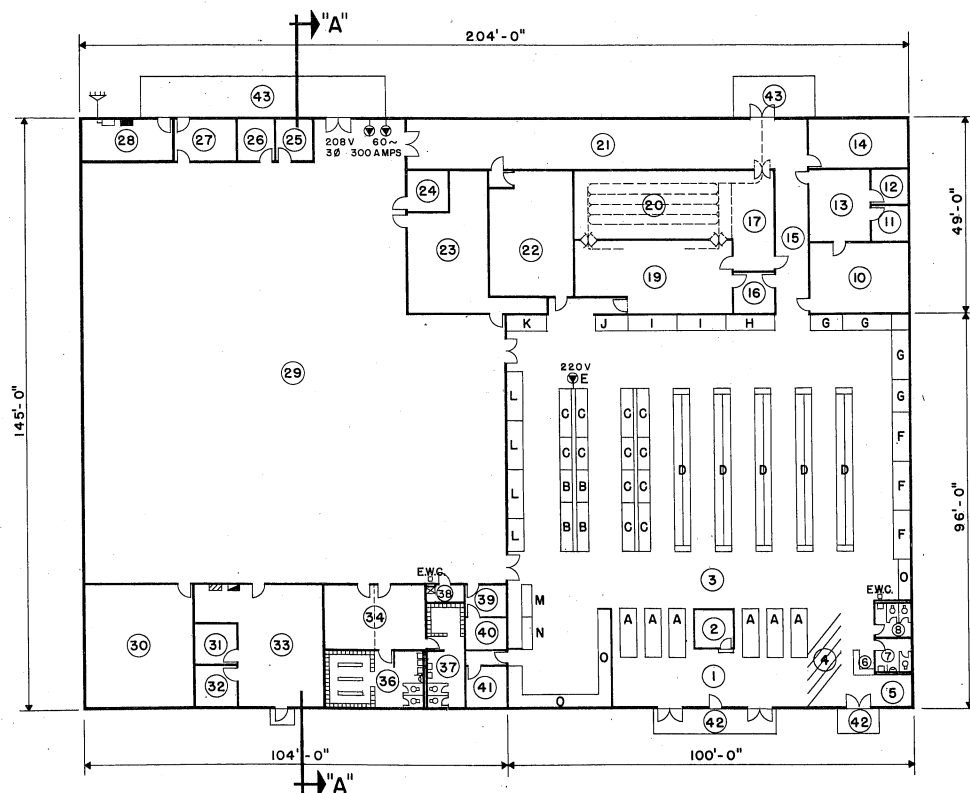
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER



SECTION "A" - "A"
SCALE: 1/16" = 1'-0"

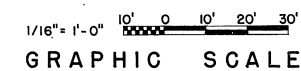


FLOOR PLAN
SCALE 1/16" = 1'-0"

EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	QUANTITY
A	CHECK OUT COUNTERS	6 COUNTERS
B	ICE CREAM DISPLAY CASES	2 @ 8' & 2 @ 12' = 40'
C	FROZEN FOOD DISPLAY CASES	6 @ 8' & 6 @ 12' = 120'
D	GONDOLA SHELVING - DOUBLE WITH END DISPLAY	400'
E	220V SERVICE FOR BARBECUE OVENS	
F	PRODUCE - NON-REFRIGERATED DISPLAY CASES	3 @ 12' = 36'
G	PRODUCE - REFRIGERATED DISPLAY CASES	2 @ 8' & 2 @ 12' = 40'
H	PRE-PACKAGED MEAT DISPLAY CASES	1 @ 12'
I	FRESH MEAT DISPLAY CASES	2 @ 12' = 24'
J	DELICATESSEN DISPLAY CASE	1 @ 8'
K	MILK - BOSSY DISPLAY CASE	1 @ 10'
L	DAIRY DISPLAY CASES	1 @ 8' & 3 @ 12' = 44'
M	FRESH BAKERY NON-REFRIGERATED DISPLAY CASE	1 @ 8'
N	FRESH BAKERY REFRIGERATED DISPLAY CASE	1 @ 8'
O	WALL SHELVING	57'

ROOM SCHEDULE*		
ROOM NO.	DESCRIPTION	GROSS AREA, SQ. FT.
1	VESTIBULE	288
2	SALES STORE MANAGER'S DIAS	100
3	SALES AREA	8,748
4	GROCERY CART AREA	192
5	PATRON RECEPTION AREA	176
6	1-D COUNTER AREA	30
7	PATRON'S TOILET MEN	83
8	PATRON'S TOILET WOMEN	83
9		
10	PRODUCE PROCESSING ROOM	456
11	PRODUCE STORAGE ROOM	81
12	PRODUCE STORAGE ROOM	81
13	PRODUCE STORAGE ROOM	270
14	OPERATING SUPPLY ROOM (MEAT & PRODUCE)	325
15	8'-0" WIDE CORRIDOR	280
16	MEAT MARKET MANAGER'S OFFICE	100
17	MEAT STORAGE	220
18		
19	MEAT PROCESSING ROOM	720
20	CARCASS BEEF STORAGE ROOM	693
21	DRY STORAGE ROOM	1,287
22	FROZEN FOOD STORAGE ROOM	661
23	DAIRY PROCESSING & STORAGE	664
24	CANDY STORE	100
25	WAREHOUSE MANAGER'S OFFICE	100
26	VETERINARIAN'S OFFICE	100
27	TRASH ROOM	177
28	HEATING & UTILITY ROOM	262
29	DRY STORAGE ROOM (CEILING HEIGHT 20'-0")	10,179
30	SENSITIVE ITEM STORAGE	810
31	DEPUTY CHIEF'S OFFICE	100
32	CHIEF'S OFFICE	100
33	ADMINISTRATIVE OFFICE	760
34	CONFERENCE ROOM & BREAK ROOM	408
35		
36	MEN'S TOILET & LOCKER ROOM	362
37	WOMEN'S TOILET & LOCKER ROOM	242
38	JANITOR'S CLOSET	42
39	FRESH BAKERY NON-REFRIGERATED STORAGE	80
40	FRESH BAKERY REFRIGERATED STORAGE	80
41	CASHIER'S OFFICE & VAULT ROOM	140
42	PLATFORMS	120
43	RECEIVING DOCKS	800
	TOTAL	30,500

* ALL CEILING HEIGHTS 14'-0" EXCEPT AS NOTED.



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	CLASS 9	CLASS 13	CLASS 18	CLASS 23
ELECTRICITY (KW)				
CONNECTED LOAD				
REFRIGERATION	40.0	65.0	118.0	150.0
LIGHTING	91.0	153.0	265.0	306.0
POWER	152.0	255.0	354.0	367.5
TOTAL	283.0	473.0	737.0	823.5
ESTIMATED DEMAND				
REFRIGERATION	40.0	65.0	118.0	150.0
LIGHTING	86.5	145.3	252.2	290.7
POWER	137.0	229.5	318.6	330.7
TOTAL	263.5	439.8	682.8	771.4
WATER (GPM)				
HOT	16	19	23	30
COLD	69	74	84	96
TOTAL	74	79	90	110
WATER (GPD)	6,750	7,500	8,250	9,750
SEWAGE (GPD)	4,500	5,000	5,500	6,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F	CLASS 9	CLASS 13	CLASS 18	CLASS 23
M/BTU/HR	2,063	4,578	7,806	11,368.7

AREA FOR PROGRAMMING GROSS AREA*

CLASS 9	30,500 SQ. FT.
CLASS 13	51,000 SQ. FT.
CLASS 18	88,500 SQ. FT.
CLASS 23	122,500 SQ. FT.

* FACILITY SCOPE SHALL BE IN ACCORDANCE WITH AFM 86-4.

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.	CLASS 9	CLASS 13	CLASS 18	CLASS 23
TONS OF REFRIGERATION	40	65	118	150

CATEGORY CODE NO. 740 - 266

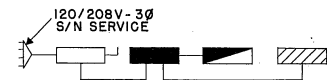
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA

COMMISSARY STORE
CLASS 9

PLAN & SECTION

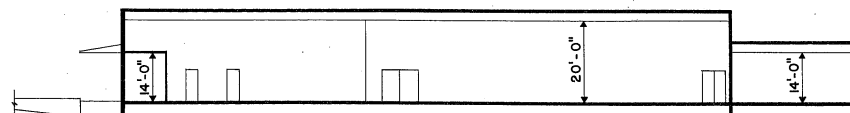
APPROVED <i>Daniel Spector, Col USAF</i>	AD 36-07-26
FOR CHIEF OF STAFF USAF	SCALE: 1/16" = 1'-0" DATE: 28 August 72
	SHEET 1 OF 5



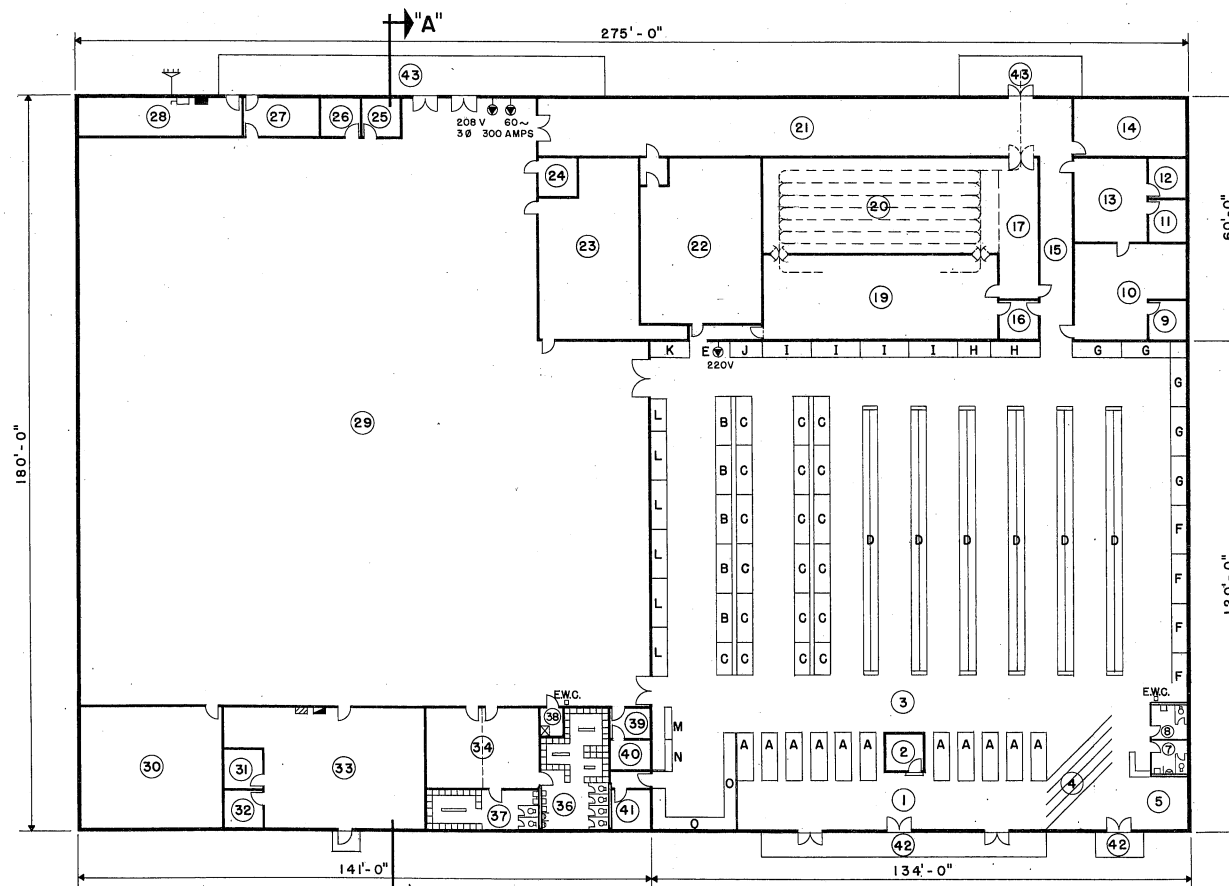
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER



SECTION "A" - "A"
SCALE 1/16" = 1'-0"

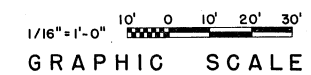


FLOOR PLAN
SCALE 1/16" = 1'-0"

EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	QUANTITY
A	CHECK OUT COUNTER	11 COUNTERS
B	ICE CREAM DISPLAY CASES	5 @ 12' = 60'
C	FROZEN FOOD DISPLAY CASES	4 @ 8' & 15 @ 12' = 212'
D	GONDOLA SHELVING - DOUBLE WITH END DISPLAY	816'
E	220 V SERVICE FOR BARBECUE OVENS	
F	PRODUCE - NON-REFRIGERATED DISPLAY CASES	4 @ 12' = 48'
G	PRODUCE - REFRIGERATED DISPLAY CASES	5 @ 12' = 60'
H	PRE-PACKAGED MEAT DISPLAY CASES	1 @ 8' & 1 @ 12' = 20'
I	FRESH MEAT DISPLAY CASES	4 @ 12' = 48'
J	DELICATESSEN DISPLAY CASE	1 @ 8'
K	MILK - BOSSY DISPLAY CASE	1 @ 10'
L	DAIRY DISPLAY CASES	1 @ 8' & 5 @ 12' = 68'
M	FRESH BAKERY NON-REFRIGERATED DISPLAY CASE	1 @ 8'
N	FRESH BAKERY REFRIGERATED DISPLAY CASE	1 @ 8'
O	WALL SHELVING	41'

ROOM SCHEDULE *		
ROOM NO.	DESCRIPTION	GROSS AREA, SQ. FT.
1	VESTIBULE	876
2	SALES STORE MANAGER'S DIAS	100
3	SALES AREA	14,272
4	GROCERY CART AREA	360
5	PATRON RECEPTION AREA	273
6	I-D COUNTER AREA	45
7	PATRON'S TOILET MEN	77
8	PATRON'S TOILET WOMEN	77
9	PRODUCE MANAGER'S OFFICE	100
10	PRODUCE PROCESSING ROOM	572
11	PRODUCE STORAGE ROOM	110
12	PRODUCE STORAGE ROOM	110
13	PRODUCE STORAGE ROOM (MEAT & PRODUCE)	396
14	OPERATING SUPPLY ROOM (MEAT & PRODUCE)	392
15	8'-0" WIDE CORRIDOR	368
16	MEAT MARKET MANAGER'S OFFICE	100
17	MEAT STORAGE	360
18		
19	MEAT PROCESSING ROOM	1,340
20	CARCASS BEEF STORAGE ROOM	1,392
21	DRY STORAGE ROOM	1,820
22	FROZEN FOOD STORAGE ROOM	1,260
23	DAIRY PROCESSING & STORAGE	1,060
24	CANDY STORE	100
25	WAREHOUSE MANAGER'S OFFICE	100
26	VETERINARIAN'S OFFICE	100
27	TRASH ROOM	190
28	HEATING & UTILITY ROOM	410
29	DRY STORAGE ROOM (CEILING HEIGHT 20'-0")	18,914
30	SENSITIVE ITEM STORAGE	1,080
31	DEPUTY CHIEF'S OFFICE	100
32	CHIEF'S OFFICE	100
33	ADMINISTRATIVE OFFICE	1,300
34	CONFERENCE ROOM & BREAK ROOM	546
35		
36	MEN'S TOILET & LOCKER ROOM	468
37	WOMEN'S TOILET & LOCKER ROOM	294
38	JANITOR'S CLOSET	42
39	FRESH BAKERY NON-REFRIGERATED STORAGE	80
40	FRESH BAKERY REFRIGERATED STORAGE	80
41	CASHIER'S OFFICE & VAULT ROOM	140
42	PLATFORMS	246
43	RECEIVING DOCKS	1,250
	TOTAL	51,000

* ALL CEILING HEIGHTS 14'-0" EXCEPT AS NOTED.



DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.

CATEGORY CODE NO. 740 - 266

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

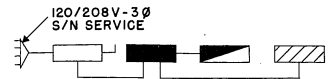
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

COMMISSARY STORE CLASS 13
PLAN & SECTION

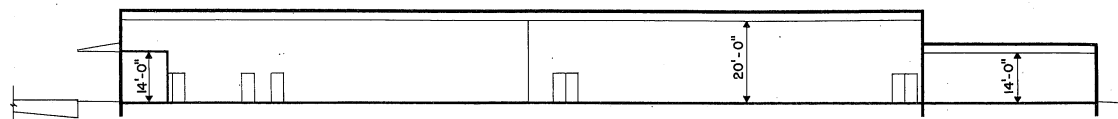
APPROVED
Daniel H. Spector, Col USAF
FOR CHIEF OF STAFF USAF

AD 36-07-26
SCALE: 1/16" = 1'-0"
DATE: 28 August 72

SHEET 2 OF 5



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE 1/16" = 1'-0"

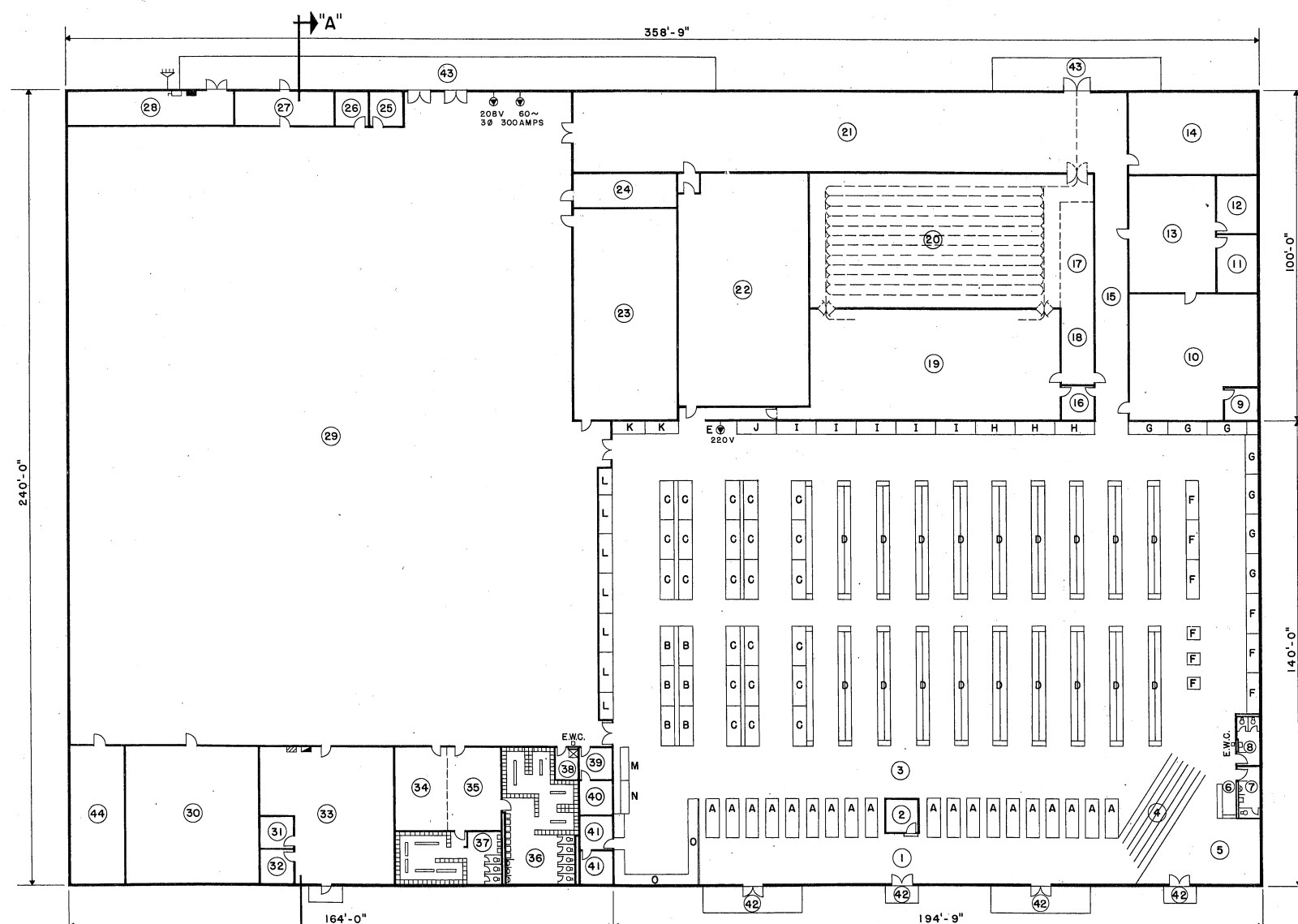
ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER

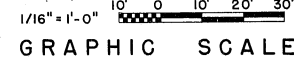
EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	QUANTITY
A	CHECK OUT COUNTERS	19 COUNTERS
B	ICE CREAM DISPLAY CASES	6 @ 12' = 72'
C	FROZEN FOOD DISPLAY CASES	24 @ 12' = 288'
D	GONDOLA SHELVING-DOUBLE WITH END DISPLAY	648'
E	220V SERVICE FOR BARBECUE OVENS	
F	PRODUCE - NON-REFRIGERATED DISPLAY CASES	6 @ 12' = 72'
G	PRODUCE - REFRIGERATED DISPLAY CASES	7 @ 12' = 84'
H	PRE-PACKAGED MEAT DISPLAY CASES	3 @ 12' = 36'
I	FRESH MEAT DISPLAY CASES	5 @ 12' = 60'
J	DELICATESSEN DISPLAY CASE	1 @ 12'
K	MILK - BOSSY DISPLAY CASE	2 @ 10' = 20'
L	DAIRY DISPLAY CASES	2 @ 8' & 5 @ 12' = 76'
M	FRESH BAKERY NON-REFRIGERATED DISPLAY CASE	1 @ 10'
N	FRESH BAKERY REFRIGERATED DISPLAY CASE	1 @ 10'
O	WALL SHELVING	48'

ROOM SCHEDULE *		
ROOM NO.	DESCRIPTION	GROSS AREA, SQ. FT.
1	VESTIBULE	1,792
2	SALES STORE MANAGER'S DIAS	100
3	SALES AREA	24,217
4	GROCERY CART AREA	440
5	PATRON RECEPTION AREA	400
6	I-D COUNTER AREA	60
7	PATRON'S TOILET MEN	128
8	PATRON'S TOILET WOMEN	128
9	PRODUCE MANAGER'S OFFICE	100
10	PRODUCE PROCESSING ROOM	1,460
11	PRODUCE STORAGE ROOM	234
12	PRODUCE STORAGE ROOM	234
13	PRODUCE STORAGE ROOM	972
14	OPERATING SUPPLY ROOM (MEAT & PRODUCE)	1,000
15	8'-0" WIDE CORRIDOR	750
16	MEAT MARKET MANAGER'S OFFICE	100
17	MISCELLANEOUS MEAT STORAGE	420
18	PRE-PACKAGED MEAT STORAGE	230
19	MEAT PROCESSING ROOM	2,744
20	CARCASS BEEF STORAGE ROOM	3,116
21	DRY STORAGE ROOM	4,169
22	FROZEN FOOD STORAGE ROOM	2,840
23	DAIRY PROCESSING & STORAGE	1,968
24	CANDY STORE	338
25	WAREHOUSE MANAGER'S OFFICE	110
26	VETERINARIAN'S OFFICE	110
27	TRASH ROOM	352
28	HEATING & UTILITY ROOM	561
29	DRY STORAGE ROOM (CEILING HEIGHT 20'-0")	30,139
30	SENSITIVE ITEM STORAGE	1,722
31	DEPUTY CHIEF'S OFFICE	100
32	CHIEF'S OFFICE	100
33	ADMINISTRATIVE OFFICE	1,522
34	CONFERENCE ROOM	408
35	BREAK ROOM	408
36	MEN'S TOILET & LOCKER ROOM	896
37	WOMEN'S TOILET & LOCKER ROOM	528
38	JANITOR'S CLOSET	70
39	FRESH BAKERY NON-REFRIGERATED STORAGE	100
40	FRESH BAKERY REFRIGERATED STORAGE	100
41	CASHIER'S OFFICE & VAULT ROOM	220
42	PLATFORMS	290
43	RECEIVING DOCKS	2,110
44	OPERATING SUPPLY STORAGE ROOM	714
TOTAL		89,500

* ALL CEILING HEIGHTS 14'-0" EXCEPT AS NOTED.



FLOOR PLAN
SCALE 1/16" = 1'-0"



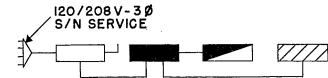
CATEGORY CODE NO. 740-266

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

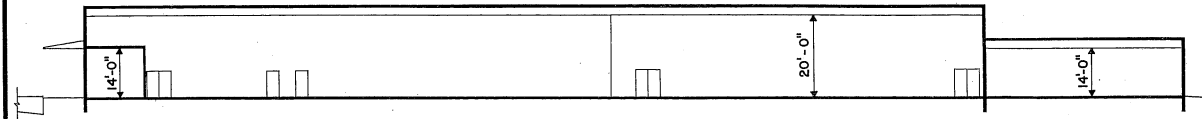
COMMISSARY STORE
CLASS 18
PLAN & SECTION

APPROVED: *Daniel H. Hester, Col USAF*
FOR CHIEF OF STAFF USAF
AD 36-07-26
SCALE 1/16" = 1'-0"
DATE: 28 August 72
SHEET 3 OF 5

C2



ELECTRICAL RISER DIAGRAM
NO SCALE



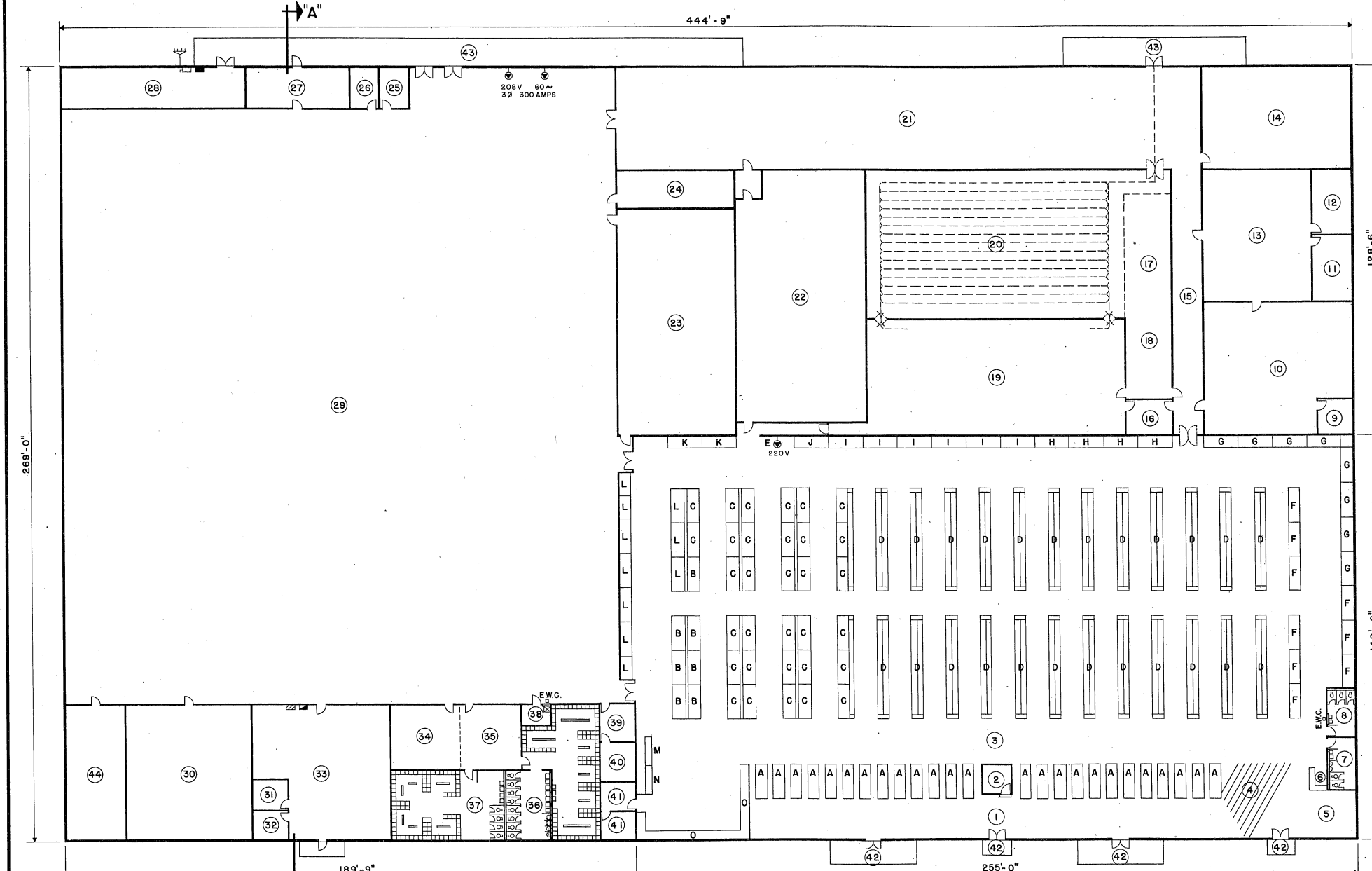
SECTION "A" - "A"
SCALE 1/16" = 1'-0"

ELECTRICAL LEGEND

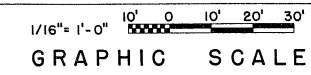
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- ELECTRIC WATER COOLER

EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	QUANTITY
A	CHECK OUT COUNTERS	25 COUNTERS
B	ICE CREAM DISPLAY CASES	7 @ 12' = 84'
C	FROZEN FOOD DISPLAY CASES	32 @ 12' = 384'
D	GONDOLA SHELVING - DOUBLE WITH END DISPLAY	1,728'
E	220 V SERVICE FOR BARBECUE OVENS	
F	PRODUCE - NON-REFRIGERATED DISPLAY CASES	9 @ 12' = 108'
G	PRODUCE - REFRIGERATED DISPLAY CASES	8 @ 12' = 96'
H	PRE-PACKAGED MEAT DISPLAY CASES	4 @ 12' = 48'
I	FRESH MEAT DISPLAY CASES	6 @ 12' = 72'
J	DELICATESSEN DISPLAY CASE	1 @ 12'
K	MILK - BOSSY DISPLAY CASES	2 @ 10' = 20'
L	DAIRY DISPLAY CASES	3 @ 8' & 7 @ 12' = 108'
M	FRESH BAKERY NON-REFRIGERATED DISPLAY CASE	1 @ 10'
N	FRESH BAKERY REFRIGERATED DISPLAY CASE	1 @ 10'
O	WALL SHELVING	62'

ROOM SCHEDULE *		
ROOM NO.	DESCRIPTION	GROSS AREA, sq. FT.
1	VESTIBULE	2,310
2	SALES STORE MANAGER'S DIAS	100
3	SALES AREA	31,982
4	GROCERY CART AREA	624
5	PATRON RECEPTION AREA	408
6	I-D COUNTER AREA	48
7	PATRON'S TOILET MEN	185
8	PATRON'S TOILET WOMEN	170
9	PRODUCE MANAGER'S OFFICE	144
10	PRODUCE PROCESSING ROOM	2,320
11	PRODUCE STORAGE ROOM	322
12	PRODUCE STORAGE ROOM	322
13	PRODUCE STORAGE ROOM	1,794
14	OPERATING SUPPLY ROOM (MEAT & PRODUCE)	1,908
15	8'-0" WIDE CORRIDOR	925
16	MEAT MARKET MANAGER'S OFFICE	192
17	MISCELLANEOUS MEAT STORAGE	840
18	PRE-PACKAGED MEAT STORAGE	448
19	MEAT PROCESSING ROOM	3,957
20	CARCASS BEEF STORAGE ROOM	4,738
21	DRY STORAGE ROOM	7,416
22	FROZEN FOOD STORAGE ROOM	4,071
23	DAIRY PROCESSING & STORAGE	3,339
24	CANDY STORE	546
25	WAREHOUSE MANAGER'S OFFICE	140
26	VETERINARIAN'S OFFICE	140
27	TRASH ROOM	504
28	HEATING & UTILITY ROOM	910
29	DRY STORAGE ROOM (CEILING HEIGHT 20'-0")	39,739
30	SENSITIVE ITEM STORAGE	1,920
31	DEPUTY CHIEF'S OFFICE	120
32	CHIEF'S OFFICE	120
33	ADMINISTRATIVE OFFICE	1,860
34	CONFERENCE ROOM	529
35	BREAK ROOM	529
36	MEN'S TOILET & LOCKER ROOM	1,414
37	WOMEN'S TOILET & LOCKER ROOM	1,000
38	JANITOR'S CLOSET	80
39	FRESH BAKERY NON-REFRIGERATED STORAGE	168
40	FRESH BAKERY REFRIGERATED STORAGE	168
41	CASHIER'S OFFICE & VAULT ROOM	240
42	PLATFORMS	290
43	RECEIVING DOCKS	2,560
44	OPERATING SUPPLY STORAGE ROOM	960
TOTAL		122,500



FLOOR PLAN
SCALE 1/16" = 1'-0"



* ALL CEILING HEIGHTS 14'-0" EXCEPT AS NOTED.

CATEGORY CODE NO. 740-266

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

COMMISSARY STORE
CLASS 23
PLAN & SECTION

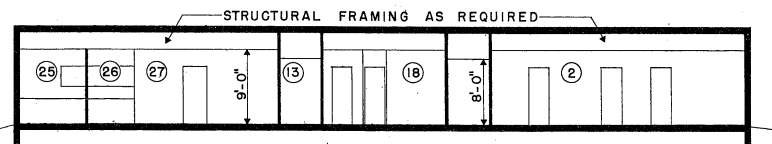
APPROVED: *Daniel M. ... Col. USAF*
FOR CHIEF OF STAFF USAF
DATE: 28 August 72
AD 36-07-26
SCALE 1/16" = 1'-0"
SHEET 4 OF 5



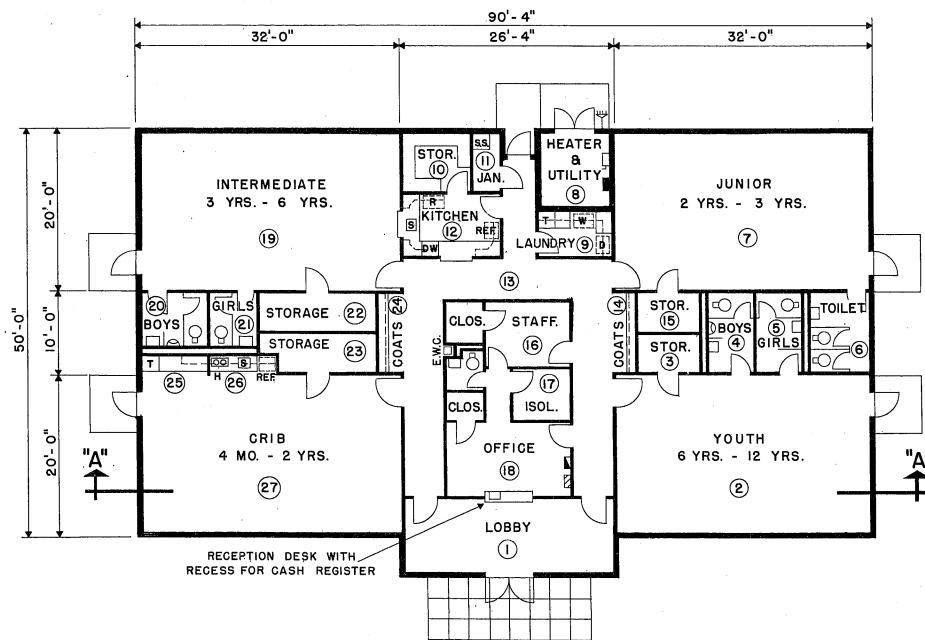
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE I
SCALE 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	15	15.75	13.5	44.25
ESTIMATED DEMAND	15	14.96	12.15	42.11

WATER (GPM)	SEWAGE (GPD)
HOT	17
COLD	48
TOTAL	70
TOTAL (GPD)	18,000
SEWAGE (GPD)	12,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 225.2

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 76° WB
TONS OF REFRIGERATION 15

AREA FOR PROGRAMMING GROSS AREA 4,550 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

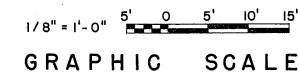
CATEGORY CODE NO. 740-884

ROOM SCHEDULE			
NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	25'-6" x 9'-0"	230
2	YOUTH (6 YRS. - 12 YRS.)	31'-6" x 19'-0"	598
3	STORAGE	7'-6" x 4'-6"	33
4	BOYS	5'-6" x 9'-6"	52
5	GIRLS	5'-6" x 9'-6"	52
6	TOILET	7'-6" x 9'-6"	71
7	JUNIOR (2 YRS. - 3 YRS.)	31'-6" x 19'-0"	598
8	HEATER & UTILITY ROOM	8'-6" x 9'-0"	77
9	LAUNDRY	9'-0" x 5'-6"	49
10	FOOD STORAGE	8'-6" x 7'-0"	60
11	JANITOR	3'-0" x 7'-0"	21
12	KITCHEN	12'-0" x 7'-6"	90
13	CORRIDOR	5'-0" WIDE	370
14	COATS	3'-0" x 9'-6"	28
15	STORAGE	7'-6" x 4'-6"	34
16	STAFF	12'-0" x 10'-6"	131
17	ISOLATION	7'-0" x 6'-0"	42
18	OFFICE	15'-0" x 11'-6"	173
19	INTERMEDIATE (3 YRS. - 6 YRS.)	31'-6" x 19'-0"	598
20	BOYS	8'-0" x 6'-6"	52
21	GIRLS	5'-6" x 6'-6"	35
22	STORAGE	14'-0" x 4'-8"	63
23	STORAGE	14'-0" x 4'-8"	63
24	COATS	3'-0" x 9'-6"	28
25	DIAPER ROOM	8'-0" x 2'-6"	20
26	KITCHEN	6'-0" x 2'-6"	15
27	CRIB (4 MOS. - 2 YRS.)	31'-6" x 19'-0"	598

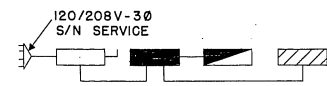
ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

- CLOS. CLOSET
- D DRYER (NIC)
- DW. DISHWASHER
- E.W.C. ELECTRIC WATER COOLER
- H HOT PLATE
- ISOL ISOLATION
- JAN. JANITOR
- NIC. NOT IN CONTRACT
- R RANGE (NIC)
- REF. REFRIGERATOR
- S SINK
- S.S. SERVICE SINK
- STOR. STORAGE
- T TUB
- W WASHER (NIC)

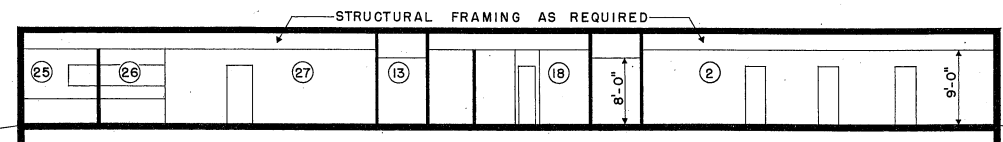
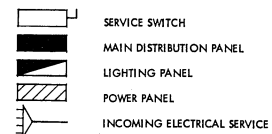


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
CHILD CARE CENTER			
(TYPE I)			
PLAN & SECTION			
APPROVED	AD 36-54-01		
<i>Richard B. Howell</i>	SCALE: 1/8" = 1'-0"		
FOR CHIEF OF STAFF USAF	DATE: 16 MAR 73	SHEET 1 OF 3	

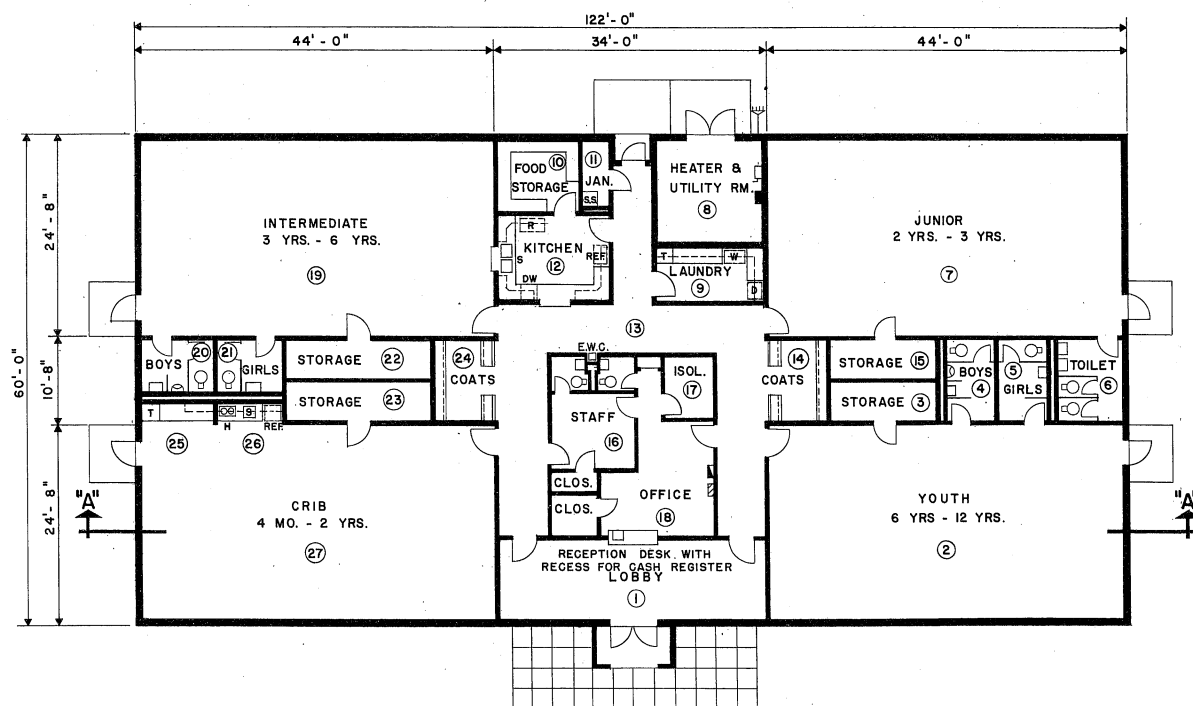


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE 2
SCALE: 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		32.2	25.0	21.4	78.6
ESTIMATED DEMAND		32.2	23.75	19.3	75.25
WATER (GPM)					
HOT	16				
COLD	70				
TOTAL	74				
TOTAL (GPD) 30,000					
SEWAGE (GPD)	20,000				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 400.6

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 32.2

AREA FOR PROGRAMMING GROSS AREA 7,140 SQ. FT.

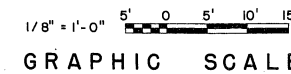
ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	24'-0" x 9'-6"	228
2	YOUTH (6 YRS. - 12 YRS.)	43'-0" x 23'-6"	1,010
3	STORAGE	13'-0" x 4'-6"	59
4	BOYS	6'-0" x 10'-0"	60
5	GIRLS	6'-0" x 10'-0"	60
6	TOILET	8'-0" x 10'-0"	80
7	JUNIOR (2 YRS. - 3 YRS.)	43'-0" x 23'-6"	1,010
8	HEATER & UTILITY ROOM	13'-0" x 12'-6"	162
9	LAUNDRY	13'-6" x 6'-6"	87
10	FOOD STORAGE	10'-0" x 8'-6"	85
11	JANITOR	3'-6" x 10'-0"	35
12	KITCHEN	14'-0" x 10'-0"	147
13	CORRIDOR	6'-0" WIDE	459
14	COATS	7'-6" x 10'-0"	75
15	STORAGE	13'-0" x 4'-6"	59
16	STAFF	10'-0" x 11'-0"	110
17	ISOLATION	6'-0" x 7'-6"	45
18	OFFICE	14'-0" x 14'-0"	196
19	INTERMEDIATE (3 YRS. - 6 YRS.)	43'-0" x 23'-6"	1,010
20	BOYS	9'-0" x 6'-6"	57
21	GIRLS	8'-0" x 6'-6"	51
22	STORAGE	17'-8" x 4'-6"	80
23	STORAGE	17'-8" x 4'-6"	80
24	COATS	7'-6" x 10'-0"	75
25	DIAPER ROOM	9'-0" x 2'-6"	19
26	HOT PLATE & KITCHEN	8'-0" x 2'-6"	17
27	CRIB (4 MOS. - 2 YRS.)	43'-0" x 23'-6"	1,010

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

CLOS.	CLOSET
D	DRYER (NIC)
DW.	DISHWASHER
E.W.C.	ELECTRIC WATER COOLER
H	HOT PLATE
ISOL.	ISOLATION
JAN.	JANITOR
NIC.	NOT IN CONTRACT
R	RANGE (NIC)
REF.	REFRIGERATOR
S	SINK
S.S.	SERVICE SINK
STOR.	STORAGE
T	TUB
W	WASHER (NIC)



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

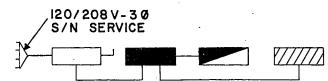
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 740-884

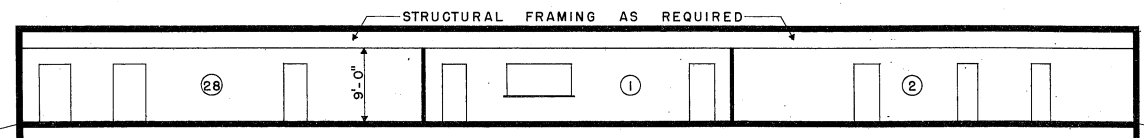
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
CHILD CARE CENTER			
(TYPE 2)			
PLAN & SECTION			
APPROVED	AD 36-54-01		
<i>R. J. ...</i>	SCALE: 1/8" = 1'-0"		
FOR CHIEF OF STAFF	USAF	DATE: 12 MARCH 73	SHEET 2 OF 3



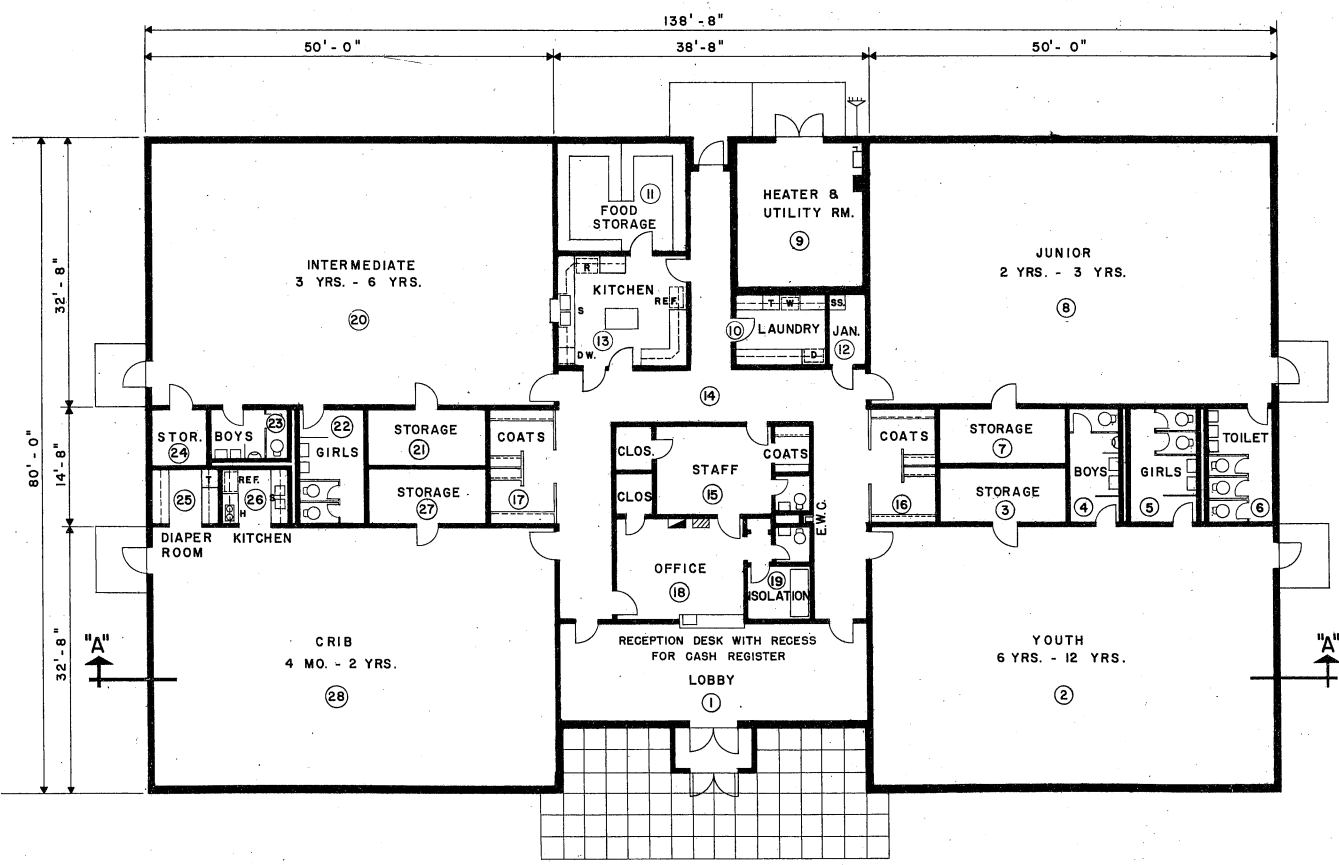
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE 3
SCALE 1/8" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		46	36.75	31.5	114.1
ESTIMATED DEMAND		46	35.0	28.35	109.35

	WATER (GPM)
HOT	23
COLD	80
TOTAL	83
TOTAL (GPD)	45,000

	SEWAGE (GPD)
	30,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 568.6

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 78° WB
TONS OF REFRIGERATION 46

AREA FOR PROGRAMMING

GROSS AREA 10,500 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

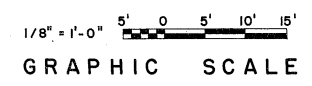
ROOM SCHEDULE

NO.	DESCRIPTION	DIMENSIONS	AREAS
1	LOBBY	37'-6" x 12'-0"	450
2	YOUTH (6 YRS. - 12 YRS.)	49'-0" x 31'-6"	1,544
3	STORAGE	15'-6" x 6'-8"	103
4	BOYS	6'-0" x 14'-0"	84
5	GIRLS	8'-0" x 14'-0"	112
6	TOILET	8'-0" x 14'-0"	112
7	STORAGE	15'-6" x 6'-8"	103
8	JUNIOR (2 YRS. - 3 YRS.)	49'-0" x 31'-6"	1,544
9	HEATER & UTILITY ROOM	15'-6" x 17'-6"	271
10	LAUNDRY	11'-0" x 8'-8"	139
11	FOOD STORAGE	15'-10" x 13'-4"	160
12	JANITOR	4'-6" x 8'-8"	43
13	KITCHEN	15'-10" x 13'-6"	213
14	CORRIDOR	6'-6" WIDE	555
15	STAFF	19'-0" x 10'-10"	205
16	COATS	8'-0" x 14'-0"	119
17	COATS	8'-0" x 14'-0"	119
18	OFFICE	15'-6" x 12'-6"	193
19	ISOLATION	8'-0" x 9'-4"	75
20	INTERMEDIATE (3 YRS. - 6 YRS.)	49'-0" x 31'-6"	1,544
21	STORAGE	14'-0" x 7'-9"	113
22	GIRLS	8'-0" x 14'-0"	112
23	BOYS	9'-0" x 6'-0"	57
24	STORAGE	6'-8" x 6'-9"	45
25	DIAPER ROOM	8'-0" x 6'-6"	52
26	KITCHEN	8'-0" x 6'-6"	52
27	STORAGE	14'-6" x 6'-6"	94
28	CRIB (4 MOS. - 2 YRS.)	49'-0" x 31'-6"	1,544

ROOM SIZES AND AREAS ARE INSIDE NET DIMENSIONS.

LEGEND

- CLOS. CLOSET
- D. DRYER (NIC)
- D.W. DISHWASHER
- E.W.C. ELECTRIC WATER COOLER
- H. HOT PLATE
- JAN. JANITOR
- NIC. NOT IN CONTRACT
- R. RANGE (NIC)
- REF. REFRIGERATOR
- S. SINK
- S.S. SERVICE SINK
- T. TUB
- W. WASHER (NIC)



CATEGORY CODE NO. 740-884

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

CHILD CARE CENTER
(TYPE 3)

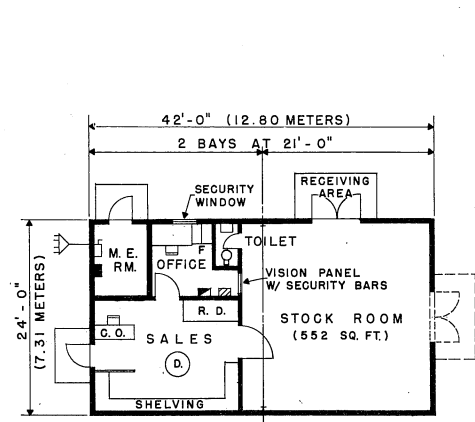
PLAN & SECTION

APPROVED: *Richard B. Spector*

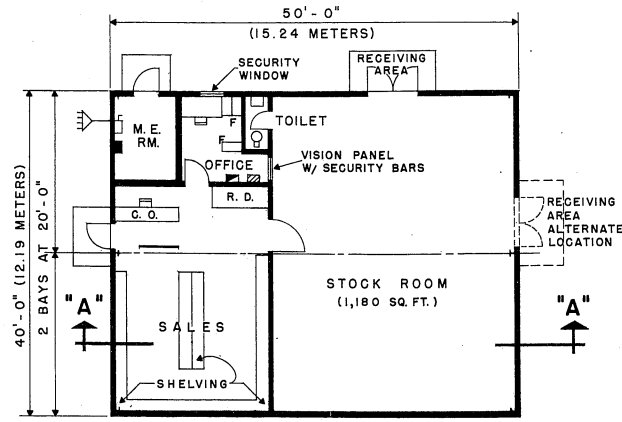
AD 36-54-01

SCALE: 1/8" = 1'-0"
DATE: 16 MARCH 73

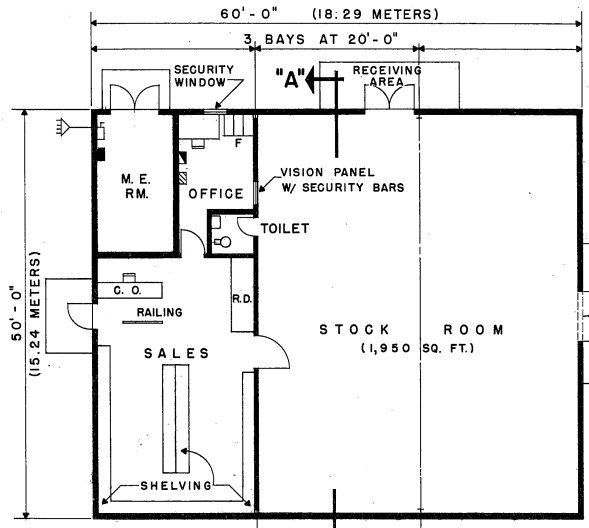
FOR CHIEF OF STAFF USAF SHEET 3 OF 3



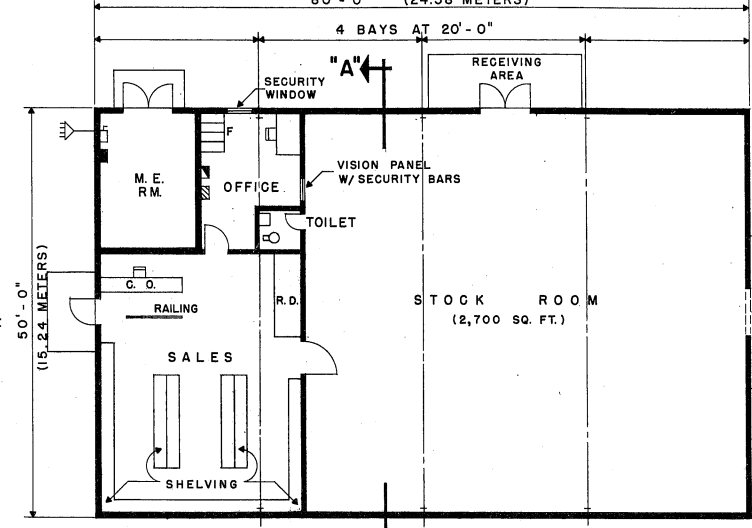
FLOOR PLAN - TYPE I
SCALE: 1/8" = 1'-0"



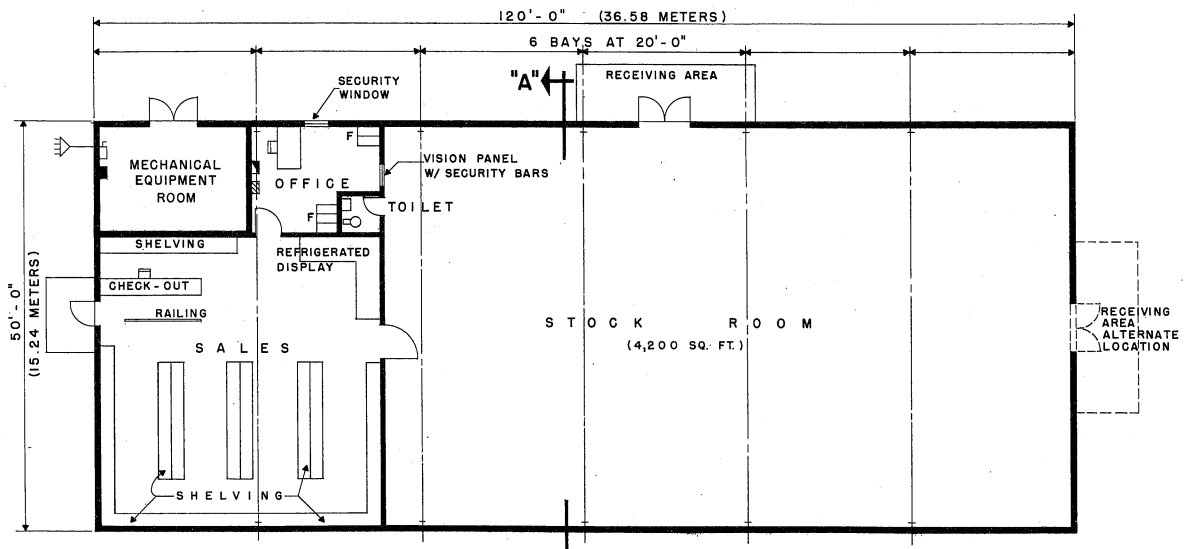
FLOOR PLAN - TYPE II
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE III
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE IV
SCALE: 1/8" = 1'-0"



FLOOR PLAN - TYPE V
SCALE: 1/8" = 1'-0"

- LEGEND**
- C.O. CHECK-OUT
 - D. DISPLAY
 - F. FILE CABINET
 - M.E. MECHANICAL EQUIPMENT
 - R.D. REFRIGERATED DISPLAY
 - RM. ROOM
 - SQ. FT. SQUARE FEET
 - W/ WITH

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

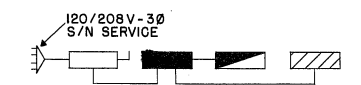
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

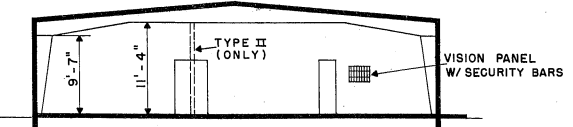
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8.

ELECTRICAL LEGEND

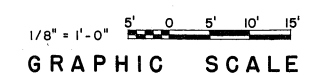
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

TYPE	ELECTRICITY (KW)				ESTIMATED DEMAND			
	CONNECTED LOAD				ESTIMATED DEMAND			
	LIGHT	POWER	REFRIG.	TOTAL	LIGHT	POWER	REFRIG.	TOTAL
I	3.5	3.2	2	8.7	3.3	2.9	2	8.2
II	7.0	6	3	16	6.7	5.4	3	15.1
III	10.5	9	3.5	23	10	8.1	3	21.1
IV	14	12	4	30	13.3	10.8	3.5	27.6
V	21	18	5.5	44.5	20	16.2	5	41.2

ALL TYPES	WATER		SEWAGE		WATER	
	COLD (G.P.D.)	HOT (G.P.D.)	TOTAL (G.P.D.)	TOTAL (G.P.D.)	TOTAL (G.P.D.)	TOTAL (G.P.D.)
	8	2	300	2	450	

HEATING AND AIR CONDITIONING REQUIREMENTS

TYPE	OUTSIDE DESIGN TEMPERATURE	OUTSIDE DESIGN TEMPERATURE
	° F M/BTU/HR	95° DB/78° WB TONS OF REFRIGERATION
I	50.0	2
II	80.0	3
III	85.0	3.5
IV	125.0	4
V	170.0	5.5

SPACE REQUIREMENT

TYPE	CONUS BASES	OVERSEAS BASES	GROSS AREA SQUARE FEET
	ANNUAL CASE SALES	AUTHORIZED CUSTOMERS	
I	2,000	500	1,008
II	5,000	1,000	2,000
III	10,000	1,500	3,000
IV	15,000	2,000	4,000
V	20,000	3,000	6,000

- INCLUDES ALASKA AND HAWAII
- ANNUAL TOTAL CASES SOLD RETAIL AND TRANSFERRED/SOLD WHOLESALE TO OPEN MESSES
- TOTAL INSTALLATION ACTIVE DUTY ADULT MILITARY AND SPECIFICALLY AUTHORIZED RETIRED AND US CIVILIAN PERSONNEL PLUS THEIR SPOUSES AND THEIR ADULT DEPENDENTS

DESIGN GUIDES ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

ALL BUILDING DIMENSIONS SHOWN CONFORM TO STANDARD PRE-ENGINEERED STRUCTURES.

PRE-ENGINEERED STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN AFM 88-15.

ROOF PANELS SHALL CONSIST OF 22 GAGE GALVANIZED STEEL EXTERIOR FACE AND 26 GAGE GALVANIZED STEEL INTERIOR FACE WITH INSULATION BETWEEN, FOR SECURITY PURPOSES.

WALL PANELS SHALL CONSIST OF 22 GAGE GALVANIZED STEEL EXTERIOR AND 26 GAGE INTERIOR FACE WITH INSULATION BETWEEN, FOR SECURITY PURPOSES.

FOR SECURITY PURPOSES, A WINDOW SHOULD ONLY BE INSTALLED IN THE OFFICE AREA. WINDOW MUST BE STANDARD SECURITY TYPE.

THE FACILITY SIZES FOR OVERSEAS INSTALLATIONS ARE BASED ON ACCOMMODATING A 2-1/2 MONTH SUPPLY OF MERCHANDISE. HOWEVER, THIS SUPPLY MAY VARY ACCORDINGLY TO FACTORS SUCH AS DISTANCES FROM REGIONAL WAREHOUSES, PIPE LINE TIME, AND PROXIMITY TO OTHER PACKAGE STORES. WHEN THESE FACTORS FAVOR A LESSER HOLDING CAPACITY, THE FACILITY SIZE SHOULD BE REDUCED ACCORDINGLY. ANY PROJECT BASED ON A LARGER HOLDING CAPACITY WILL REQUIRE SEPARATE APPROVAL BY AFMPC/DPMSR, RANDOLPH AFB TX 78148.

APPORTIONMENT OF AREA TO SALES, STOCK ROOM, ETC., AS SHOWN, IS BASED ON THE ASSUMPTION THAT ABOUT 20% OF THE STOCK WILL BE SOLD TO OPEN MESSES AND THE REMAINDER WILL BE COUNTER SALES.

ALL BASE PACKAGE STORE PROJECTS MUST BE APPROVED AS EXCEPTIONS TO DOD CRITERIA.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. CATEGORY CODE NO. 740-269

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

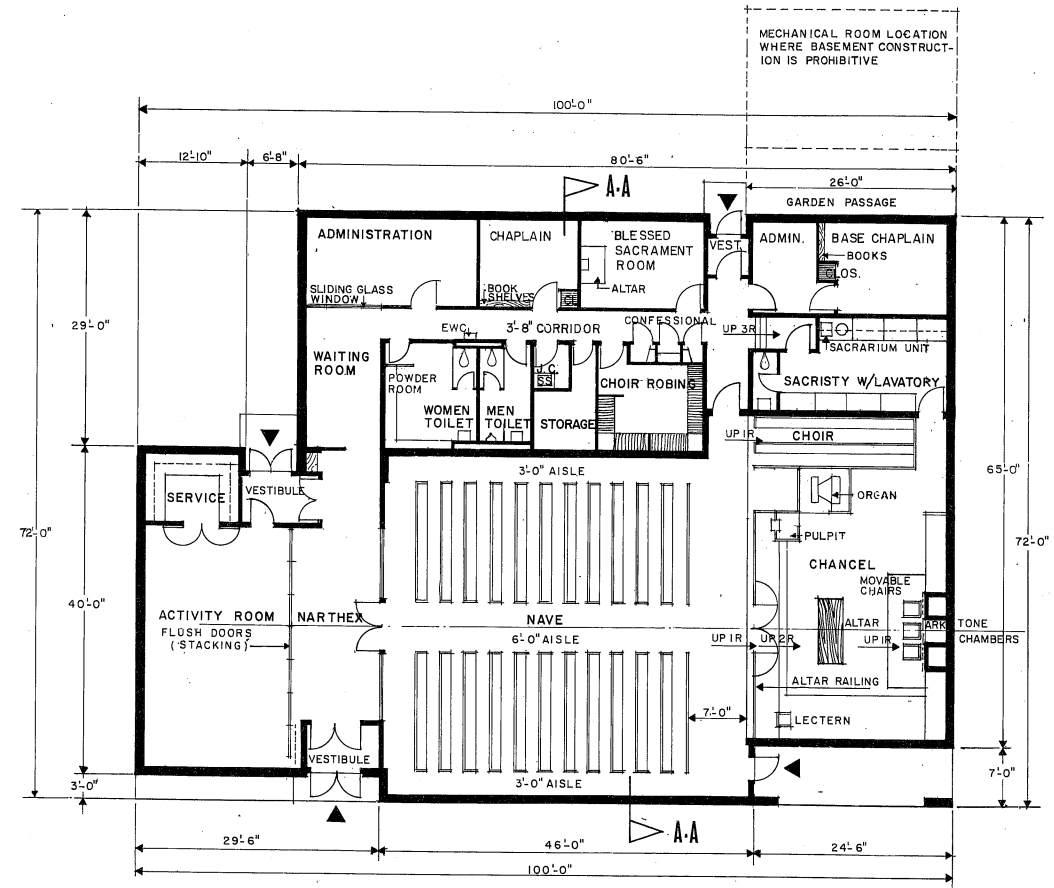
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

BASE PACKAGE STORE
TYPES I, II, III, IV & V
PLANS & SECTION

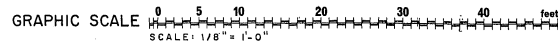
APPROVED: *George Z. Reichel*
FOR CHIEF OF STAFF USAF

SCALE: 1/8" = 1'-0"
DATE: 1 April 1975
SHEET 1 OF 1
AD 36-55-01

C2



FLOOR PLAN



PROGRAMMING & PLANNING GUIDES

1. THE FUNCTIONAL LAYOUTS AND JUXTAPOSITIONS INDICATED WILL BE FOLLOWED SUBJECT TO ADJUSTMENTS REQUIRED BY SITE ORIENTATION, CONFIGURATION AND CONTOURS. ANY SIGNIFICANT CHANGES IN LAYOUTS AND ARRANGEMENTS WILL REQUIRE PRIOR CLEARANCE FROM HEADQUARTERS, U.S. AIR FORCE, DIRECTORATE OF CIVIL ENGINEERING (FREE). THE SECTIONAL VIEWS INDICATED IN THIS DEFINITIVE DRAWING DO NOT ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT, NOR THE USE OF SPECIFIC MATERIALS. MATERIALS USED SHALL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY. FENESTRATION SHALL BE BASED ON ESTHETIC CONSIDERATION AS WELL AS GEOGRAPHIC LOCATION AND ORIENTATION.
2. THE MAXIMUM AUTHORIZED GROSS AREA SHOWN, FOR EACH PLAN, DOES NOT INCLUDE SPACE FOR MECHANICAL EQUIPMENT. AREA REQUIRED FOR HEATING AND MECHANICAL EQUIPMENT SHALL BE ADDED TO THE GROSS AREA INDICATED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFIC PROJECT.
3. SITE CONDITIONS PERMITTING, MECHANICAL EQUIPMENT SPACE WILL BE LOCATED IN BASEMENT.
4. THE DATA GIVEN BELOW IS FOR ESTIMATING PURPOSES. ACTUAL OUTSIDE TEMPERATURES SHALL BE TAKEN FROM THE AIR FORCE MANUAL, ENGINEERING WEATHER DATA.

UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	16.0 (KW)	16.0 (KW)
POWER	25.0 (KW)	25.0 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	10 GPM	30 GPM	40 GPM
			200 GPD

SEWAGE GALLONS PER DAY 200

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	260 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION 20

GROSS AREA 6,500 S.F.

D.O.D. CAT. CODE NO.-740

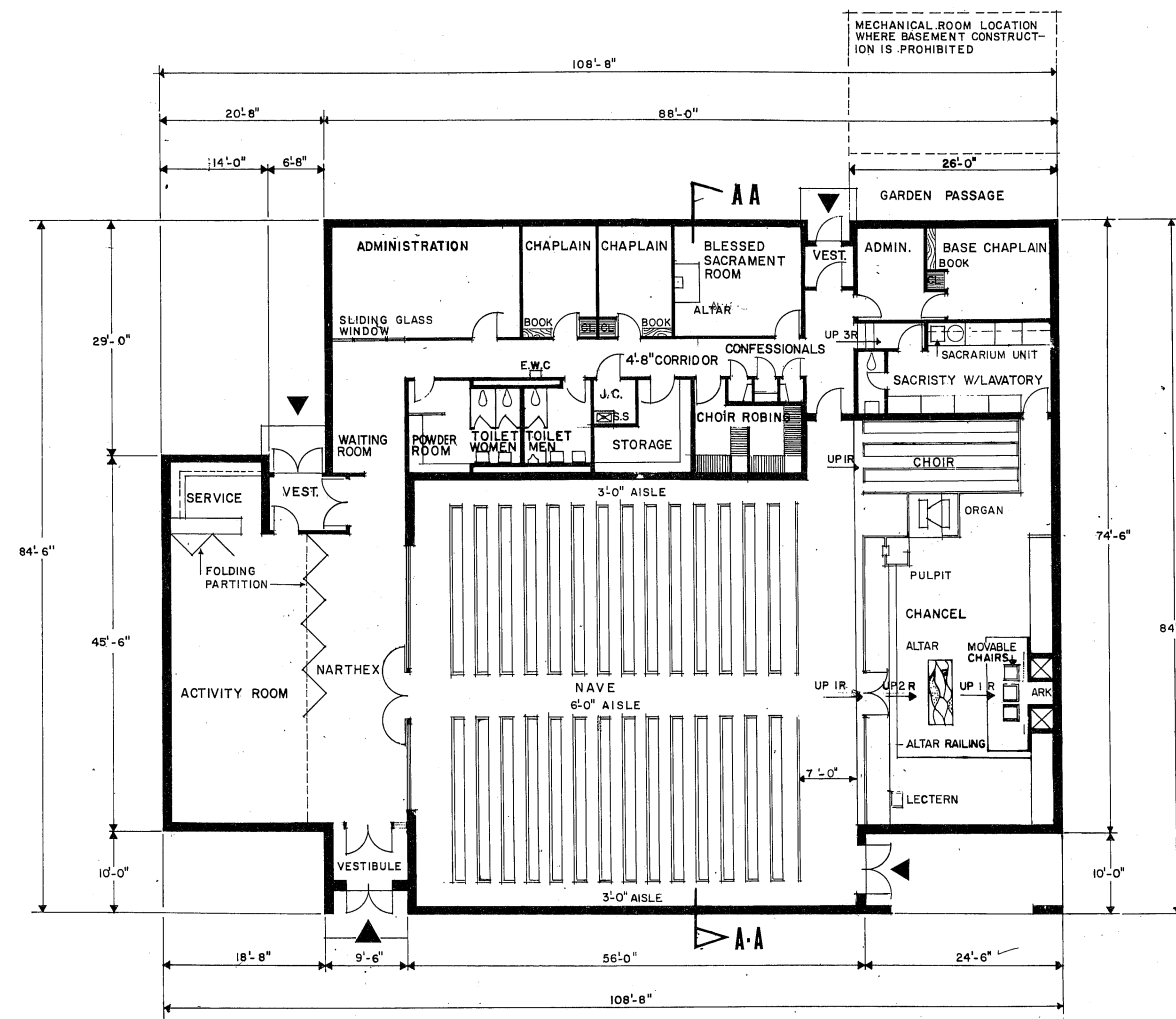
SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL
TYPE I 200 SEATS

APPROVED: *Dolan S. Hughes* **AD 38-01-67**
SCALE AS NOTED SHEET 1 OF 7
FOR CHIEF OF STAFF, USAF DATE 10 NOV. 1970



FLOOR PLAN
 GRAPHIC SCALE 0 5 10 20 30 40 feet
 SCALE: 1/8" = 1'-0"

PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	21.0 (KW)	21.0 (KW)
POWER	38.0 (KW)	34.2 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	15 GPM	50 GPM	65 GPM
			240 GPD

SEWAGE	GALLONS PER DAY
	240

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	340 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION	
	30

GROSS AREA 8,500 S.F.

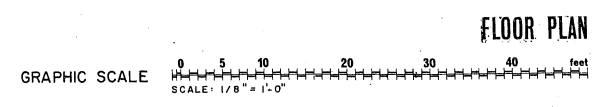
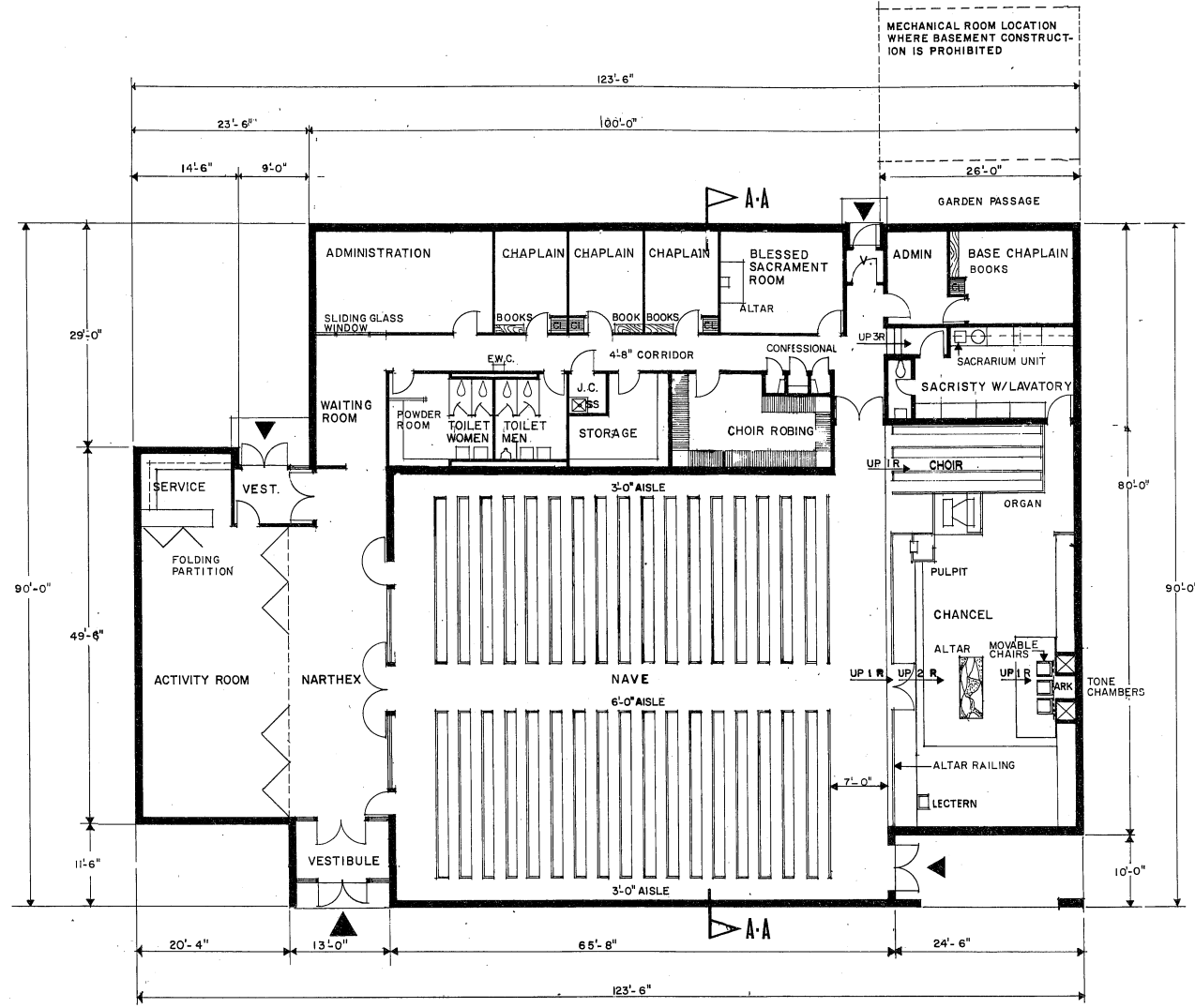
D.D.D. CAT. CODE NO.-740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 ALBERT GOENNER & ASSOCIATES
 ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL
 TYPE II 300 SEATS

APPROVED: *Robert S. Hughes* **AD 38-01-67**
 FOR CHIEF OF STAFF, USAF SCALE AS NOTED SHEET 2 of 7
 DATE 10 NOV 1970



PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC		CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS		25.0 (KW)	25.0 (KW)
POWER		50.0 (KW)	45.0 (KW)

WATER		HOT	COLD	TOTAL
MAX. FLOW RATE		15 GPM	50 GPM	65 GPM
				240 GPD

SEWAGE	GALLONS PER DAY
	240

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	430 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION	40
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GROSS AREA 10,200 S.F.

D.O.D. CAT. CODE NO.-740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

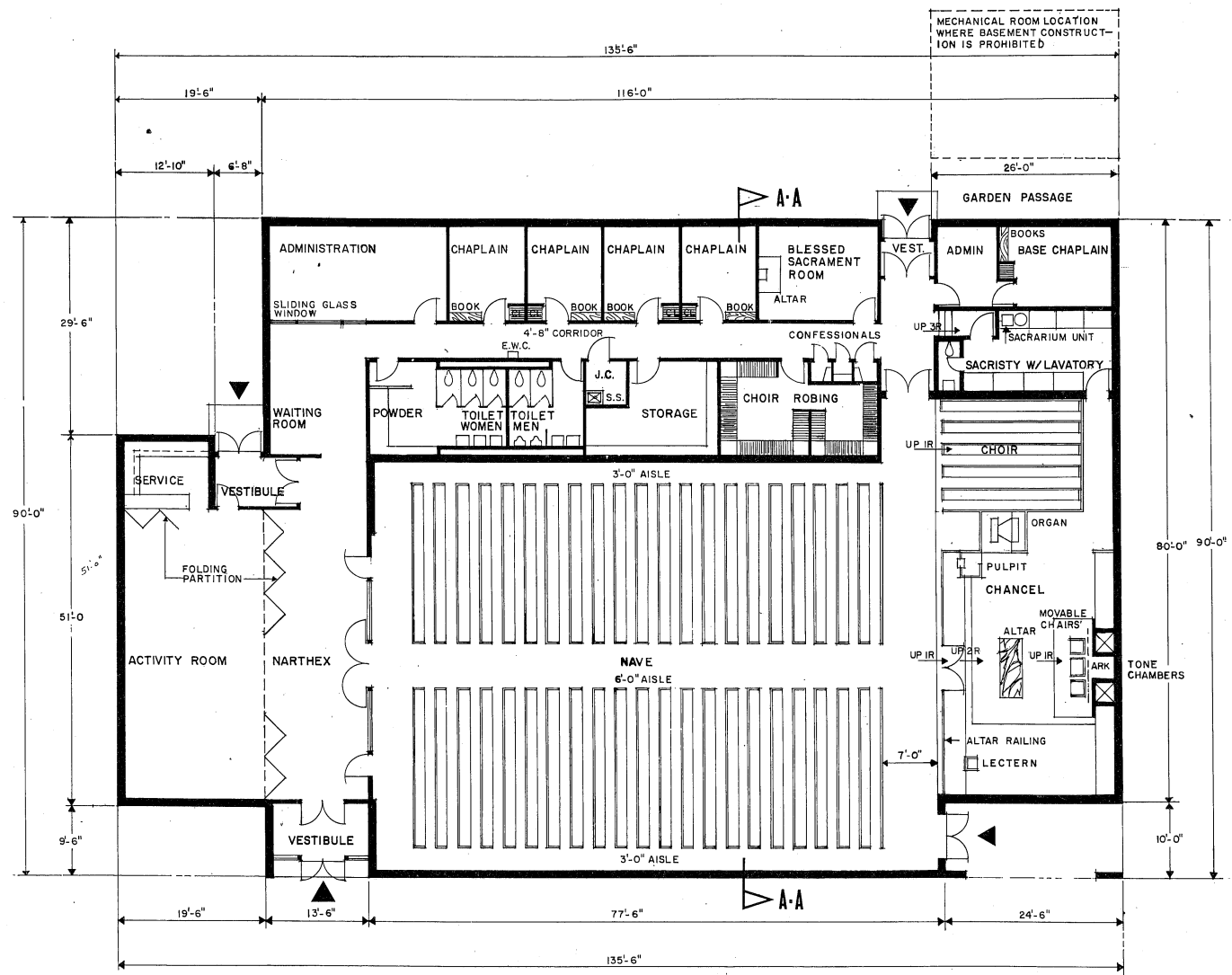
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL
TYPE III 400 SEATS

APPROVED: *Alan S. Hagan* **AD 38-01-67**

SCALE AS NOTED
DATE 10 NOV 1970
SHEET 3 OF 7

FOR CHIEF OF STAFF, USAF



FLOOR PLAN
 GRAPHIC SCALE 0 5 10 20 30 40 feet
 SCALE: 1/8" = 1'-0"

PROGRAMMING & PLANNING GUIDES

1. THE FUNCTIONAL LAYOUTS AND JUXTAPOSITIONS INDICATED WILL BE FOLLOWED SUBJECT TO ADJUSTMENTS REQUIRED BY SITE ORIENTATION, CONFIGURATION AND CONTOURS. ANY SIGNIFICANT CHANGES IN LAYOUTS AND ARRANGEMENTS WILL REQUIRE PRIOR CLEARANCE FROM HEADQUARTERS, U.S. AIR FORCE, DIRECTORATE OF CIVIL ENGINEERING (PRE). THE SECTIONAL VIEWS INDICATED IN THIS DEFINITIVE DRAWING DO NOT ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT, NOR THE USE OF SPECIFIC MATERIALS. MATERIALS USED SHALL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY. FENESTRATION SHALL BE BASED ON ESTHETIC CONSIDERATION AS WELL AS GEOGRAPHIC LOCATION AND ORIENTATION.
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UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	28.0 (KW)	28.0 (KW)
POWER	63.0 (KW)	56.7 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	15 GPM	50 GPM	65 GPM
			240 GPD

SEWAGE GALLONS PER DAY 240

HEATING

DESIGN TEMPERATURES OUTSIDE °F. 47° M.S.H. AT ONE AIR CHANGE/HR.
 HEAT REQUIRED

AIR CONDITIONING

TONS REFRIGERATION 50

GROSS AREA 11,500 S.F.

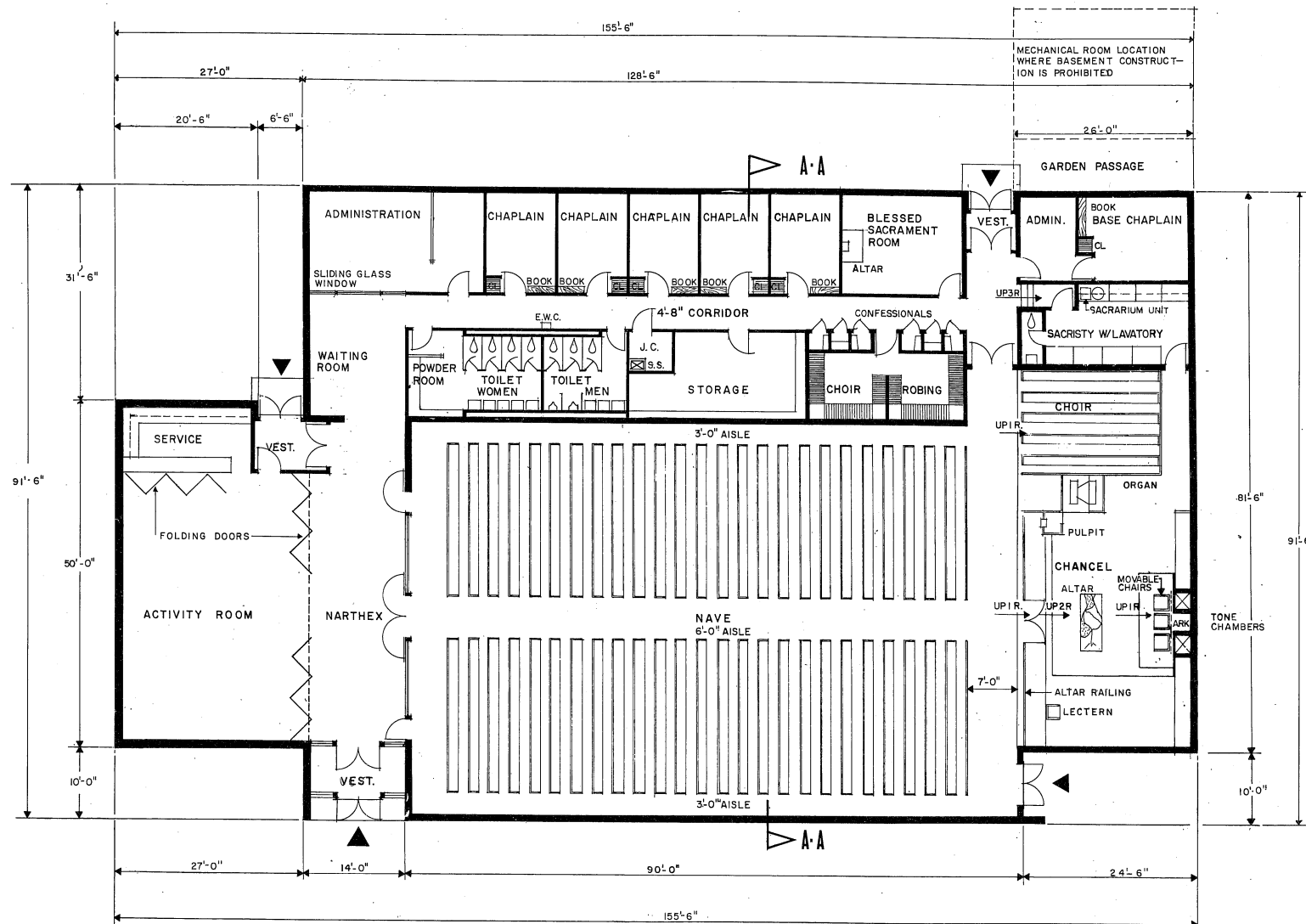
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SYMBOL	REVISIONS—DESCRIPTION	DATE	APPROVAL

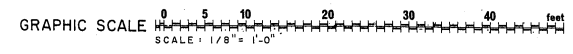
DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 ALBERT GOENNER & ASSOCIATES
 ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL
 TYPE IV 500 SEATS

APPROVED: *[Signature]* **AD 38-01-67**
 FOR CHIEF OF STAFF, USAF SCALE AS NOTED SHEET 4 OF 7
 DATE 10 NOV. 1970



FLOOR PLAN



PROGRAMMING & PLANNING GUIDES

1. THE FUNCTIONAL LAYOUTS AND JUXTAPOSITIONS INDICATED WILL BE FOLLOWED SUBJECT TO ADJUSTMENTS REQUIRED BY SITE ORIENTATION, CONFIGURATION AND CONTOURS. ANY SIGNIFICANT CHANGES IN LAYOUTS AND ARRANGEMENTS WILL REQUIRE PRIOR CLEARANCE FROM HEADQUARTERS, U.S. AIR FORCE, DIRECTORATE OF CIVIL ENGINEERING (PREP). THE SECTIONAL VIEWS INDICATED IN THIS DEFINITIVE DRAWING DO NOT ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT, NOR THE USE OF SPECIFIC MATERIALS. MATERIALS USED SHALL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY. FENESTRATION SHALL BE BASED ON ESTHETIC CONSIDERATION AS WELL AS GEOGRAPHIC LOCATION AND ORIENTATION.
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UTILITIES

ELECTRIC		CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS		32.0 (KW)	32.0 (KW)
POWER		75.0 (KW)	70.0 (KW)
WATER		HOT	COLD
MAX. FLOW RATE		15 GPM	50 GPM
			TOTAL 65 GPM
			240 GPD
SEWAGE		GALLONS PER DAY 240	

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	450 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION 60

GROSS AREA 13,300 S.F.

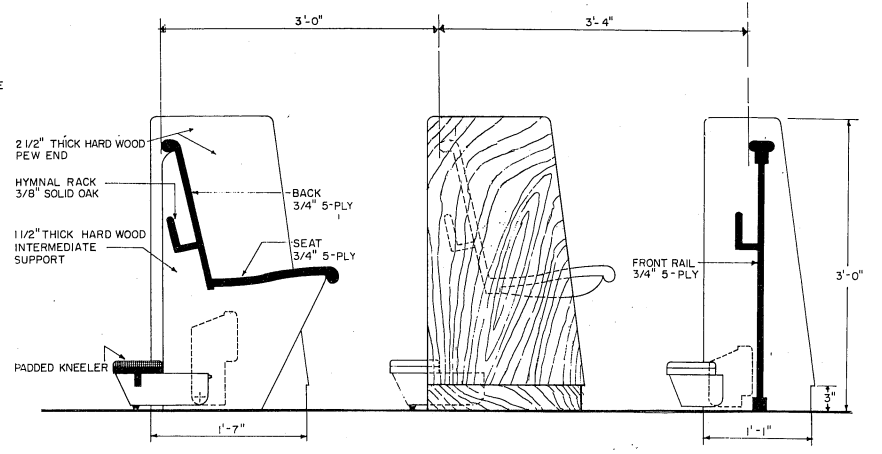
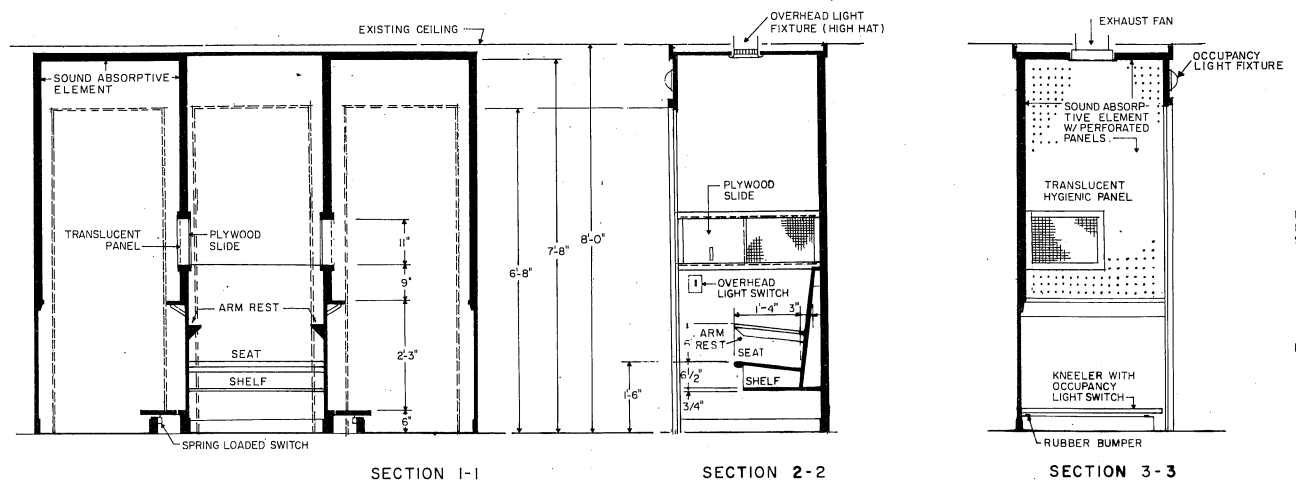
D.O.D. CAT. CODE NO-740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

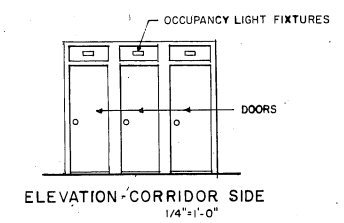
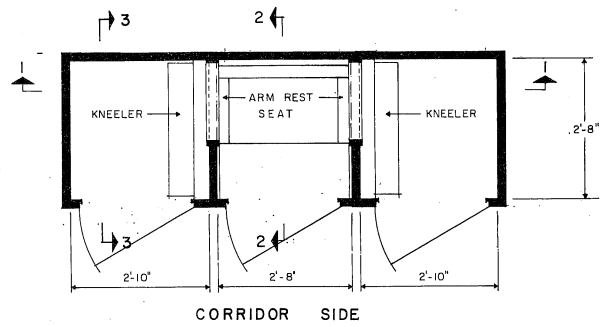
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS, UNITED STATES AIR FORCE
ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL
TYPE V 600 SEATS

APPROVED: *Dolan S. Hays* **AD 38-01-67**
SCALE AS NOTED SHEET 5 OF 7
FOR CHIEF OF STAFF, USAF DATE 10 NOV. 1970



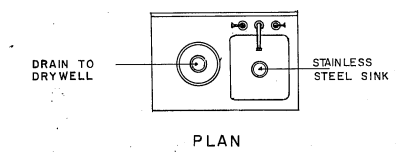
PEW DETAIL
1/2" = 1'-0"



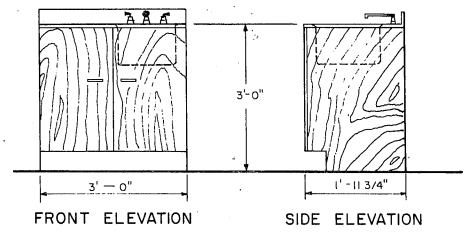
CORRIDOR SIDE
PLAN

ELEVATION CORRIDOR SIDE
1/4" = 1'-0"

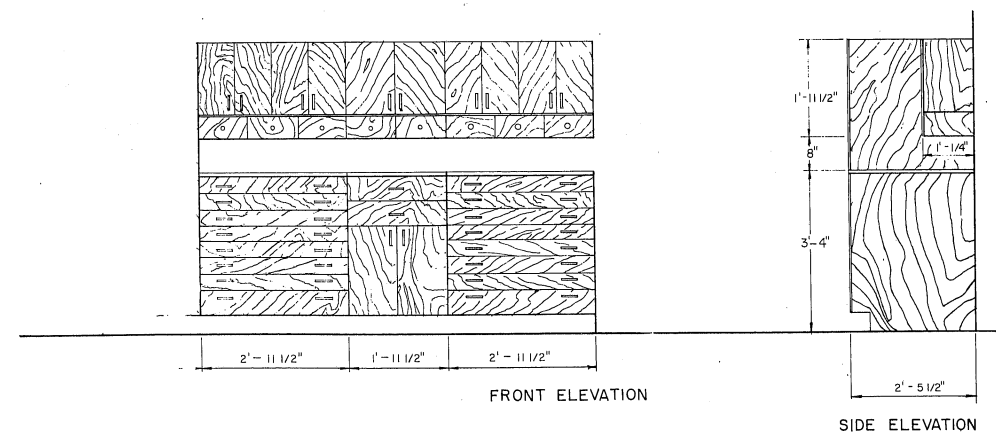
CONFESSIONAL DETAILS
SCALE 3/4" = 1'-0"



PLAN

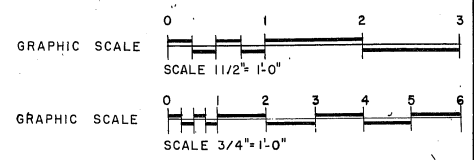


STOCK SACRARIUM UNIT
SCALE 3/4" = 1'-0"



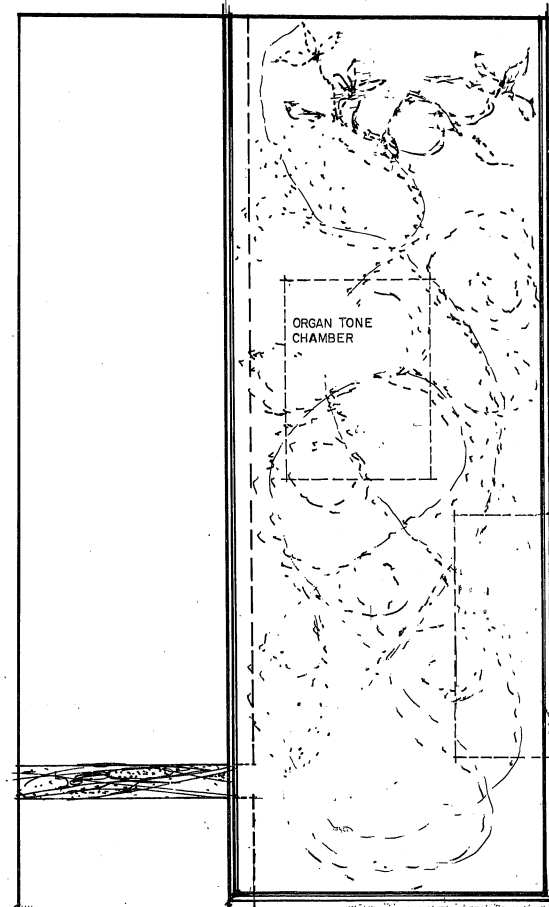
VESTMENT CASE
3/4" = 1'-0"

SIDE ELEVATION

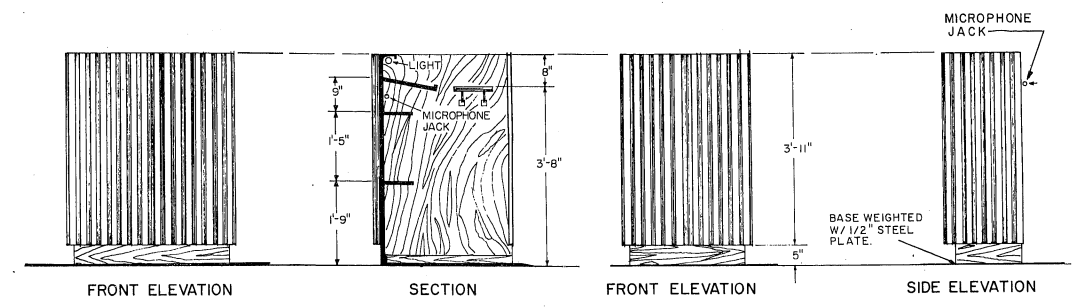
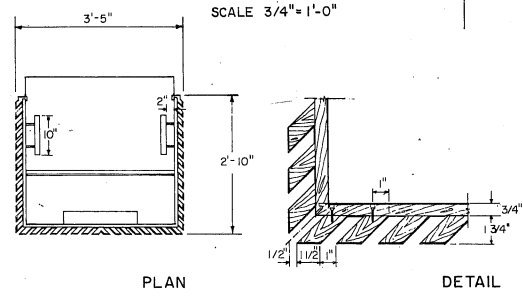


SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.			
CHAPEL MISCELLANEOUS DETAILS			
APPROVED: <i>Albert Goenner</i>		AD 38-01-67	
FOR CHIEF OF STAFF, USAF		SCALE: AS SHOWN DATE 10 NOV. 1970	SHEET 6 OF 7

C2

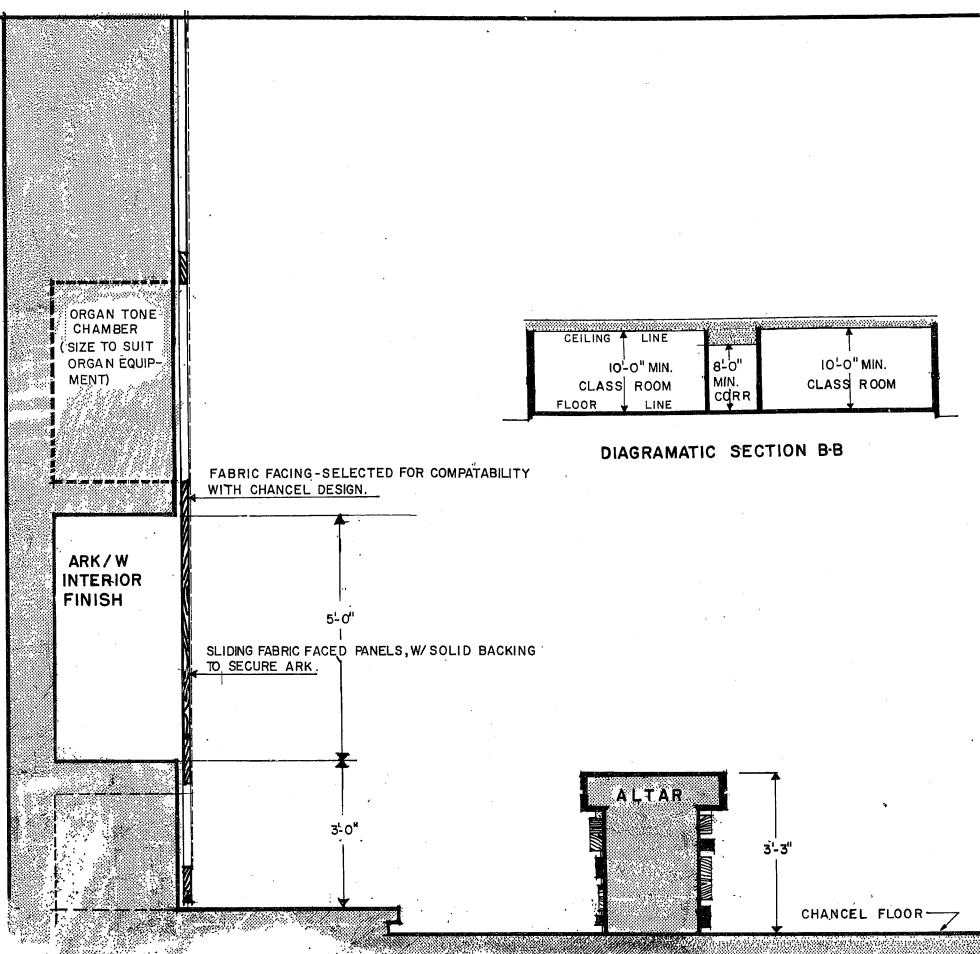


HALF ELEVATION OF SLIDING DOSSAL SCREEN (REPEAT ABOUT ϕ)

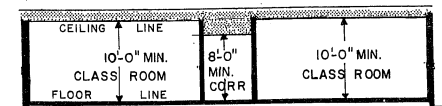


PULPIT DETAILS 3/4" = 1'-0"

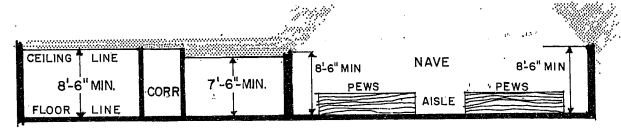
LECTERN DETAILS 3/4" = 1'-0"



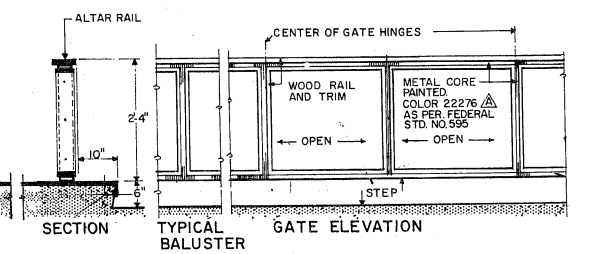
SECTION THRU ARK • DOSSAL SCREEN • TONE CHAMBER



DIAGRAMATIC SECTION B-B



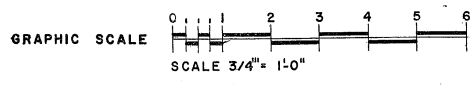
DIAGRAMATIC SECTION A-A

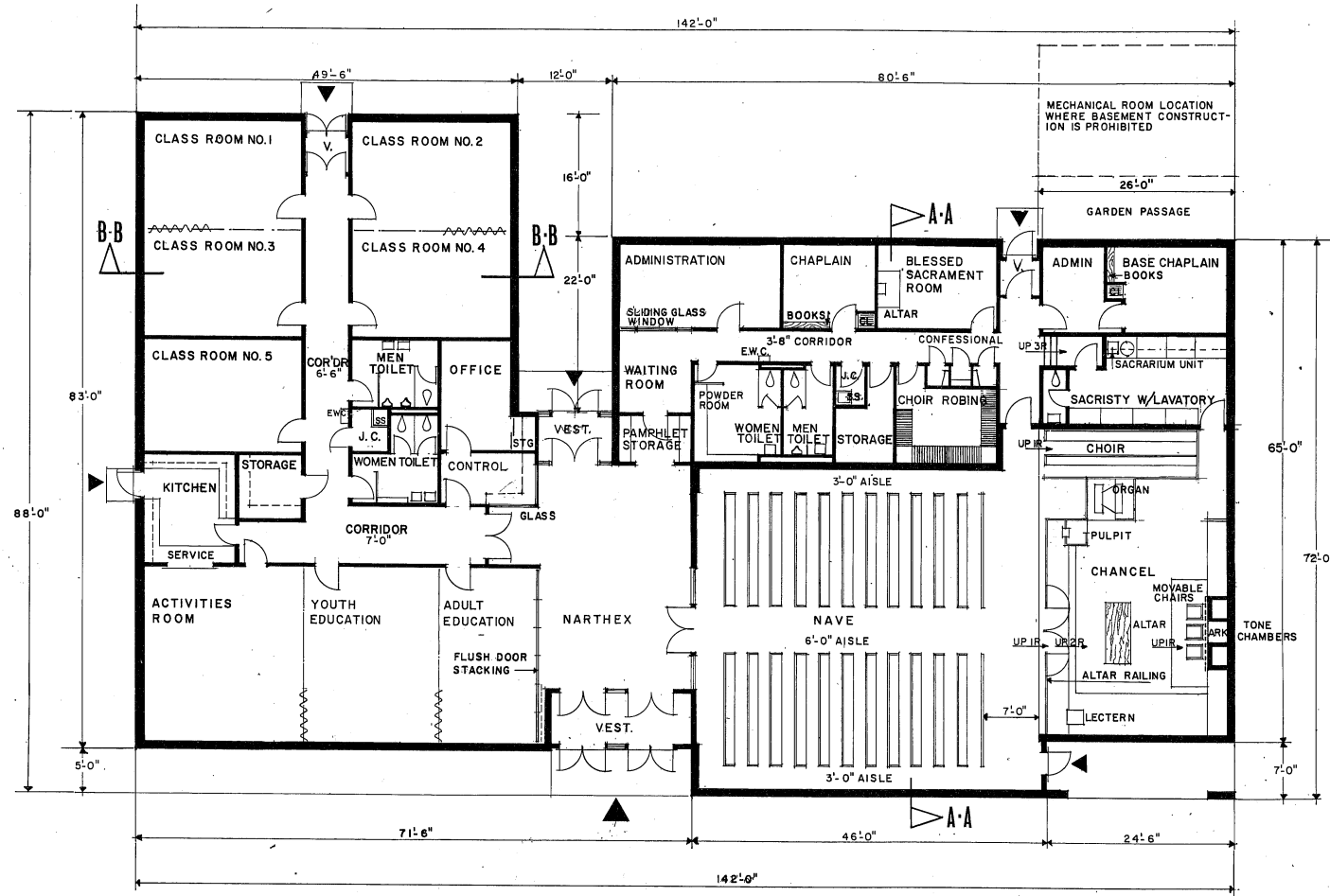


ALTAR RAIL DETAILS 3/4" = 1'-0"

D.O.D. CAT. CODE NO. 740-233

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.			
CHAPEL			
MISCELLANEOUS DETAILS			
APPROVED:	AD 38-01-67		
FOR CHIEF OF STAFF, USAF	SCALE: AS NOTED	DATE: 10 NOV. 1970	SHEET 7 OF 7





FLOOR PLAN
 GRAPHIC SCALE 0 5 10 20 30 40 feet
 SCALE: 1/8" = 1'-0"

PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	25.0 (KW)	23.0 (KW)
POWER	38.0 (KW)	34.2 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	15 GPM.	50 GPM	65 GPM
			240 GPD

SEWAGE GALLONS PER DAY 240

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	450 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION 30

CHAPEL AREA 6,500 S.F. 200 SEATS
 R.E.F. 5 C.R. 3,850 S.F.

GROSS AREA 10,350 S.F.

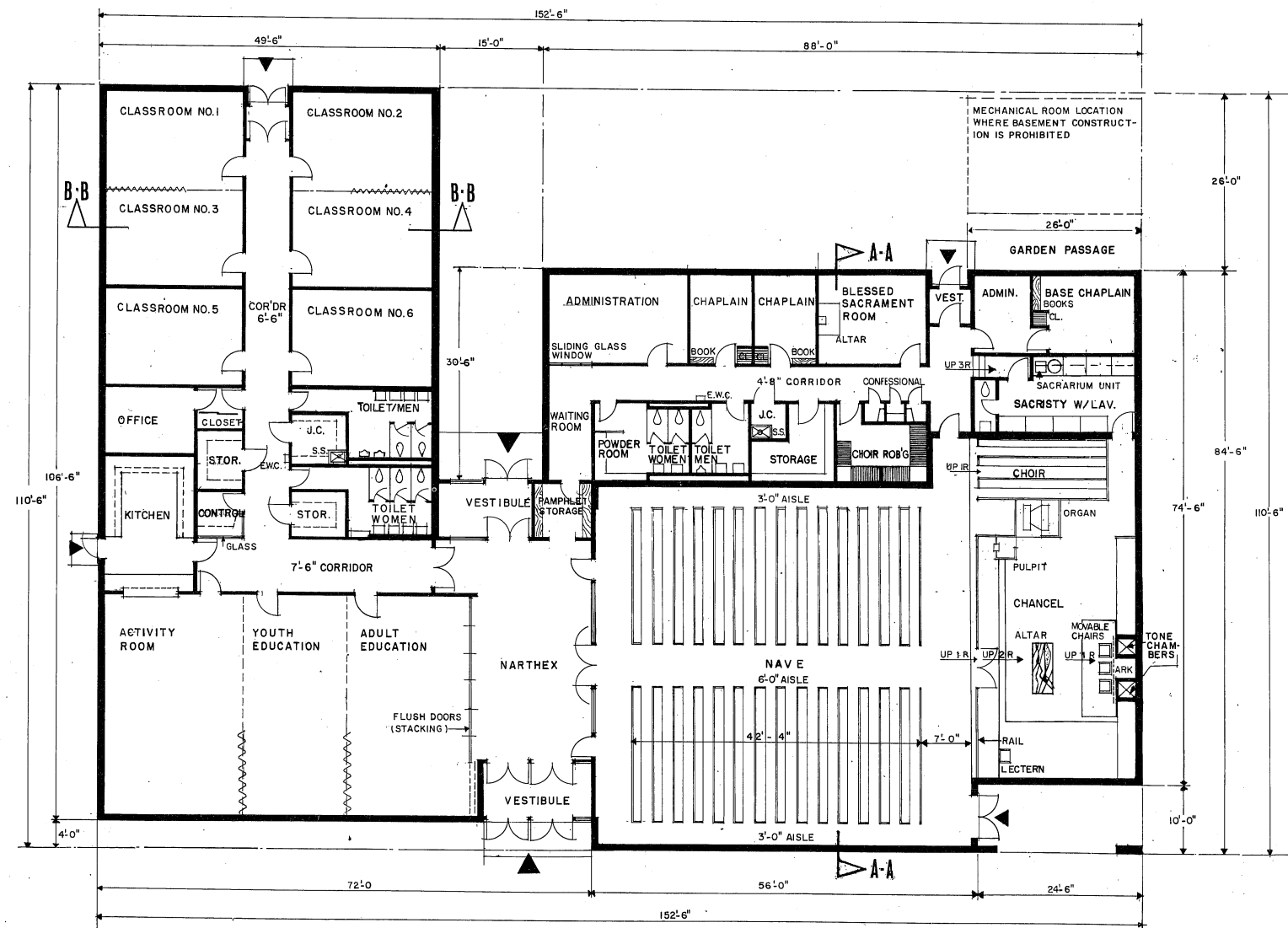
D.O.D. CAT. CODE NO-740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 ALBERT GOENNER & ASSOCIATES
 ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL CENTER
 TYPE I - 5

APPROVED: *Robert S. Higgins* **AD 38-01-68**
 FOR CHIEF OF STAFF, USAF SCALE AS NOTED SHEET 1 OF 8
 DATE 10 NOV. 1970



FLOOR PLAN
 GRAPHIC SCALE 0 5 10 20 30 40 feet
 SCALE 1/8" = 1'-0"

PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	39.0 (KW)	35.1 (KW)
POWER	63.0 (KW)	56.7 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	20 GPM	60.0 GPM	80 GPM
			300 GPD

SEWAGE	GALLONS PER DAY
	300

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	645 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION 50

CHAPEL AREA 8,500 S.F. 300 SEATS
 R.E.F. 6 C.R. 5,000 S.F.

GROSS AREA 13,500 S.F.

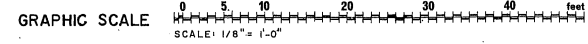
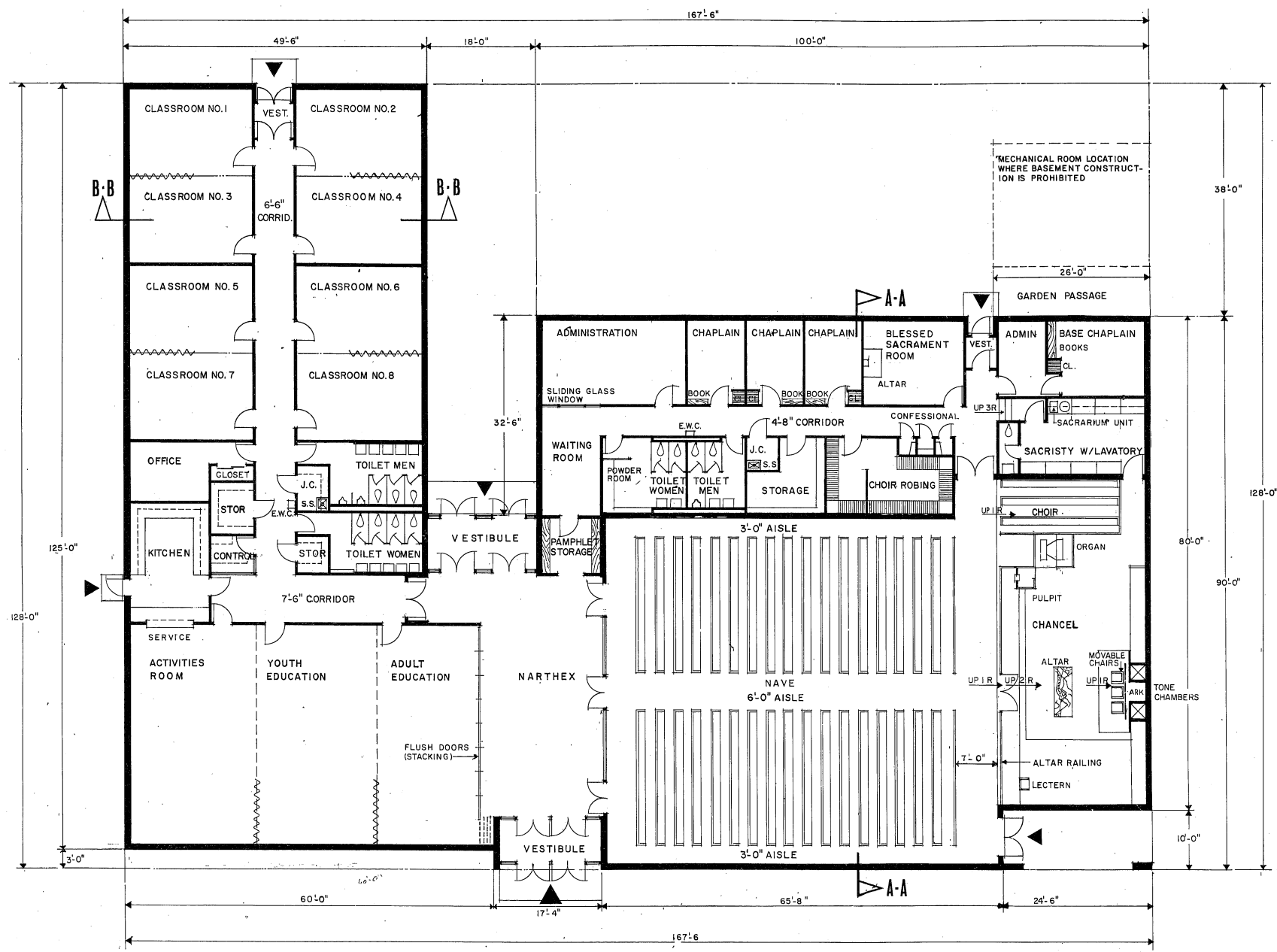
D.O.D. CAT. CODE NO-740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 ALBERT GOENNER & ASSOCIATES
 ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL CENTER
 TYPE II - 6

APPROVED: *[Signature]* **AD 38-01-68**
 SCALE AS NOTED SHEET 2 OF 8
 FOR CHIEF OF STAFF, USAF DATE 10 NOV 1970



PROGRAMMING & PLANNING GUIDES

1. THE FUNCTIONAL LAYOUTS AND JUXTAPOSITIONS INDICATED WILL BE FOLLOWED SUBJECT TO ADJUSTMENTS REQUIRED BY SITE ORIENTATION, CONFIGURATION AND CONTOURS. ANY SIGNIFICANT CHANGES IN LAYOUTS AND ARRANGEMENTS WILL REQUIRE PRIOR CLEARANCE FROM HEADQUARTERS, U.S. AIR FORCE, DIRECTORATE OF CIVIL ENGINEERING (PRE). THE SECTIONAL VIEWS INDICATED IN THIS DEFINITIVE DRAWING DO NOT ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT, NOR THE USE OF SPECIFIC MATERIALS. MATERIALS USED SHALL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY. FENESTRATION SHALL BE BASED ON ESTHETIC CONSIDERATION AS WELL AS GEOGRAPHIC LOCATION AND ORIENTATION.
2. THE MAXIMUM AUTHORIZED GROSS AREA SHOWN FOR EACH PLAN, DOES NOT INCLUDE SPACE FOR MECHANICAL EQUIPMENT AREA REQUIRED FOR HEATING AND MECHANICAL EQUIPMENT SHALL BE ADDED TO THE GROSS AREA INDICATED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFIC PROJECT
3. SITE CONDITIONS PERMITTING, MECHANICAL EQUIPMENT SPACE WILL BE LOCATED IN BASEMENT.
4. THE DATA GIVEN BELOW IS FOR ESTIMATING PURPOSES. ACTUAL OUTSIDE TEMPERATURES SHALL BE TAKEN FROM THE AIR FORCE MANUAL, ENGINEERING WEATHER DATA.

UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS	43.0 (KW)	38.7 (KW)
POWER	75.0 (KW)	67.5 (KW)

WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	20 GPM	60 GPM	80 GPM
			300 GPD

SEWAGE	GALLONS PER DAY
	300

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	700 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION	TONS
	60

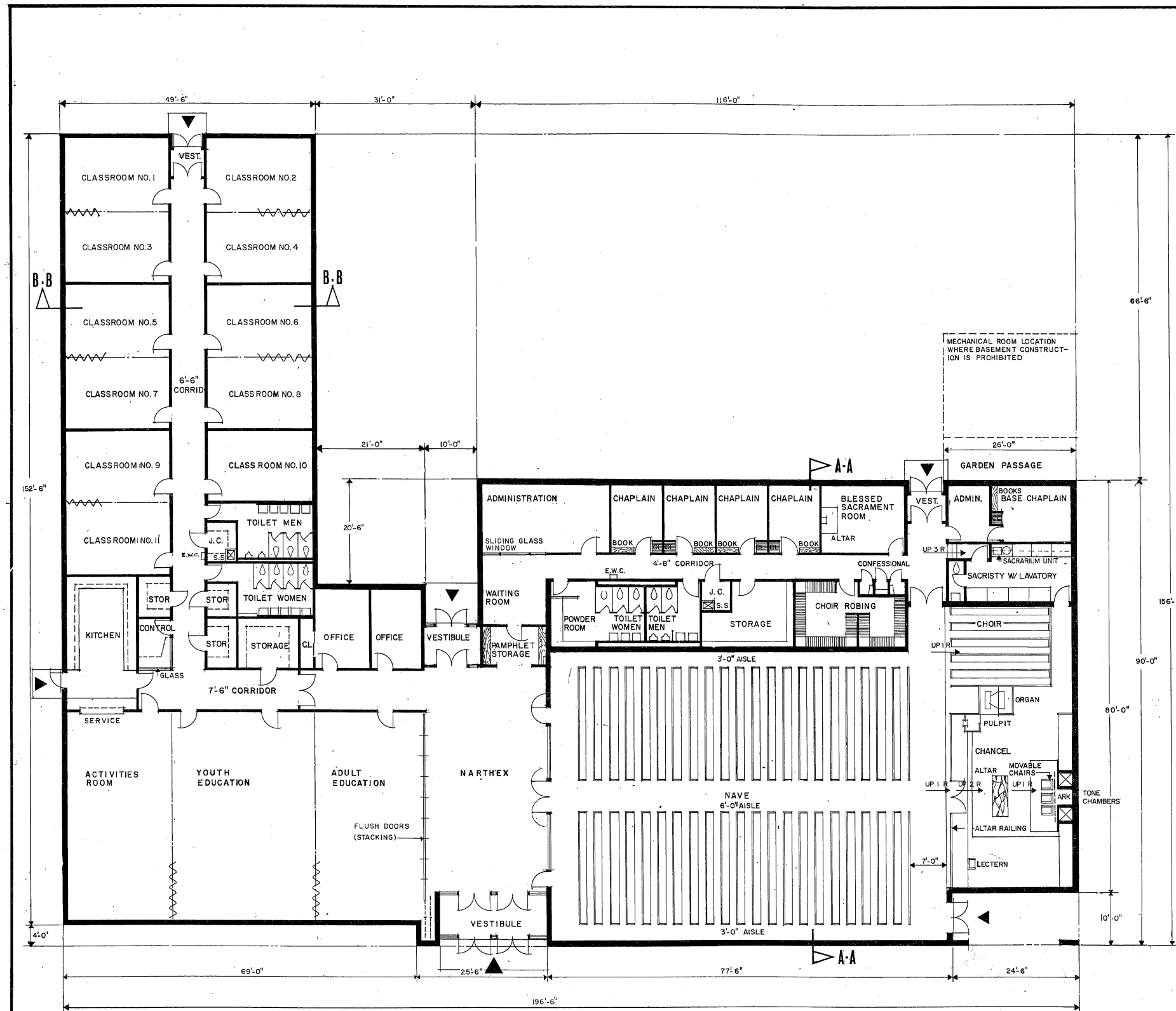
CHAPEL AREA 10,200 S.F. 400 SEATS
 R.E.F. 8 C.R. 6,100 S.F.

GROSS AREA 16,300 S.F.
 D.O.D. CAT. CODE NO-740

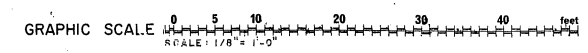
REV.	REVISIONS - DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 ALBERT GOENNER & ASSOCIATES
 ARCHITECTS - ENGINEERS WASHINGTON, D. C.
 DEPARTMENT OF DEFENSE DEFINITIVE DESIGNS 68-1
CHAPEL CENTER
 TYPE III - 8

APPROVED: *Dale S. Hughes*
AD 38-01-68
 SCALE AS NOTED
 FOR CHIEF OF STAFF, USAF DATE 10 NOV. 1970 SHEET 3 OF 8



FLOOR PLAN



PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC	CONNECTED LOAD	ESTIMATED DEMAND	
LIGHTS	46.0 (KW)	41.4 (KW)	
POWER	90.0 (KW)	81.0 (KW)	
WATER	HOT	COLD	TOTAL
MAX. FLOW RATE	20 GPM	60 GPM	80 GPM
			300 GPD
SEWAGE	GALLONS PER DAY 300		

HEATING

DESIGN TEMPERATURES	OUTSIDE °F.
HEAT REQUIRED	820 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION	70
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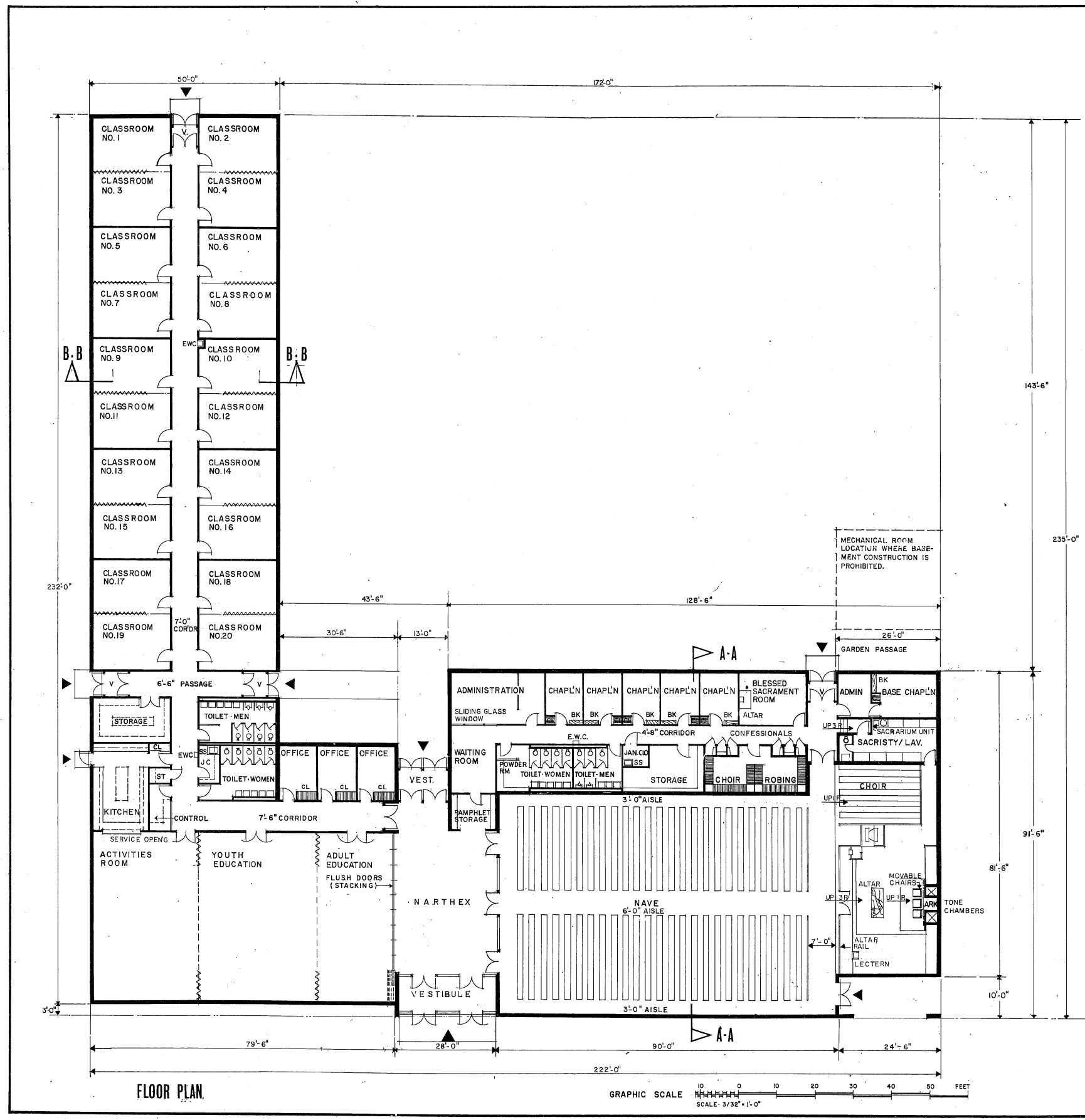
CHAPEL AREA 11,500 S.F. 500 SEATS
R.E.F. I.I.C.R. 8,800 S.F.

GROSS AREA 20,300 S.F.
D.O.D. CAT. CODE NO-740

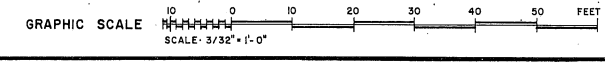
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL CENTER
TYPE IV-11

APPROVED: *[Signature]* **AD 38-01-68**
SCALE AS NOTED SHEET 4 OF 8
DATE 10 NOV. 1970
FOR CHIEF OF STAFF, USAF



FLOOR PLAN



PROGRAMMING & PLANNING GUIDES

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UTILITIES

ELECTRIC		CONNECTED LOAD	ESTIMATED DEMAND
LIGHTS		84.0 (KW)	57.6 (KW)
POWER		130.0 (KW)	104.0 (KW)

WATER		HOT	COLD	TOTAL
MAX. FLOW RATE		40 GPM	120 GPM	160 GPM
				600 GPD

SEWAGE	GALLONS PER DAY
	600

HEATING

DESIGN TEMPERATURES	OUTSIDE OF F.
HEAT REQUIRED	1300 M.B.H. AT ONE AIR CHANGE/HR.

AIR CONDITIONING

TONS REFRIGERATION	100
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CHAPEL AREA	13,300 S.F.	600 SEATS
R.E.F. 20 C.R.	13,100 S.F.	

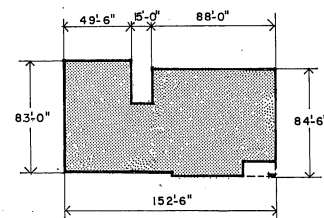
GROSS AREA 26,400 S.F.
D.C.D. CAT. CODE NO-740

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

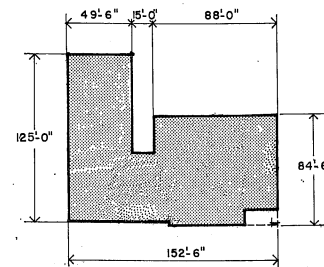
CHAPEL CENTER
TYPE I - 20

APPROVED: *[Signature]* **AD 38-01-68**
FOR CHIEF OF STAFF, USAF
SCALE AS NOTED
DATE 10 NOV. 1970
SHEET **5 OF 8**

TYPE II
300 SEATS

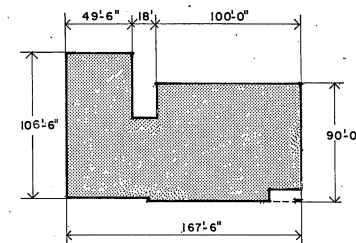


CHAPEL 8,500
5 CLASS RMS R.E.F. 3,850
GROSS AREA 12,350 S.F.

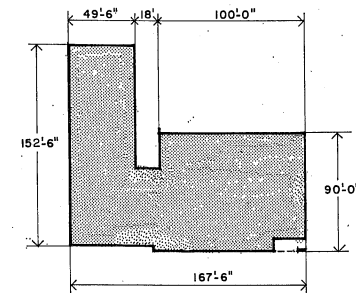


CHAPEL 8,500
8 CLASS RMS R.E.F. 6,100
GROSS AREA 14,600 S.F.

TYPE III
400 SEATS

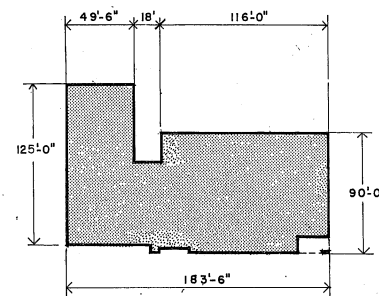


CHAPEL 10,200
6 CLASS RMS R.E.F. 5,000
GROSS AREA 15,200 S.F.

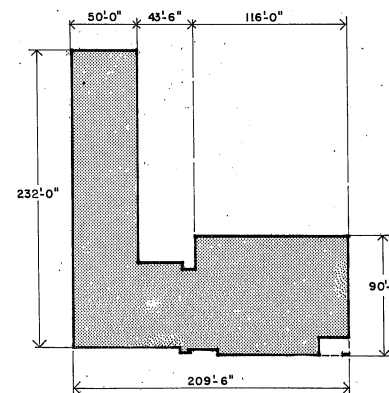


CHAPEL 10,200
11 CLASS RMS R.E.F. 8,800
GROSS AREA 19,000 S.F.

TYPE IV
500 SEATS

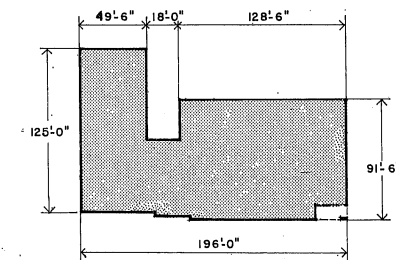


CHAPEL 11,500
8 CLASS RMS R.E.F. 6,100
GROSS AREA 17,600 S.F.

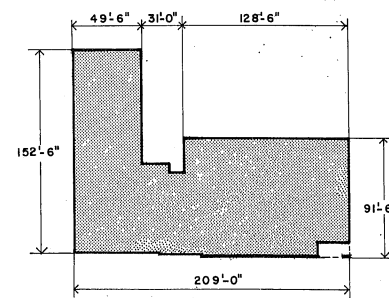


CHAPEL 11,500
20 CLASS RMS R.E.F. 13,100
GROSS AREA 24,600 S.F.

TYPE V
600 SEATS



CHAPEL 13,300
8 CLASS RMS R.E.F. 6,100
GROSS AREA 19,400 S.F.



CHAPEL 13,300
11 CLASS RMS R.E.F. 8,800
GROSS AREA 22,100 S.F.

D.O.D.CAT. CODE NO. 740

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL

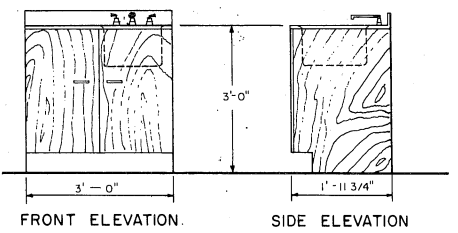
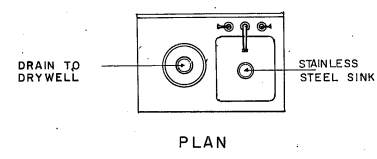
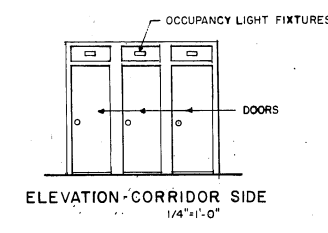
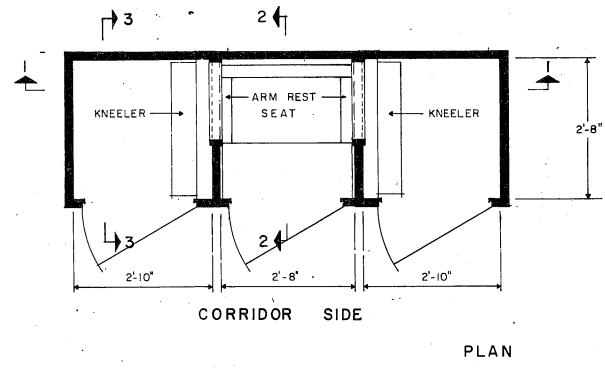
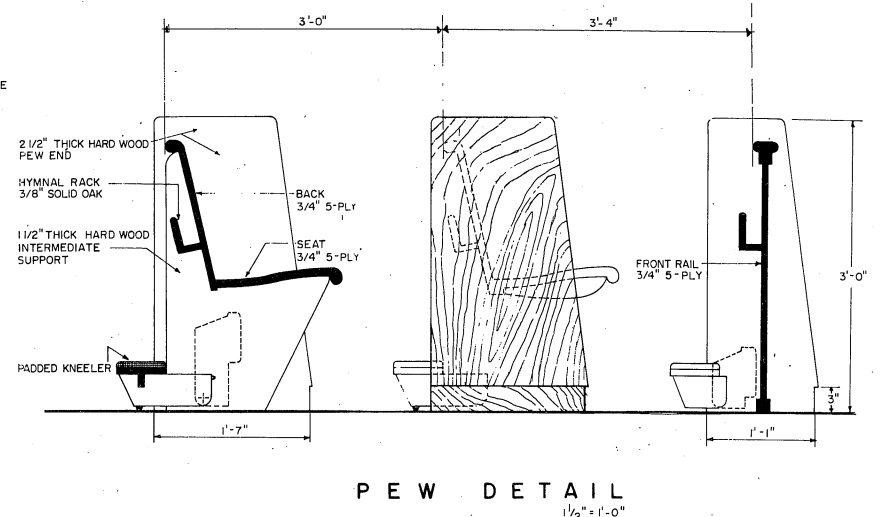
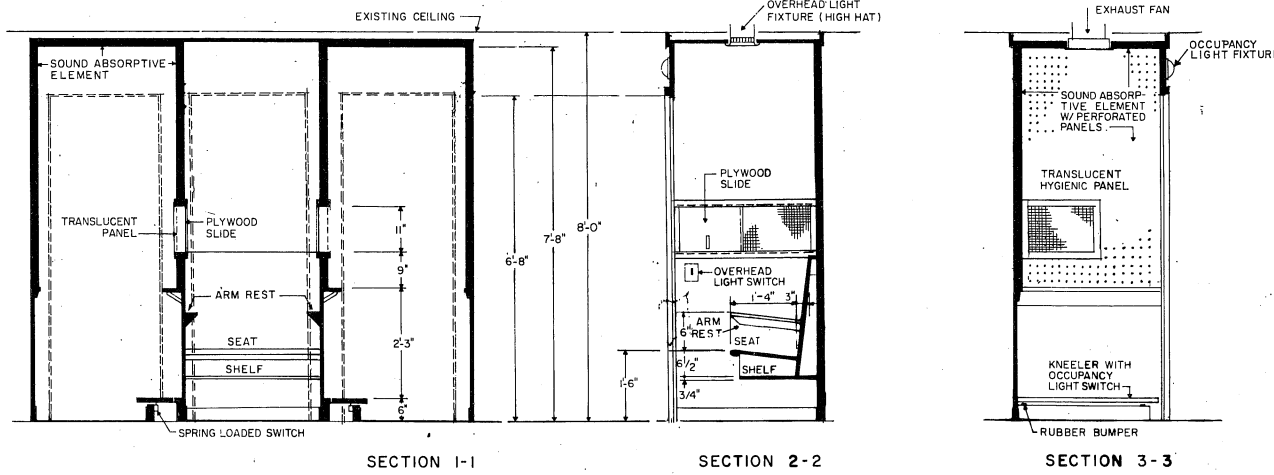
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

CHAPEL CENTER
COMBINED CHAPELS & CLASS RM. UNITS
CHAPEL TYPES II - III - IV - V
C.R. UNITS 5, 6, 8, 11 & 20

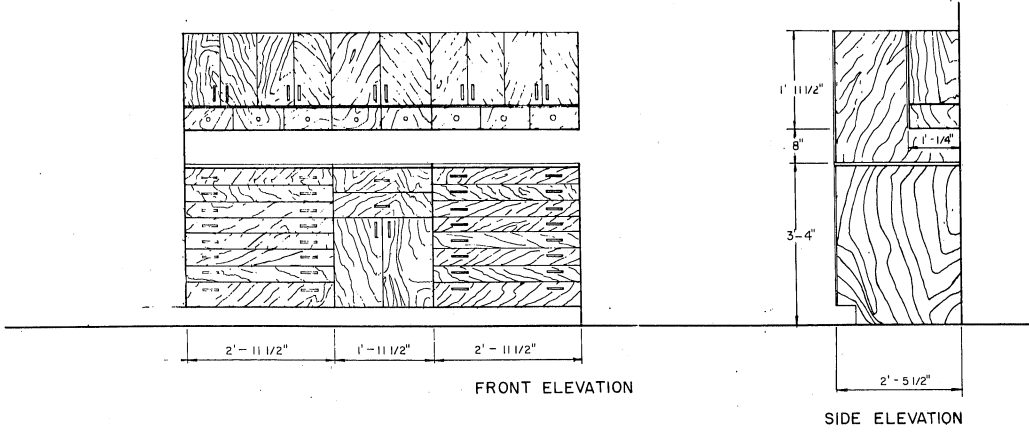
APPROVED:
[Signature]
FOR CHIEF OF STAFF, USAF

AD 38-01-68
SCALE: AS DIMENSIONED
DATE 10 NOV 1970
SHEET 6 OF 8

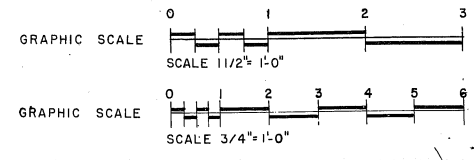


CONFESSIONAL DETAILS
SCALE 3/4" = 1'-0"

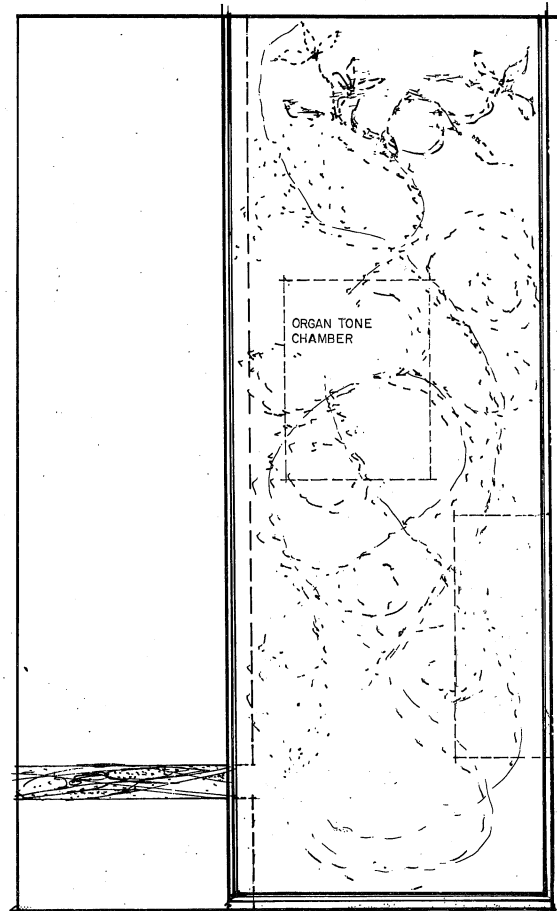
STOCK SACRARIUM UNIT
SCALE 3/4" = 1'-0"



VESTMENT CASE
3/4" = 1'-0"

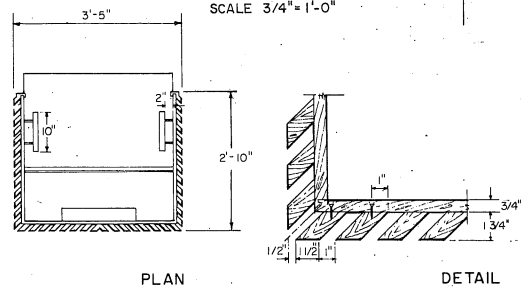


SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.			
CHAPEL MISCELLANEOUS DETAILS			
APPROVED: <i>Albert Goenner</i>		AD 38-01-68	
FOR CHIEF OF STAFF, USAF		SCALE: AS SHOWN	SHEET 7 OF 8
		DATE: 10 NOV. 1970	



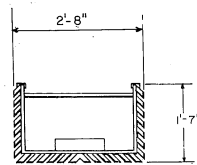
HALF ELEVATION OF SLIDING DOSSAL SCREEN (REPEAT ABOUT C)

SCALE 3/4" = 1'-0"

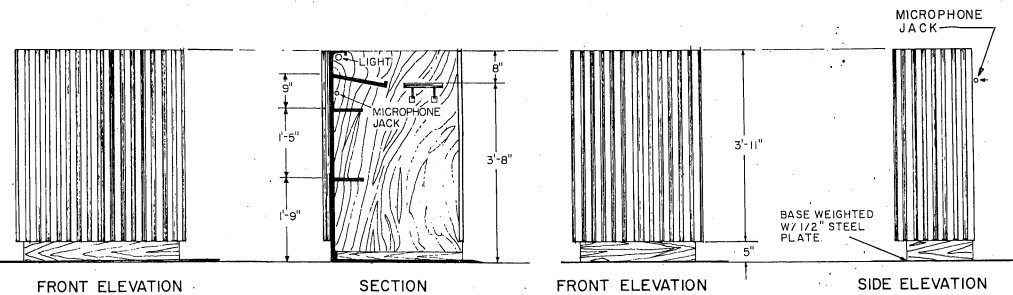


PLAN

DETAIL

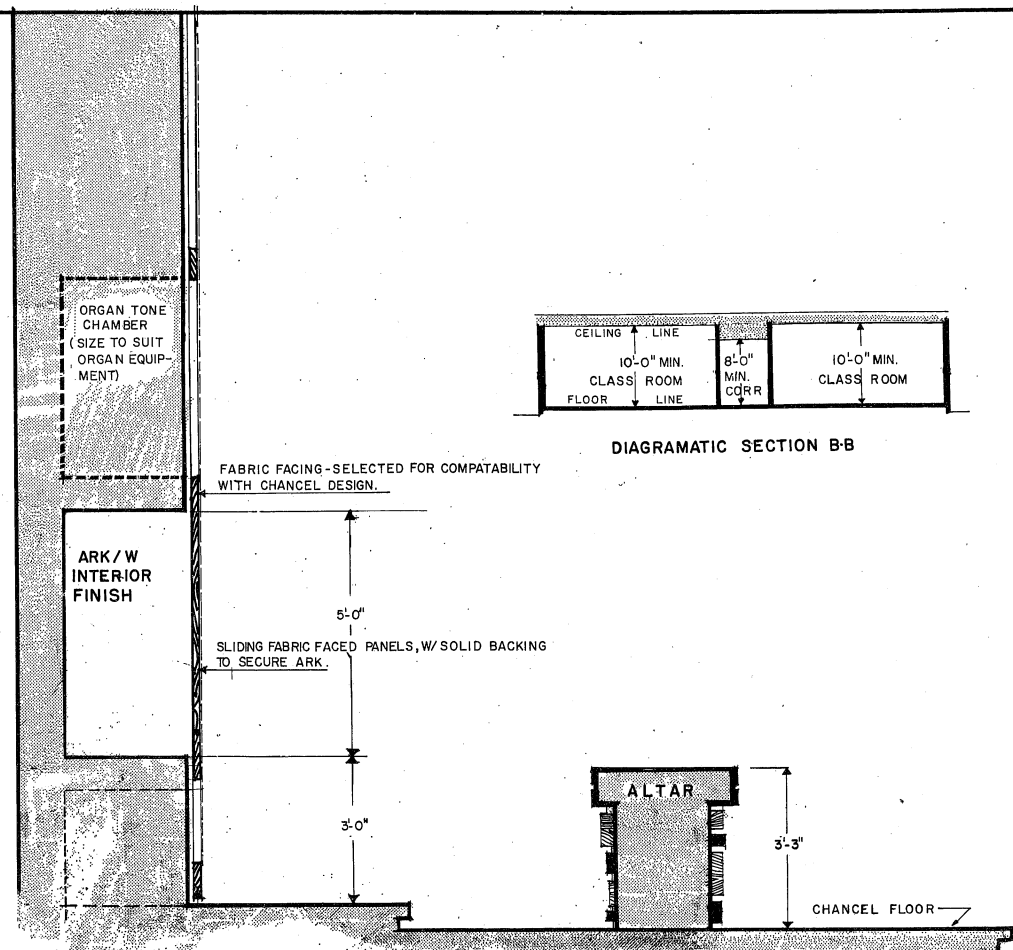


PLAN

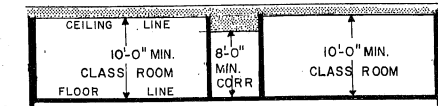


PULPIT DETAILS
3/4" = 1'-0"

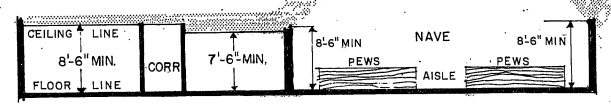
LECTERN DETAILS
3/4" = 1'-0"



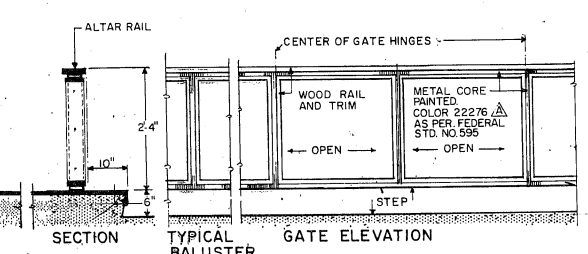
SECTION THRU ARK · DOSSAL SCREEN · TONE CHAMBER



DIAGRAMATIC SECTION B-B



DIAGRAMATIC SECTION A-A



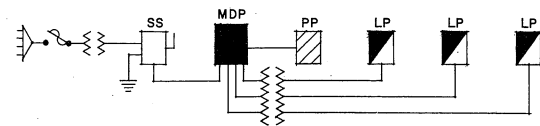
TYPICAL BALUSTER GATE ELEVATION
ALTAIR RAIL DETAILS
3/4" = 1'-0"

D.O.D. CAT. CODE NO. 740-233

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.			
CHAPEL MISCELLANEOUS DETAILS			
APPROVED:	AD 38-01-68		
FOR CHIEF OF STAFF, USAF	SCALE AS NOTED	DATE 10 NOV. 1970	SHEET 8 OF 8



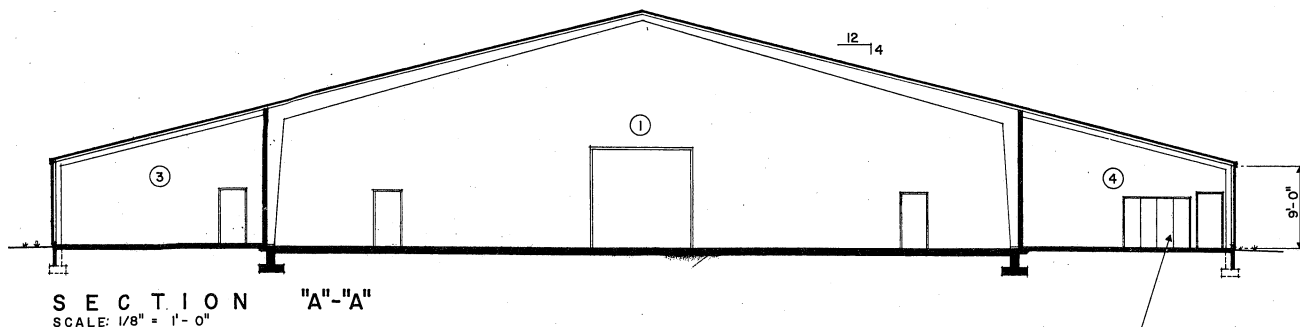
C2



ELECTRICAL RISER DIAGRAM
NO SCALE:

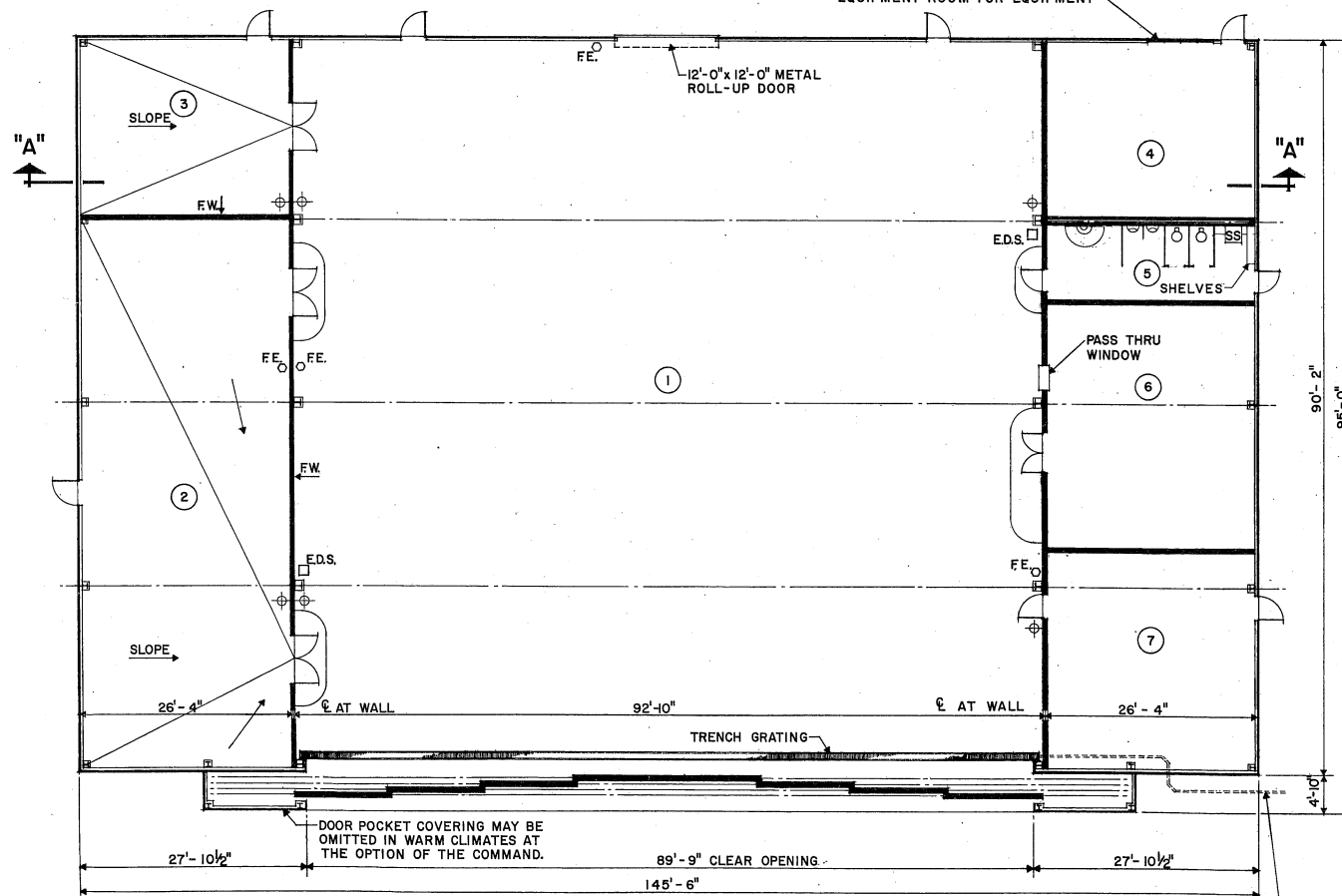
ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- ⊥ INCOMING ELECTRICAL SERVICE



SECTION "A"-A"
SCALE: 1/8" = 1'-0"

PROVIDE 6x8' METAL, REMOVABLE PANELS FOR ACCESS INTO MECHANICAL EQUIPMENT ROOM FOR EQUIPMENT



FLOOR PLAN
SCALE: 1/8" = 1'-0"

PROVIDE FOR A RUNNING TRAP & BACK FLOW VALVE BETWEEN TRENCH & OIL SEPARATOR TO PREVENT VAPOR RE-ENTRY INTO TRENCH

CRITERIA

1. THIS CRITERIA WILL BE USED FOR ALL FIGHTER TYPE DOCKS BOTH NEW AND ALTERATION.
2. THESE CRITERIA FOR ENVIRONMENTAL CONTROLS TO BE INSTALLED IN NEW OR ALTERED SMALL AIRCRAFT DOCKS MODIFIED FOR FUEL SYSTEM MAINTENANCE ON FIGHTER TYPE AIRCRAFT ARE CONTINGENT UPON FUEL SYSTEM OPERATION PROCEDURES AS FOLLOWS:
 - A. ONLY ONE AIRCRAFT WILL BE HOUSED AT A TIME IN A DOCK WHEN FUEL SYSTEM MAINTENANCE IS PERFORMED.
 - B. AIRCRAFT FUEL BLADDERS TO BE REPAIRED WILL BE DRAINED OF ALL USEABLE FUEL, PRIOR TO ENTRY OF THE AIRCRAFT INTO THE DOCK. RESIDUAL FUEL IN SUMPS WILL BE DRAINED INTO BARRELS OR OTHER SUITABLE CONTAINERS.
 - C. ALL FUEL SPILLED ON EITHER THE DOCK OR THE MAINTENANCE SHOP FLOOR WILL BE REMOVED BY FLUSHING WITH WATER. FUEL SYSTEM MAINTENANCE OPERATIONS WILL BE SUSPENDED IN THE INTERIM AND WILL NOT BE RESUMED UNTIL THE VAPOR DETECTORS INDICATE SAFE WORKING CONDITIONS.
 - D. ALL OPERATIONAL SAFETY PROCEDURES IN EFFECT IN APPLICABLE TO'S FOR FUEL SYSTEM MAINTENANCE WILL BE FOLLOWED.
 - E. PROVIDE EFFECTIVE FIRE CUT-OFF WALL IN MULTIPLE DOCKS ONLY. WALL SHALL BE LOCATED ON THE ADMINISTRATIVE SUPPORT SIDE OF THE 24" COLUMNS AS SHOWN ON THE ATTACHED SKETCH. FIRE RATING OF WALL MATERIAL SHALL BE NOT LESS THAN THOSE SHOWN ON PARAGRAPH 20 OF AFM 88-880-1, 15 JULY 1964.
 - F. NO OPENING EXCEPT FOR UTILITIES SHALL BE MADE THROUGH THE FIRE WALL OTHER THAN THE ONE TYPE B OPENING SHOWN IN THE CORRIDOR.
 - G. MECHANICAL
 - (1) PROVIDE TWO-SPEED EXHAUST FAN (250 CFM AND 500 CFM) LOCATED ON END WALL IN CENTER LINE OF THE DOCK SPACE FOR DIRECT EXHAUSTING OF FUMES FROM FUEL CELLS OR BLADDERS. DISCHARGE WILL BE DUCTED TO OUTSIDE OF BUILDING. PROVIDE RIGID DUCT WITH SOLDERED JOINTS FROM MID POINT OF HANGER OVER AIRCRAFT TO EXHAUST FAN. A FLEXIBLE DUCT WILL EXTEND FROM RIGID DUCT TO VICINITY OF DOCK FLOOR. PROVIDE FOR RAISING AND LOWERING OF FLEXIBLE DUCT INTO FUEL CELLS AND OUT OF DOCK WORKING ZONE. DUCT AND MOTORS WILL BE EFFECTIVELY GROUND.
 - (2) SINCE VAPORS FROM THE FUEL CELLS WILL BE EXHAUST VENTILATED TO THE OUTSIDE OF THE DOCK, NO OTHER ENVIRONMENTAL VENTILATION IS REQUIRED.
 - (3) FUEL BLADDER MAINTENANCE ROOM WILL BE AIR CONDITIONED. DESIGN CONTROLS WILL BE 80° PLUS OR MINUS 2° F AND 50 PER CENT PLUS 5 PER CENT RELATIVE HUMIDITY. A WINTER OPERATING INSIDE TEMPERATURE OF 70° IS ADEQUATE WITH NO MINIMUM RELATIVE HUMIDITY REQUIREMENT. PROVIDE OUTSIDE AIR MAKE-UP AT A RATE OF 2 AIR CHANGES PER HOUR.
 - (4) MAINTENANCE SHOP WILL HAVE OUTSIDE AIR VENTILATION OF 2 AIR CHANGES PER HOUR IN WINTER AND 20 AIR CHANGES IN SUMMER. THE SUMMER VENTILATING CYCLE COULD BE USED FOR A QUICK PURGE OF THE SHOP, IF NEEDED. HEATING WILL NOT BE PROVIDED FOR THE 20 AIR CHANGES.
 - (5) IN ACCORDANCE WITH CRITERIA, AUTOMATIC SPRINKLERS WILL NOT BE INSTALLED.
 - (6) PROVIDE MANUAL FIRE ALARM SYSTEM WITH TRANSMITTER CONNECTED TO BASE FIRE ALARM SYSTEM FOR TRANSMISSION OF SIGNALS TO CENTRAL ALARM STATION.
 - (7) PROVIDE 1-1/4" WATER OUTLETS AS SHOWN TO PERMIT CONNECTION WITH HOSES FOR FLUSHING THE DOCK AND THE MAINTENANCE SHOP FLOORS IN THE EVENT OF AN ACCIDENTAL FUEL SPILL. FLUSHING CONNECTOR SHOULD BE PROVIDED IN THE BOTTOM OF THE DOCK TRENCH TO REMOVE DEBRIS.
 - (8) INITIALLY, 4 PORTABLE VAPOR (GAS) DETECTOR UNITS IN THE DOCK AND 2 UNITS IN THE MAINTENANCE SHOP WILL BE FURNISHED AND INSTALLED BY THE COMMAND. MORE UNITS MAY BE REQUIRED LATER DEPENDING UPON FUEL CELL MAINTENANCE OPERATING EXPERIENCE.
3. T.O. 1-1-3 WAS ORIGINALLY APPLICABLE FOR NEW FUEL SYSTEM DOCKS FOR MAINTENANCE OF LARGE AIRCRAFT TYPES SUCH AS B-52 AND C-141 WHERE UNDERFLOOR VENTILATION TRENCHES WERE CONNECTED TO EXTERNAL FORCED VENTILATION STACKS. THIS TYPE OF CONSTRUCTION IS NOT REQUIRED FOR FIGHTER TYPE AIRCRAFT.

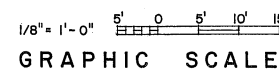
LEGEND

- EWG ELECTRIC WATER COOLER
- SS SERVICE SINK
- FE CO₂ UNIT W/75' HOSE
- EDS EMERGENCY DELUGE SHOWER W/EYE WASH (W/O DRAIN)
- FW FIRE WALL (1 HOUR)
- ⊥ 1-1/4" WATER OUTLET FOR FLUSHING FLOOR

ROOM SCHEDULE				
NO	NAME	FLOOR	WALLS	CEILING
1.	DOCK	CONCRETE	SEE NOTE 2	EXPOSED
2.	MAINTENANCE	DO	DO	DO
3.	FUEL BLADDER MAINTENANCE	DO	DO	DO
4.	MECHANICAL EQUIPMENT	DO	DO	SEE NOTE 1
5.	TOILET	DO	DO	EXPOSED
6.	STORAGE, TOOLS	DO	DO	DO
7.	ADMIN. - T/O - OJT	DO	DO	DO

NOTES:

1. ROOM 4 TO HAVE 1 HOUR RATED DROPPED CEILING, IF INTEGRAL HEATING PLANT IS USED.
2. WALLS MARKED FW (FIRE WALL) WILL BE 1 HOUR RATED. USE MASONRY OR GYPSUM BOARD WITH 5/8" HIGH CORRUGATED METAL WAINSCOT. EXTERIOR WALLS OF ROOMS 6 X 7 TO HAVE METAL WAINSCOT 5/8" HIGH WITH NO GYPSUM BOARD ABOVE.



PROGRAMMING AND PLANNING GUIDES

THE FOLLOWING INFORMATION IS PROGRAMMING, AND PLANNING GUIDANCE.

SPECIFICATIONS

USE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS FOR CONSTRUCTION MATERIALS AND DESIGN CRITERIA.

GENERAL NOTES

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	33.1	410.2	444.3
ESTIMATED DEMAND			
WATER (GPM)			
HOT	5		
COLD	47		
TOTAL	50		
TOTAL (GPD)	5,250		
SEWAGE (GPD)	3,500		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F

M/BTU/HR = 903

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB

TONS OF REFRIGERATION 15 TONS

(COMFORT AIR CONDITIONING IS LIMITED TO A WALL TYPE UNIT FOR ROOM 7 ONLY.)

AREA FOR PROGRAMMING GROSS AREA

13,670 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

IT IS NOT INTENDED THAT UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY. FINISHES WILL BE MINIMAL IN ACCORDANCE WITH THE INDUSTRIAL USAGE OF THIS FACILITY.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF STANDARD PRE-ENGINEERED STRUCTURES.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH PART IV, CHAPTER 1, OF THE O.C.E. ENGINEERING MANUAL.

ELECTRICAL

LIGHTING INTENSITIES ARE DETERMINED AT WORKING LEVELS. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

USE U.S. ARMY LOS ANGELES CORPS OF ENGINEERING DRAWING 905/39-05-10 FOR FUEL SYSTEM EQUIPMENT AND ARRANGEMENT.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH O.C.E. ENGINEERING MANUAL, PART V, CHAPTER 4 AND WITH AFM 88-15.

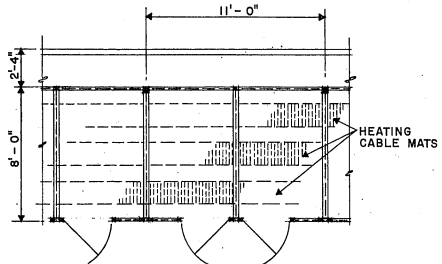
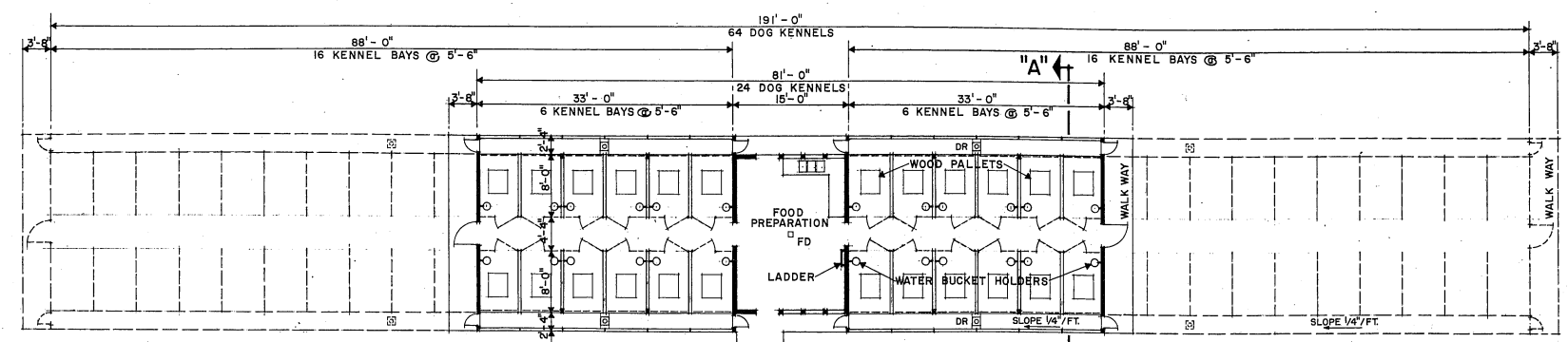
CATEGORY CODE NO. 211-179

SYMBOL	CRITERIA ADDED	REVISION - DESCRIPTION	DATE	APPROVED

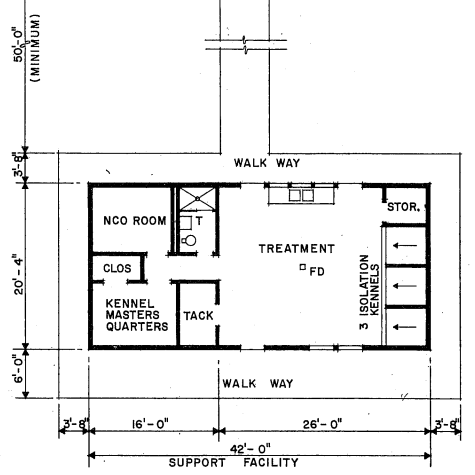
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

**MAINTENANCE DOCK,
FUEL SYSTEM
SMALL AIRCRAFT**

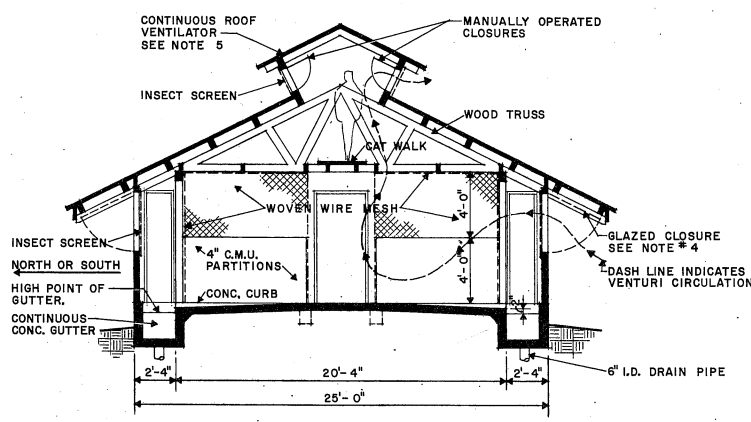
APPROVED	AD 39-05-15 RI
FOR CHIEF OF STAFF USAF	SCALE AS SHOWN DATE: 7 Apr 1970
	SHEET 1 OF 1



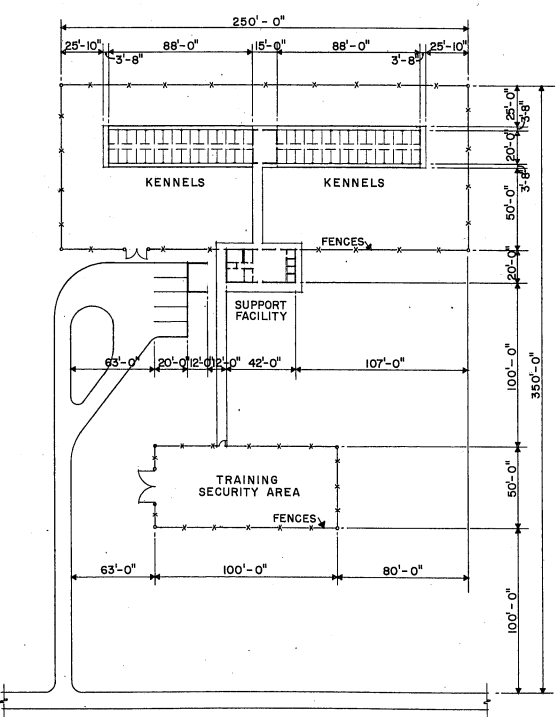
PLAN SHOWING SUGGESTED METHOD WHEN PARTIAL RADIANT HEATING IN SLAB IS USED (SEE NOTE 6)
SCALE: 1/4" = 1'-0"



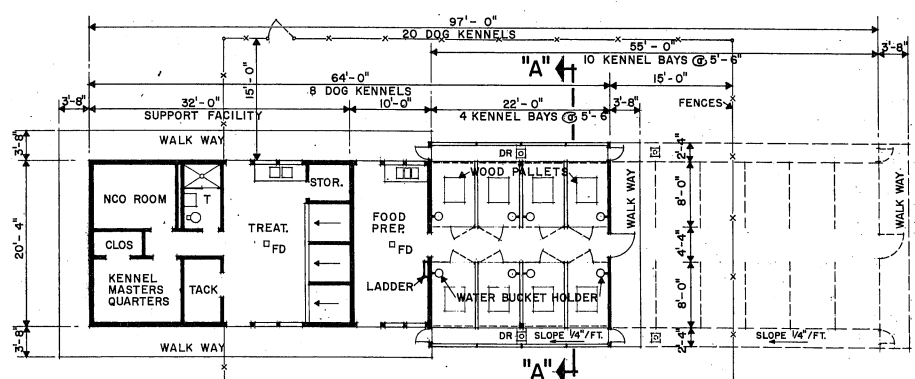
FLOOR PLAN TYPE "A"
(24 KENNELS MINIMUM - 64 KENNELS MAXIMUM)
SCALE: 1/8" = 1'-0"



SECTION "A-A"
SCALE: 1/4" = 1'-0"



SITE PLAN (TYPICAL)
SCALE: 1" = 40'



FLOOR PLAN TYPE "B"
(8 KENNELS MINIMUM - 20 KENNELS MAXIMUM)
SCALE: 1/8" = 1'-0"



GRAPHIC SCALES

UTILITY REQUIREMENTS

ELECTRICITY (KW)	TYPE A (24)	TYPE A (64)	TYPE B (8)	TYPE B (20)
CONNECTED LOAD	30	50	15	25
ESTIMATED DEMAND	20	40	10	15

*NOTE: WHEN ELEC. RADIANT HEAT IS USED, ADD 1-1/2 KW FOR EACH KENNEL PROGRAMMED.

WATER (GPM)	TYPE A (24)	TYPE A (64)	TYPE B (8)	TYPE B (20)
HOT	10	15	5	8
COLD	40	70	20	30

WATER (GPD) 200 FOR SUPPORT FACILITY PLUS 6 PER EACH KENNEL PROGRAMMED
SEWAGE (GPD) 200 FOR SUPPORT FACILITY PLUS 6 PER EACH KENNEL PROGRAMMED

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	75°F WB / 95°F DB	75°F WB / 95°F DB	75°F WB / 95°F DB	75°F WB / 95°F DB
TONS OF REFRIGERATION	4	4	2	2

- GENERAL NOTES**
- LOCATION AND DIMENSIONS OF TRAINING SECURITY AREA, KENNEL BUILDING, NUMBER OF KENNELS, FENCE AND LOADING PAD MAY VARY TO MEET BASE REQUIREMENTS.
 - LONG DIMENSION OF KENNEL BUILDING MUST RUN EAST AND WEST SO THAT THE EXTERIOR SIDE OF THE KENNELS WILL FACE NORTH OR SOUTH.
 - FLOOR PLANS WILL BE SIMILAR IN ALL CLIMATES.
 - FOR COLD CLIMATES, PROVIDE GLAZED CLOSURES FOR ALL EXTERIOR SCREENED AREAS, AND MINIMUM RADIANT HEAT IN SLAB TO PREVENT FREEZING IN KENNELS.
 - WHEN GLAZED CLOSURES ARE ADDED, CONTINUOUS ROOF VENTILATOR MAY BE DELETED AND A CIRCULAR METAL ROOF VENTILATOR MAY BE INSTALLED APPROX. 20'-0" O.C. IN LIEU THEREOF. ANY ROOF VENTILATOR USED SHOULD HAVE THE CAPABILITY OF BEING OPENED OR CLOSED MANUALLY.
 - ELECTRIC RESISTANCE TYPE HEATING CABLE EMBEDDED IN CONCRETE SLAB IN KENNELS IS SUGGESTED METHOD OF PROVIDING RADIANT HEAT. HEAT SHOULD BE THERMOSTATICALLY CONTROLLED. FULL OR PARTIAL SLAB HEAT MAY BE USED DEPENDING UPON CLIMATIC CONDITIONS. OMIT HEATING ELEMENT WITHIN CORRIDOR AREA.
 - PROVIDE HEATING UNITS FOR KENNEL MASTER'S QUARTERS, TREATMENT AREA AND FOOD PREPARATION AREA.
 - IN WARM CLIMATES, PROVIDE AIR CONDITIONING IN TREATMENT AND FOOD PREPARATION AREAS. USE SELF CONTAINED WINDOW UNITS OR FLOOR TYPE UNITS.
 - ALL AREAS WITHIN BUILDING TO BE PROTECTED WITH INSECT SCREENING.
 - MINIMUM FACILITY TO BE PROGRAMMED WILL BE 8 DOG KENNELS, TYPE "B". MAXIMUM FACILITY WILL NOT EXCEED 64 DOG KENNELS, TYPE "A".
 - C.M.U. PARTITIONS BETWEEN KENNELS TO HAVE LIQUID GLAZE APPLIED SURFACE. FINISHES IN ALL AREAS ACCESSIBLE TO DOGS MUST TAKE INTO CONSIDERATION THE DAMAGE CAUSED BY SCRATCHING AND THE DESIRABILITY FOR MINIMUM MAINTENANCE AND MAXIMUM SANITATION.
 - PROVIDE A 2'-4" x 3'-0" WOOD PALLET IN EACH KENNEL. SUGGESTED CONSTRUCTION TO BE 2 x 4'S @ 5" ON CENTER WITH 2 x 4 CROSS MEMBERS UNDERNEATH.
 - PROVIDE A BUCKET HOLDER IN EACH KENNEL.
 - PROVIDE A 12' LONG LADDER FOR ACCESS TO CAT WALK.
 - ALL SINKS TO BE DEEP, LAUNDRY TYPE, IN FOOD PREPARATION ROOM.
 - SECURITY FENCES ARE 8'-0" HIGH, CHAIN LINK, WITH ONE STRAND OF BARBED WIRE.

AREA FOR PROGRAMMING GROSS AREA

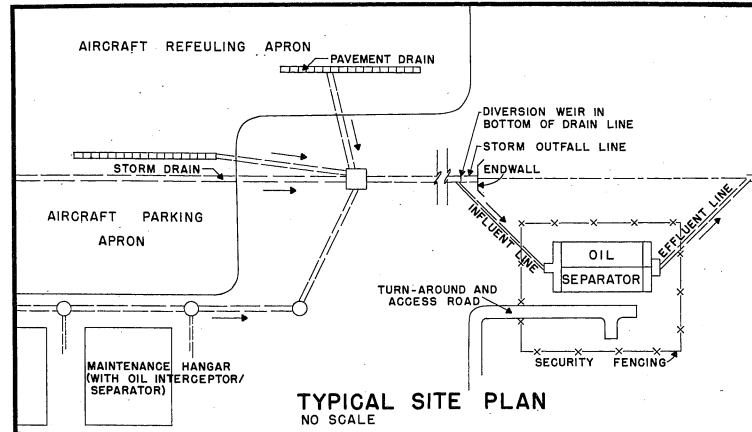
	KENNEL BUILDING	SUPPORT FACILITY
TYPE "A" 24 KENNELS	2,025 SQ. FT.	858 SQ. FT.
TYPE "A" 64 KENNELS	4,775 SQ. FT.	858 SQ. FT.
TYPE "B" 8 KENNELS	753 SQ. FT.	650 SQ. FT.
TYPE "B" 20 KENNELS	1,578 SQ. FT.	650 SQ. FT.

CATEGORY CODE NO 610-632

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

CANINE KENNELS
PLANS & SECTION

APPROVED: *[Signature]* AD 39-19-01 R4
FOR CHIEF OF STAFF USAF
SCALE AS SHOWN
DATE 7 Apr 1970 SHEET 1 OF 1



TYPICAL SITE PLAN
NO SCALE

DESIGN FACTORS

VELOCITY THROUGH SEPARATOR SHOULD NOT EXCEED 3 FPM.
 MINIMUM SEPARATOR CROSS-SECTIONAL AREA, A_c :
 $A_c = \frac{Q}{V}$ WHERE Q = DESIGN FLOW
 V = VELOCITY THROUGH SEPARATOR
 $L = V(T)$ L = LENGTH OF SEPARATOR CHAMBER
 T = DETENTION TIME
 MINIMUM WIDTH TO LENGTH RATIO:
 $\frac{B}{L} = 0.3$ d = DEPTH OF WASTEWATER IN SEPARATOR
 B = WIDTH OF SEPARATOR CHAMBER
 MAXIMUM WIDTH TO LENGTH RATIO:
 $\frac{B}{L} = 0.5$ MAXIMUM DEPTH = 6 FT.
 MINIMUM DEPTH = 3 FT.

CONCRETE OIL SEPARATOR

INFLUENT PIPE MAY ENTER INLET CHAMBER AT ANY ANGLE. IF OTHER INLET CHAMBER DESIGN IS USED, DESIGN MUST PROVIDE UNIFORM DISTRIBUTION TO BOTH SEPARATION CHAMBERS.
 SLIDE GATES TO BE REMOVABLE. TO BE USED TO DIVERT FLOW TO ONE SEPARATION CHAMBER WHILE MAINTENANCE OR CLEANING IS PERFORMED ON OTHER CHAMBER.

EARTHEN BASIN OIL SEPARATOR

IMPERVIOUS LINER TO BE CONSTRUCTED FROM CLAY SOIL IF ECONOMICALLY AVAILABLE. IF NOT AVAILABLE USE MANUFACTURED LINERS INSTALLED UNDER LAYER OF SOIL MATERIAL. LINER MATERIAL TO BE RESISTANT TO PUNCTURE AND DETERIORATION. LINER CONSTRUCTION TO BE EXTENDED ABOVE TOP OF STATIC WATER LEVEL.
 SIDE SLOPES NOT TO BE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL UNLESS SPECIFICALLY DESIGNED TO WITHSTAND A GREATER SLOPE.

CONCRETE VERSUS EARTHEN BASIN SEPARATOR:

A DETERMINATION AS TO WHETHER A CONCRETE OR EARTHEN BASIN SEPARATOR SHOULD BE USED IS ONE OF AVAILABLE LAND SPACE AND ECONOMICS. THE DETERMINATION MUST BE BASED ON THE COSTS AND AVAILABILITY OF THE CONSTRUCTION MATERIALS REQUIRED FOR BOTH TYPES OF SEPARATORS FOR A GIVEN DESIGN FLOW.

OIL SEPARATORS SERVING STORM OUTFALL LINES

GENERAL NOTES

WATERSHED AREAS CONTAINING AIRCRAFT PARKING APRONS AND REFUELING FACILITIES SHOULD BE PROVIDED WITH OIL SEPARATORS ON STORM OUTFALL LINE. IF THESE WASTE DISCHARGES HAVE THE POTENTIAL OF ENTERING THE STORM DRAINAGE COLLECTION SYSTEM, INDIVIDUAL INDUSTRIAL WASTE TREATMENT FACILITIES WILL BE PROVIDED AT EACH MAINTENANCE OR WASTE GENERATING FACILITY. THE OIL SEPARATOR TO BE INSTALLED ON THE STORM OUTFALL WILL SERVE STRICTLY AS A BACKUP FACILITY TO THE INDIVIDUAL SHOP WASTE COLLECTION AND TREATMENT FACILITIES. ACCUMULATED OILS ON AIRCRAFT PARKING AREAS MAY BE FLUSHED INTO THE STORM DRAINAGE SYSTEM BY STORM RUN-OFF WHICH COULD RESULT IN A VIOLATION OF LOCAL STREAM QUALITY STANDARDS. THE SEPARATOR SHOULD BE SITED AT A SELECTED LOCATION DOWNSTREAM OF THE AREAS TO BE SERVED. AS A MINIMUM, SITE SELECTION SHOULD BE BASED ON MINIMUM WATERSHED AREA NECESSARY TO SERVE THE FACILITIES CONCERNED, TOPOGRAPHY WHICH WILL PERMIT GRAVITY FLOW CONDITIONS, WHERE POSSIBLE, AND ACCESSIBILITY FOR SERVICING. WHERE GRAVITY FLOW IS NOT POSSIBLE OR WHERE GROUND WATER CONDITIONS REQUIRE DEWATERING FACILITIES AND WHERE THE SEPARATOR WOULD BE SUBJECT TO FLOODING, PUMPING OF THE INFLUENT TO THE SEPARATOR WILL BE CONSIDERED. SYSTEM TO BE INSTALLED WILL BE DETERMINED AFTER A COST COMPARISON OF THE ALTERNATIVE METHODS BASED ON THE ABOVE CONSIDERATIONS.

WHERE PUMPING FACILITIES ARE TO BE INSTALLED, PUMPS WILL BE DUPLEX WITH EACH PUMP HAVING THE CAPACITY TO HANDLE THE DESIGN FLOW. SCREW PUMPS WILL BE CONSIDERED WHERE HIGH VOLUME, LOW HEAD EQUIPMENT IS REQUIRED. PUMP MOTORS SHOULD BE EXPLOSION PROOF.

DESIGN FLOW SHOULD BE BASED ON AT LEAST TWICE THE MAXIMUM DRY WEATHER FLOW OR THE LARGEST ANTICIPATED SPILL DISCHARGE (INCLUDING FLUSHING WATER). THE SEPARATOR WILL BE SIZED FOR A DETENTION TIME WHICH WILL ADEQUATELY SEPARATE THE FLOATABLE MATERIALS. DETENTION TIMES CAN VARY FROM 5 MINUTES TO 1-1/2 HOURS, DEPENDING ON THE CHARACTERISTICS OF THE MATERIAL TO BE SEPARATED. IN GENERAL, A DETENTION TIME OF 45 MINUTES WILL ADEQUATELY REMOVE MOST FLOATABLE WASTE MATERIALS. HOWEVER, AN ANALYSIS SHOULD BE MADE TO DETERMINE THE DETENTION PERIOD REQUIRED TO ADEQUATELY SEPARATE THE SPECIFIC WASTE TO BE TREATED. FOR DIVERTING DESIGN FLOW FROM THE STORM DRAINAGE SYSTEM TO THE SEPARATOR, SEE AFM 88-15, CHAPTER 11. DIVERSION CHAMBER IN STORM DRAINAGE SYSTEM AND INFLUENT PIPING SYSTEM SHALL BE DESIGNED TO MINIMIZE SILT OR SEDIMENT DEPOSITS WHICH COULD OBSTRUCT INFLUENT FLOW.

SLIDE GATES SHOULD BE INSTALLED AT THE HEAD OF THE INLET DISTRIBUTION TROUGH AND AT THE DOWNSTREAM END OF THE EFFLUENT LINE FOR BY-PASSING OR TO IMPOUND ACCIDENTALLY SPILLED HAZARDOUS NON-PETROLEUM BASE MATERIALS WHERE SUCH POTENTIAL EXISTS. CAPACITY OF EFFLUENT LINE TO BE SLIGHTLY GREATER THAN INFLUENT LINE.

HEIGHT OF RETEMENT OR WALLS TO EXTEND ABOVE FLOOD PLAIN OF ADJACENT STREAMBED OR STORM COLLECTION SYSTEM.

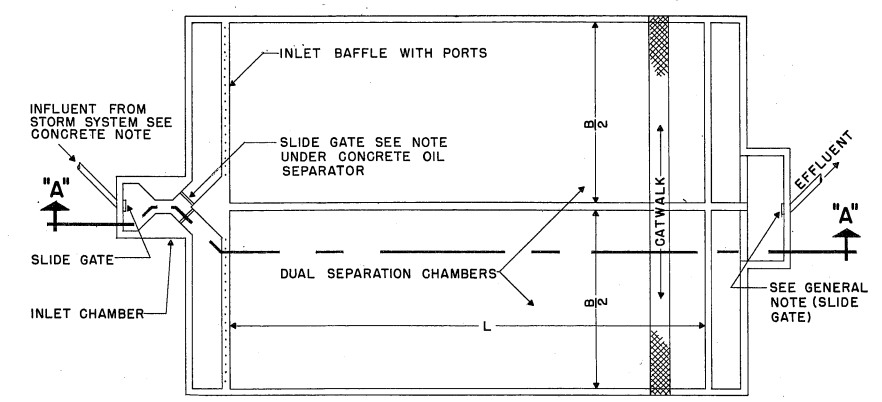
A CATWALK SHOULD BE CONSTRUCTED ACROSS THE WIDTH OF THE SEPARATOR ADJACENT TO THE BAFFLE FOR SERVICING DURING OIL REMOVING OPERATIONS.

THE SEPARATOR DESIGN SHOWN DOES NOT INCLUDE FIXED OR PERMANENT OIL SKIMMING DEVICES. PORTABLE OR MOBILE OIL SKIMMING EQUIPMENT IS INTENDED TO BE UTILIZED SINCE MORE THAN ONE SEPARATOR CAN BE SERVICED. FIXED SKIMMING DEVICES, I.E., BELT SKIMMER, ROTATING DRUM, SLOTTED PIPE, ETC. MAY BE CONSIDERED WHERE A MOBILE SKIMMING DEVICE WOULD NOT PROVIDE ANY ADDITIONAL ADVANTAGES.

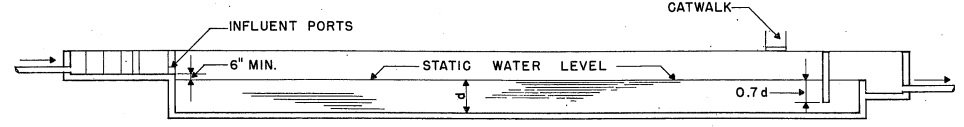
SERVICE ROAD AND TURNAROUND SHALL BE PROVIDED TO THE SEPARATOR.

SECURITY FENCING SHALL BE INCLUDED WHERE THERE IS A POSSIBILITY OF UNAUTHORIZED PERSONS GAINING ACCESS TO THE FACILITY.

CATEGORY CODE NO. 831-155

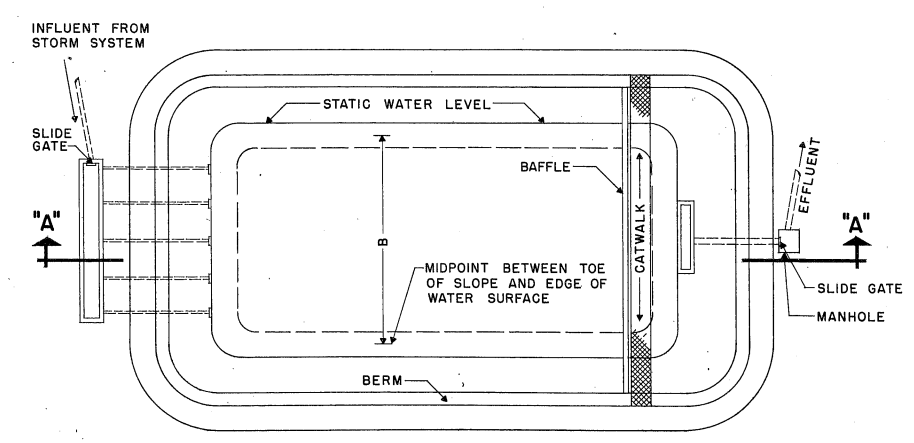


PLAN
NO SCALE

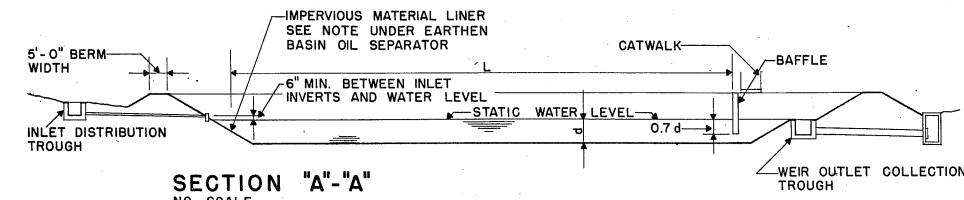


SECTION "A-A"
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CONCRETE OIL SEPARATOR



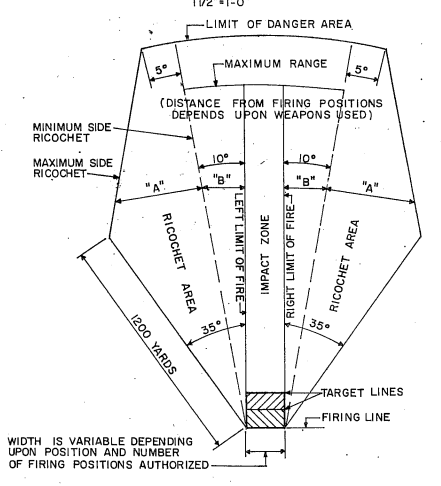
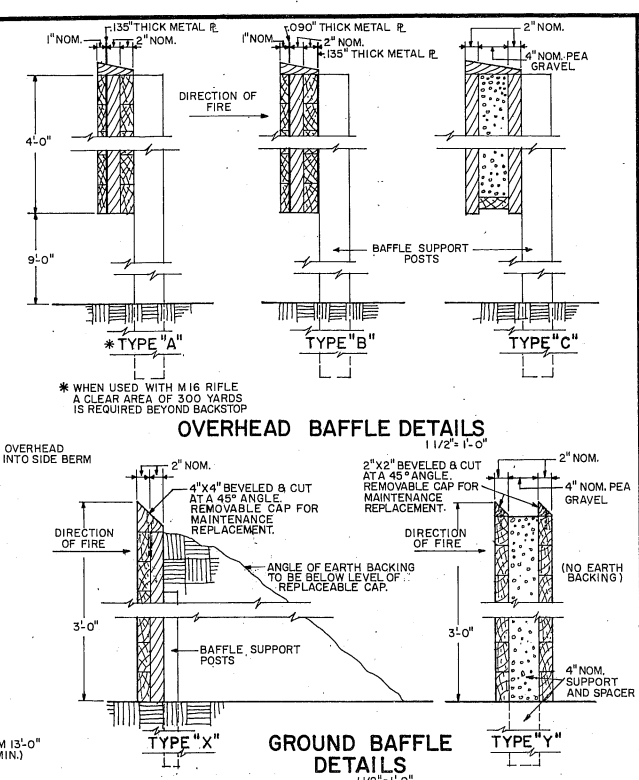
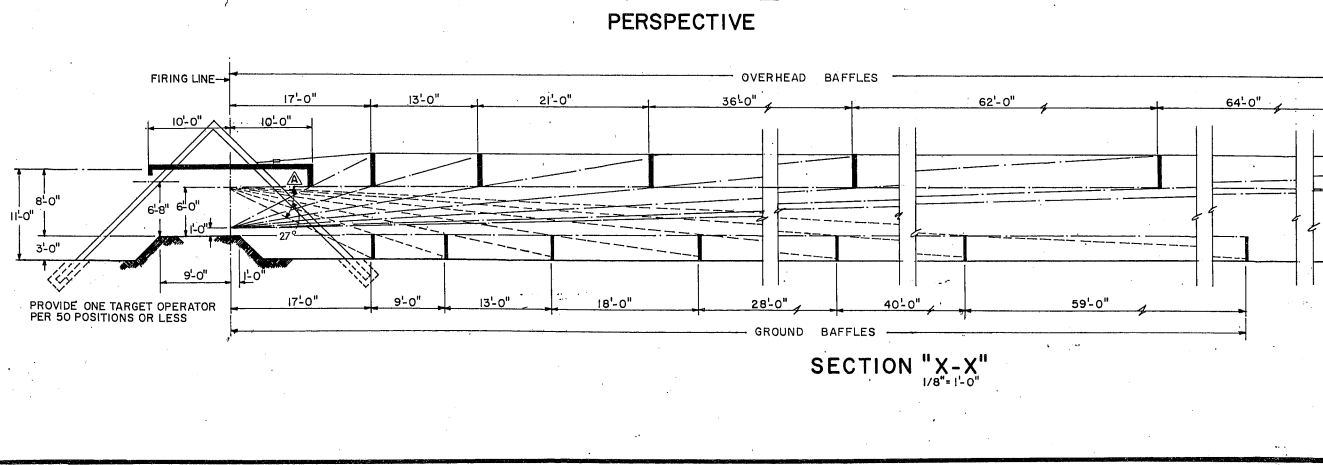
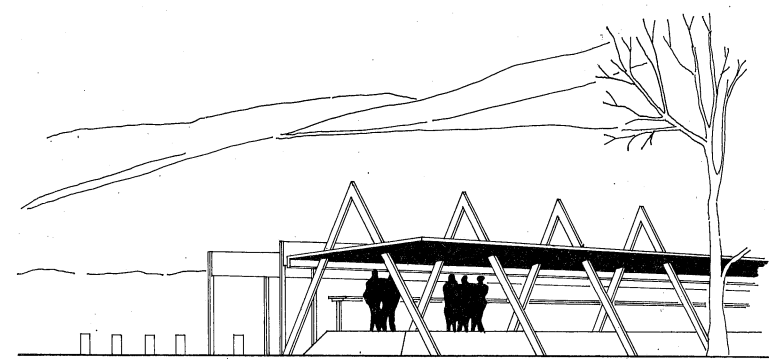
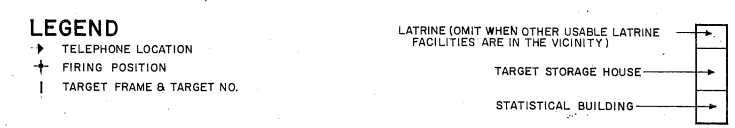
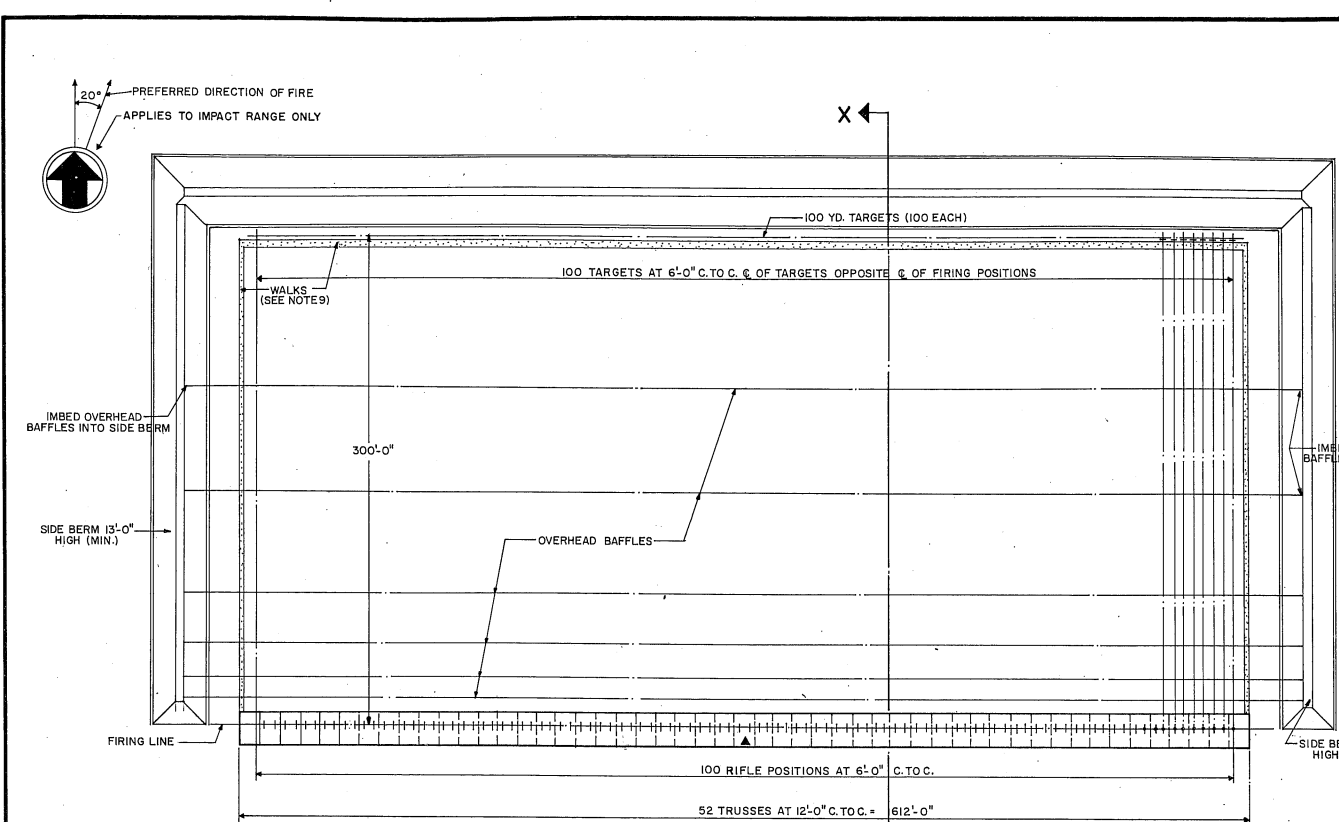
PLAN
NO SCALE



SECTION "A-A"
NO SCALE

EARTHEN BASIN OIL SEPARATOR

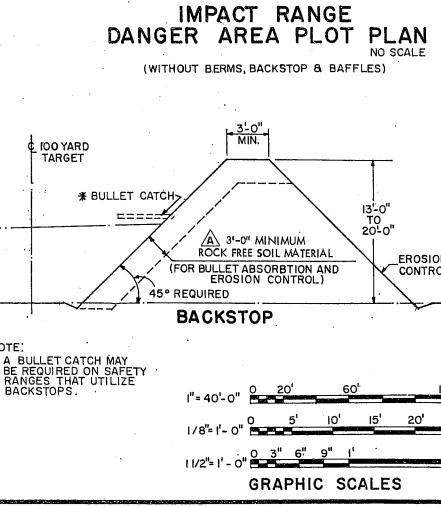
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DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
INDUSTRIAL WASTE TREATMENT AND DISPOSAL			
OIL SEPARATORS			
SERVING STORM OUTFALL LINES			
PLANS & SECTIONS			
APPROVED	SCALE: NONE	SHEET 1 OF 1	
<i>[Signature]</i>	DATE: 1 May 1975		
FOR CHIEF OF STAFF USAF	AD 71-07-18		



AMMUNITION	DIMENSIONS IN YARDS		
	MAXIMUM RANGE	SAFETY FACTOR	LIMIT OF DANGER AREA
CALIBER .22 LONG RIFLE	1400	250	1650
CALIBER .30 CARBINE	2200	300	2500
CALIBER 5.56 MM	2833	500	3333

1. MAXIMUM SIDE RICOCHET AREA "A" IS DETERMINED BY MEASURING OUTWARD FROM A POINT AT THE END OF FIRING LINE AT AN ANGLE 35° BEYOND THE LIMIT-OF-FIRE LINE FOR A DISTANCE OF 1200 YARDS; AND BY MEASURING OUTWARD 5° BEYOND THE MINIMUM SIDE RICOCHET AREA "B" AT THE OUTER LIMIT OF THE DANGER AREA.

2. MINIMUM SIDE RICOCHET AREA "B" IS DETERMINED BY MEASURING OUTWARD FROM A POINT AT THE END OF THE FIRING LINE AT AN ANGLE OF 10° TO THE OUTER LIMIT OF THE DANGER AREA.



- PROGRAMMING AND PLANNING GUIDES**
- THE BASE CIVIL ENGINEER HAVING SUPPORT RESPONSIBILITY WILL INSURE COMPLIANCE WITH THE PROVISIONS OF AFM 50-25; CHAPTER 1, AND SEC. 9, PARA. 1-8 OF AFM 85-1. A SMALL ARMS TRAINING BUILDING (171-476) MAY BE REQUIRED. SEE AFM 86-4.
 - GOVERNMENT FURNISHED AND INSTALLED PUBLIC ADDRESS SYSTEM WILL BE ADEQUATE TO VERBALLY CONTROL FIRING.
 - ROOF AND ROOF BAFFLES FORWARD OF THE FIRING LINE TO BE CONSTRUCTED THE SAME AS OVERHEAD BAFFLES. THAT PORTION OF THE ROOF BACK OF THE FIRING LINE MAY BE NORMAL ROOF CONSTRUCTION.
 - A 300 YARD DANGER AREA IS REQUIRED BACKSTOP.
 - ANY USE OF THE DANGER AREA ON ANY SMALL ARMS RANGE WILL BE ON A STRICTLY CONTROLLED ACCESS BASIS.
 - TARGET TURNING DEVICES WILL BE PROVIDED AND INSTALLED BY THE AIR FORCE. (SEE AFM 50-25 ATCH. 9).
 - MATERIAL FOR FIRING SIDE OF ALL BAFFLES WILL BE MIDDLE GRADE LUMBER; PINE, FIR OR REDWOOD IS ACCEPTABLE. EXCEPTIONALLY HARD OR KNOTTY WOOD IS NOT PERMITTED. MATERIAL ON BACK SIDE OF BAFFLES MAY BE OF LOWER GRADE AND/OR HIGHER DENSITY.
 - TURFED WALKS WITH BASE CONSISTING OF NON-RICOCHET MATERIALS SUCH AS SAND OR MIXTURE OF SAND, CINDEES AND TOP SOIL ONLY WILL BE PERMITTED.

- UTILITY REQUIREMENTS**
- ELECTRICITY
 - WATER
 - SEWAGE
 - GAS
 - STEAM
 - TELEPHONE
- HEATING REQUIREMENT**
- OIL
 - OIL FIRED WARM AIR HEATER IN STATISTICAL BUILDING

AREA FOR PROGRAMMING GROSS AREA

GROSS AREA AS REQUIRED

THIS DRAWING SUPERSEDES DEFINITIVE DRAWING NO. AD 84-01-07
CATEGORY CODE NO. 179-471

REVISIONS	DESCRIPTION	DATE	APPROVAL
28	REVISED NOTES, TITLE AND 27' IN SECTION "X-X"	28 MAY 64	[Signature]

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

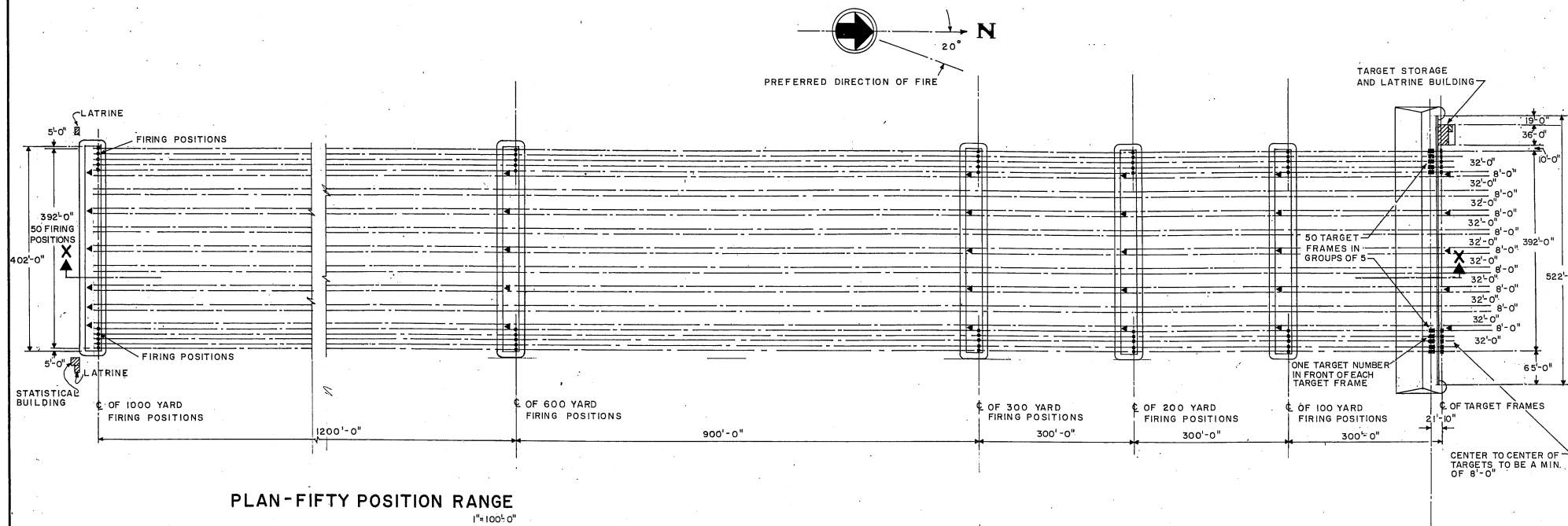
ALBERT GOENNER & ASSOCIATES
ARCHITECTS - ENGINEERS WASHINGTON, D. C.

SMALL ARMS SYSTEM RANGE
RIFLE
(100 POSITION)

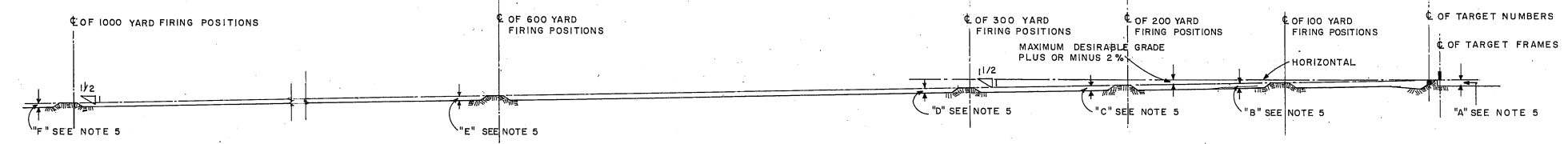
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FOR CHIEF OF STAFF, USAF

AD 84-01-07 R2

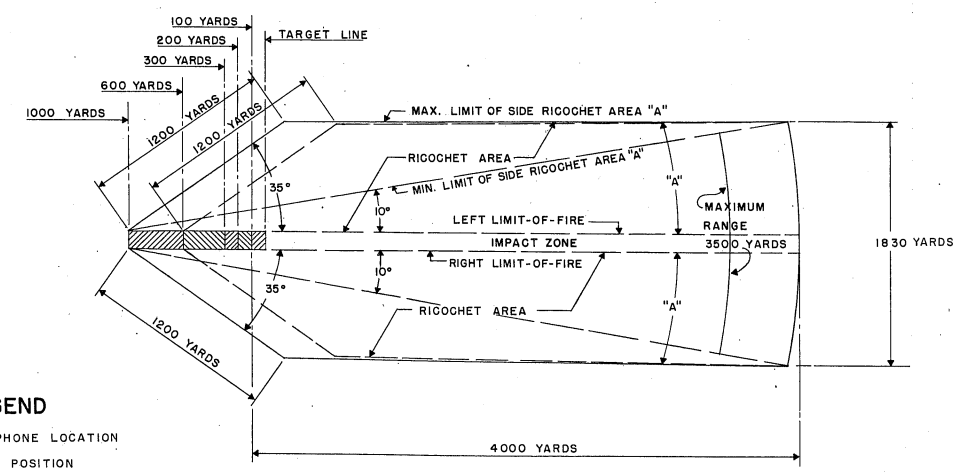
SCALE AS NOTED SHEET 1 OF 1
DATE 28 MAY 64



PLAN-FIFTY POSITION RANGE
1"=100'-0"



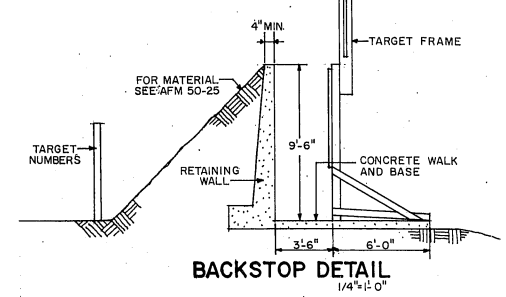
SECTION X-X
1"=100'



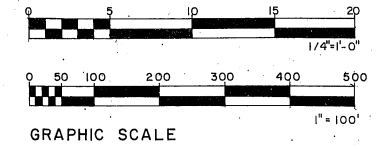
▲ DANGER AREA PLOT PLAN
NO SCALE
BASED ON CALIBER 30 SERVICE AMMUNITION, RICOCHET AREA AS SHOWN IS CONSIDERED ADEQUATE FOR SUBSTANTIALLY LEVEL OPEN DANGER AREAS.

AMMUNITION	DIMENSIONS IN YARDS		
	MAXIMUM RANGE	SAFETY FACTOR	LIMIT OF DANGER AREA
CALIBER .30 CARBINE	2200	300	2500
CALIBER 5.56 MM	2833	500	3333
CALIBER 7.62 MM	3500	500	4000
CALIBER 30.06	3500	500	4000

▲ THE MAXIMUM LIMIT OF SIDE RICOCHET AREA "A" IS DETERMINED BY MEASURING OUTWARD FROM A POINT AT THE END OF THE FIRING LINE AT AN ANGLE 35° BEYOND THE LIMIT-OF-FIRE LINE FOR A DISTANCE OF 1200 YARDS; AND THE MINIMUM LIMIT OF SIDE RICOCHET AREA "A" IS DETERMINED BY MEASURING OUTWARD 10° BEYOND THE LIMIT-OF-FIRE AT THE OUTER LIMIT OF THE DANGER AREA.



BACKSTOP DETAIL
1/4"=1'-0"



- LEGEND**
- ▲ TELEPHONE LOCATION
 - ⊕ FIRING POSITION
 - ▭ TARGET FRAME
 - TARGET NUMBER
 - ▨ STRUCTURES

- PROGRAMMING AND PLANNING GUIDES**
- THE BASE CIVIL ENGINEER HAVING SUPPORT RESPONSIBILITY WILL INSURE COMPLIANCE WITH THE PROVISIONS OF: AFM 50-25; CHAPTER 1, AND SEC. B., PARA. 1-8 OF AFM 85-1. A SMALL ARMS TRAINING BUILDING (T71-476) MAY BE REQUIRED. SEE AFM 86-4.
 - GOVERNMENT FURNISHED AND INSTALLED PUBLIC ADDRESS SYSTEM WILL BE ADEQUATE TO VERBALLY CONTROL FIRING.
 - DIMENSIONS "A", "B", "C", "D", "E" AND "F" WILL VARY WITH SITE CONDITIONS, BUT MUST BE PLANNED TO MINIMIZE GRADING.
 - WHEN 1,000 AND 600 YARD FIRING POSITIONS ARE NOT FEASIBLE, DUE TO UNSUITABLE TERRAIN, 500 YARD POSITIONS MAY BE SUBSTITUTED.
 - THE NUMBER OF FIRING POSITIONS ON THE 1,000 YARD LINE MAY BE REDUCED, AND IT MAY BE DESIRABLE TO MAKE SUCH A REDUCTION TO A FIGURE BELOW THE NUMBER OF FIRING POSITIONS BUILT ON THE OTHER FIRING LINES.
 - 100 YARD POSITIONS WILL NOT BE BUILT UNLESS THE PLANNED USE OF THIS RANGE WILL ALSO INCLUDE FIRING THE M16 RIFLE.
 - FOR CONSTRUCTION DETAILS OF TARGET BUTTS, REFER TO DAF TECHNICAL ORDER NO. TO 28-10-26, FIG. 38.
 - NO BAFFLES OR WALKS TO BE CONSTRUCTED ON THIS RANGE.

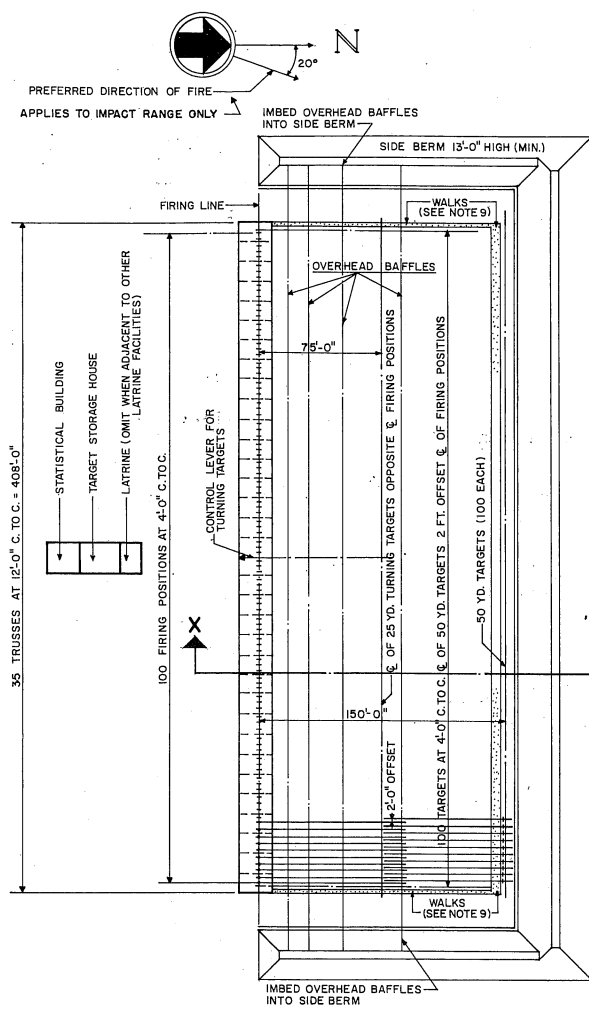
- UTILITY REQUIREMENTS**
- ELECTRICITY
 - WATER
 - SEWAGE
 - GAS
 - STEAM
 - TELEPHONE
- AS REQUIRED

HEATING REQUIREMENT
OIL
OIL FIRED WARM AIR HEATER IN STATISTICAL BUILDING

AREA FOR PROGRAMMING
GROSS AREA AS REQUIRED

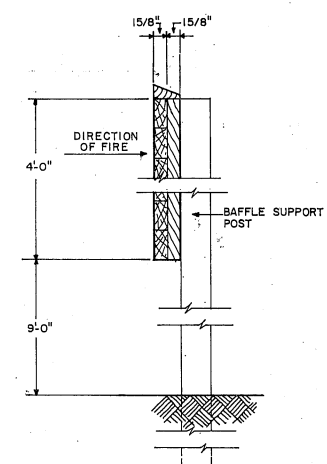
THIS DRAWING SUPERSEDES DEFINITIVE DRAWING NO. AD 84-06-04 & AD 84-01-08.
CATEGORY CODE NO. 177-472

REVISIONS	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE		
HEADQUARTERS UNITED STATES AIR FORCE		
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.		
SMALL ARMS SYSTEM RANGE HIGH POWER RIFLE (50 POSITION)		
APPROVED:	AD 84-01-08 R2	
FOR CHIEF OF STAFF, USAF	SCALE AS SHOWN	SHEET 1 OF 1
	DATE 28 MAY 64	

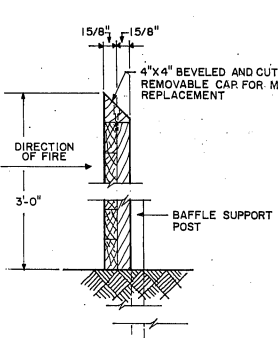


PLAN OF SAFETY RANGE
1"=40'-0"

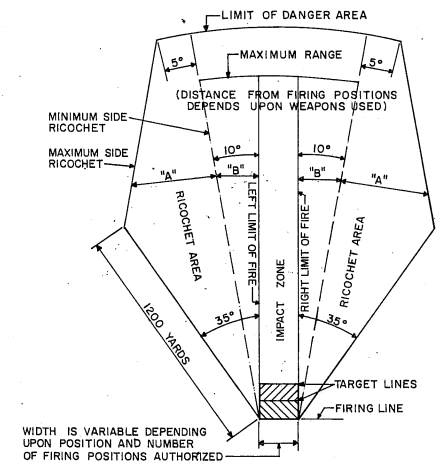
LEGEND
 ▲ TELEPHONE LOCATION
 + FIRING POSITION
 | TARGET FRAME & TARGET NO.



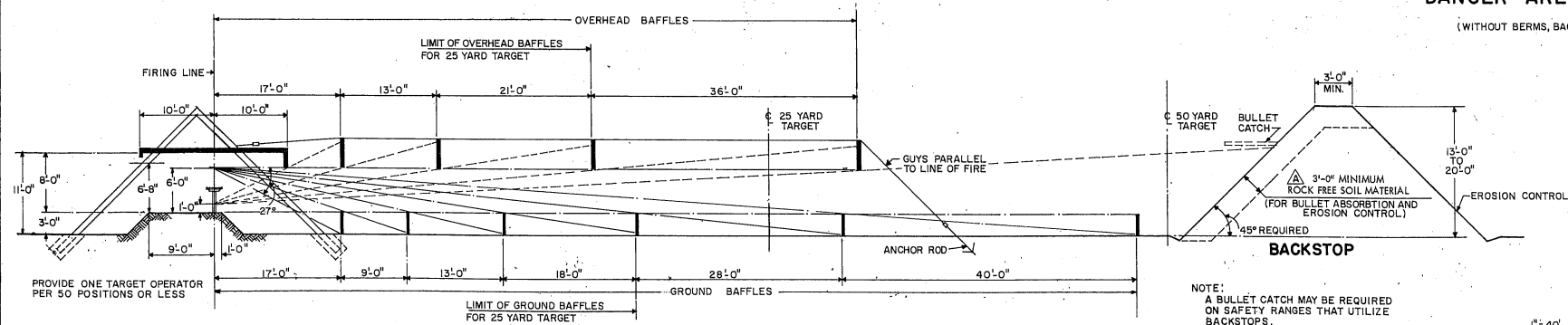
OVERHEAD BAFFLE DETAIL
1 1/2"=1'-0"



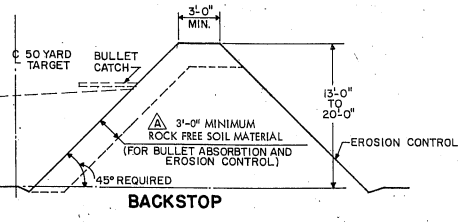
GROUND BAFFLE DETAIL
1 1/2"=1'-0"



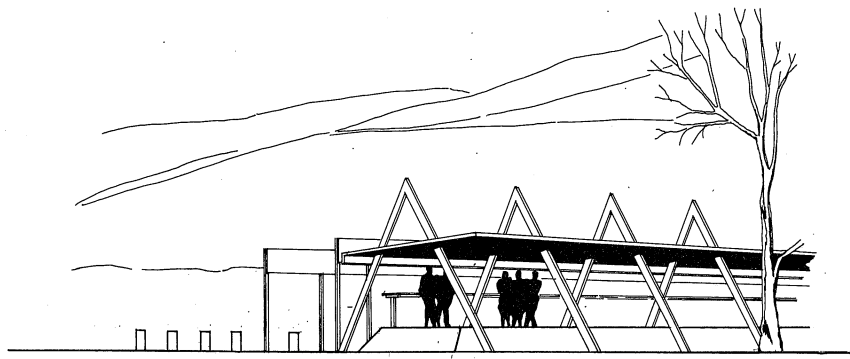
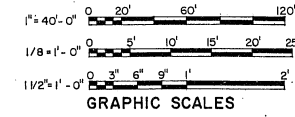
IMPACT RANGE DANGER AREA PLOT PLAN
(WITHOUT BERMS, BACKSTOP & BAFFLES)
NO SCALE



SECTION "X-X"
1 1/8"=1'-0"



NOTE:
A BULLET CATCH MAY BE REQUIRED ON SAFETY RANGES THAT UTILIZE BACKSTOPS.



PERSPECTIVE

AMMUNITION	DIMENSIONS IN YARDS		
	MAXIMUM RANGE	SAFETY FACTOR	LIMIT OF DANGER AREA
CALIBER .22 LONG RIFLE	1400	250	1650
CENTER FIRE PISTOL	1640	160	1800
CALIBER .45 PISTOL	1640	160	1800

1. MAXIMUM SIDE RICOCHET AREA "A" IS DETERMINED BY MEASURING OUTWARD FROM A POINT AT THE END OF FIRING LINE AT AN ANGLE 35° BEYOND THE LIMIT-OF-FIRE LINE FOR A DISTANCE OF 1200 YARDS; AND BY MEASURING OUTWARD 5° BEYOND THE MINIMUM SIDE RICOCHET AREA "B" AT THE OUTER LIMIT OF THE DANGER AREA.
 2. MINIMUM SIDE RICOCHET AREA "B" IS DETERMINED BY MEASURING OUTWARD FROM A POINT AT THE END OF THE FIRING LINE AT AN ANGLE OF 10° TO THE OUTER LIMIT OF THE DANGER AREA.

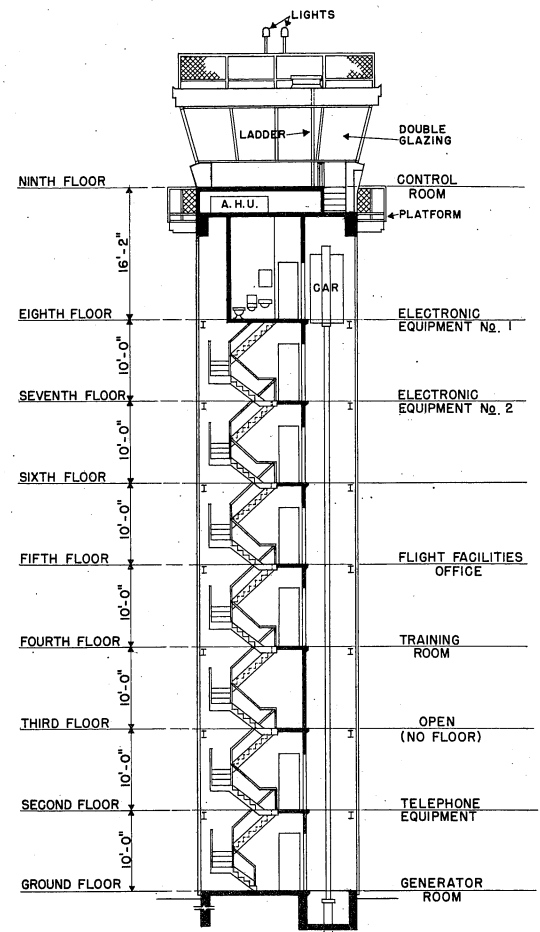
- PROGRAMMING AND PLANNING GUIDES**
- THE BASE CIVIL ENGINEER HAVING SUPPORT RESPONSIBILITY WILL INSURE COMPLIANCE WITH THE PROVISIONS OF: AFM 50-25, CHAPTER 1, AND SEC. 3, PARA. 1-9 OF AFM 85-1, A SMALL ARMS TRAINING BUILDING (171-476) MAY BE REQUIRED. SEE AFM 86-4.
 - GOVERNMENT FURNISHED AND INSTALLED PUBLIC ADDRESS SYSTEM WILL BE ADEQUATE TO VERBALLY CONTROL FIRING.
 - ROOF AND ROOF BAFFLES FORWARD OF THE FIRING LINE TO BE CONSTRUCTED THE SAME AS OVERHEAD BAFFLES. THAT PORTION OF THE ROOF BACK OF THE FIRING LINE MAY BE NORMAL ROOF CONSTRUCTION.
 - A 300 YARD DANGER AREA IS REQUIRED BEHIND BACKSTOP.
 - ANY USE OF THE DANGER AREA ON ANY SMALL ARMS RANGE WILL BE ON A STRICTLY CONTROLLED ACCESS BASIS.
 - TARGET TURNING DEVICES WILL BE PROVIDED AND INSTALLED BY THE AIR FORCE. (SEE AFM 50-25 ATCH. 9).
 - MATERIAL FOR FIRING SIDE OF ALL BAFFLES WILL BE MIDDLE GRADE LUMBER; PINE, OAK OR REDWOOD IS ACCEPTABLE. EXCEPTIONALLY HARD OR KNOTTY WOOD IS NOT PERMITTED. MATERIAL ON BACK SIDE OF BAFFLES MAY BE OF LOWER GRADE AND/OR HIGHER DENSITY.
 - TURFED WALKS WITH BASE CONSISTING OF NON-RICOCHET MATERIALS SUCH AS SAND OR MIXTURE OF SAND, CINDERS AND TOP SOIL ONLY WILL BE PERMITTED.

- UTILITY REQUIREMENTS**
- ELECTRICITY
 - WATER
 - SEWAGE
 - GAS
 - STEAM
 - TELEPHONE
- AS REQUIRED
- HEATING REQUIREMENT**
OIL
OIL FIRED WARM AIR HEATER IN STATISTICAL BUILDING

AREA FOR PROGRAMMING GROSS AREA
GROSS AREA AS REQUIRED

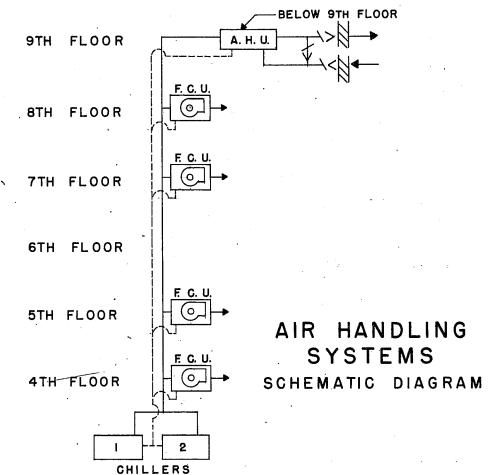
THIS DRAWING SUPERSEDES DEFINITIVE DRAWING NO AD 84-01-06
CATEGORY CODE NO. 179-473

REVISED NOTES AND TITLE	DATE	APPROVAL
DEPARTMENT OF THE AIR FORCE		
HEADQUARTERS UNITED STATES AIR FORCE		
ALBERT GOENNER & ASSOCIATES ARCHITECTS - ENGINEERS WASHINGTON, D. C.		
SMALL ARMS SYSTEM RANGE		
PISTOL (100 POSITION)		
APPROVED:	AD 84-06-06 R2	
<i>Arthur J. ...</i>		
SCALE AS NOTED	DATE 28 MAY 64	SHEET OF
FOR CHIEF OF STAFF, USAF		

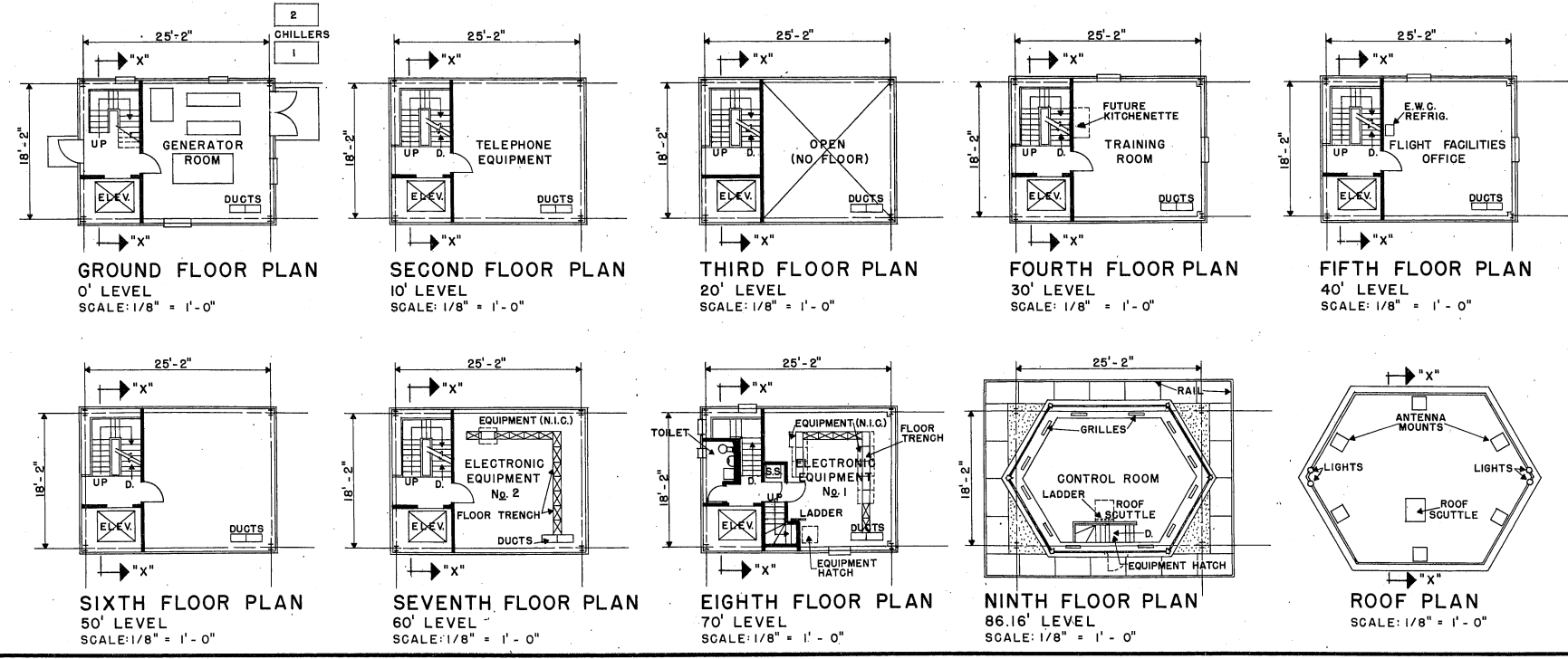


SECTION "X"-
SCALE: 1/8" = 1'-0"

- LEGEND**
- A.H.U. AIR HANDLING UNIT
 - D DOWN
 - ELEV. ELEVATOR
 - E.W.C. ELECTRIC WATER COOLER
 - F.C.U. FAN COIL UNIT
 - (N.I.C.) NOT IN CONTRACT
 - REFRIG. REFRIGERATOR
 - S.S. SERVICE SINK



NOTE: CAPACITY OF EACH CHILLER TO BE NO LESS THAN 60% OF DEMAND LOAD.



DESIGN GUIDES ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

ALL INTERIOR FINISHED ROOMS SHALL BE CO-ORDINATED WITH AND JUSTIFIED BY THE USING AGENCY DURING PROGRAMMING CYCLE.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

ELEVATOR DOORS WILL BE SLIDING TYPE ONLY.

CEILING OF CONTROL ROOM WILL BE PAINTED FLAT BLACK.

THE CAS GLASS SHALL BE 1/4" TINTED EXTERIOR HEAT ABSORBENT GLASS, 1/2" DEHYDRATED CAPTIVE AIR SPACE AND 1/4" INTERIOR CLEAR PLATE GLASS. IN SPECIFIC CASES WITH HQ USAF/FREE APPROVAL A LAMINATED HEAT ABSORBING GLASS WITH THE SAME LIGHT TRANSMISSION CHARACTERISTICS MAY BE USED.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

1. AIR DISTRIBUTION: REFERENCE AIR HANDLING SYSTEMS SCHEMATIC DIAGRAM. SEPARATE AIR HANDLING UNITS SERVE THE SENSITIVE CONTROL ROOM ELECTRONICS EQUIPMENT ROOM NO. 1 AND ELECTRONICS EQUIPMENT ROOM NO. 2. ROOM FAN-COIL UNITS SERVE THE ADMINISTRATIVE ROOMS. THIS CONCEPT PROVIDES MAXIMUM ECONOMY OF OPERATION AND IMPROVED SYSTEM RELIABILITY. WITH INDIVIDUAL ROOM YEAR-ROUND TEMPERATURE CONTROL. WINTER HUMIDIFICATION IS NOT REQUIRED.

2. CHILLER: TWO PACKAGE AIR-COOLED CHILLER UNITS ARE PROVIDED WITH INDIVIDUAL WATER PUMPS. CHILLERS SHALL BE CAPABLE OF OPERATING AT THE WINTER DESIGN TEMPERATURE (AN ABNORMAL OR EMERGENCY OPERATION). EACH CHILLER SHALL BE CAPABLE OF KEEPING THE SENSITIVE CONTROL ROOM, ELECTRONICS EQUIPMENT ROOM NO. 1 AND ELECTRONICS EQUIPMENT ROOM NO. 2 OPERATIONAL, BUT IN NO CASE WILL THE CHILLER CAPACITY BE LESS THAN 60% TOTAL DEMAND LOAD.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	15	160	175
ESTIMATED DEMAND	15	115	130
(ESTIMATED DEMAND FOR EMERGENCY LIGHTING & POWER IS 90 KW)			
WATER (PEAK FLOW) (GPM)			
HOT	5		
COLD	10		
TOTAL	15		
TOTAL (GPD)	780		
SEWAGE (GPD)	780		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/STU/HR = 250,000

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° D.B. & 78° W.B.
TONS OF REFRIGERATION = 20

AREA FOR PROGRAMMING GROSS AREA 4,192 SQ. FT.*

CONTROL ROOM FLOOR	524 SQ. FT.
ELECTRONIC EQUIPMENT NO. 1 FLOOR	524 SQ. FT.
ELECTRONIC EQUIPMENT NO. 2 FLOOR	524 SQ. FT.
SIXTH FLOOR	524 SQ. FT.
FLIGHT FACILITIES OFFICE FLOOR	524 SQ. FT.
TRAINING ROOM FLOOR	524 SQ. FT.
TELEPHONE EQUIPMENT FLOOR	524 SQ. FT.
GENERATOR ROOM FLOOR	524 SQ. FT.
TOTAL	4,192 SQ. FT.

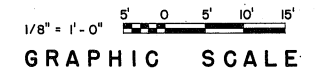
GROSS AREA INDICATED IS BASED ON STORIES SHOWN ON THIS DRAWING. WHEN AUTHORIZED TO OBTAIN RECEIVABLE SIGHT LINES, INTERMEDIATE STORIES MAY BE ADDED AND GROSS AREA INCREASED BY 524 SQ. FT., FOR EACH STORY ADDED.

* FLOOR MAY BE ELIMINATED IF THERE IS NO REQUIREMENT.

WORKING DRAWING

STANDARD WORKING DRAWINGS BASED ON THIS DEFINITIVE DESIGN ARE AVAILABLE IN THE FIELD. FOR LATEST INFORMATION IN THIS REGARD, CONTACT HQ-USAFAF/PRES.

ELEVATOR: MINIMUM DESIGN LOAD 1200 LBS.			
HEIGHT	RECOMMENDED SPEED	TYPE	REMARKS
TO 65 FT.	100 FPM	HYDRAULIC	MOST ECONOMICAL
60 TO 105 FT.	200 FPM	ELECTRIC	TOO HIGH FOR HYDRAULIC
100 FT. & OVER	250 FPM	ELECTRIC	



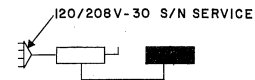
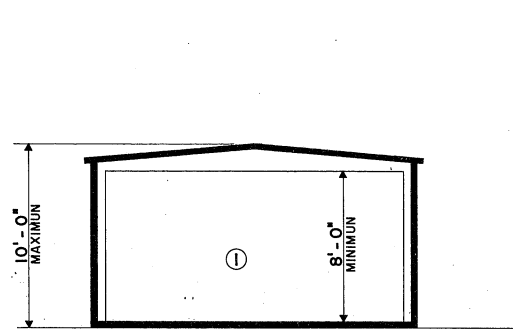
CATEGORY CODE NO. 149-962

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

USAF STANDARD CONTROL TOWER DESIGN PLAN & SECTION

APPROVED	AD 86-06-11
<i>Edwin B. Major</i>	SCALE: 1/8" = 1'-0"
FOR CHIEF OF STAFF USAF	DATE: 17 July 1974 SHEET OF

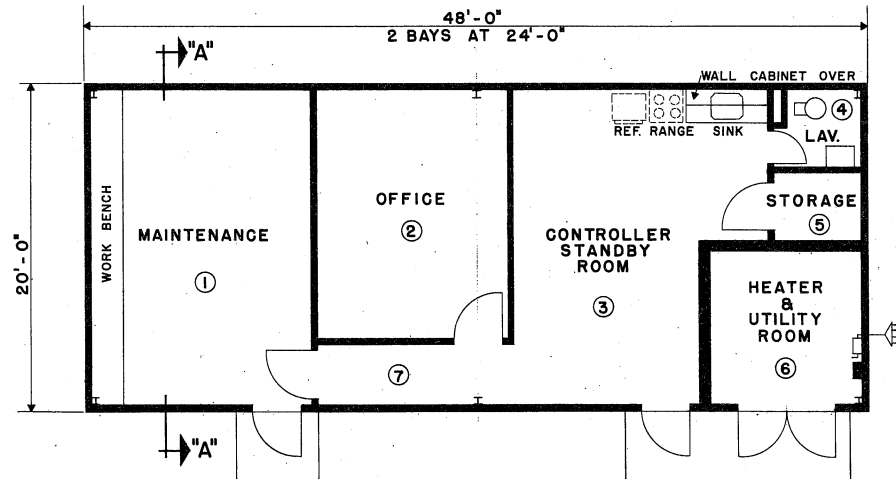


ELECTRICAL RISER DIAGRAM
NO SCALE

SECTION "A" - "A"
SCALE 1/4" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- LIGHTING & POWER
- INCOMING ELECTRICAL SERVICE



FLOOR PLAN
SCALE 1/4" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

BUILDING WILL BE PRE-ENGINEERED CONSTRUCTION. FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

1. BUILDING OCCUPANCY, 6 TO 10 PEOPLE, 24 HOURS/DAY.
2. OFFICE TO HAVE ACOUSTICAL CEILING.
3. PROVIDE WINDOWS IN MAINTENANCE AREA, OFFICE, STANDBY ROOM AND LAVATORY.
4. ELECTRICAL OUTLETS IN MAINTENANCE AREA TO BE AS SPECIFIED AND LOCATED BY USING SERVICE.
5. SITING WILL NORMALLY REQUIRE WAIVER OF AIRFIELD CLEARANCE CRITERIA.
6. ELECTRIC RANGE AND REFRIGERATOR TO BE FURNISHED AND INSTALLED BY USING SERVICE.
7. BUILDING TO BE LOW PROFILE. MAXIMUM HEIGHT OF BUILDING TO BE 10'-0". MINIMUM FINISHED CEILING HEIGHT TO BE 8'-0".

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	2.5	12	14.5
DEMAND LOAD	2.5	6	8.5

WATER: FROM LOCAL SOURCE OR PROVIDE A 1000 GALLON POTABLE WATER TANK WITH PRESSURIZING PUMP. PROVIDE A 30 GALLON ELECTRIC WATER HEATER.

SEWAGE: TO LOCAL BASE SEWER LINE OR PROVIDE SEPTIC TANK, WITH DISTRIBUTION BOX AND DRAIN FIELD, SIZE AS REQUIRED.

GAS: NONE

HEATING: OUTSIDE DESIGN TEMPERATURE 0°F
M/STU/HR = 510

AIR CONDITIONING:
OUTSIDE DESIGN TEMPERATURE 95° D8/78° W8
TONS OF REFRIGERATION = 3

AREA FOR PROGRAMMING GROSS AREA
960 SQ. FT.

ROOM SCHEDULE			
NO.	ROOM	DIMENSION	NET AREA SQ. FT.
1	MAINTENANCE	13'-6" x 19'-0"	257
2	OFFICE	11'-6" x 15'-0"	173
3	CONTROLLER STANDBY ROOM	13'-6" x 19'-0"	257
4	LAVATORY	4'-6" x 4'-6"	21
5	STORAGE	5'-6" x 4'-0"	22
6	HEATER & UTILITY ROOM	9'-0" x 9'-6"	86
7	CORRIDOR	12'-0" x 3'-6"	42

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

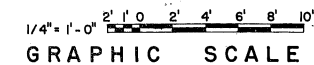
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 134 - 375

LEGEND

- LAV. LAVATORY
- REF. REFRIGERATOR

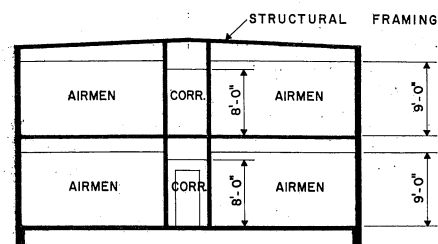


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

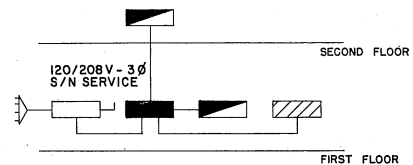
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

**AIR NAVIGATIONAL AID
GCA / RAPCON
SUPPORT BUILDING**

APPROVED: *Richard B. Kent USAF* **AD 86-16-25**
SCALE: 1/4" = 1'-0" DATE: 16 March 73 SHEET 1 OF 1



SECTION "A" - "A"
SCALE 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE

LEGEND

- ENTRY
- E.W.C.
- S.S.
- J.C.
- DN
- STOR.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

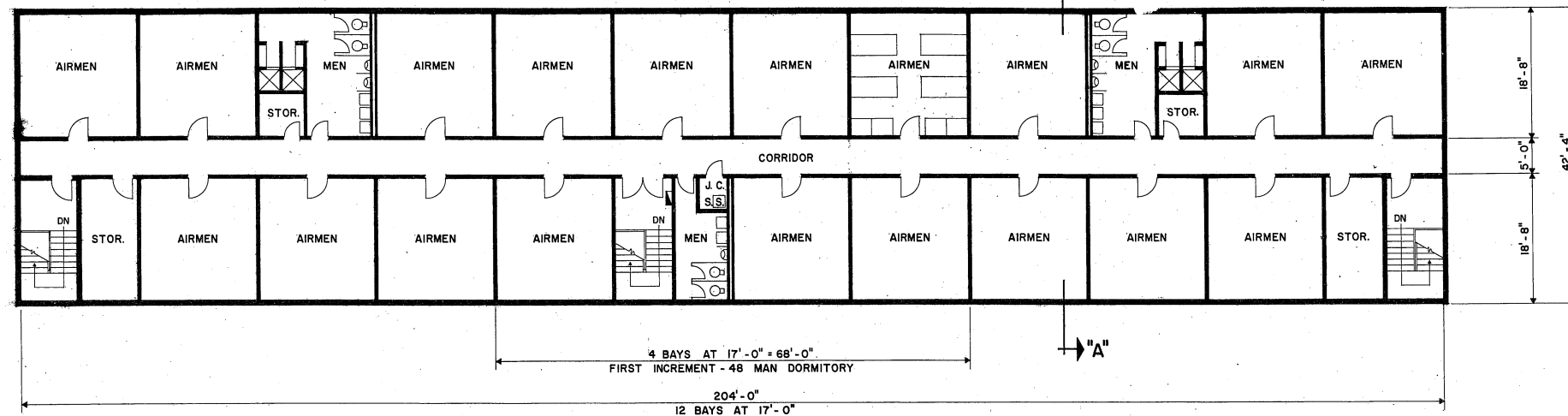
MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

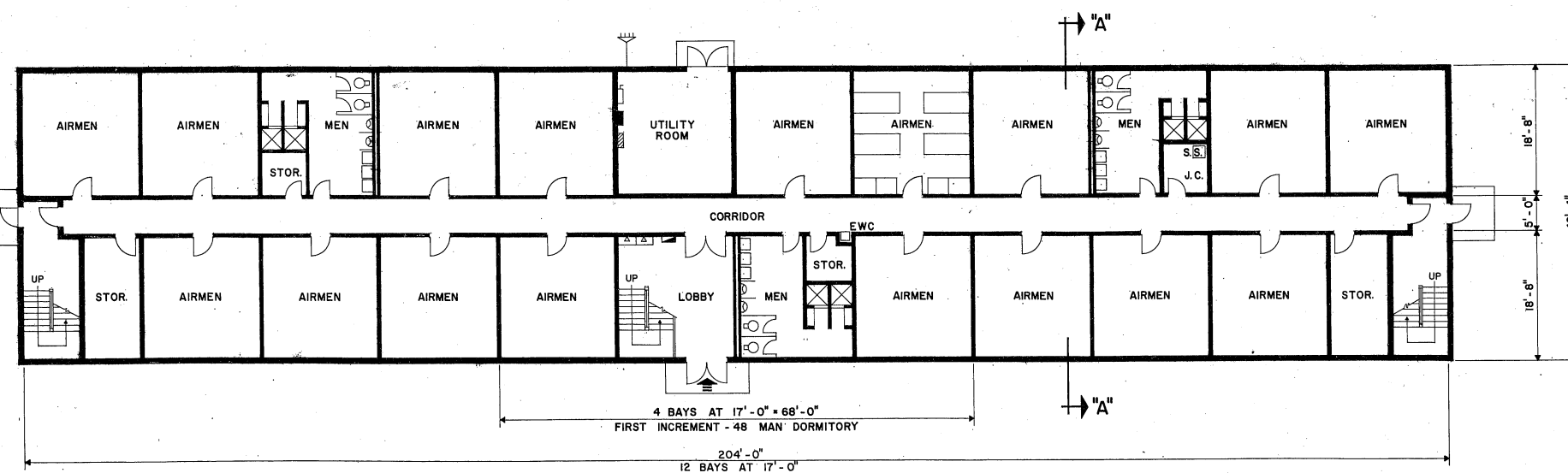
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

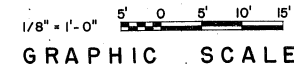
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	34.4	75.8	100.2
ESTIMATED DEMAND	25.8	69.4	95.2

WATER (GPM)	48 PEOPLE	144 PEOPLE
HOT	34	34
COLD	100	100
TOTAL	105	105

TOTAL (GPD)	7,200	21,600
SEWAGE (GPD)	4,800	14,400

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/STU/HR = 720.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. DB & 75° F. WB
TONS OF REFRIGERATION 50

AREA FOR PROGRAMMING GROSS AREA

FIRST FLOOR	8,635 SQ. FT.
SECOND FLOOR	8,635 SQ. FT.
TOTAL	17,270 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. MATERIAL STORAGE AND SHOP BUILDINGS WILL HAVE AUTOMATIC SPRINKLER, CLOSED HEAD SYSTEMS.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

CATEGORY CODE NO. 722-211

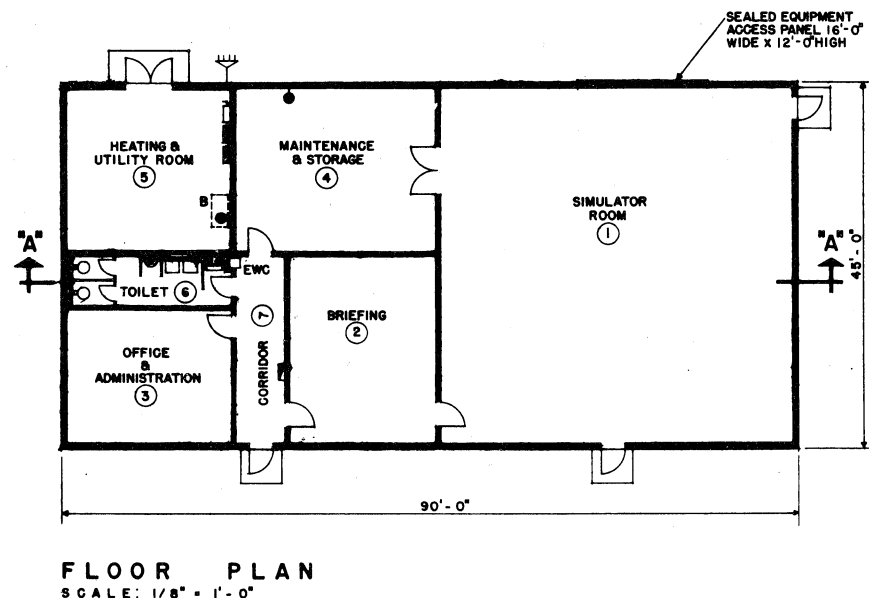
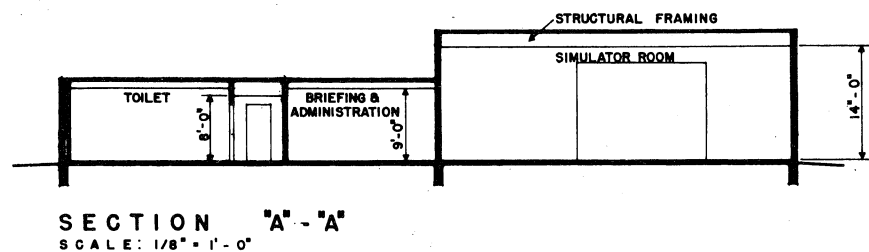
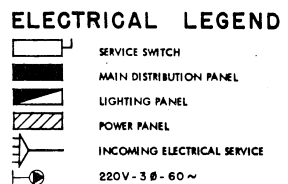
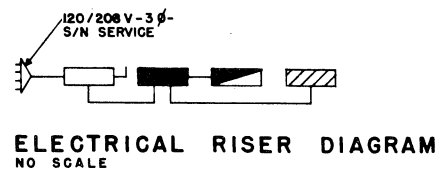
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AIRMEN'S DORMITORY
(48-144 MEN)
PLANS & SECTION

APPROVED <i>George P. Peadar</i>	AD 21-01-162
FOR CHIEF OF STAFF USAF	SCALE: AS NOTED DATE: 6 Nov. 1974
	SHEET 1 OF 1



DESIGN GUIDES

ARCHITECTURAL

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CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1 "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

(SIMULATOR-AIR CONDITIONING)
FLIGHT SIMULATORS WILL BE INSTALLED IN AIR CONDITIONED SPACES IN WEATHER ZONES A AND B AND IN MECHANICALLY VENTILATED SPACES IN ZONE C AND D, AS OUTLINED IN AFR 91-4. AIR CONDITIONING EQUIPMENT WILL BE SIZED TO HANDLE THE ENTIRE SIMULATOR AREA. AIR CONDITIONING REQUIREMENTS TO MAINTAIN 80° F AT 50% RELATIVE HUMIDITY WITH OUTSIDE DESIGN TEMPERATURES USED IN APPLICABLE WEATHER ZONES.

COOLED ROOM AIR WILL BE CIRCULATED THROUGH THE SIMULATOR AND COMPUTER CABINETS, AND DISCHARGE IN THE ROOM.

FLIGHT SIMULATORS INSTALLED IN ZONES C AND D WITH MECHANICAL VENTILATION WILL BE PROVIDED WITH INTAKE AND EXHAUST DUCTS FROM THE SIMULATORS AND COMPUTER CABINETS TO THE OUTSIDE TO PREVENT OVERHEATING OF THE ROOM IN WARM WEATHER. DUCTS WILL BE PROVIDED WITH AUTOMATICALLY OPERATED DAMPERS FOR THE DISCHARGE OF THE HEAT INTO THE ROOM DURING COOL WEATHER.

ALL VENTILATION AIR MUST BE FILTERED.
MAXIMUM AMBIENT COMPUTER CABINET TEMPERATURE NOT TO EXCEED 100°F.

AIR AND WATER CONNECTIONS FOR INTERNAL SIMULATOR AIR CONDITIONING TO BE PROVIDED TO TRANSMIT WASTE HEAT OUT OF THE SIMULATOR ROOM.

THE VENTILATION REQUIREMENTS SHOULD BE VERIFIED WITH SIMULATOR MANUFACTURER'S CURRENT DATA AND SPECIFICATIONS.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES

REMOVABLE PANEL IN REAR WALL OF SIMULATOR ROOMS TO BE 16'-0" WIDE BY 12'-0" HIGH.

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING	POWER
CONNECTED LOAD	20.25		25.10
ESTIMATED DEMAND		13.15	22.25
WATER (GPM)			
HOT		2	
COLD		30	
TOTAL		30	
TOTAL (GPD)		1,280	
SEWAGE (GPD)		200	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/NTU/HR 151

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB - 78° WB
TONS OF REFRIGERATION 14.4

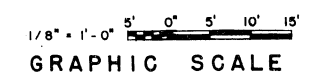
AREA FOR PROGRAMMING GROSS AREA

BUILDING 4,050 SQ. FT.

* NOTE: AIR CONDITIONING REQUIREMENTS TO BE ADJUSTED AS THE NEEDS OF EACH SIMULATOR CHANGE.

ROOM SCHEDULE

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	44'-0" x 45'-0"	1,980
2	18'-6" x 24'-0"	444
3	21'-0" x 17'-6"	368
4	25'-0" x 21'-0"	525
5	21'-0" x 21'-0"	441
6	21'-0" x 6'-6"	136
7	6'-6" WIDE	156
TOTAL		4,050

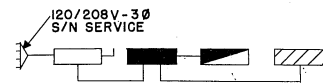


CATEGORY CODE NO. 171-212

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

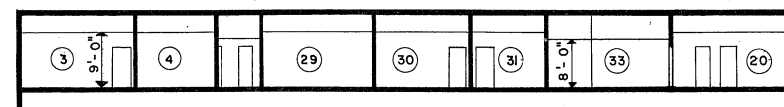
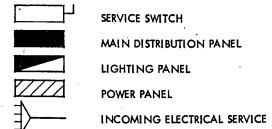
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
FLIGHT SIMULATOR FACILITY
FLOOR PLAN & SECTION

APPROVED: *Daniel B. Spector*
FOR CHIEF OF STAFF USAF
AD 28-13-113
SCALE AS SHOWN SHEET 1 OF 1
DATE 10 MARCH 1972

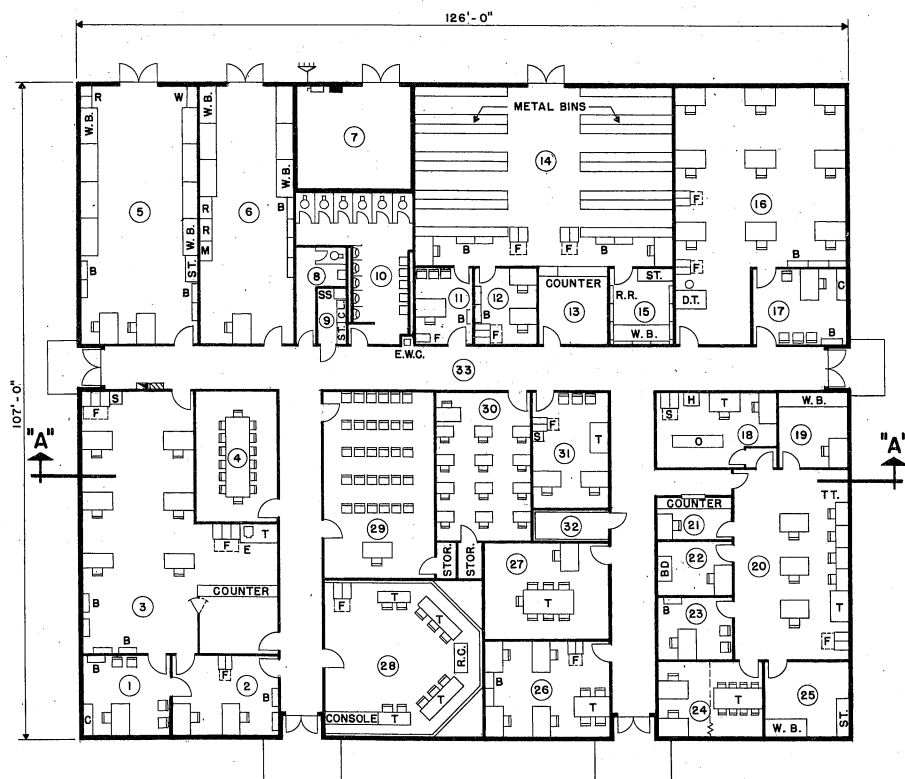


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE 3/32" = 1'-0"

LEGEND

B	PUBLICATIONS BOOKCASE
BD	SWITCHBOARD
C	CRENZENZA
CL.	BROOM & MOP CLOSET
D.T.	DRAFTING TABLE
E	DUPLICATING MACHINE
F	FILE
H	PAPER SHREDDER
M	MOCK-UP RACK
O	ON-LINE CRYPTO EQUIPMENT
R	TOOL BOX RACK
R.C.	RADIO CONSOLE
R,R.	RIFLE & PISTOL RACKS
S	SAFE
S.S.	SERVICE SINK
ST.	STORAGE CABINET
STOR.	STORAGE
T	TABLE
TT.	TELETYPE MACHINE
W	WIRE BIN
W.B.	WORK BENCH

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		45.0	69.2	55.3	169.5
ESTIMATED DEMAND		45.0	65.8	49.8	160.6
WATER (GPM)					
HOT				7	
COLD				67	
TOTAL				70	
TOTAL (GPD)	16,500				
SEWAGE (GPD)	11,000				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 590.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING

GROSS AREA **13,482 SQ. FT.**

ROOM SCHEDULE

RM. NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ.FT.
1	SQUADRON COMMANDER'S OFFICE	14'-0" x 14'-0"	196
2	SQUADRON ADMINISTRATION OFFICER	17'-6" x 14'-0"	245
3	SQUADRON ADMINISTRATION/PERSONNEL	31'-6" x 33'-2"	1,044
4	CONFERENCE ROOM	13'-6" x 21'-0"	284
5	GROUND RADIO/RADAR/FLIGHT FACILITIES MAINTENANCE	19'-0" x 42'-6"	808
6	RADIO RELAY/TELEPHONE MAINTENANCE	15'-10" x 42'-6"	673
7	MECHANICAL ROOM	19'-2" x 17'-6"	335
8	WOMEN'S LATRINE	---	99
9	STORAGE AND JANITOR'S CLOSET	5'-0" x 9'-0"	45
10	MEN'S LATRINE	---	329
11	SQUADRON SUPPLY OFFICER	9'-10" x 12'-8"	124
12	SQUADRON SUPPLY ADMINISTRATION OFFICER	10'-4" x 12'-8"	131
13	ISSUE ROOM	11'-8" x 12'-8"	148
14	SQUADRON UNIT SUPPLY	42'-6" x 29'-10"	1,268
15	ARMS STORAGE ROOM/ARMAMENT MAINTENANCE	10'-6" x 12'-8"	133
16	SQUADRON MAINTENANCE MANAGEMENT	---	1,088
17	SQUADRON MAINTENANCE OFFICER	16'-8" x 13'-0"	217
18	CRYPTO ROOM	20'-0" x 12'-8"	253
19	CRYPTO MAINTENANCE	12'-8" x 12'-8"	160
20	COMMUNICATION CENTER	20'-0" x 31'-4"	627
21	MESSAGE CENTER	12'-8" x 7'-0"	87
22	SWITCHBOARD ROOM	12'-8" x 9'-2"	116
23	COMMUNICATION OFFICER	12'-8" x 10'-8"	135
24	RADIO OPERATIONS/CLASSROOM	17'-4" x 13'-0"	225
25	TELETYPE MAINTENANCE	15'-4" x 13'-0"	199
26	SQUADRON AIR TRAFFIC CONTROL OFFICER	20'-8" x 16'-4"	337
27	AIR TRAFFIC CONTROL SIMULATOR ROOM	20'-8" x 16'-0"	331
28	NEMO/WLC/CP	26'-2" x 26'-4"	689
29	CLASSROOM	18'-4" x 32'-2"	588
30	TESTING ROOM	14'-2" x 25'-8"	414
31	AIR FORCE ADVISOR (SQUADRON)	12'-8" x 19'-4"	245
32	FRAME ROOM	12'-8" x 5'-4"	67
33	CORRIDORS	7'-6" WIDE	1,842
	TOTAL		13,482

DESIGN GUIDES

ARCHITECTURAL

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CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

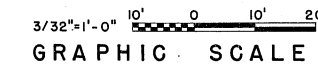
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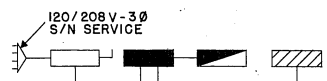
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING
FACILITY FOR MOBILE COMMUNICATIONS
SQUADRON (BARE BASE)

PLAN B SECTION

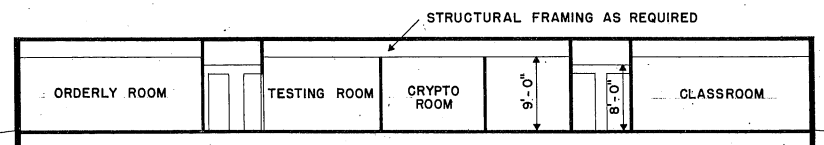
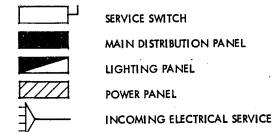
APPROVED *George Z. Potholp*
FOR CHIEF OF STAFF USAF
AD 28-13-116
SCALE: 3/32" = 1'-0"
DATE: 6 NOV 1974
SHEET 1 OF 1



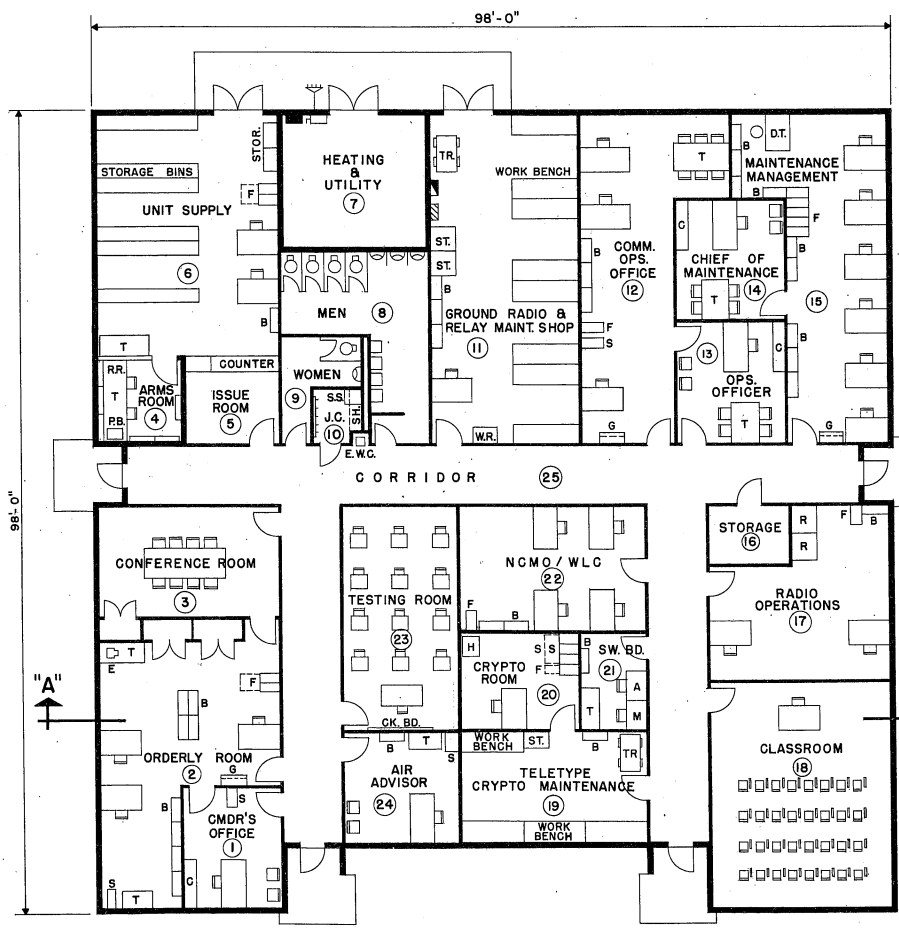


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



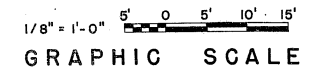
SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	12'-6" x 15'-6"	194
2	23'-0" x 27'-6"	633
3	23'-0" x 14'-0"	322
4	11'-0" x 10'-9"	119
5	12'-0" x 10'-9"	129
6	23'-0" x 30'-3"	696
7	18'-0" x 17'-0"	306
8	12'-6" x 24'-0"	296
9	7'-0" x 13'-6"	94
10	6'-0" x 7'-0"	42
11	18'-6" x 41'-0"	758
12	14'-0" x 41'-0"	574
13	13'-6" x 15'-0"	203
14	13'-6" x 15'-0"	203
15	15'-0" x 41'-0"	615
16	10'-6" x 7'-6"	79
17	21'-9" x 19'-5"	424
18	23'-0" x 28'-3"	650
19	23'-6" x 14'-3"	335
20	15'-9" x 12'-0"	189
21	10'-9" x 8'-0"	86
22	23'-6" x 15'-0"	370
23	14'-6" x 27'-9"	402
24	14'-6" x 14'-3"	207
25	7'-0" WIDE	1,274
TOTAL		9,200

LEGEND	
A	F-80 AUTOMATIC SWITCHBOARD OR EQUIVALENT
B	PUBLICATIONS BOOKCASE
C	CREDENZA
CK. BD.	CHALK BOARD
COMM.	COMMUNICATIONS
CMDR.	COMMANDER
D. T.	DRAFTING TABLE
E	DUPICATING MACHINE
E. W. C.	ELECTRIC WATER COOLER
F	FILE
G	COAT RACK
H	SHREDDER
M	SB-86 MANUAL SWITCHBOARD
MAINT.	MAINTENANCE
OPS.	OPERATIONS
P. B.	PISTOL BOX
R.	KWM-2A RADIO
R. R.	RIFLE RACK
S	FILE SAFE
SH.	SHELF
S.S.	SERVICE SINK
ST.	BENCH STOCK CABINET
STOR.	METAL STORAGE CABINET
SW. BD.	SWITCHBOARD
T	TABLE
TR.	EQUIPMENT TRUCK
W. R.	WIRE RACK



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		35.0	46.0	37.0	118.0
ESTIMATED DEMAND		35.0	39.7	33.3	108.0
WATER (GPM)					
HOT		6			
COLD		61			
TOTAL		64			
TOTAL (GPD)	13,500				
SEWAGE (GPD)	9,000				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 450.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 35

AREA FOR PROGRAMMING GROSS AREA

9,200 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

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PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

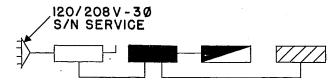
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-447

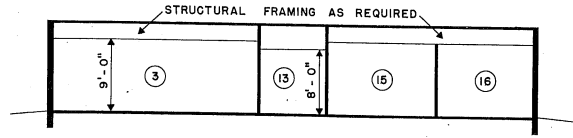
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
COMMUNICATIONS / ELECTRONICS TRAINING			
FACILITY FOR			
MOBILE COMMUNICATIONS FLIGHT			
PLAN & SECTION			

APPROVED: *George J. Portland*
FOR CHIEF OF STAFF USAF
DATE: 6 Nov 1974

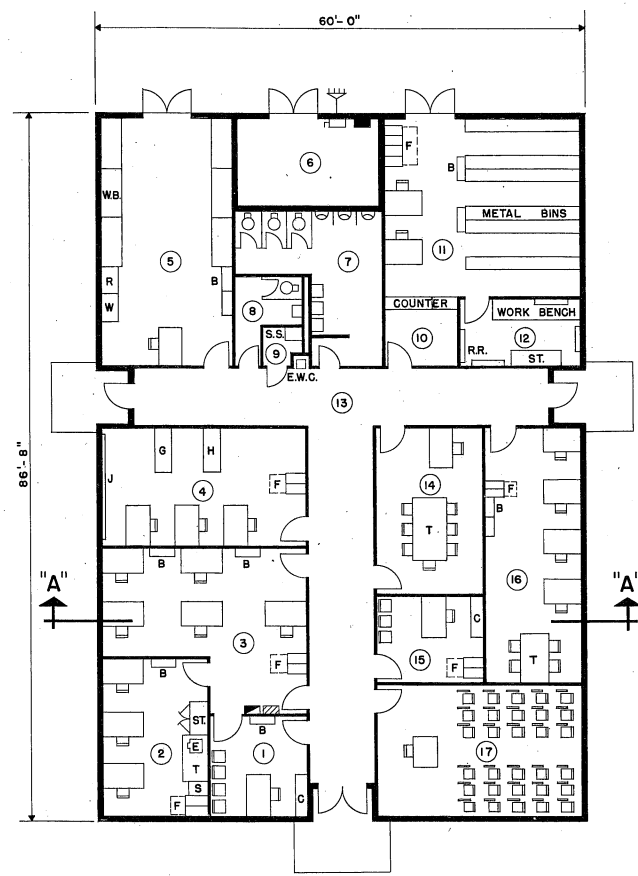
AD 28-13-117
SCALE: 1/8" = 1'-0"
SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CREDENZA
- E DUPLICATING MACHINE
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINET
- G CONSOLE
- H RADIO CONSOLE
- J BUILT-IN WALL CHARTS
- R TOOL BOX RACK
- R.R. RIFLE & PISTOL RACKS
- S SAFE
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE
- W WIRE BIN
- W.B. WORK BENCH

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	20.0	26.0	21.0	67.0
ESTIMATED DEMAND	20.0	24.6	18.9	63.5
WATER (GPM)				
HOT	5			
COLD	54			
TOTAL	57			
TOTAL (GPD)	6,750			
SEWAGE (GPD)	4,500			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 270.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 20

AREA FOR PROGRAMMING GROSS AREA

5,200 SQ. FT.

ROOM SCHEDULE			
RM. NO.	TITLE	DIMENSIONS	GROSS AREA, SQ. FT.
1	FLIGHT COMMANDER'S OFFICE	12'-3" x 13'-0"	159
2	FLIGHT ADMINISTRATION/PERSONNEL	13'-9" x 20'-0"	275
3	FLIGHT MAINTENANCE MANAGEMENT	---	438
4	NAVIGATIONAL AID/COMMUNICATIONS MANAGEMENT	26'-0" x 14'-9"	383
5	GROUND RADIO/RADAR/FLIGHT FACILITIES MAINTENANCE	17'-0" x 31'-4"	532
6	HEATER & UTILITY ROOM	18'-0" x 11'-9"	210
7	MEN'S LATRINE	---	248
8	WOMEN'S LATRINE	---	87
9	STORAGE & JANITOR'S CLOSET	5'-6" x 5'-0"	27
10	ISSUE ROOM	9'-6" x 8'-6"	80
11	FLIGHT UNIT SUPPLY	25'-0" x 22'-10"	570
12	ARMS STORAGE ROOM ARMAMENT MAINTENANCE	15'-6" x 8'-6"	131
13	CORRIDORS	---	806
14	AIR TRAFFIC CONTROL SIMULATOR ROOM	13'-6" x 20'-8"	278
15	AIR FORCE ADVISOR	13'-6" x 10'-8"	143
16	FLIGHT AIR TRAFFIC CONTROL OFFICE	12'-6" x 31'-4"	391
17	TESTING & CLASSROOM	26'-0" x 17'-0"	442
	TOTAL		5,200

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

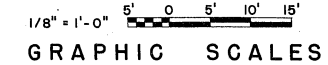
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

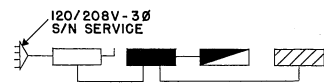
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS ELECTRONICS TRAINING
FACILITY FOR FLIGHT FACILITIES FLIGHT
PLAN & SECTION

APPROVED *George Z. Burdell*
FOR CHIEF OF STAFF USAF
AD 28-13-118
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974
SHEET 1 OF 1

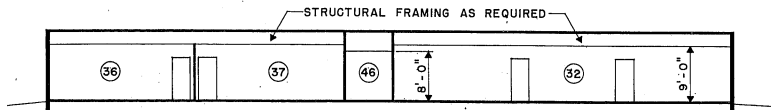




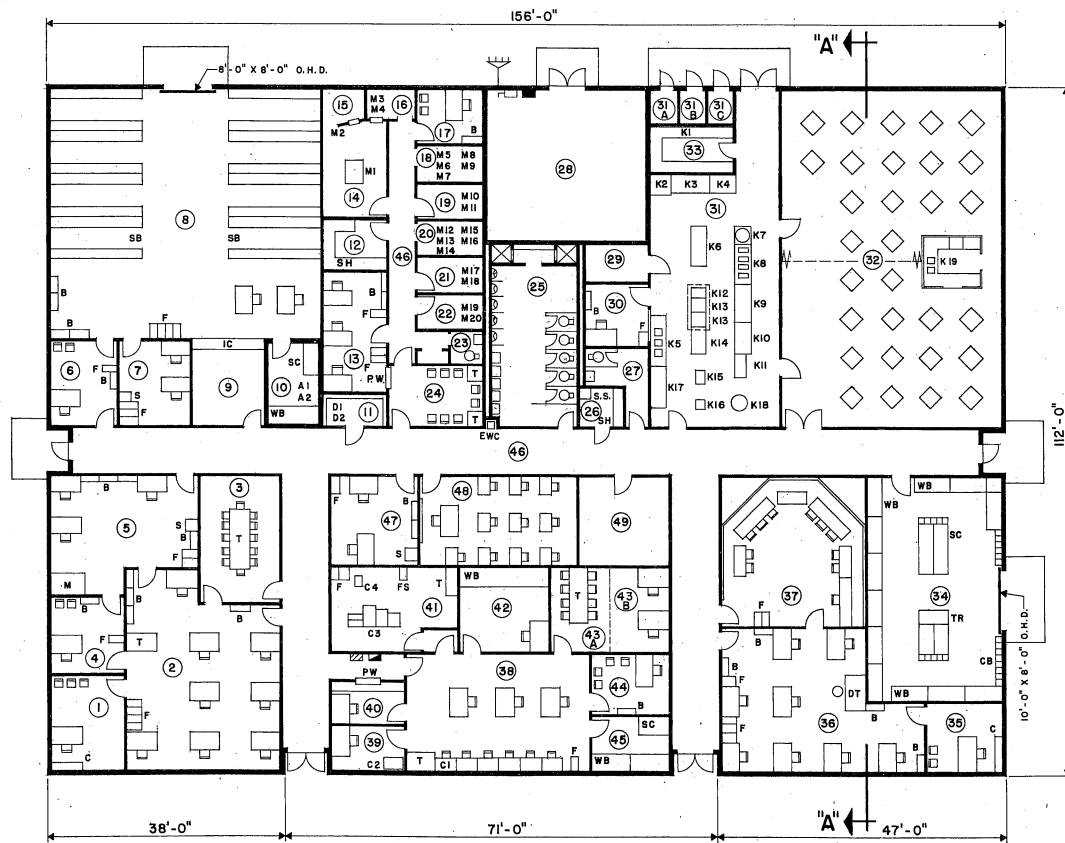
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65	69.9	87.3	222.2
ESTIMATED DEMAND	65	66.3	78.5	209.8
WATER (GPM)				
HOT	24			
COLD	76			
TOTAL	80			
TOTAL (GPD)	21,600			
SEWAGE (GPD)	14,400			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/STU/HR = 780.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA

17,472 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

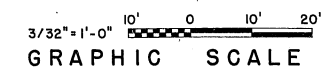
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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-447

LEGEND

- B PUBLICATIONS BOOKCASE
- C CREDEENZA
- CB CUBICLES
- D.T. DRAFTING TABLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINET
- F.S. FILE CABINET SAFE
- I.C. ISSUE COUNTER
- M MAP CASE
- O.H.D. OVERHEAD DOOR
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BIN
- S.C. STORAGE CABINET
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
COMMUNICATIONS / ELECTRONICS TRAINING			
FACILITY FOR			
MOBILE COMMUNICATIONS SQUADRON (CONTINGENCY)			
PLAN & SECTION			
APPROVED	AD 28-13-119		
<i>Henry J. Pothoff</i>	SCALE: 3/32" = 1'-0"		
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974	SHEET 1 OF 2	

SPECIAL EQUIPMENT SCHEDULE

ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.
KITCHEN & DINING	K-1	SHELVING	1	
	K-2	ICE MACHINE	1	4110-837-6441
	K-3	REFRIGERATOR	1	
	K-4	BREAD BOX	1	7320-776-3260
	K-5	3 BAY SINK	1	CONTRACT ITEM
	K-6	WORK TABLE (LARGE)	1	7320-205-1393
	K-7	COFFEE URN	1	7310-242-8412
	K-8	STEAM TABLE	1	7310-271-1619
	K-9	WORK TABLE	1	7320-269-9231
	K-10	TRAY & UTENSIL TABLE	1	7105-281-8617
	K-11	COOLER	1	4110-266-9291
	K-12	DEEP FAT FRYER	1	7310-809-9390
	K-13	RANGE	2	7310-282-6626
	K-14	BAKING OVEN	1	7310-273-1880
	K-15	MIXING MACHINE	1	7320-205-2778
	K-16	PEELER	1	7320-343-2196
	K-17	RACKS	1	
	K-18	STEAM KETTLE	1	7310-616-0056
	K-19	DISHWASHER	1	7320-271-1623
MEDICAL CENTER	M-1	X-RAY MACHINE	1	6525-684-8745
	M-2	X-RAY SCREEN	1	6525-612-8025
	M-3	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400
	M-4	X-RAY FILM DRYER	1	6525-664-0858
	M-5	EXAMINATION TABLE	1	6530-709-3000
	M-6	EXAMINATION CHAIR	1	6530-704-6010
	M-7	INFRA-RED LAMP	1	
	M-8	MEDICINE CASE, GLASS	1	
	M-9	LAVATORY	1	
	M-10	AUDIOMETER MACHINE	1	6515-782-2546
	M-11	AUDIOMETER BOOTH (5' x 5')	1	6515-065-9600
	M-12	SEROLOGICAL & RACK WATER BATH	1	6640-403-0460
	M-13	CENTRIFUGE	1	
	M-14	SHAKING MACHINE	1	6640-438-9600
	M-15	SINK & WORK TOP	1	
	M-16	MEDICINE CABINET	1	
	M-17	EYE EXAMINATION MACHINE COLOR	1	6515-388-3700
	M-18	EYE EXAMINATION MACHINE VISION	1	6515-299-8048
	M-19	EKG MACHINE	1	6515-085-3041
	M-20	COT (2'-6" x 6'-0")	1	
ARMAMENT STORAGE	A-1	RIFLE STORAGE RACK	9	
	A-2	PISTOL STORAGE RACK	2	
COMMUNICATIONS	C-1	TELETYPE MACHINES	4	
	C-2	SWITCHBOARD	1	
	C-3	ON LINE CRYPTO EQUIPMENT	1	
	C-4	PAPER CHREDDER	1	
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	2	
	D-2	1A1 TELEPHONE CABINET	1	
RADAR SIMULATOR	R-1	RADAR SIGNAL SIMULATOR CONSOLE CA-2736/GPS-T4	3	
	R-2	INDICATOR AZIMUTH & RANGE IP-207/LPA-35	2	
	R-3	VOLTAGE REGULATOR	3	
	R-4	RADAR SIGNAL SIMULATOR SM-356-6LA18 & POWER SUPPLY	1	
	R-5	RADAR SIGNAL SIMULATOR AN/GPS-T4	1	
	R-6	RADAR SIGNAL SIMULATOR	1	
	R-7	RADAR SIGNAL SIMULATOR	1	

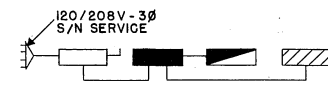
ROOM SCHEDULE

ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ. FT.
1	SQUADRON COMMANDER (CONTINGENCY)	16'-0" x 13'-0"	208
2	ADMINISTRATION OFFICE		766
3	CONFERENCE ROOM	21'-0" x 13'-0"	273
4	COMMUNICATIONS/ELECTRONICS OPERATIONS OFFICER	13'-0" x 13'-0"	169
5	COMMUNICATIONS/ELECTRONICS ADMINISTRATION OFFICE		446
6	SQUADRON SUPPLY OFFICER (CONTINGENCY)	14'-0" x 11'-6"	161
7	SUPPLY ADMINISTRATION OFFICE (CONTINGENCY)	14'-0" x 12'-0"	168
8	SQUADRON UNITY SUPPLY (CONTINGENCY)	45'-0" x 41'-0"	1,845
9	ISSUE ROOM	14'-0" x 12'-6"	175
10	ARMAMENT STORAGE VAULT/ARMAMENT MAINTENANCE	14'-0" x 9'-0"	126
11	FRAME ROOM	11'-0" x 5'-6"	61
12	MEDICAL SUPPLY STORAGE	11'-0" x 8'-6"	93
13	MEDICAL ADMINISTRATION	20'-0" x 11'-0"	220
14	X-RAY ROOM	16'-0" x 11'-0"	176
15	X-RAY CONTROL	7'-0" x 5'-0"	35
16	DARK ROOM	9'-0" x 5'-0"	45
17	DOCTOR'S OFFICE	11'-0" x 9'-0"	99
18	EXAMINATION ROOM	11'-0" x 6'-0"	66
19	AUDIO EXAMINATION ROOM	11'-0" x 6'-0"	66
20	LABORATORY	11'-0" x 6'-0"	66
21	EYE EXAMINATION ROOM	11'-0" x 6'-0"	66
22	EKG EXAMINATION ROOM	11'-0" x 6'-0"	66
23	TOILET	11'-0" x 6'-0"	66
24	RECEPTION AREA	16'-0" x 10'-0"	160
25	MEN'S LATRINE	30'-0" x 15'-0"	450
26	JANITOR'S CLOSET	6'-6" x 7'-6"	49
27	WOMEN'S LATRINE		119
28	HEATING & UTILITY ROOM	27'-0" x 25'-0"	675
29	WALK-IN REFRIGERATOR	12'-0" x 6'-6"	78
30	FOOD SERVICE SUPERVISOR'S OFFICE	12'-0" x 9'-6"	114
31 *	KITCHEN		1,036
32	DINING ROOM AND ASSEMBLY AREA	55'-0" x 36'-0"	1,980
33	DRY FOOD STORAGE	14'-0" x 8'-6"	119
34	GROUND RADIO MAINTENANCE SHOP	37'-0" x 23'-0"	851
35	MAINTENANCE OFFICER (CONTINGENCY)	13'-0" x 12'-0"	156
36	MAINTENANCE MANAGEMENT (CONTINGENCY)		696
37	MAINTENANCE WORKLOAD CONTROL (NCMO) (CONTINGENCY)	25'-0" x 24'-0"	600
38	COMMUNICATIONS CENTER	20'-0" x 30'-0"	600
39	SWITCHBOARD	12'-0" x 8'-0"	96
40	MESSAGE CENTER	12'-0" x 7'-0"	84
41	CRYPTO VAULT	20'-0" x 15'-0"	300
42	CRYPTO MAINTENANCE	15'-0" x 15'-0"	225
43A	CONFERENCE/CLASSROOM	10'-0" x 15'-0"	150
43B	RADIO OPERATIONS	10'-0" x 15'-0"	150
44	COMMUNICATIONS OFFICER	13'-0" x 10'-0"	130
45	TELETYPE MAINTENANCE	13'-0" x 10'-0"	130
46	CORRIDOR		2,292
47	AIR ADVISOR'S OFFICE	14'-0" x 14'-0"	196
48	TESTING ROOM	26'-0" x 14'-0"	364
49	STORAGE ROOM	15'-0" x 14'-0"	210
	TOTAL		17,472

* 31 A GARBAGE
31 B CAN WASH
31 C TRASH

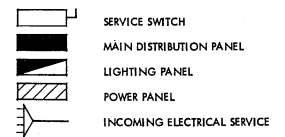
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE <small>HEADQUARTERS UNITED STATES AIR FORCE</small> SPECTOR, PEAKE AND HOWELL <small>ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA</small> AIR RESERVE FORCES COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR MOBILE COMMUNICATIONS SQUADRON (CONTINGENCY) <small>EQUIPMENT & ROOM SCHEDULES</small>			
APPROVED	AD 28-13-119		
<i>Henry J. Pridal</i>	SCALE: NONE	SHEET 2 OF 2	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974		



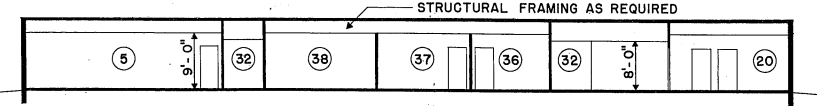
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

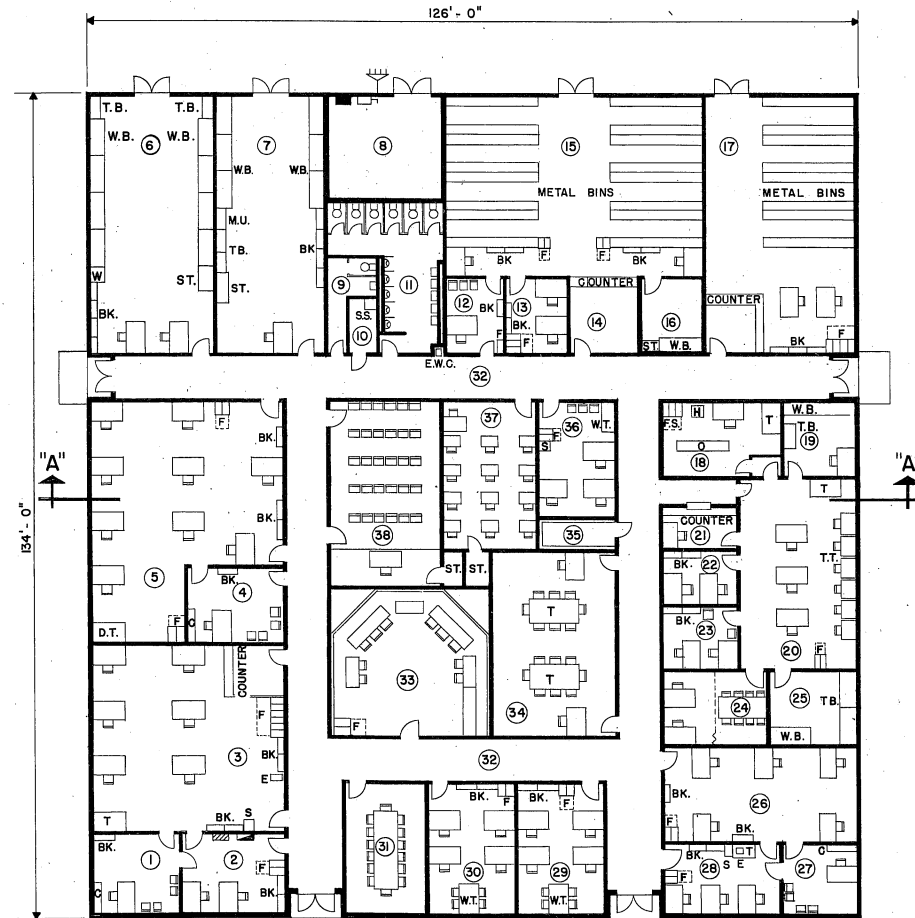


LEGEND

- BK. PUBLICATIONS BOOKCASE
- C CREDENZA
- D.T. DRAFTING TABLE
- E DUPLICATING MACHINE
- F FILE
- F.S. FILE SAFE
- H PAPER SHREDDER
- M.U. MOCK-UP RACK
- O ON-LINE CRYPTO EQUIPMENT
- S SAFE
- S.S. SERVICE SINK
- ST. STORAGE
- T TABLE
- TT. TELETYPE MACHINES
- T.B. TOOL BOX RACK
- W WIRE BIN
- W.B. WORK BENCH
- W.T. WORK TABLE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 490-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65	59.1	50.6	174.7
ESTIMATED DEMAND	65	56.2	45.5	166.7
WATER (GPM)				
HOT	8			
COLD	70			
TOTAL	71			
TOTAL (GPD)				
TOTAL	25,500			
SEWAGE (GPD)				
TOTAL	17,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/STU/HR = 800

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° D8/78° WB
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA

16,884 SQ. FT.

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	SQUADRON COMMANDER'S OFFICE	15'-0" x 14'-0"	210
2	SQUADRON ADMINISTRATION OFFICER	17'-0" x 14'-0"	238
3	SQUADRON ADMINISTRATION/PERSONNEL	32'-0" x 30'-0"	960
4	SQUADRON MAINTENANCE OFFICER	16'-6" x 13'-0"	215
5	SQUADRON MAINTENANCE MANAGEMENT		1,095
6	GROUND RADIO/RADAR/FLIGHT FACILITIES MAINTENANCE	21'-0" x 43'-0"	903
7	RADIO RELAY/TELEPHONE MAINTENANCE	18'-3" x 43'-0"	785
8	MECHANICAL ROOM	19'-0" x 17'-6"	332
9	WOMEN'S LATRINE		100
10	STORAGE & JANITOR'S CLOSET	5'-0" x 9'-6"	48
11	MEN'S LATRINE		336
12	SQUADRON SUPPLY OFFICER	10'-0" x 13'-0"	130
13	SQUADRON SUPPLY ADMINISTRATION OFFICE	10'-6" x 13'-0"	136
14	ISSUE ROOM	11'-6" x 13'-0"	150
15	SQUADRON UNIT SUPPLY MAINTENANCE	42'-8" x 30'-0"	1,275
16	ARMS STORAGE ROOM/ARMAMENT MAINTENANCE	10'-6" x 13'-0"	136
17	FLIGHT UNIT SUPPLY	25'-3" x 43'-0"	1,086
18	CRYPTO VAULT	20'-3" x 13'-0"	264
19	CRYPTO MAINTENANCE	12'-6" x 13'-0"	162
20	COMMUNICATIONS CENTER	20'-0" x 31'-0"	620
21	MESSAGE CENTER	12'-9" x 7'-0"	89
22	SWITCHBOARD ROOM	12'-9" x 9'-0"	115
23	COMMUNICATION OFFICER	12'-9" x 10'-6"	134
24	RADIO OPERATIONS	17'-9" x 13'-0"	233
25	TELETYPE MAINTENANCE	13'-0" x 13'-0"	169
26	FLIGHT MAINTENANCE MANAGEMENT	32'-9" x 16'-0"	524
27	FLIGHT COMMANDER'S OFFICE	13'-0" x 12'-0"	156
28	FLIGHT ADMINISTRATION/PERSONNEL	19'-9" x 13'-0"	257
29	FLIGHT AIR TRAFFIC CONTROL OFFICE	14'-4" x 22'-3"	322
30	SQUADRON AIR TRAFFIC CONTROL OFFICE	14'-6" x 22'-3"	323
31	CONFERENCE ROOM	13'-6" x 22'-3"	300
32	CORRIDORS		2,438
33	NICMO/WLC/CP	26'-6" x 24'-3"	643
34	AIR TRAFFIC CONTROL SIMULATOR ROOM	21'-0" x 30'-3"	635
35	FRAME ROOM	13'-3" x 5'-6"	73
36	AIR FORCE ADVISOR (FLIGHT & SQUADRON)		239
37	TESTING ROOM	19'-3" x 19'-0"	410
38	CLASSROOM		603
	TOTAL		16,884

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

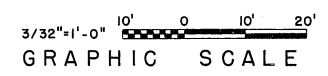
AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR
FLIGHT FACILITIES FLIGHT COLOCATED WITH MOBILE
COMMUNICATIONS SQUADRON (BARE BASE)

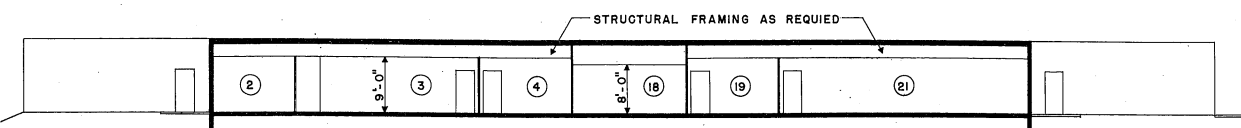
PLAN & SECTION

APPROVED
Henry J. Peake, Jr.
FOR CHIEF OF STAFF USAF

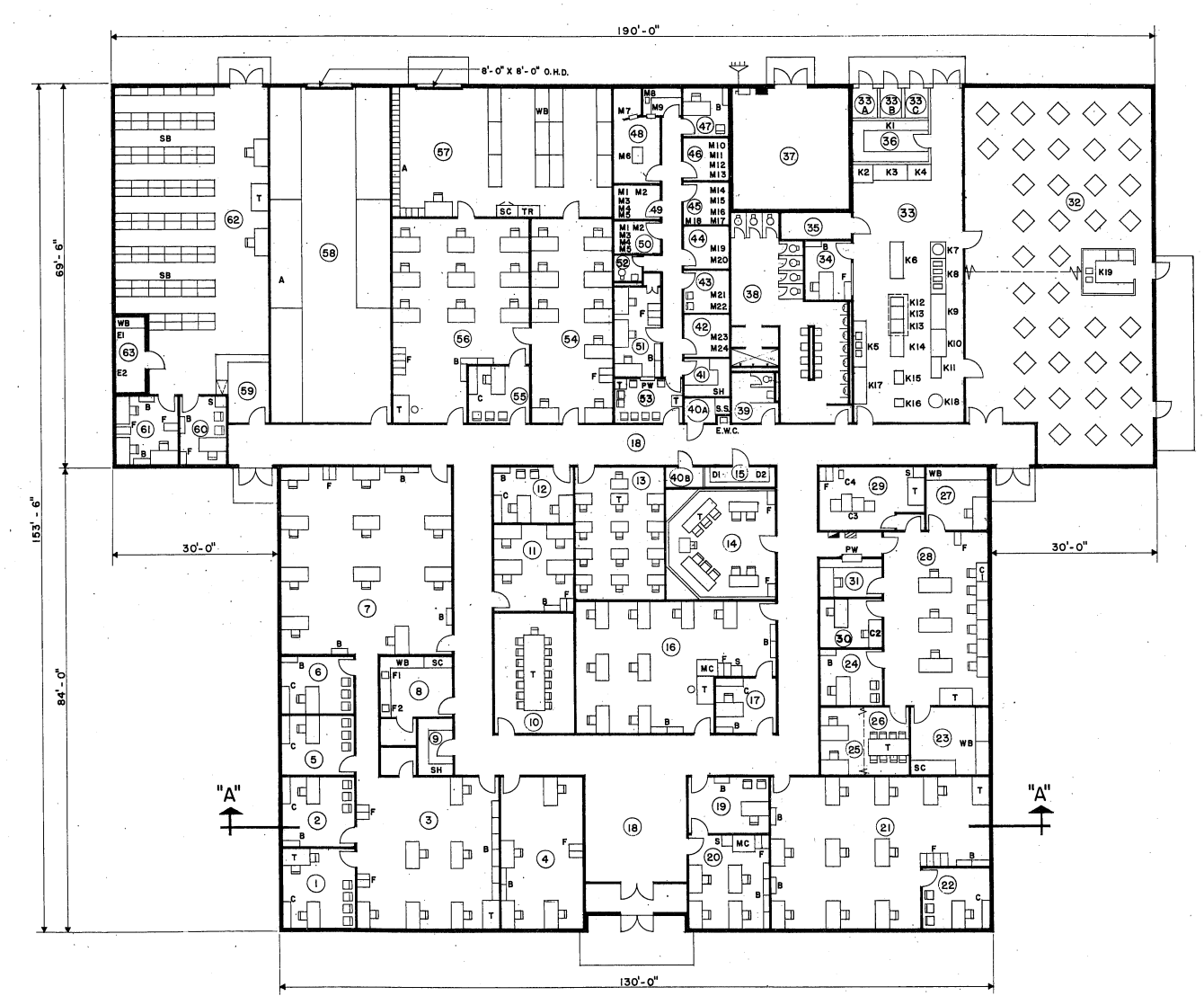
AD 28-13-120
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974

SHEET | OF | 1





SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	23.0	34.0	144.0	251.0
ESTIMATED DEMAND	23.0	79.8	129.5	232.3

WATER (GPM)	
HOT	20
COLD	84
TOTAL	87
TOTAL (GPD)	37,500
SEWAGE (GPD)	25,000

HEATING REQUIREMENTS

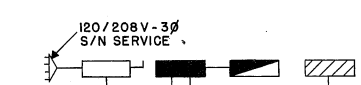
OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 1,200.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 95.0

AREA FOR PROGRAMMING GROSS AREA

24,125 SQ. FT.



ELECTRICAL RISER DIAGRAM

NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- A CUBICLES
- B PUBLICATIONS BOOKCASE
- C CREDENZA
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINETS
- O.H.D. OVERHEAD DOOR
- M.C. MAP CASE
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINETS
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171 - 447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

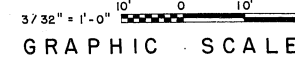
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR
MOBILE COMMUNICATIONS GROUP COLOCATED
WITH MOBILE COMMUNICATIONS SQUADRON (AFGCP)
PLAN & SECTION

APPROVED
George J. Pugh
FOR CHIEF OF STAFF USAF

AD 28-13-121
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 2



GRAPHIC SCALE

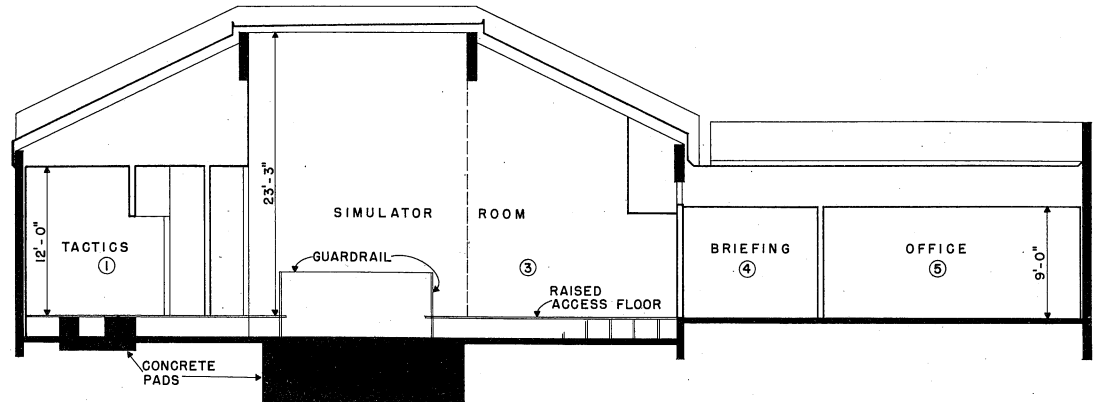
ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ. FT.
1	GROUP COMMANDER'S OFFICE	15'-3" x 14'-0"	214
2	EXECUTIVE OFFICER'S OFFICE	14'-0" x 13'-0"	182
3	ORDERLY ROOM, GROUP	26'-4" x 28'-4"	782
4	PERSONNEL OFFICE, GROUP	15'-6" x 28'-4"	439
5	ADMINISTRATIVE OFFICER - OFFICE, GROUP	14'-0" x 11'-2"	156
6	MAINTENANCE OFFICER OFFICE, GROUP	14'-0" x 10'-9"	151
7	MAINTENANCE MANAGEMENT OFFICE, GROUP	32'-2" x 34'-6"	1,109
8	REPRODUCTION ROOM	14'-0" x 11'-4"	237
9	STORAGE	7'-0" x 10'-6"	74
10	CONFERENCE ROOM	15'-0" x 22'-4"	334
11	MATERIAL CONTROL OFFICE	15'-0" x 16'-0"	240
12	AIR ADVISOR'S OFFICE, GROUP	15'-0" x 10'-8"	160
13	TESTING ROOM	16'-6" x 24'-5"	404
14	NCMO	20'-4" x 20'-4"	413
15	FRAME ROOM	13'-4" x 4'-2"	55
16	TELECOMMUNICATION OFFICE		781
17	TELECOMMUNICATION STAFF OFFICER'S OFFICE	11'-6" x 10'-6"	120
18	LOBBY AND CORRIDOR		3,156
19	GROUND COMMUNICATIONS/ELECTRONICS OPERATIONS OFFICER	15'-2" x 10'-8"	162
20	GROUND SQUADRON COMMUNICATIONS/ELECTRONICS ADMIN.		267
21	ORDERLY ROOM (SQUADRON)		1,000
22	SQUADRON COMMANDER'S OFFICE	13'-2" x 11'-8"	153
23	TELETYPE MAINTENANCE	15'-0" x 12'-8"	189
24	COMMUNICATIONS OFFICER	11'-10" x 10'-6"	124
25	RADIO OPERATOR'S OFFICE	8'-4" x 12'-8"	105
26	CONFERENCE/CLASSROOM	8'-4" x 12'-8"	105
27	CRYPTO MAINTENANCE	12'-0" x 12'-0"	144
28	COMMUNICATIONS OPERATIONS CENTER	19'-10" x 31'-8"	628
29	CRYPTO VAULT	19'-8" x 12'-0"	235
30	SWITCHBOARD ROOM	11'-10" x 9'-2"	108
31	MESSAGE CENTER	11'-10" x 7'-6"	89
32	DINING ROOM AND ASSEMBLY AREA		2,305
33*	KITCHEN		1,137
34	OFFICE, FOOD SERVICE	8'-9" x 11'-2"	97
35	WALK-IN REFRIGERATOR	13'-0" x 5'-4"	69
36	STORAGE, DRY AND NON-PERISHABLE FOODS	14'-3" x 9'-0"	128
37	HEATING & UTILITY ROOM	21'-9" x 23'-0"	500
38	MEN'S LATRINE AND SHOWER FACILITY		585
39	WOMEN'S LATRINE	8'-9" x 9'-8"	85
40	JANITOR'S CLOSET	4'-8" x 8'-9"	40
41	MEDICAL SUPPLY STORAGE	8'-9" x 7'-2"	63
42	EKG ROOM	8'-9" x 8'-0"	70
43	EYE EXAMINATION ROOM	8'-9" x 8'-0"	70
44	AUDIO EXAM ROOM	8'-9" x 8'-0"	70
45	LABORATORY	8'-0" x 8'-9"	70
46	EXAMINATION ROOM	8'-0" x 8'-9"	70
47	DOCTOR'S OFFICE	8'-9" x 9'-8"	84
48	X-RAY ROOM, X-RAY CONTROL, & DARK ROOM		186
49	DENTAL EXAM	9'-2" x 6'-6"	60
50	TREATMENT ROOM	9'-2" x 6'-4"	57
51	MEDICAL ADMINISTRATION	9'-2" x 16'-6"	151
52	TOILET ROOM	5'-6" x 5'-6"	30
53	RECEPTION AREA	12'-8" x 8'-6"	107
54	SQUADRON MAINTENANCE WORKLOAD CONTROL (NCMO)	15'-3" x 37'-2"	567
55	CHIEF OF MAINTENANCE OFFICE	11'-6" x 10'-6"	120
56	SQUADRON MAINTENANCE MANAGEMENT		817
57	GROUND RADIO MAINTENANCE SHOP	40'-6" x 24'-4"	985
58	OUTSIDE PLANT STORAGE & TRAINING	22'-3" x 61'-6"	1,368
59	ISSUE ROOM	7'-10" x 12'-8"	99
60	SUPPLY OFFICER	8'-10" x 12'-8"	116
61	SUPPLY ADMINISTRATION		151
62	UNIT SUPPLY STORAGE		1,461
63	ARMAMENT ROOM	6'-4" x 14'-4"	91
	TOTAL		24,125

* 33A GARBAGE
33B CAN WASH
33C TRASH

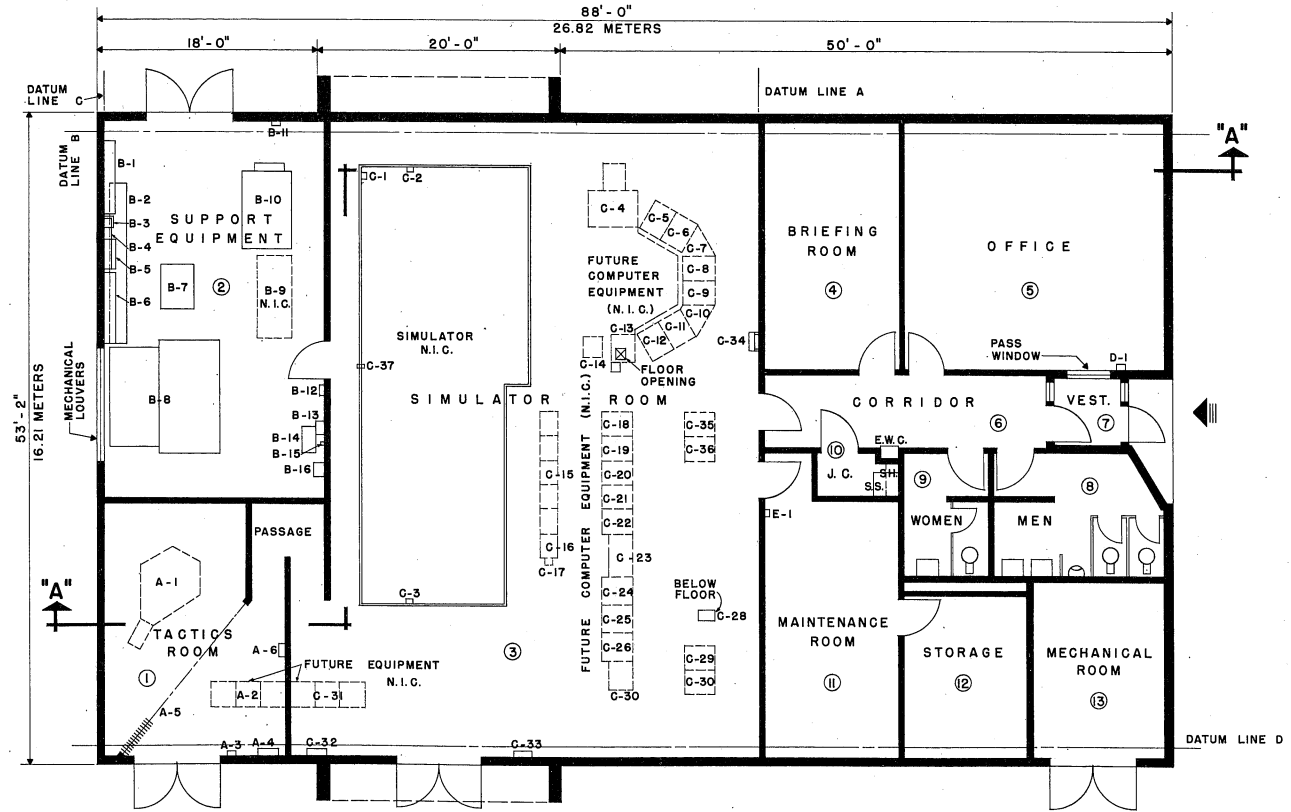
SPECIAL EQUIPMENT SCHEDULE				
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.
COMMUNICATIONS	C-1	TELETYPE MACHINES	4	
	C-2	SWITCHBOARD	1	
	C-3	ON LINE CRYPTO EQUIPMENT	1	
	C-4	PAPER SHREDDER	1	
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	3	
	D-2	1A1 TELEPHONE CABINET	1	
ARMAMENT STORAGE	E-1	RIFLE STORAGE RACK	18	
	E-2	PISTOL STORAGE RACK	30	
REPRODUCTION ROOM	F-1	XEROX REPRODUCTION MACHINE	1	
	F-2	OFFSET REPRODUCTION MACHINE	1	
KITCHEN & DINING	K-1	SHELVING	1	
	K-2	ICE MACHINE	1	
	K-3	REFRIGERATOR	1	
	K-4	BREAD BOX	1	
	K-5	3 BAY SINK	1	
	K-6	WORK TABLE (LARGE)	1	
	K-7	COFFEE URN	1	
	K-8	STEAM TABLE	1	
	K-9	WORK TABLE (SMALL)	1	
	K-10	TRAY & UTENSIL TABLE	1	
	K-11	COOLER	1	
	K-12	DEEP FAT FRYER	1	
	K-13	RANGE	2	
	K-14	BAKING OVEN	1	
	K-15	MIXING MACHINE	1	
	K-16	PEELER	1	
	K-17	RACKS	1	
	K-18	STEAM KETTLE	1	
	K-19	DISHWASHER	1	
MEDICAL CENTER	M-1	DENTAL OPERATING CHAIR	2	6520-110-5545
	M-2	COMPRESSOR	2	6520-142-8890
	M-3	DENTAL OPERATING CHAIR	2	6520-782-6479
	M-4	DENTAL CABINET	2	6520-782-6497
	M-5	DENTAL CABINET	2	6520-782-6499
	M-6	X-RAY MACHINE	1	6525-684-8745
	M-7	X-RAY SCREEN	1	6525-612-8025
	M-8	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400
	M-9	X-RAY FILM DRYER	1	6525-664-0858
	M-10	EXAMINING TABLE	1	6530-709-3000
	M-11	EXAMINING CHAIR	1	6530-704-6010
	M-12	INFRA-RED LAMP	1	
	M-13	MEDICINE CASE, GLASS	1	
	M-14	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0460
	M-15	CENTRIFUGE	1	
	M-16	SHAKING MACHINE	1	6640-438-9600
	M-17	SINK AND WATER TOP	1	
	M-18	MEDICAL CABINET	1	
	M-19	AUDIOMETER MACHINE	1	6515-782-2646
	M-20	AUDIOMETER BOOTH (5' x 5')	1	6515-065-9600
	M-21	COLOR TESTING MACHINE	1	6515-388-3700
	M-22	VISION TESTING MACHINE	1	6515-299-8048
	M-23	EKG MACHINE	1	6515-085-3041
	M-24	COT (2'-6" x 6'-0")	1	

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR			
MOBILE COMMUNICATIONS GROUP COLOCATED			
WITH MOBILE COMMUNICATIONS SQUADRON (AFCCP)			
EQUIPMENT & ROOM SCHEDULES			
APPROVED		AD 28-13-121	
<i>George Z. Rodolph</i>		SCALE: NONE	
FOR CHIEF OF STAFF USAF		DATE: 6 Nov. 1974	
		SHEET 2 OF 2	



SECTION "A"- "A"
SCALE 3/16" = 1'-0"



FLOOR PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	REFRIG	TOTAL (PRESENT REQUIREMENT)	TOTAL (INCLUDING FUTURE EQUIPMENT)
CONNECTED LOAD	18.7	28	19	65.7	314.7
ESTIMATED DEMAND	17.76	26.6	19	63.36	287.93

WATER (GPM)	HOT	COLD	TOTAL
HOT	6	46	48
TOTAL (GPD)	15,750		
SEWAGE (GPD)	10,500		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 270

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	95° DB / 78° WB
TONS OF REFRIGERATION	19 TONS
FUTURE COMPUTER INSTALLATION REQUIREMENT	19 TONS
TOTAL	38 TONS

AREA FOR PROGRAMMING GROSS AREA

4,678 SQ. FT.

ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS SQ. FT.	AREA SQ. FT.
1	TACTICS ROOM	19'-0" x 21'-6"	409	
2	SUPPORT EQUIPMENT	19'-0" x 31'-9"	603	
3	SIMULATOR ROOM	35'-9" x 53'-2"	1900	
4	BRIEFING ROOM	11'-6" x 21'-3"	244	
5	OFFICE	22'-3" x 21'-3"	473	
6	CORRIDOR	23'-9" x 6'-0"	143	
7	VESTIBULE	6'-6" x 6'-0"	39	
8	MEN'S TOILET	15'-0" x 10'-6"	157	
9	WOMEN'S TOILET	7'-6" x 10'-6"	78	
10	JANITOR'S CLOSET	7'-3" x 4'-0"	29	
11	MAINTENANCE ROOM		264	
12	STORAGE	10'-6" x 15'-3"	160	
13	MECHANICAL ROOM	11'-9" x 15'-3"	179	
TOTAL			4,678	

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 171-212

LEGEND

- ▲ ENTRY
- E.W.C. ELECTRIC WATER COOLER
- INCOMING ELECTRICAL SERVICE
- J.C. JANITOR'S CLOSET
- N.I.C. NOT IN CONTRACT
- SH. SHELF
- S.S. SERVICE SINK
- VEST. VESTIBULE

3/16" = 1'-0" 0 4 8 12 16
GRAPHIC SCALE

DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
FLIGHT SIMULATOR FACILITY			
(A-7 AIRCRAFT)			
PLAN & SECTION			
APPROVED	SCALE: 3/16" = 1'-0"	SHEET 1 OF 2	
<i>Henry J. Rothwell, Jr.</i>	DATE: 6 Nov. 1974		
FOR CHIEF OF STAFF USAF	AD 28-13-123		

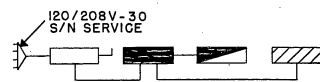
EQUIPMENT SCHEDULE

ROOM NO.	ROOM	NUMBER ON PLAN	DESCRIPTION	APPROX. DIMENSIONS	FURNISHED BY	INSTALLED BY	PART NUMBER
1	TACTICS ROOM	A-1	MAP TRANSPORT	5'- 11" x 8'- 10"	N.I.C.		
		A-2	PROJECTION/COLLECTION ELECTRONICS	2'- 5" x 6'- 0"	N.I.C.		
		A-3	PUSH BUTTON EMERGENCY POWER		MDEC	CONTRACTOR	AO6G1866-1
		A-4	CIRCUIT BREAKER PANEL		MDEC	CONTRACTOR	NAIB-100-102 A
		A-5	SLIDING CURTAIN LIGHT TIGHT		CONTRACTOR	CONTRACTOR	
		A-6	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
2	SUPPORT EQUIPMENT	B-1	MAIN POWER DISTRIBUTION PANEL		CONTRACTOR	CONTRACTOR	
		B-2	CIRCUIT BREAKER PANEL		MDEC	CONTRACTOR	NAIB-100-103 A
		B-3	SAFETY SWITCH		MDEC	CONTRACTOR	D 805004-1
		B-4	TERMINAL BOX		MDEC	CONTRACTOR	AO6G1901-1
		B-5	CONTROL CENTER		MDEC	CONTRACTOR	AO6G1900-1
		B-6	CONTROL CENTER - POWER SYSTEM		MDEC	CONTRACTOR	AO6G1873-1
		B-7	60/400 HZ FREQUENCY CONVERTOR		MDEC	CONTRACTOR	B34G0001-1
		B-8	AIR HANDLING UNIT	9'- 0" x 9'- 4"	CONTRACTOR	CONTRACTOR	
		B-9	HYDRAULIC ACCESSORIES RACK	2'- 10" x 6'- 11"	N.I.C.		
		B-10	HYDRAULIC PUMP		MDEC	CONTRACTOR	K80H0002-1
		B-11	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
		B-12	AIR CONDITION TEST SWITCH		CONTRACTOR	CONTRACTOR	
		B-13	MOTOR STARTER COMPRESSOR		MDEC	CONTRACTOR	D5450097-1
		B-14	AIR COMPRESSOR		MDEC	CONTRACTOR	5YCT93
		B-15	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
		B-16	JUNCTION BOX - SMOKE EXHAUST CONTROL		CONTRACTOR	CONTRACTOR	
3	SIMULATOR ROOM	C-1	OUTLET BOX FOR DRYER		CONTRACTOR	CONTRACTOR	
		C-2	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
		C-3	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
		C-4	RECORDER AND WEATHER SIMULATOR	2'- 10" x 4'- 2"	N.I.C.		
		C-5	PROBLEM SET-UP PANEL	3'- 1" x 2'- 0"	N.I.C.		
		C-6	PROCEDURE MONITOR AND FLIGHT INSTRUMENTS	3'- 1" x 2'- 0"	N.I.C.		
		C-7	COMM - NAV		N.I.C.		
		C-8	FLIGHT CONTROLS AND ENGINE FUEL	3'- 1" x 2'- 0"	N.I.C.		
		C-9	TV MONITOR AND NAV/WEAPONS	3'- 1" x 2'- 0"	N.I.C.		
		C-10	MAINTENANCE INTERCOM UNIT		N.I.C.		
		C-11	TACTICS/RADAR	3'- 1" x 2'- 0"	N.I.C.		
		C-12	JAMMER CONTROL	3'- 1" x 2'- 0"	N.I.C.		
		C-13	POWER CONTROL CABINETS	2'- 5" x 2'- 0"	N.I.C.		
		C-14	TELETYPEWRITER	1'- 8" x 2'- 0"	N.I.C.		
		C-15	SIGNAL PATCH		N.I.C.		
		C-16	POWER PATCH	1'- 5" x 4'- 0"	N.I.C.		
		C-17	MAINTENANCE INTERCOM UNIT	0'- 6" x 0'- 4"	N.I.C.		
		C-18	POWER SUPPLIES, AUTO AMP CHECK	2'- 0" x 2'- 5"	N.I.C.		
		C-19	POWER SUPPLIES, ANALOG-TO-DIGITAL CONVERTOR	2'- 0" x 2'- 5"	N.I.C.		
		C-20	POWER SUPPLIES, ANALOG/SYNCHRO	2'- 0" x 2'- 5"	N.I.C.		
		C-21	POWER SUPPLIES, SYNCHRO-TO-ANALOG TRANSFORMERS	2'- 0" x 2'- 5"	N.I.C.		
		C-22	INPUT/OUTPUT CONTROL	2'- 0" x 2'- 5"	N.I.C.		
		C-23	TELETYPEWRITER	2'- 0" x 3'- 4"	N.I.C.		
		C-24	COMPUTER AND KEYBOARD	2'- 3" x 2'- 7"	N.I.C.		
		C-25	COMPUTER MEMORY	2'- 3" x 2'- 7"	N.I.C.		
		C-26	DISC CONTROL AND PAPER TAPE	2'- 4" x 2'- 7"	N.I.C.		
		C-27	DISC DRIVE	2'- 6" x 2'- 0"	N.I.C.		
		C-28	JUNCTION BOX COMPUTER		MDEC	CONTRACTOR	AO6G1874-1
		C-29	POWER SUPPLIES, SOUND NAV/COM.	2'- 0" x 2'- 5"	N.I.C.		
		C-30	POWER SUPPLIES, MOTION, GEAR	2'- 0" x 2'- 5"	N.I.C.		
		C-31	ANALOG COMPUTER, ELECTRONICS	2'- 5" x 6'- 0"	N.I.C.		
		C-32	TACTICS TIME DELAY JUNCTION BOX	0'- 6" x 1'- 6"	CONTRACTOR	CONTRACTOR	
		C-33	CIRCUIT BREAKER PANEL - UTILITIES		CONTRACTOR	CONTRACTOR	
		C-34	CIRCUIT BREAKER PANEL		MDEC	CONTRACTOR	NAIB-100-101 A
		C-35	HYDRAULIC PNEUMATIC MISCELLANEOUS	2'- 0" x 2'- 5"	N.I.C.		
		C-36	NAV RADAR, ENGINE AND AVIONICS SYSTEM	2'- 0" x 2'- 5"	N.I.C.		
		C-37	PUSH BUTTON EMERGENCY POWER		MDEC	CONTRACTOR	AO6G1866-1
5	OFFICE	D-1	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1
11	MAINTENANCE ROOM	E-1	MAINTENANCE INTERCOM UNIT		MDEC	CONTRACTOR	AO6G1799-1

CATEGORY CODE NO. 171-212

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE <small>HEADQUARTERS UNITED STATES AIR FORCE</small> SPECTOR, PEAKE AND HOWELL <small>ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA</small> AIR RESERVE FORCES			
FLIGHT SIMULATOR FACILITY (A-7 AIRCRAFT) EQUIPMENT SCHEDULE			
APPROVED	SCALE: NO SCALE	SHEET 2 OF 2	
<i>George Z. Pithard</i>	DATE: 6 Nov. 1974		
FOR CHIEF OF STAFF USAF	AD 28-13-123		

C2



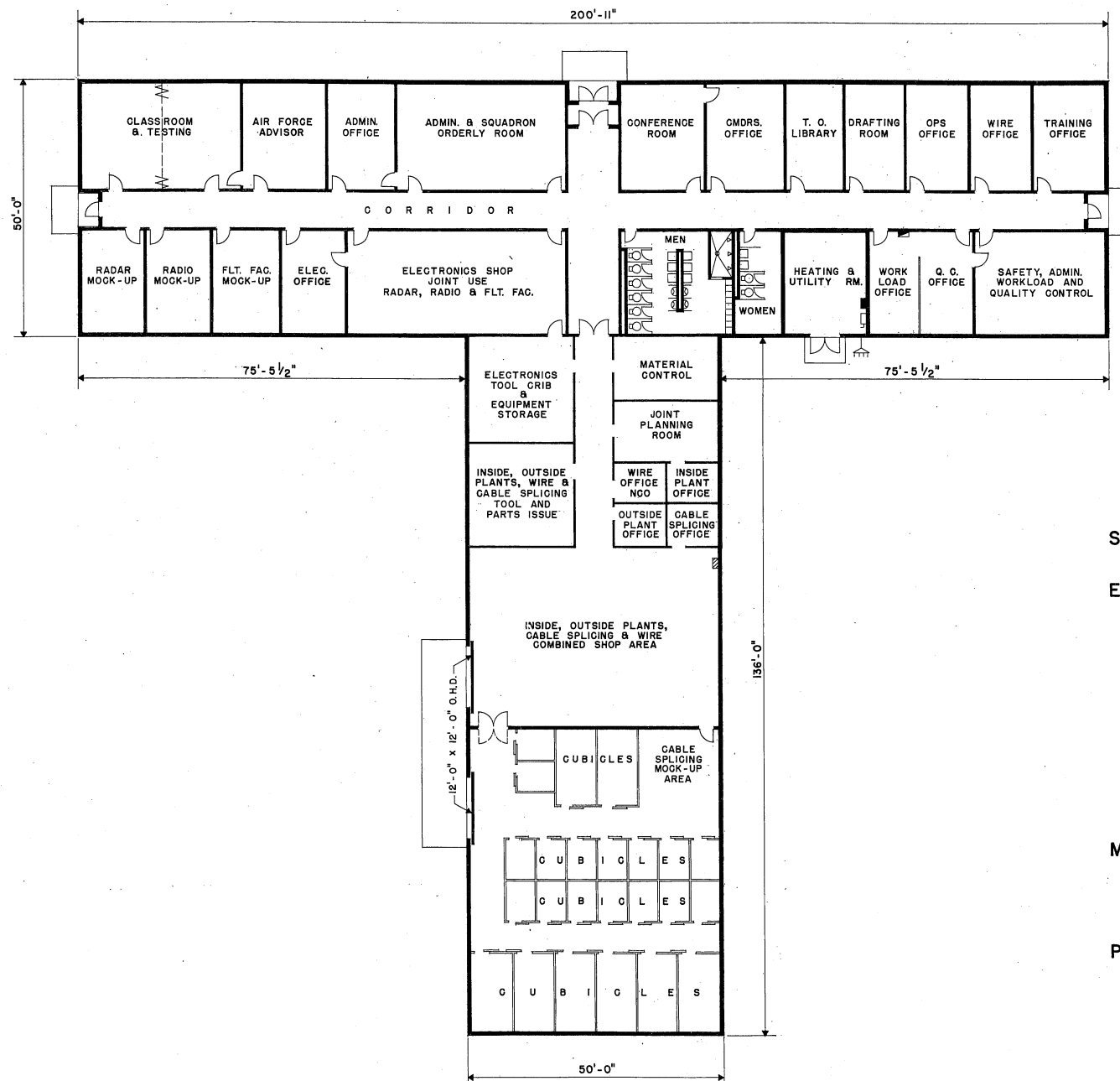
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

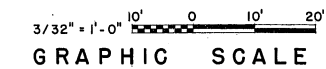
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- RM. ROOM



FLOOR PLAN
SCALE 3/32" = 1'-0"



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	84.2	112.3	196.5
ESTIMATED DEMAND	79.7	98.8	178.5

WATER (GPM)	
HOT	15
COLD	75
TOTAL	75

TOTAL (GPD)	
13,500	

SEWAGE (GPD)	
9,000	

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 613.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING GROSS AREA

TYPE "A"	16,846 SQ. FT.
TYPE "B"	16,846 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C., SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

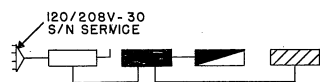
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY
(E1 SQUADRON) TYPE A8B

PLAN
APPROVED
George J. P... ..
FOR CHIEF OF STAFF USAF
AD 28-16-20
SCALE: AS NOTED
DATE: 6 Nov. 1974
SHEET 1 OF 2



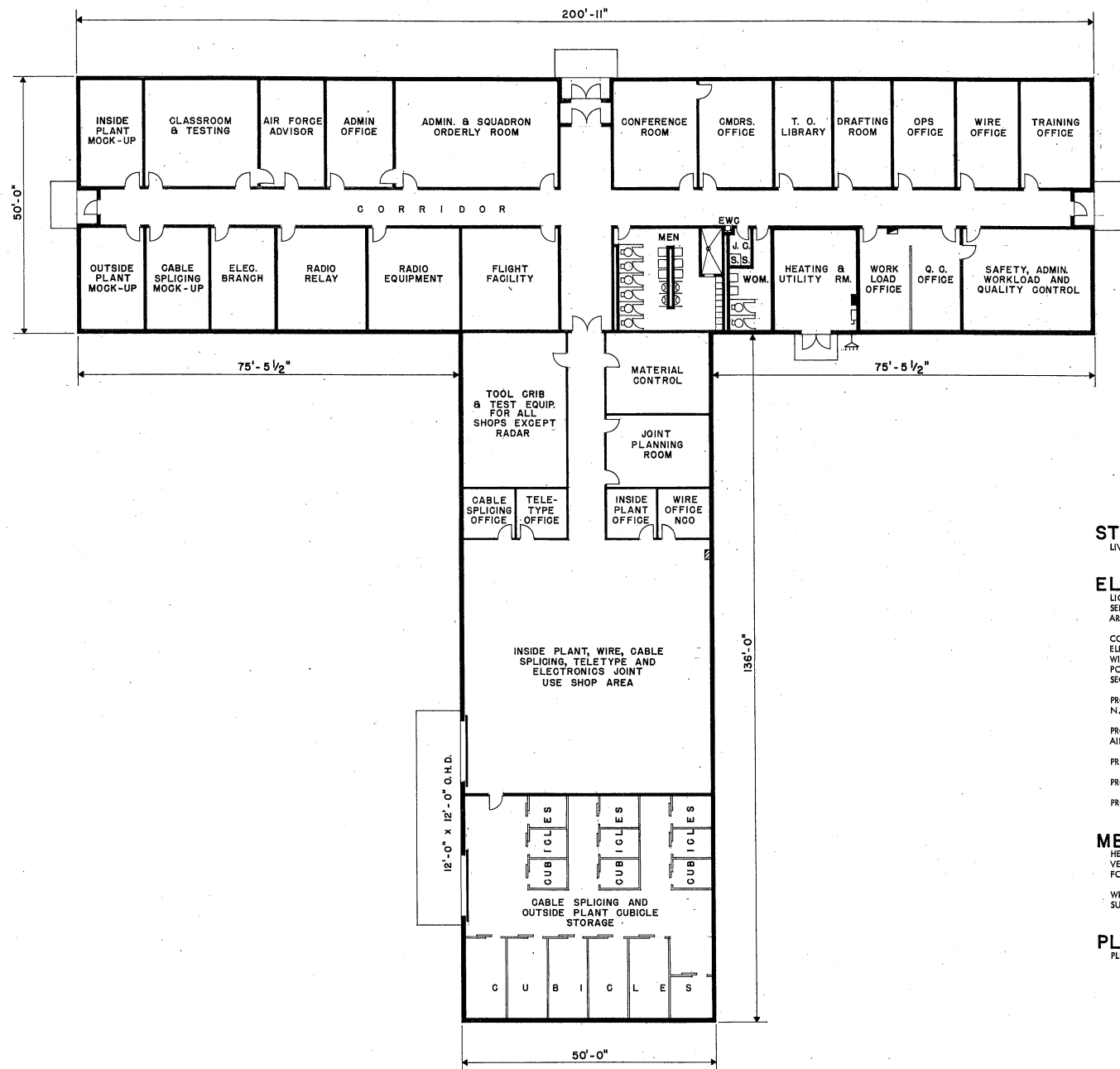
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

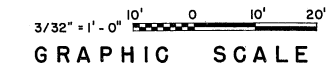
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- RM. ROOM
- WOM. WOMEN



FLOOR PLAN
SCALE 3/32" = 1'-0"



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	84.2	112.3	196.5
ESTIMATED DEMAND	79.7	98.8	178.5

WATER (GPM)	SEWAGE (GPD)
HOT	16
COLD	75
TOTAL	75
TOTAL (GPD)	13,500
SEWAGE (GPD)	9,000

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 635.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING GROSS AREA
TYPE "C" **16,846 SQ. FT.**

DESIGN GUIDES

- STRUCTURAL**
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.
- ELECTRICAL**
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.
CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.
PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.
PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.
PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.
PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.
- MECHANICAL**
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.
- PLUMBING**
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

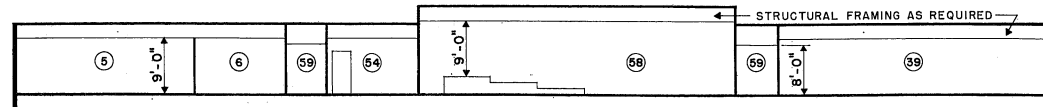
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY
(E1 SQUADRON) TYPE C

PLAN

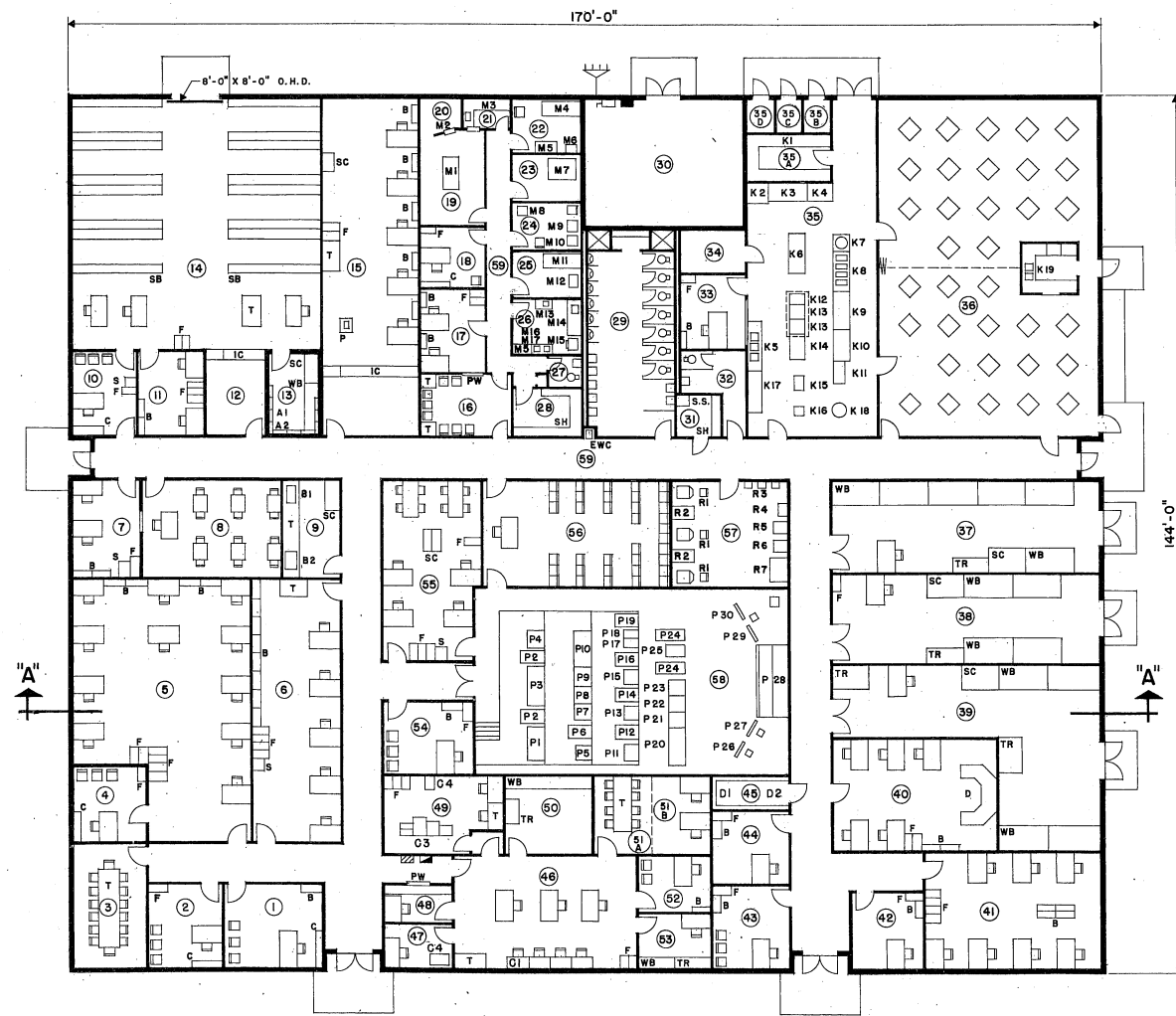
APPROVED
George J. Rothwell, Jr.
FOR CHIEF OF STAFF USAF

AD 28-16-20
SCALE AS SHOWN
DATE 6 Nov. 1974

SHEET 2 OF 2



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY	(KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	90.0		97.9	146.9	334.8
ESTIMATED DEMAND	90.0		93.0	132.2	315.2
WATER (GPM)					
HOT	23				
COLD	81				
TOTAL	88				
TOTAL	(GPD)	32,850			
SEWAGE	(GPD)	21,900			

HEATING REQUIREMENTS

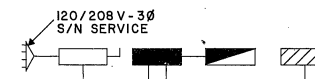
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,095.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 90

AREA FOR PROGRAMMING GROSS AREA

24,480 SQ. FT.



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CREDENZA
- D CONSOLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- I.C. ISSUE COUNTER
- O.H.D. OVERHEAD DOOR
- P CAMERA
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINET
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

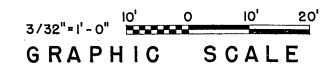
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORGES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY FOR TACTICAL CONTROL SQUADRON (GRP)
PLAN & SECTION

APPROVED
George Z. Pette, Jr.
FOR CHIEF OF STAFF USAF
AD 28-16-21
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974
SHEET 1 OF 2



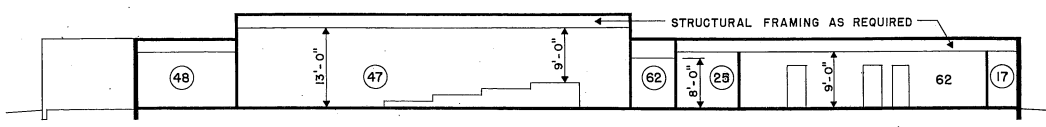
ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ. FT.
1	SQUADRON COMMANDER'S OFFICE	16'-6" x 14'-0"	231
2	SQUADRON ADMINISTRATION MANAGEMENT OFFICER	14'-0" x 12'-6"	175
3	CONFERENCE ROOM	21'-0" x 13'-0"	273
4	PERSONNEL OFFICER (CRP)	13'-0" x 12'-6"	163
5	PERSONNEL ADMINISTRATION		1,143
6	SQUADRON ADMINISTRATION OFFICE	43'-6" x 15'-0"	653
7	AIR ADVISOR'S OFFICE	16'-6" x 12'-0"	198
8	TESTING ROOM	23'-0" x 16'-6"	380
9	REPRODUCTION ROOM	16'-6" x 10'-0"	165
10	SUPPLY OFFICER	14'-0" x 11'-0"	154
11	SUPPLY ADMINISTRATION	14'-0" x 11'-0"	154
12	ISSUE ROOM	14'-0" x 10'-0"	140
13	ARMAMENT STORAGE VAULT/ARMAMENT MAINTENANCE	14'-0" x 9'-0"	126
14	UNIT SUPPLY STORAGE	42'-0" x 41'-0"	1,722
15	SECURITY OPERATIONS	56'-0" x 16'-0"	896
16	MEDICAL CENTER RECEPTION	16'-0" x 10'-0"	160
17	MEDICAL ADMINISTRATION	14'-0" x 11'-0"	154
18	DOCTOR'S OFFICE	11'-0" x 10'-0"	110
19	X-RAY	16'-6" x 11'-0"	182
20	CONTROL	8'-0" x 5'-6"	44
21	DARK ROOM	8'-0" x 5'-6"	44
22	EXAMINATION ROOM	11'-0" x 9'-0"	105
23	AUDIO EXAMINATION ROOM	11'-0" x 8'-0"	88
24	EYE EXAMINATION ROOM	11'-0" x 8'-0"	88
25	EKG EXAMINATION ROOM	11'-0" x 8'-0"	88
26	LABORATORY	11'-0" x 9'-0"	99
27	LATRINE	11'-0" x 5'-6"	61
28	MEDICAL SUPPLY STORAGE	11'-0" x 8'-0"	88
29	MEN'S LATRINE, SHOWER & DRYING AREAS	35'-0" x 16'-0"	560
30	HEATING & UTILITY ROOM	27'-0" x 21'-0"	567
31	JANITOR'S CLOSET	7'-6" x 7'-6"	56
32	WOMEN'S TOILET		103
33	FOOD SERVICE SUPERVISOR'S OFFICE	12'-6" x 11'-0"	138
34	WALK-IN REFRIGERATOR	11'-0" x 8'-0"	88
35	KITCHEN		1,026
35A	KITCHEN STORAGE	14'-6" x 8'-0"	116
35B	TRASH	4'-9" x 6'-3"	29
35C	CAN WASH	4'-6" x 6'-3"	29
35D	GARBAGE	5'-3" x 6'-3"	32
36	DINING ROOM/ASSEMBLY AREA	56'-0" x 37'-0"	2,072
37	GROUND RADIO RELAY MAINTENANCE	45'-0" x 15'-0"	675
38	GROUND RADIO MAINTENANCE SHOP	45'-0" x 15'-0"	675
39	GROUND RADAR MAINTENANCE SHOP		882
40	MAINTENANCE CONTROL/GCEM	27'-0" x 19'-0"	513
41	MAINTENANCE MANAGEMENT	30'-0" x 20'-0"	600
42	GROUND RADAR MAINTENANCE OFFICER	14'-0" x 12'-0"	168
43	SQUADRON MAINTENANCE OFFICER	15'-0" x 13'-6"	203
44	GROUND RADIO MAINTENANCE OFFICER	13'-6" x 12'-0"	162
45	FRAME ROOM	13'-6" x 6'-0"	81
46	COMMUNICATIONS CENTER	30'-0" x 20'-0"	600
47	SWITCHBOARD	12'-0" x 8'-0"	96
48	MESSAGE CENTER	12'-0" x 7'-0"	84
49	CRYPTO VAULT	20'-0" x 13'-0"	260
50	CRYPTO MAINTENANCE	15'-0" x 13'-0"	195
51A	CONFERENCE/CLASSROOM	13'-0" x 10'-0"	130
51B	RADIO OPERATIONS	13'-0" x 9'-6"	124
52	COMMUNICATIONS OFFICER	12'-6" x 10'-0"	125
53	TELETYPE MAINTENANCE	12'-6" x 10'-0"	125
54	WEAPONS DIRECTOR STAFF OFFICER (CRP)	15'-6" x 12'-0"	186
55	CRP ADMINISTRATION		490
56	CLASSROOM	31'-0" x 17'-0"	527
57	RADAR SIMULATOR	20'-0" x 17'-0"	340
58	CRP OPERATIONS CENTER	52'-6" x 31'-0"	1,628
59	CORRIDOR		2,911
	TOTAL		24,610

SPECIAL EQUIPMENT SCHEDULE				
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.
KITCHEN & DINING	K-1	SHELVING	1	
	K-2	ICE MACHINE	1	4110-837-6441
	K-3	REFRIGERATOR	1	
	K-4	BREAD BOX	1	7320-776-3260
	K-5	3 BAY SINK	1	CONTRACT ITEM
	K-6	WORK TABLE (LARGE)	1	7320-205-1379
	K-7	COFFEE URN	1	7310-242-8412
	K-8	STEAM TABLE	1	7310-271-1619
	K-9	WORK TABLE	1	7320-269-9231
	K-10	TRAY & UTENSIL TABLE	1	7105-281-8617
	K-11	COOLER	1	4110-266-9291
	K-12	DEEP FAT FRYER	1	7310-809-9390
	K-13	RANGE	2	7310-282-6626
	K-14	BAKING OVEN	1	7310-273-1880
	K-15	MIXING MACHINE	1	7320-205-2778
	K-16	PEELER	1	7320-343-2196
	K-17	RACKS	1	
	K-18	STEAM KETTLE	1	7310-616-0056
	K-19	DISHWASHER	1	7320-271-1623
MEDICAL CENTER	M-1	X-RAY MACHINE	1	6525-684-8745
	M-2	X-RAY SCREEN	1	6525-612-8025
	M-3	MASTER X-RAY FILM PROCESSING TANK X-RAY FILM DRYER	1	6525-616-7400 6525-664-0858
	M-4	EXAMINING TABLE	1	6530-709-3000
	M-5	MEDICAL CABINET	1	
	M-6	LAVATORY	1	
	M-7	AUDIOMETER MACHINE AUDIOMETER BOOTH (5' x 5')	1	6515-782-2646 6515-065-9600
	M-8	EYE EXAMINATION MACHINE	1	
	M-9	COLOR TESTING MACHINE	1	6515-388-3700
	M-10	VISION TESTING MACHINE	1	6515-299-8048
	M-11	COT (2'-6" x 6'-0")	1	
	M-12	EKG MACHINE	1	6515-085-3041
	M-13	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0450
	M-14	SINK AND WORK TABLE	1	
	M-15	REFRIGERATOR	1	
	M-16	CENTRIFUGE	1	6640-412-9008
	M-17	SHAKING MACHINE	1	
ARMAMENT STORAGE	A-1	RIFLE STORAGE RACK	8	
	A-2	PISTOL STORAGE RACK	2	
REPRODUCTION	B-1	XEROX REPRODUCTION MACHINE	1	
	B-2	OFFSET REPRODUCTION MACHINE	1	
COMMUNICATIONS CENTER	C-1	TELETYPE MACHINES	4	
	C-2	SWITCHBOARD	1	
	C-3	ON LINE CRYPTO EQUIPMENT	1	
	C-4	PAPER SHREDDER	1	
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	3	
	D-2	1 A 1 TELEPHONE CABINET	1	
RADAR SIMULATOR	R-1	RADAR SIGNAL SIMULATOR CONSOLE OA-2736/GPS-14	3	
	R-2	INDICATOR AZIMUTH & RANGE IP-207/URA-35	2	
	R-3	VOLTAGE REGULATOR	3	
	R-4	RADAR SIGNAL SIMULATOR SM-356-4LA18 & POWER SUPPLY	1	
	R-5	RADAR SIGNAL SIMULATOR AN/GPS-14	1	
	R-6	RADAR SIGNAL SIMULATOR	1	
	R-7	RADAR SIGNAL SIMULATOR	1	

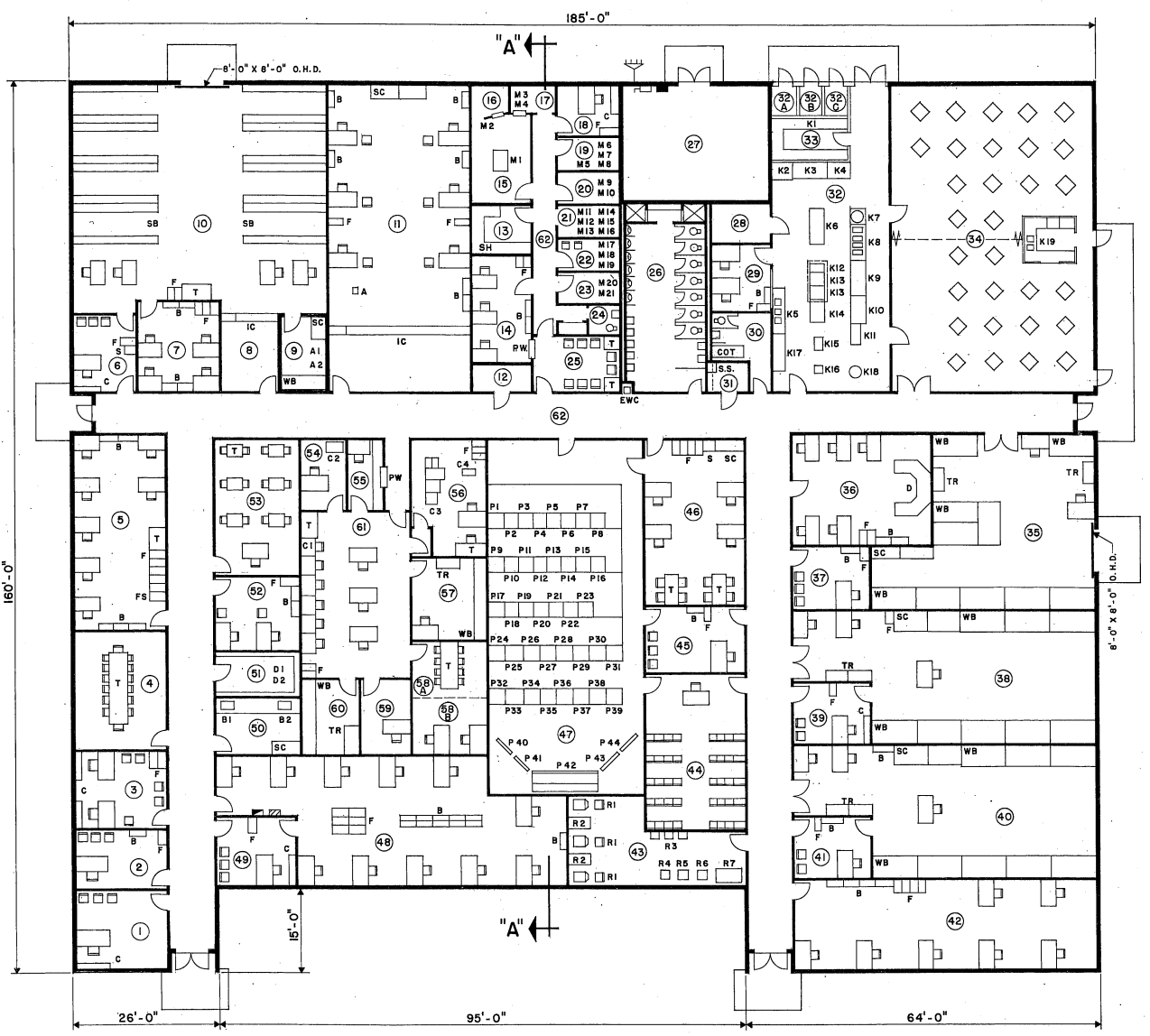
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	APPROX. DIMENSIONS
GRP OPERATIONS	P-1	M&I TECH, AMO & M&I SUPV. TABLE	1	48"L. x 96"W. x 32"H.
	P-2	AIR TRAFFIC REGULATION PPI (SCOPE)	2	36"L. x 26"W. x 42"H.
	P-3	GSA 12 TABLE - ATR ASSTS, ATC CC	3	34"L. x 34"W. x 30"H.
	P-4	GSA 12 TABLE - CSL	1	34"L. x 34"W. x 30"H.
	P-5	GSA 12 TABLE - INTEL DUTY OFF	1	34"L. x 34"W. x 30"H.
	P-6	WEAPONS ASGMT OFF PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	P-7	GSA 12 TABLE - WEAPONS ASGT TECH	1	34"L. x 34"W. x 30"H.
	P-8	GSA 12 TABLE - CONTROL TECH	1	34"L. x 34"W. x 30"H.
	P-9	GSA 12 TABLE - SENIOR DIR	1	34"L. x 34"W. x 30"H.
	P-10	MONROE FOLDING TABLE - BATTLE CMDR. & ADALO	1	30"L. x 96"W. x 30"H.
	P-11	GSA 12 TABLE - WEAPONS CONT TECH #1	1	34"L. x 34"W. x 30"H.
	P-12	WEAPONS CON #1 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	P-13	GSA 12 TABLE - WEAPONS CON TECH #2	1	34"L. x 34"W. x 30"H.
	P-14	WEAPONS CON #2 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	P-15	GSA 12 TABLE - WEAPONS CONT TECH #3	1	34"L. x 34"W. x 30"H.
	P-16	WEAPONS CON #3 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	P-17	GSA 12 TABLE - AIR SURV TECH	1	34"L. x 34"W. x 30"H.
	P-18	GSA 12 TABLE - AIR SURV OFF	1	34"L. x 34"W. x 30"H.
	P-19	AIR SURV SURV PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	P-20	OMD/TMD TELETYPE MACHINES	3	24"L. x 40"W. x 27"H.
	P-21	TABLE FOLDING - TMD COORDINATOR	1	24"L. x 36"W. x 28"H.
	P-22	GSA 12 TABLE - LATERAL RECORDER	1	34"L. x 34"W. x 30"H.
	P-23	GSA 12 TABLE - STA RECORDER/TELL	1	34"L. x 34"W. x 30"H.
	P-24	SURV SCOPE (PPI)	2	36"L. x 26"W. x 42"H.
	P-25	HRI SCOPE	1	36"L. x 26"W. x 42"H.
	P-26	OFFENSIVE MISSION DISPLAY BOARD	1	4"L. x 51"W. x 96"H.
	P-27	TACTICAL MISSION	1	4"L. x 51"W. x 96"H.
	P-28	VERTICAL PLOTTING BOARD	1	4"L. x 12"W. x 10'-4"H.
	P-29	STATUS DISPLAY BOARD	1	4"L. x 51"W. x 96"H.
	P-30	WX/REFUEL DISPLAY BOARD	1	4"L. x 51"W. x 96"H.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA AIR RESERVE FORCES COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR TACTICAL CONTROL SQUADRON (CRP) EQUIPMENT & ROOM SCHEDULES			
APPROVED		AD 28-16-21	
<i>George Z. Pothol</i> FOR CHIEF OF STAFF USAF		SCALE NONE	SHEET 2 OF 2
		DATE 6 NOV 1974	



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

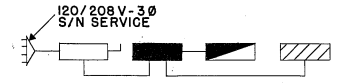
MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- A POLAROID CAMERA/COUNTER
- B PUBLICATIONS BOOKCASE
- C CREDENZA
- D STATUS CONSOLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINET
- F.S. FILE CABINET SAFE
- I.C. ISSUE COUNTER
- O.H.D. OVERHEAD DOOR
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BIN
- S.C. STORAGE CABINET
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	100.0	103.6	168.6	372.2
ESTIMATED DEMAND	100.0	98.4	151.7	350.0

WATER (GPM)	TOTAL
HOT	26
COLD	88
TOTAL	94

TOTAL (GPD)	SEWAGE (GPD)
27,750	18,750

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,210.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 100

AREA FOR PROGRAMMING GROSS AREA

28,175 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

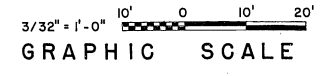
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY FOR
TWO TACTICAL CONTROL FLIGHT (TACF) & TACTICAL
CONTROL SQUADRON (CRS) (COLOCATED)
PLAN & SECTION

APPROVED
George J. Puckett, Jr.
FOR CHIEF OF STAFF USAF

AD 28-16-22
SCALE: 3/32" = 1'-0"
DATE: 6 NOV 1974 SHEET 1 OF 2



C2

ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ.FT.
1	SQUADRON COMMANDER'S OFFICE (CRC)	17'-0" x 14'-6"	247
2	ADMINISTRATION MANAGEMENT OFFICER (CRC)	17'-0" x 11'-0"	187
3	FLIGHT COMMANDER'S OFFICE (FACP)	17'-0" x 14'-6"	247
4	CONFERENCE ROOM	17'-0" x 21'-6"	366
5	SQUADRON/FLIGHT ADMINISTRATION OFFICE	17'-0" x 35'-6"	604
6	SUPPLY OFFICER	14'-0" x 12'-0"	168
7	SUPPLY ADMINISTRATION	15'-0" x 16'-6"	249
8	ISSUE ROOM	14'-0" x 11'-0"	154
9	ARMAMENT STORAGE VAULT/ARMAMENT MAINTENANCE	14'-0" x 8'-6"	119
10	UNIT SUPPLY STORAGE		1,915
11	SECURITY OPERATIONS	25'-6" x 56'-0"	1,428
12	STORAGE	10'-6" x 5'-6"	58
13	MEDICAL SUPPLY STORAGE	10'-6" x 9'-0"	95
14	MEDICAL ADMINISTRATION	10'-6" x 19'-6"	205
15	X-RAY	10'-6" x 15'-6"	163
16	CONTROL	7'-0" x 5'-6"	39
17	DARK ROOM	8'-6" x 5'-6"	47
18	DOCTOR'S OFFICE	11'-6" x 9'-6"	110
19	EXAMINATION ROOM	11'-6" x 6'-6"	75
20	AUDIO EXAMINATION ROOM	11'-6" x 6'-0"	69
21	LABORATORY	11'-6" x 6'-0"	69
22	EYE EXAMINATION ROOM	11'-6" x 6'-0"	69
23	EKG EXAMINATION ROOM	11'-6" x 6'-0"	69
24	LATRINE	11'-6" x 5'-6"	64
25	MEDICAL CENTER RECEPTION	10'-6" x 16'-6"	174
26	MEN'S LATRINE, SHOWER AND DRYING AREAS	15'-0" x 35'-0"	525
27	HEATING AND UTILITY ROOM	27'-0" x 21'-0"	567
28	WALK-IN REFRIGERATOR	12'-0" x 7'-6"	90
29	FOOD SERVICE SUPERVISOR'S OFFICE	12'-0" x 12'-0"	144
30	LADIES TOILET		133
31	JANITOR'S CLOSET	5'-6" x 7'-6"	43
32*	KITCHEN		1,057
33	KITCHEN STORAGE	14'-0" x 8'-6"	119
34	DINING ROOM/ASSEMBLY AREA	38'-0" x 56'-0"	2,108
35	GROUND RADIO RELAY MAINTENANCE		1,076
36	MAINTENANCE CONTROL/GCEM	25'-6" x 20'-6"	523
37	SQUADRON MAINTENANCE OFFICER	11'-6" x 14'-0"	161
38	GROUND RADIO MAINTENANCE		1,159
39	GROUND RADIO MAINTENANCE OFFICER	11'-6" x 14'-0"	161
40	GROUND RADAR MAINTENANCE SHOP		1,159
41	GROUND RADAR MAINTENANCE OFFICER	11'-6" x 14'-0"	161
42	MAINTENANCE MANAGEMENT	17'-0" x 55'-0"	935
43	RADAR SIMULATOR		418
44	CLASSROOM	18'-0" x 28'-6"	513
45	WEAPONS DIRECTOR STAFF OFFICER (CRC)	18'-0" x 12'-6"	225
46	CRC ADMINISTRATION	18'-0" x 30'-6"	549
47	CRC OPERATIONS CENTER	64'-6" x 28'-0"	1,806
48	PERSONNEL ADMINISTRATION		1,195
49	PERSONNEL OFFICER (CRC)	13'-0" x 14'-6"	189
50	REPRODUCTION ROOM	15'-0" x 10'-6"	158
51	FRAME ROOM	15'-0" x 8'-6"	127
52	AIR ADVISOR'S OFFICE	15'-0" x 13'-0"	195
53	TESTING ROOM	15'-0" x 25'-0"	375
54	SWITCHBOARD	13'-0" x 8'-6"	111
55	MESSAGE CENTER	13'-0" x 7'-0"	91
56	CRYPTO VAULT	14'-0" x 20'-6"	287
57	CRYPTO MAINTENANCE	14'-0" x 15'-6"	217
58A	CONFERENCE/CLASSROOM	14'-0" x 10'-6"	147
58B	RADIO OPERATIONS	14'-0" x 10'-6"	147
59	COMMUNICATIONS OFFICER	14'-0" x 9'-6"	133
60	TELETYPE MAINTENANCE	14'-0" x 11'-6"	161
61	COMMUNICATIONS CENTER	20'-0" x 30'-0"	600
62	CORRIDOR		3,410
	TOTAL		28,175

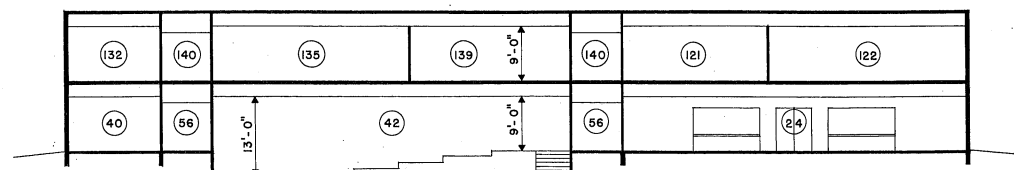
* 32A GARBAGE
32B CAN WASH
32C TRASH

SPECIAL EQUIPMENT SCHEDULE										
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.	ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	APPROX. DIMENSIONS	
KITCHEN & DINING	K-1	SHELVING	1		CRC OPERATIONS CENTER	P-1	GSA-12 TABLE - WCIF SAFE	1	34"L. x 34"W. x 30"H.	
	K-2	ICE MACHINE	1	4110-837-6441		P-2	GSA-12 TABLE - INST. D.O.	1	34"L. x 34"W. x 30"H.	
	K-3	REFRIGERATOR	1			P-3	GSA-12 TABLE - FDR. D.O.	1	34"L. x 34"W. x 30"H.	
	K-4	BREAD BOX	1	7320-776-3260		P-4	GSA-12 TABLE - OFF. D.O.	1	34"L. x 34"W. x 30"H.	
	K-5	3 BAY SINK	1	CONTRACT ITEM		P-5	GSA-12 TABLE - DEF. D.O.	1	34"L. x 34"W. x 30"H.	
	K-6	WORK TABLE (LARGE)	1	7320-205-1393		P-6	GSA-12 TABLE - CHIEF CUR. OPS.	1	34"L. x 34"W. x 30"H.	
	K-7	COFFEE URN	1	7310-242-8412		P-7	GSA-12 TABLE - DIR. LBT. OPS.	1	34"L. x 34"W. x 30"H.	
	K-8	STEAM TABLE	1	7310-271-1619		P-8	GSA-12 TABLE - AFCC	1	34"L. x 34"W. x 30"H.	
	K-9	WORK TABLE	1	7320-269-9231		P-9	M&I TECH	1	34"L. x 34"W. x 42"H.	
	K-10	TRAY & UTENSIL TABLE	1	7105-281-8617		P-10	M&I SURV TABLE	1	34"L. x 34"W. x 42"H.	
	K-11	COOLER	1	4110-266-9291		P-11	AMO TABLE	1	34"L. x 34"W. x 30"H.	
	K-12	DEEP FAT FRYER	1	7310-809-9390		P-12	AIR TRAFFIC REGULATION PPI (SCOPE)	1	36"L. x 26"W. x 42"H.	
	K-13	RANGE	2	7310-282-6626		P-13	GSA-12 TABLE - ATR ASST	1	34"L. x 34"W. x 30"H.	
	K-14	BAKING OVEN	1	7310-273-1880		P-14	GSA-12 TABLE - ATR ASST	1	34"L. x 34"W. x 30"H.	
	K-15	MIXING MACHINE	1	7320-205-2778		P-15	AIR TRAFFIC REGULATION PPI (SCOPE)	1	36"L. x 26"W. x 42"H.	
	K-16	PEELER	1	7320-343-2196		P-16	GSA-12 TABLE - CSL	1	34"L. x 34"W. x 30"H.	
	K-17	RACKS	1			P-17	GSA-12 TABLE - INTEL DUTY OFF	1	34"L. x 34"W. x 30"H.	
	K-18	STEAM KETTLE	1	7310-616-0056		P-18	WEAPONS ASGMT OFF PPI (SCOPE)	1	36"L. x 26"W. x 42"H.	
	K-19	DISWASHER	1	7320-271-1623		P-19	GSA-12 TABLE - WEAPONS ASGT TECH	1	34"L. x 34"W. x 30"H.	
MEDICAL CENTER	M-1	X-RAY MACHINE	1	6525-684-8745	P-20	GSA-12 TABLE - CONTROL TECH	1	34"L. x 34"W. x 30"H.		
	M-2	X-RAY SCREEN	1	6525-612-8025	P-21	GSA-12 TABLE - SENIOR DIR	1	34"L. x 34"W. x 30"H.		
	M-3	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400	P-22	BATTLE CMDR.	1			
	M-4	X-RAY FILM DRYER	1	6525-664-0858	P-23	MONROE FOLDING TABLE & ADALO	1	30"L. x 96"W. x 30"H.		
	M-5	LAVATORY	1		P-24	GSA-12 TABLE - WEAPONS CONT TECH #1	1	34"L. x 34"W. x 34"H.		
	M-6	MEDICAL CABINET	1		P-25	WEAPONS CONT #1 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.		
	M-7	EXAMINING TABLE	1	6530-709-3000	P-26	GSA-12 TABLE - WEAPONS CONT TECH #2	1	34"L. x 34"W. x 30"H.		
	M-8	EXAMINING CHAIR	1	6530-704-6010	P-27	WEAPONS CONT #2 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.		
	M-9	AUDIOMETER MACHINE	1	6515-782-2646	P-28	GSA-12 TABLE - WEAPONS CONT TECH #3	1	34"L. x 34"W. x 30"H.		
	M-10	AUDIOMETER BOOTH (5' x 5')	1	6515-065-9600	P-29	WEAPONS CONT #3 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.		
	M-11	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0460	P-30	GSA-12 TABLE - AIR SURV OFF	1	34"L. x 34"W. x 30"H.		
	M-12	CENTRIFUGE	1	6640-412-9008	P-31	AIR SURV PPI (SCOPE)	1	36"L. x 26"W. x 42"H.		
	M-13	SHAKING MACHINE	1		P-32	OMD REC/TELL	1	24"L. x 20"W. x 27"H.		
	M-14	REFRIGERATOR	1		P-33	TMD REC/TELL	1	24"L. x 20"W. x 27"H.		
	M-15	SINK AND WORK TOP	1		P-34	TABLE FOLDING - TMD	1	24"L. x 36"W. x 28"H.		
	M-16	MEDICAL CABINET	1		P-35	GSA-12 TABLE - LATERAL RECORDER	1	34"L. x 34"W. x 30"H.		
	M-17	EYE EXAMINATION MACHINE	1		P-36	GSA-12 TABLE - STA RECORDER/TELL	1	34"L. x 34"W. x 30"H.		
	M-18	COLOR TESTING MACHINE	1	6515-388-3700	P-37	SURV SCOPE (PPI)	1	36"L. x 26"W. x 42"H.		
	M-19	VISION TESTING MACHINE	1	6515-299-8048	P-38	HRI SCOPE	1	36"L. x 26"W. x 42"H.		
	M-20	EKG MACHINE	1	6515-085-3041	P-39	SURV SCOPE (PPI)	1	36"L. x 26"W. x 42"H.		
	M-21	COT (2'-6" x 6'-0")	1		P-40	OFFENSIVE MISSION DISPLAY BOARD	1	4"L. x 51"W. x 96"H.		
ARMAMENT STORAGE	A-1	RIFLE STORAGE RACK	9		P-41	TACTICAL MISSION DISPLAY BOARD	1	4"L. x 51"W. x 96"H.		
	A-2	PISTOL STORAGE RACK	2		P-42	VERTICAL PLOTTING BOARD	1	4"L. x 12"W. x 10.4"H.		
REPRODUCTION ROOM	B-1	XEROX REPRODUCTION MACHINE	1		P-43	STATUS DISPLAY BOARD	1	4"L. x 51"W. x 96"H.		
	B-2	OFFSET REPRODUCTION MACHINE	1		P-44	WX/REFUEL DISPLAY BOARD	1	4"L. x 51"W. x 96"H.		
COMMUNICATIONS CENTER	C-1	TELETYPE MACHINES	4							
	C-2	SWITCHBOARD	1							
	C-3	ON LINE CRYPTO EQUIPMENT	1							
	C-4	PAPER SHREDDER	1							
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	3							
	D-2	1A1 TELEPHONE CABINET	1							
RADAR SIMULATOR	R-1	RADAR SIGNAL SIMULATOR CONSOLE OA-2736/GPS-T4	3							
	R-2	INDICATOR AZIMUTH & RANGE IP-207/LPA-35	2							
	R-3	VOLTAGE REGULATOR	3							
	R-4	RADAR SIGNAL SIMULATOR SM-356-6LA18 & POWER SUPPLY	1							
	R-5	RADAR SIGNAL SIMULATOR AN/GPS-T4	1							
	R-6	RADAR SIGNAL SIMULATOR	1							
	R-7	RADAR SIGNAL SIMULATOR	1							

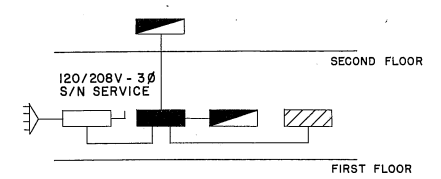
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY FOR TWO TACTICAL CONTROL FLIGHT (FACP) & TACTICAL CONTROL SQUADRON (CRC) (COLOCATED)			
EQUIPMENT & ROOM SCHEDULES			
APPROVED	AD 28-16-22		
<i>Henry J. Puthoff</i>			
FOR CHIEF OF STAFF USAF	SCALE NONE	SHEET 2 OF 2	
	DATE 6 Nov. 1974		

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SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE



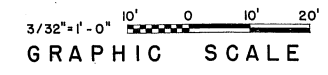
FIRST FLOOR PLAN
SCALE 3/32" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CREDENZA
- D CONSOLE
- D.T. DRAFTING TABLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINET
- I.C. ISSUE COUNTER
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINET
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	185.0	236.8	236.8	658.6
ESTIMATED DEMAND	185.0	224.9	213.2	623.1

WATER (GPM)	
HOT	31
COLD	108
TOTAL	118
TOTAL (GPD)	71,850
SEWAGE (GPD)	47,900

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 2,118.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F. D. B. & 78° F. D. B.
TONS OF REFRIGERATION 185

AREA FOR PROGRAMMING GROSS AREA
59,200 SQ. FT.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR
TAC CONTROL GROUP, TAC AIR CONTROL SQUADRON (TACC)
& TAC CONTROL SQUADRON (CRC)
FIRST FLOOR PLAN & SECTION

APPROVED
George J. Potholoff
FOR CHIEF OF STAFF USAF
DATE: 6 Nov. 1974

AD 28-16-23
SCALE: 3/32" = 1'-0"
SHEET 1 OF 3

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

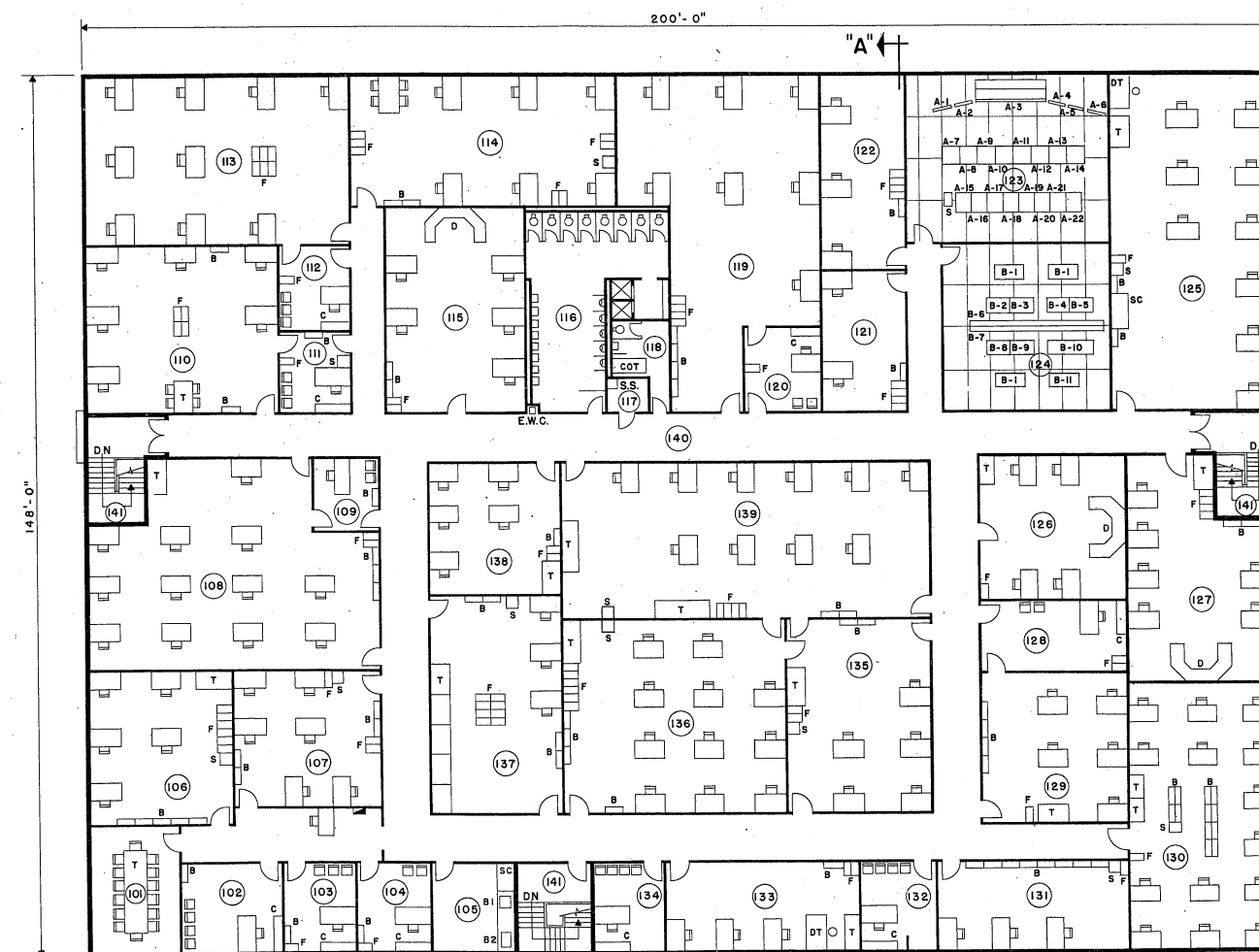
MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

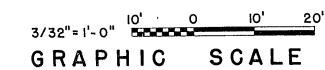
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.



SECOND FLOOR PLAN
SCALE 3/32" = 1'-0"



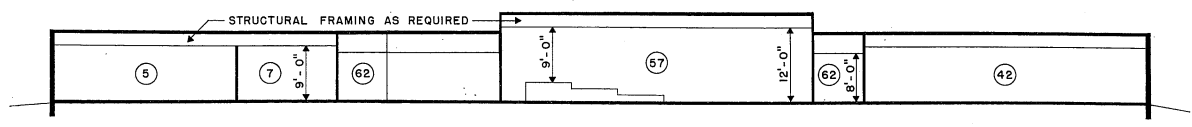
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

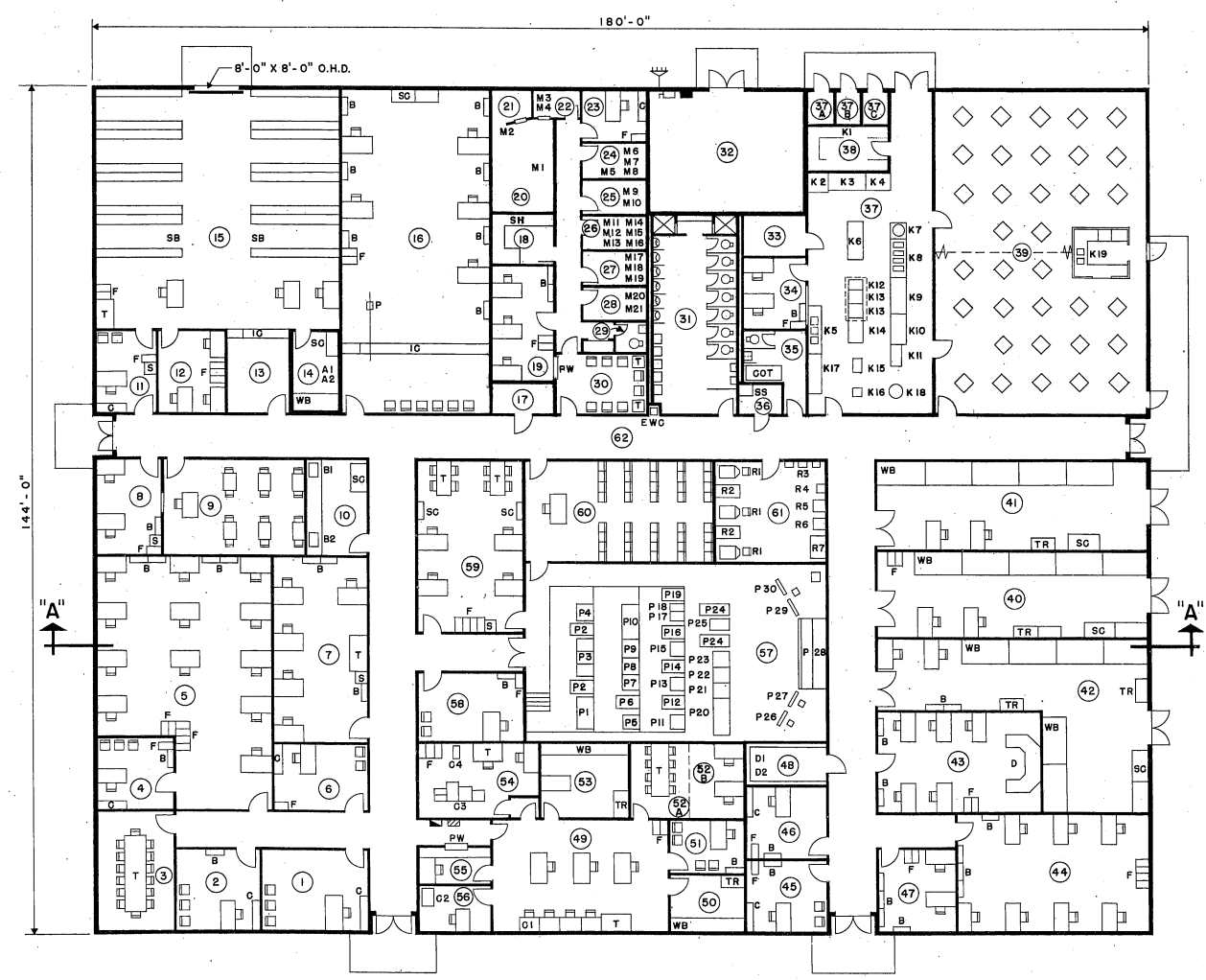
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR
TAC CONTROL GROUP, TAC AIR CONTROL SQUADRON (TACC)
& TAC CONTROL SQUADRON (CRC)

SECOND FLOOR PLAN
APPROVED
George J. Pottel
FOR CHIEF OF STAFF USAF
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974
AD 28-16-23
SHEET 2 OF 3

C2



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	92.0	90.7	155.4	338.1
ESTIMATED DEMAND	92.0	86.2	139.9	318.1

WATER (GPM)	
HOT	24
COLD	79
TOTAL	83
TOTAL (GPD)	33,750
SEWAGE (GPD)	22,500

HEATING REQUIREMENTS

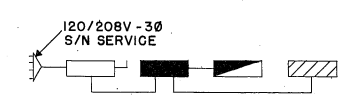
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,151.1

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 92

AREA FOR PROGRAMMING GROSS AREA

25,920 SQ. FT.



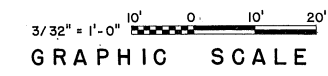
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CRENZIA
- D CONSOLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- I.C. ISSUE COUNTER
- O.H.D. OVER HEAD DOOR
- P CAMERA
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINET
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171 - 447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY
FOR A TACTICAL CONTROL SQUADRON (CRP)
COLOCATED WITH A TACTICAL CONTROL FLIGHT (FACP)
PLAN & SECTION

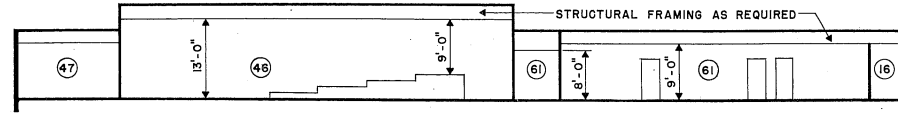
APPROVED
George J. Rutledge, Jr.
FOR CHIEF OF STAFF USAF
AD 28-16-24
SCALE: 3/32" = 1'-0"
DATE: 6 NOV. 1974
SHEET 1 OF 2

ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ.FT.
1	SQUADRON COMMANDER'S OFFICE (CRP)	18'-6" x 15'-0"	277
2	SQUADRON ADMINISTRATION MANAGEMENT OFFICER (CRP)	14'-9" x 15'-0"	221
3	CONFERENCE ROOM	13'-9" x 21'-0"	289
4	PERSONNEL OFFICER	13'-9" x 12'-6"	172
5	PERSONNEL ADMINISTRATION		1,147
6	FLIGHT COMMANDER'S OFFICE (FACP)	16'-6" x 11'-6"	190
7	SQUADRON/FLIGHT ADMINISTRATION OFFICE	16'-6" x 31'-9"	524
8	AIR ADVISORS' OFFICE	11'-9" x 16'-9"	197
9	TESTING ROOM	24'-6" x 16'-9"	410
10	REPRODUCTION ROOM	10'-9" x 16'-9"	180
11	SUPPLY OFFICER	11'-0" x 14'-6"	160
12	SUPPLY ADMINISTRATION	11'-9" x 14'-6"	170
13	ARMAMENT STORAGE/ARMAMENT MAINTENANCE	11'-0" x 14'-6"	160
14	UNIT SUPPLY STORAGE	8'-6" x 14'-6"	123
15	ISSUE ROOM	42'-3" x 41'-6"	1,753
16	SECURITY OPERATIONS	25'-6" x 56'-0"	1,428
17	STORAGE	11'-3" x 5'-6"	63
18	MEDICAL SUPPLY STORAGE	11'-3" x 9'-0"	100
19	MEDICAL ADMINISTRATION	11'-3" x 20'-0"	225
20	X-RAY		180
21	CONTROL		40
22	DARK ROOM	8'-3" x 5'-3"	43
23	DOCTOR'S OFFICE	11'-3" x 9'-6"	107
24	EXAMINATION ROOM	11'-3" x 6'-3"	70
25	AUDIO EXAMINATION ROOM	11'-3" x 6'-0"	67
26	LABORATORY	11'-3" x 6'-0"	67
27	EYE EXAMINATION ROOM	11'-3" x 6'-0"	67
28	EKG EXAMINATION ROOM	11'-3" x 6'-0"	67
29	LATRINE	6'-0" x 5'-6"	33
30	MEDICAL CENTER RECEPTION	15'-9" x 10'-9"	169
31	MEN'S LATRINE, SHOWER & DRYING AREAS	15'-8" x 34'-6"	540
32	HEATING & UTILITY ROOM	27'-0" x 21'-6"	580
33	WALK-IN REFRIGERATOR	11'-4" x 7'-6"	85
34	FOOD SERVICE SUPERVISOR'S OFFICE	11'-4" x 12'-6"	142
35	LADIES TOILET		124
36	JANITOR'S CLOSET	7'-4" x 5'-6"	40
37	KITCHEN		1,083
38	KITCHEN STORAGE	14'-3" x 8'-6"	121
39	DINING ROOM/ASSEMBLY AREA	37'-0" x 56'-0"	2,072
40	GROUND RADIO MAINTENANCE	47'-0" x 15'-0"	705
41	GROUND RADIO RELAY MAINTENANCE	47'-0" x 15'-6"	728
42	GROUND RADAR MAINTENANCE		920
43	MAINTENANCE CONTROL/GCEM	28'-0" x 17'-6"	490
44	MAINTENANCE MANAGEMENT	33'-4" x 20'-6"	683
45	SQUADRON MAINTENANCE OFFICER	14'-6" x 12'-9"	185
46	GROUND RADAR MAINTENANCE OFFICER	14'-6" x 12'-6"	181
47	GROUND RADIO MAINTENANCE OFFICER	13'-9" x 15'-0"	205
48	FRAME ROOM	14'-6" x 7'-6"	109
49	COMMUNICATIONS CENTER	30'-0" x 19'-9"	592
50	TELETYPE MAINTENANCE	13'-0" x 10'-3"	133
51	COMMUNICATIONS OFFICER	13'-0" x 9'-6"	123
52A	CONFERENCE ROOM/CLASSROOM	9'-9" x 13'-0"	126
52B	RADIO OPERATIONS	9'-9" x 13'-0"	126
53	CRYPTO MAINTENANCE	15'-0" x 13'-0"	195
54	CRYPTO VAULT	21'-0" x 13'-0"	273
55	MESSAGE CENTER	12'-6" x 6'-6"	81
56	SWITCHBOARD	12'-6" x 8'-6"	106
57	CRP OPERATIONS CENTER	51'-6" x 30'-9"	1,583
58	WEAPONS DIRECTOR STAFF OFFICER (CRP)	18'-6" x 12'-0"	222
59	CRP ADMINISTRATION	18'-6" x 30'-0"	555
60	CLASSROOM	32'-6" x 17'-6"	568
61	RADAR SIMULATOR	19'-0" x 17'-6"	332
62	CORRIDOR		3,213
	TOTAL		25,920

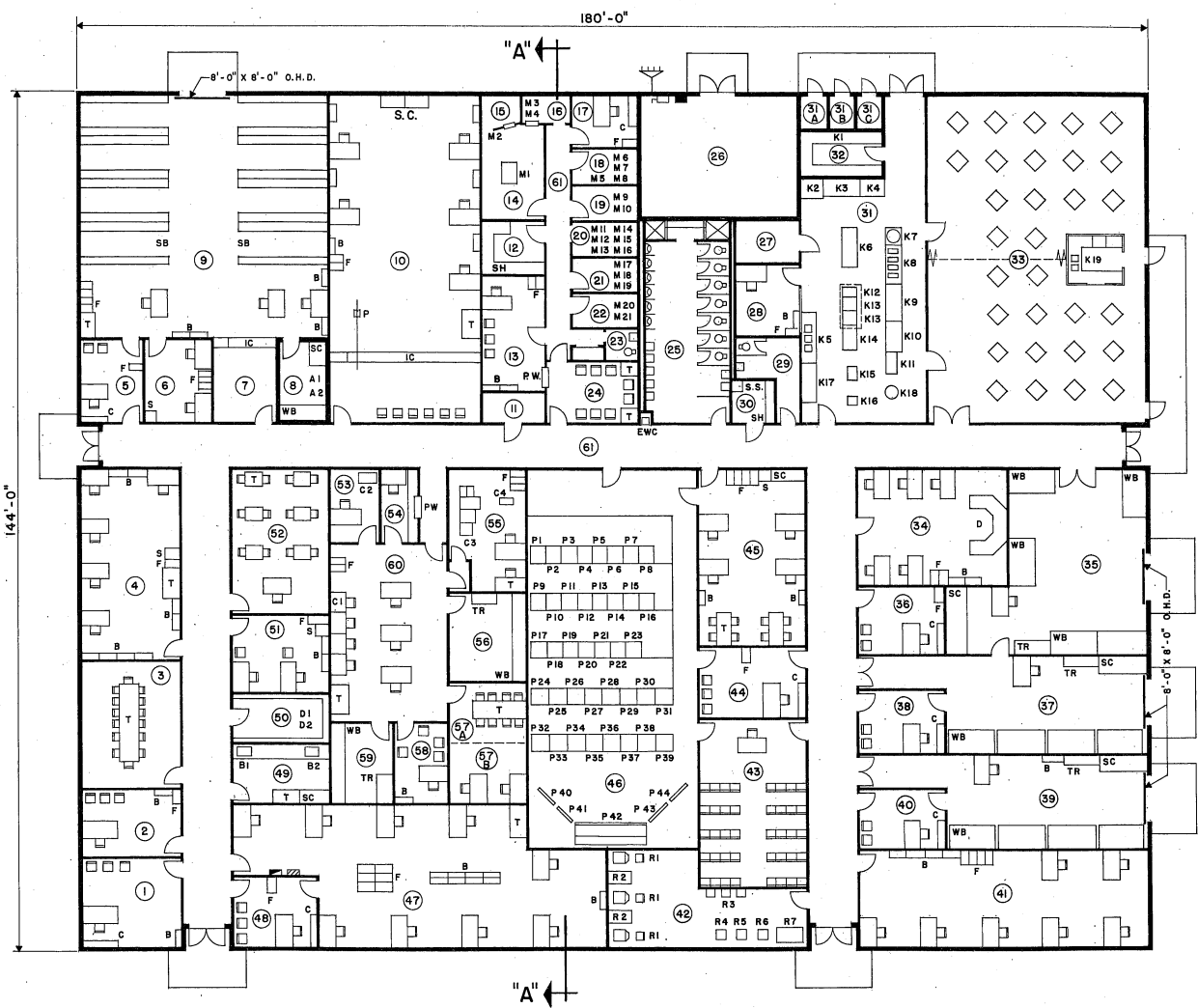
SPECIAL EQUIPMENT SCHEDULE									
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.	ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	APPROX. DIMENSIONS
KITCHEN & DINING	K-1	SHELVING	1		CRP OPERATIONS	P-1	M&I TECH., AMO & M&I SURV. TABLE	1	48"L. x 96"W. x 32"H.
	K-2	ICE MACHINE	1	4110-837-6441		P-2	AIR TRAFFIC REGULATION PPI (SCOPE)	2	36"L. x 26"W. x 42"H.
	K-3	REFRIGERATOR	1			P-3	GSA 12 TABLE - ATR ASSTS, ATR CC	3	34"L. x 34"W. x 30"H.
	K-4	BREAD BOX	1	7320-776-3260		P-4	GSA 12 TABLE - CSL	1	34"L. x 34"W. x 30"H.
	K-5	3 BAY SINK	1	CONTRACT ITEM		P-5	GSA 12 TABLE - INTEL DUTY OFF	1	34"L. x 34"W. x 30"H.
	K-6	WORK TABLE (LARGE)	1	7320-205-1393		P-6	WEAPONS ASGMT OFF PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	K-7	COFFEE URN	1	7310-242-8412		P-7	GSA 12 TABLE - WEAPONS ASGT TECH	1	34"L. x 34"W. x 30"H.
	K-8	STEAM TABLE	1	7310-271-1619		P-8	GSA 12 TABLE - CONTROL TECH	1	34"L. x 34"W. x 30"H.
	K-9	WORK TABLE	1	7320-269-9231		P-9	GSA 12 TABLE - SENIOR DIR	1	34"L. x 34"W. x 30"H.
	K-10	TRAY & UTENSIL TABLE	1	7105-281-8617		P-10	MONROE FOLDING TABLE - BATTLE CMDR. & ADALO	1	30"L. x 96"W. x 30"H.
	K-11	COOLER	1	4110-266-9291		P-11	GSA 12 TABLE - WEAPONS CONT TECH #1	1	34"L. x 34"W. x 30"H.
	K-12	DEEP FAT DRYER	1	7310-809-9390		P-12	WEAPONS CON #1 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	K-13	RANGE	2	7310-282-6626		P-13	GSA 12 TABLE - WEAPONS CONT TECH #2	1	34"L. x 34"W. x 30"H.
	K-14	BAKING OVEN	1	7310-273-1880		P-14	WEAPONS CONT #2 PPI (SCOPE)	1	36"L. x 36"W. x 42"H.
	K-15	MIXING MACHINE	1	7320-205-2778		P-15	GSA 12 TABLE - WEAPONS CONT TECH #3	1	34"L. x 34"W. x 30"H.
	K-16	FEELER	1	7320-343-2196		P-16	WEAPONS CONT #3 PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
	K-17	RACKS	1			P-17	GSA 12 TABLE - AIR SURV TECH	1	34"L. x 34"W. x 30"H.
	K-18	STEAM KETTLE	1	7310-616-0056		P-18	GSA 12 TABLE - AIR SURV OFF	1	34"L. x 34"W. x 30"H.
	K-19	DISHWASHER	1	7320-271-1623		P-19	AIR SURV SUPV PPI (SCOPE)	1	36"L. x 26"W. x 42"H.
MEDICAL CENTER	M-1	X-RAY MACHINE	1	6525-694-8745	P-20	OMD/TMD TELETYPE MACHINES	3	24"L. x 40"W. x 27"H.	
	M-2	X-RAY SCREEN	1	6525-612-8025	P-21	TABLE FOLDING - TMD COORDINATOR	1	24"L. x 36"W. x 28"H.	
	M-3	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400	P-22	GSA 12 TABLE - LATERAL RECORDER	1	34"L. x 34"W. x 30"H.	
	M-4	X-RAY FILM DRYER	1	6526-664-0858	P-23	GSA 12 TABLE - STA RECORDER/TELL	1	34"L. x 34"W. x 30"H.	
	M-5	LAVATORY	1		P-24	SURV SCOPE (PPI)	2	36"L. x 26"W. x 42"H.	
	M-6	MEDICAL CABINET	1		P-25	HRI SCOPE	1	36"L. x 26"W. x 42"H.	
	M-7	EXAMINING TABLE	1	6530-709-3000	P-26	OFFENSIVE MISSION DISPLAY BOARD	1	4"L. x 51"W. x 96"H.	
	M-8	EXAMINING CHAIR	1	6530-704-6010	P-27	TACTICAL MISSION	1	4"L. x 51"W. x 96"H.	
	M-9	AUDIOMETER MACHINE	1	6515-782-2646	P-28	VERTICAL PLOTTING BOARD	1	4"L. x 12"W. x 10'-4"H.	
	M-10	AUDIOMETER BOOTH (5' x 5')	1	6515-065-9600	P-29	STATUS DISPLAY BOARD	1	4"L. x 51"W. x 96"H.	
	M-11	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0460	P-30	WX/REFUEL DISPLAY BOARD	1	4"L. x 51"W. x 96"H.	
	M-12	CENTRIFUGE	1	6640-412-9008					
M-13	SHAKING MACHINE	1							
M-14	REFRIGERATOR	1							
M-15	SINK AND WORK TOP	1							
M-16	MEDICAL CABINET	1							
M-17	EYE EXAMINATION MACHINE	1							
M-18	COLOR TESTING MACHINE	1	6515-388-3700						
M-19	VISION TESTING MACHINE	1	6515-299-8048						
M-20	EKG MACHINE	1	6515-085-3041						
M-21	COT (2'-6" x 6'-0")	1							
ARMAMENT STORAGE	A-1	RIFLE STORAGE RACK	9						
	A-2	PISTOL STORAGE RACK	2						
REPRODUCTION ROOM	B-1	XEROX REPRODUCTION MACHINE	1						
	B-2	OFFSET REPRODUCTION MACHINE	1						
COMMUNICATIONS CENTER	C-1	TELETYPE MACHINES	4						
	C-2	SWITCHBOARD	1						
	C-3	ON LINE CRYPTO EQUIPMENT	1						
	C-4	PAPER SHREDDER	1						
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	3						
	D-2	1A1 TELEPHONE CABINET	1						
RADAR SIMULATOR	R-1	RADAR SIGNAL SIMULATOR CONSOLE OA-2736/GPS-T4	3						
	R-2	INDICATOR AZIMUTH & RANGE IP-207/PA-35	2						
	R-3	VOLTAGE REGULATOR	3						
	R-4	RADAR SIGNAL SIMULATOR SM-356-8LA18 & POWER SUPPLY	1						
	R-5	RADAR SIGNAL SIMULATOR AN/GPS-T4	1						
	R-6	RADAR SIGNAL SIMULATOR	1						
	R-7	RADAR SIGNAL SIMULATOR	1						

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA AIR RESERVE FORCES COMMUNICATIONS/ELECTRONICS TRAINING FACILITY FOR A TACTICAL CONTROL SQUADRON (CRP) COLOCATED WITH A TACTICAL CONTROL FLIGHT (FACP) EQUIPMENT & ROOM SCHEDULES			
APPROVED		AD 28-16-24	
FOR CHIEF OF STAFF USAF		SCALE: NONE	SHEET 2 OF 2
		DATE: 6 Nov. 1974	



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY	(KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	92.3		90.72	155.5	338.5
ESTIMATED DEMAND	92.3		85.2	139.9	317.5
WATER	(GPM)				
HOT	20				
COLD	78				
TOTAL	82				
TOTAL	(GPD)	33,750			
SEWAGE	(GPD)	22,500			

HEATING REQUIREMENTS

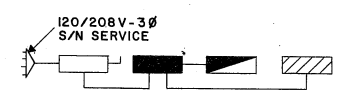
OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 1,166.7

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D. B. & 78° F. W. B.
TONS OF REFRIGERATION 92.3

AREA FOR PROGRAMMING GROSS AREA

25,920 SQ. FT.



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CREDENZA
- D CONSOLE
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- I.C. ISSUE COUNTER
- O.H.D. OVERHEAD DOOR
- P CAMERA
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINET
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- W.B. WORK BENCH

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

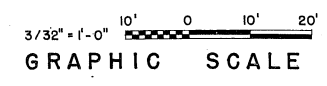
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
COMMUNICATIONS / ELECTRONICS TRAINING FACILITY FOR TACTICAL CONTROL SQUADRON (CRG)
PLAN & SECTION

APPROVED *George P. Rothwell, Jr.*
FOR CHIEF OF STAFF USAF

AD 28-16-25
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 2



C2

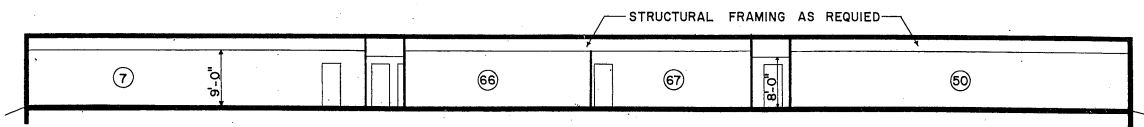
ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	SQUADRON COMMANDER'S OFFICE (CRC)	15'-6" x 17'-6"	271
2	SQUADRON ADMINISTRATION MANAGEMENT OFFICER	11'-6" x 17'-6"	201
3	CONFERENCE ROOM	21'-0" x 17'-6"	369
4	SQUADRON ADMINISTRATION OFFICE	33'-0" x 17'-6"	579
5	SUPPLY OFFICER	11'-0" x 14'-0"	154
6	SUPPLY ADMINISTRATION OFFICE	11'-0" x 14'-0"	154
7	ISSUE ROOM	11'-6" x 14'-0"	161
8	ARMAMENT STORAGE VAULT/ARMAMENT MAINTENANCE	9'-0" x 14'-0"	126
9	UNIT SUPPLY STORAGE	42'-6" x 42'-0"	1,785
10	SECURITY OPERATIONS	25'-6" x 56'-0"	1,428
11	STORAGE	5'-6" x 10'-6"	59
12	MEDICAL SUPPLY STORAGE	9'-0" x 10'-6"	95
13	MEDICAL ADMINISTRATION	20'-0" x 10'-6"	210
14	X-RAY	16'-0" x 10'-6"	168
15	CONTROL	5'-6" x 7'-0"	39
16	DARK ROOM	5'-6" x 8'-6"	48
17	DOCTOR'S OFFICE	9'-6" x 11'-6"	109
18	EXAMINATION ROOM	6'-0" x 11'-6"	69
19	AUDIO EXAMINATION ROOM	6'-0" x 11'-6"	69
20	LABORATORY	6'-0" x 11'-6"	69
21	EYE EXAMINATION ROOM	6'-0" x 11'-6"	69
22	EKG EXAMINATION ROOM	6'-0" x 11'-6"	69
23	LATRINE	6'-0" x 11'-6"	69
24	MEDICAL CENTER RECEPTION	10'-6" x 16'-6"	174
25	MEN'S LATRINE, SHOWER AND DRYING AREA	15'-0" x 35'-0"	525
26	HEATING AND UTILITY ROOM	21'-0" x 27'-0"	567
27	WALK-IN REFRIGERATOR	8'-0" x 12'-0"	96
28	FOOD SERVICE SUPERVISOR'S OFFICE	12'-0" x 12'-0"	144
29	LADIES TOILET		120
30	JANITOR'S CLOSET	8'-0" x 7'-6"	60
31*	KITCHEN		1,040
32	KITCHEN STORAGE	14'-0" x 8'-6"	119
33	DINING HALL	37'-0" x 56'-0"	2,072
34	MAINTENANCE CONTROL/GCEM	20'-0" x 26'-0"	520
35	GROUND RADIO RELAY EQUIPMENT SHOP		868
36	MAINTENANCE OFFICER	12'-0" x 15'-0"	180
37	GROUND RADIO MAINTENANCE SHOP		620
38	GROUND RADIO MAINTENANCE OFFICER	11'-0" x 15'-0"	165
39	GROUND RADAR MAINTENANCE SHOP		612
40	GROUND RADAR MAINTENANCE OFFICER	11'-6" x 15'-0"	174
41	MAINTENANCE MANAGEMENT	49'-0" x 17'-0"	833
42	RADAR SIMULATOR		448
43	CLASSROOM	28'-6" x 18'-6"	528
44	WEAPONS DIRECTOR STAFF OFFICER	12'-6" x 18'-6"	232
45	CRC ADMINISTRATION	30'-6" x 18'-6"	564
46	CRC OPERATIONS CENTER	29'-0" x 64'-6"	1,870
47	PERSONNEL ADMINISTRATION		1,258
48	PERSONNEL OFFICER (CRC)	12'-6" x 15'-0"	188
49	REPRODUCTION ROOM	10'-6" x 17'-0"	177
50	FRAME ROOM	8'-6" x 17'-0"	146
51	AIR ADVISOR'S OFFICE	13'-0" x 17'-0"	221
52	TESTING ROOM	25'-0" x 17'-0"	425
53	SWITCHBOARD ROOM	8'-6" x 13'-0"	110
54	MESSAGE CENTER	7'-6" x 13'-0"	98
55	CRYPTO VAULT	20'-6" x 13'-0"	268
56	CRYPTO MAINTENANCE	15'-6" x 13'-0"	201
57	RADIO OPERATORS AND CONFERENCE ROOM/CLASSROOM	21'-0" x 13'-0"	273
58	COMMUNICATIONS OFFICER	9'-0" x 14'-0"	126
59	TELETYPE MAINTENANCE	11'-0" x 14'-0"	154
60	COMMUNICATIONS CENTER	30'-0" x 20'-0"	600
61	CORRIDOR		2,756
	TOTAL		25,920

* 31A GARBAGE
31B CAN WASH
31C TRASH

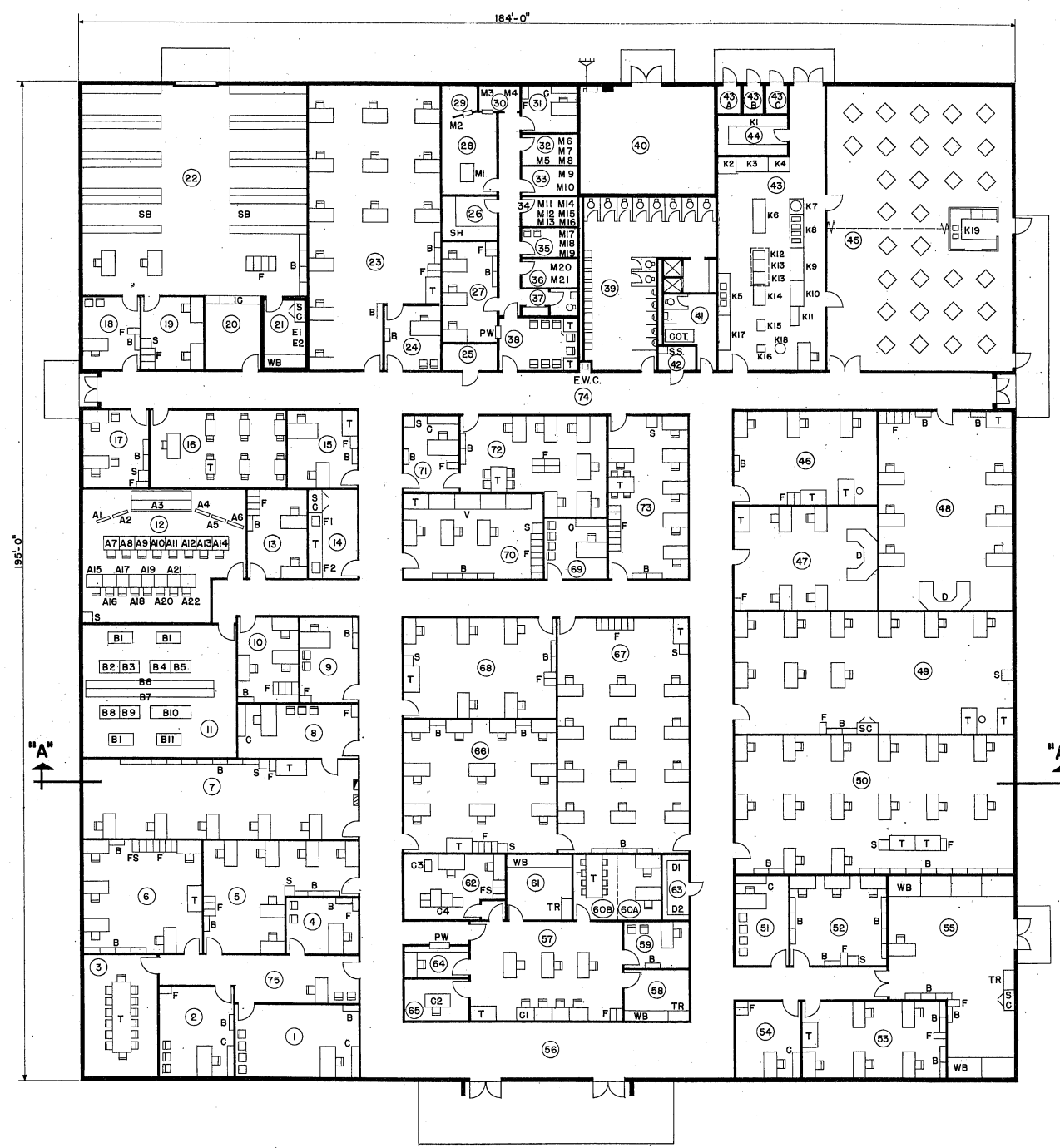
SPECIAL EQUIPMENT SCHEDULE											
ROOM				NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.	ROOM			
KITCHEN & DINING								CRC OPERATIONS CENTER			
K-1	SHELVING	1		P-1	GSA-12 TABLE - WCIF SAFE	1		34"L. x 34"W. x 30"H.			
K-2	ICE MACHINE	1	4110-857-6441	P-2	GSA-12 TABLE - INST. D. O.	1		34"L. x 34"W. x 30"H.			
K-3	REFRIGERATOR	1		P-3	GSA-12 TABLE - FTR. D. O.	1		34"L. x 34"W. x 30"H.			
K-4	BREAD BOX	1	7320-776-3260	P-4	GSA-12 TABLE - OFF. D. O.	1		34"L. x 34"W. x 30"H.			
K-5	3 BAY SINK	1	CONTRACT ITEM	P-5	GSA-12 TABLE - DEF. D. O.	1		34"L. x 34"W. x 30"H.			
K-6	WORK TABLE (LARGE)	1	7320-205-1393	P-6	GSA-12 TABLE - CHIEF CUR. OPS.	1		34"L. x 34"W. x 30"H.			
K-7	COFFEE URN	1	7310-242-8412	P-7	GSA-12 TABLE - DIR. LBT. OPS.	1		34"L. x 34"W. x 30"H.			
K-8	STEAM TABLE	1	7310-271-1619	P-8	GSA-12 TABLE - AFCC	1		34"L. x 34"W. x 30"H.			
K-9	WORK TABLE	1	7320-269-9231	P-9	M&I TECH	1		34"L. x 34"W. x 42"H.			
K-10	TRAY & UTENSIL TABLE	1	7105-281-8617	P-10	M&I SURV TABLE	1		34"L. x 34"W. x 42"H.			
K-11	COOLER	1	4110-266-9291	P-11	AMO TABLE	1		34"L. x 34"W. x 30"H.			
K-12	DEEP FAT FRYER	1	7310-809-9390	P-12	AIR TRAFFIC REGULATION PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
K-13	RANGE	2	7310-282-6626	P-13	GSA-12 TABLE - ATR ASST	1		34"L. x 34"W. x 30"H.			
K-14	BAKING OVEN	1	7310-273-1880	P-14	GSA-12 TABLE - ATR ASST	1		34"L. x 34"W. x 30"H.			
K-15	MIXING MACHINE	1	7320-205-2778	P-15	AIR TRAFFIC REGULATION PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
K-16	PEELER	1	7320-340-2196	P-16	GSA-12 TABLE - CSL	1		34"L. x 34"W. x 30"H.			
K-17	RACKS	1		P-17	GSA-12 TABLE - INTEL DUTY OFF	1		34"L. x 34"W. x 30"H.			
K-18	STEAM KETTLE	1	7310-616-0056	P-18	WEAPONS ASGMT OFF PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
K-19	DISHWASHER	1	7320-271-1623	P-19	GSA-12 TABLE - WEAPONS ASGT TECH	1		34"L. x 34"W. x 30"H.			
M-1	X-RAY MACHINE	1	6525-684-8745	P-20	GSA-12 TABLE - CONTROL TECH	1		34"L. x 34"W. x 30"H.			
M-2	X-RAY SCREEN	1	6525-612-8025	P-21	GSA-12 TABLE - SENIOR DIR	1		34"L. x 34"W. x 30"H.			
M-3	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400	P-22	BATTLE CMDR.	1					
M-4	X-RAY FILM DRYER	1	6525-664-0858	P-23	MONROE FOLDING TABLE & ADALO	1		30"L. x 8"W. x 30"H.			
M-5	LAVATORY	1		P-24	GSA-12 TABLE - WEAPONS CONT TECH #1	1		34"L. x 34"W. x 34"H.			
M-6	MEDICAL CABINET	1		P-25	WEAPONS CONT #1 PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
M-7	EXAMINING TABLE	1	6530-709-3000	P-26	GSA-12 TABLE - WEAPONS CONT TECH #2	1		34"L. x 34"W. x 30"H.			
M-8	EXAMINING CHAIR	1	6530-704-6010	P-27	WEAPONS CONT #2 PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
M-9	AUDIOMETER MACHINE	1	6515-782-2646	P-28	GSA-12 TABLE - WEAPONS CONT TECH #2	1		34"L. x 34"W. x 30"H.			
M-10	AUDIOMETER BOOTH (5' x 5')	1	6515-065-9600	P-29	WEAPONS CONT #3 PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
M-11	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0460	P-30	GSA-12 TABLE - AIR SURV OFF	1		34"L. x 34"W. x 30"H.			
M-12	CENTRIFUGE	1	6640-412-9008	P-31	AIR SURV PPI (SCOPE)	1		36"L. x 26"W. x 42"H.			
M-13	SHAKING MACHINE	1		P-32	OMD REC/TELL	1		24"L. x 20"W. x 27"H.			
M-14	REFRIGERATOR	1		P-33	TMD REC/TELL	1		24"L. x 20"W. x 27"H.			
M-15	SINK AND WORK TOP	1		P-34	TABLE FOLDING - TMD	1		24"L. x 36"W. x 28"H.			
M-16	MEDICAL CABINET	1		P-35	GSA-12 TABLE - LATERAL RECORDER	1		34"L. x 34"W. x 30"H.			
M-17	EYE EXAMINATION MACHINE	1		P-36	GSA-12 TABLE - STA RECORDER/TELL	1		34"L. x 34"W. x 30"H.			
M-18	COLOR TESTING MACHINE	1	6515-388-3700	P-37	SURV SCOPE (PPI)	1		36"L. x 26"W. x 42"H.			
M-19	VISION TESTING MACHINE	1	6515-299-8048	P-38	HRI SCOPE	1		36"L. x 26"W. x 42"H.			
M-20	EKG MACHINE	1	6515-085-3041	P-39	SURV SCOPE (PPI)	1		36"L. x 26"W. x 42"H.			
M-21	COT (2'-6" x 6'-0")	1		P-40	OFFENSIVE MISSION DISPLAY BOARD	1		4"L. x 51"W. x 8"H.			
A-1	RIFLE STORAGE RACK	9		P-41	TACTICAL MISSION DISPLAY BOARD	1		4"L. x 51"W. x 8"H.			
A-2	PISTOL STORAGE RACK	2		P-42	VERTICAL PLOTTING BOARD	1		4"L. x 12"W. x 10.4"H.			
B-1	XEROX REPRODUCTION MACHINE	1		P-43	STATUS DISPLAY BOARD	1		4"L. x 51"W. x 8"H.			
B-2	OFFSET REPRODUCTION MACHINE	1		P-44	WX/REFUEL DISPLAY BOARD	1		4"L. x 51"W. x 8"H.			
C-1	TELETYPE MACHINES	4									
C-2	SWITCHBOARD	1									
C-3	ON LINE CRYPTO EQUIPMENT	1									
C-4	PAPER SHREDDER	1									
D-1	MAIN DISTRIBUTION FRAMES	3									
D-2	1 A 1 TELEPHONE CABINET	1									
R-1	RADAR SIGNAL SIMULATOR CONSOLE OA-2736/GPS-T4	3									
R-2	INDICATOR AZIMUTH & RANGE IP-207/UPA-35	2									
R-3	VOLTAGE REGULATOR	3									
R-4	RADAR SIGNAL SIMULATOR SM-356-6LA18 & POWER SUPPLY	1									
R-5	RADAR SIGNAL SIMULATOR AN/GPS-T4	1									
R-6	RADAR SIGNAL SIMULATOR	1									
R-7	RADAR SIGNAL SIMULATOR	1									

CATEGORY CODE NO. 171-447.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA AIR RESERVE FORCES COMMUNICATIONS/ELECTRONICS TRAINING FACILITY FOR TACTICAL CONTROL SQUADRON (CRC) EQUIPMENT & ROOM SCHEDULES			
APPROVED		AD 28-16-25	
<i>Henry J. Pustal</i> FOR CHIEF OF STAFF USAF		SCALE: NONE	SHEET 2 OF 2
		DATE: 6 Nov. 1974	



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		112.0	143.5	215.3	470.8
ESTIMATED DEMAND		112.0	136.4	193.8	442.2
WATER (GPM)					
HOT	25				
COLD	82				
TOTAL	90				
TOTAL (GPD) 38,250					
SEWAGE	(GPD) 25,500				

HEATING REQUIREMENTS

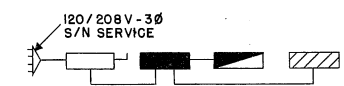
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,545.1

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 112

AREA FOR PROGRAMMING GROSS AREA

35,880 SQ. FT.



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B PUBLICATIONS BOOKCASE
- C CRENDENZA
- D CONSOLE
- E.W.C. ELECTRIC WATER COOLER
- F.C. FILE CABINET
- F.S. FILE SAFE
- I.C. ISSUE COUNTER
- P.W. PASS WINDOW
- S SAFE
- S.B. STORAGE BINS
- S.C. STORAGE CABINET
- SH. SHELVES
- S.S. SERVICE SINK
- T TABLE
- T.R. TOOL BOX RACK
- V VIEW GRAPH

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

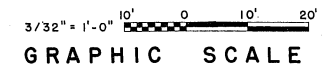
CATEGORY CODE NO. 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY
FOR A TACTICAL CONTROL SQUADRON (TACC)
COLOCATED WITH A TACTICAL CONTROL GROUP

PLAN A SECTION



3/32" = 1'-0" GRAPHIC SCALE

APPROVED: *George J. Pothol*
FOR CHIEF OF STAFF USAF

AD 28-16-26
SCALE: 3/32" = 1'-0" SHEET 1 OF 2
DATE: 6 Nov. 1974

ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA, SQ.FT.
1	GROUP COMMANDER'S OFFICE	24'-0" x 15'-6"	384
2	GROUP VICE COMMANDER'S OFFICE	15'-0" x 18'-9"	281
3	CONFERENCE ROOM	15'-3" x 24'-9"	377
4	ADMINISTRATION OFFICER'S OFFICE	14'-6" x 11'-3"	165
5	GROUP COMMAND ADMINISTRATION OFFICE		533
6	GROUP ADMINISTRATION OFFICE	24'-0" x 22'-6"	540
7	SQUADRON ADMINISTRATION OFFICE	55'-0" x 15'-9"	866
8	SQUADRON COMMANDER'S OFFICE	24'-0" x 10'-8"	256
9	JUDGE ADVOCATE'S OFFICE	12'-0" x 17'-2"	206
10	CURRENT PLANS OFFICER	12'-0" x 17'-2"	206
11	CURRENT PLANS	31'-0" x 24'-6"	760
12	CURRENT OPERATIONS		865
13	CURRENT OPERATIONS OFFICER	12'-0" x 19'-6"	234
14	REPRODUCTION ROOM	10'-0" x 19'-6"	195
15	CHAPLAIN	14'-6" x 15'-4"	220
16	TESTING ROOM	27'-0" x 15'-4"	414
17	AIR FORCE ADVISOR	13'-8" x 15'-4"	209
18	SQUADRON SUPPLY OFFICER	12'-0" x 15'-0"	180
19	SUPPLY ADMINISTRATION OFFICE	12'-6" x 15'-0"	225
20	ISSUE ROOM	11'-6" x 15'-0"	173
21	ARMAMENT STORAGE VAULT/ARMAMENT MAINTENANCE	9'-0" x 15'-0"	135
22	SQUADRON UNIT SUPPLY STORAGE	45'-0" x 41'-6"	1,877
23	PERSONNEL OFFICE		1,334
24	PERSONNEL STAFF OFFICER	11'-3" x 13'-3"	149
25	STORAGE	11'-3" x 5'-6"	62
26	MEDICAL SUPPLY STORAGE	11'-3" x 9'-0"	100
27	MEDICAL ADMINISTRATION	11'-3" x 20'-0"	225
28	X-RAY		82
29	CONTROL		67
30	DARK ROOM	8'-6" x 5'-9"	49
31	DOCTOR'S OFFICE	11'-3" x 10'-0"	112
32	EXAMINATION ROOM	11'-3" x 6'-4"	75
33	AUDIO EXAMINATION ROOM	11'-3" x 6'-0"	67
34	LABORATORY	11'-3" x 6'-0"	67
35	EYE EXAMINATION ROOM	11'-3" x 6'-0"	67
36	EKG EXAMINATION ROOM	11'-3" x 6'-0"	67
37	LATRINE	5'-9" x 5'-6"	32
38	MEDICAL CENTER RECEPTION	13'-9" x 10'-8"	168
39	MEN'S LATRINE/SHOWER ROOM		758
40	HEATING AND UTILITY ROOM	27'-0" x 22'-0"	594
41	WOMEN'S REST ROOM		132
42	JANITOR'S STORAGE ROOM	7'-8" x 5'-6"	42
43*	KITCHEN		1,083
44	KITCHEN STORE ROOM	14'-3" x 9'-3"	132
45	DINING AREA	37'-3" x 56'-6"	2,105
46	MANAGEMENT ANALYSIS	28'-6" x 18'-6"	527
47	MAINTENANCE CONTROL/GCEM	28'-6" x 20'-0"	584
48	MATERIAL CONTROL/GCEM (GROUP)	27'-0" x 39'-0"	1,053
49	GROUND RADAR OPERATIONS	55'-6" x 24'-4"	1,350
50	COMMUNICATIONS/ELECTRONICS MAINTENANCE	55'-6" x 27'-6"	1,526
51	COMMUNICATIONS/ELECTRONICS MAINTENANCE OFFICER	11'-0" x 18'-0"	198
52	COMMUNICATIONS/ELECTRONICS MAINTENANCE MANAGEMENT	19'-6" x 18'-0"	351
53	COMMUNICATIONS/ELECTRONICS MAINTENANCE MANAGEMENT	28'-6" x 16'-0"	456
54	COMMUNICATIONS/ELECTRONICS MAINTENANCE OFFICER	13'-0" x 16'-0"	208
55	GROUND RADIO MAINTENANCE		832
56	LOBBY	73'-6" x 11'-9"	865
57	COMMUNICATIONS CENTER	30'-6" x 20'-0"	610
58	TELETYPE MAINTENANCE	13'-0" x 9'-6"	124
59	COMMUNICATIONS OFFICER	13'-0" x 10'-6"	136
60A	RADIO OPERATIONS	8'-9" x 13'-2"	115
60B	CONFERENCE/CLASSROOM	8'-9" x 13'-2"	115
61	CRYPTO MAINTENANCE	13'-0" x 13'-2"	171
62	CRYPTO VAULT	20'-6" x 13'-2"	270
63	FRAME ROOM	5'-6" x 13'-2"	72
64	MESSAGE CENTER	13'-0" x 7'-0"	91
65	SWITCHBOARD ROOM	13'-0" x 8'-6"	110
66	OPERATIONS PLANS	30'-6" x 26'-6"	808
67	OPERATIONS TRAINING OFFICE	26'-0" x 46'-6"	1,209
68	OPERATIONS STAFF OFFICE	30'-6" x 20'-0"	610
69	OPERATIONS OFFICER	12'-6" x 12'-0"	150
70	INTELLIGENCE COLLECTION AND PROCESSING	28'-0" x 17'-0"	476
71	DIRECTOR OF LOGISTICS	11'-4" x 15'-6"	176
72	LOGISTICS OFFICE		515
73	STAN/EVAL OFFICE	16'-0" x 32'-6"	520
74	CORRIDOR		4,445
75	RECEPTION AREA		837
	TOTAL		35,880

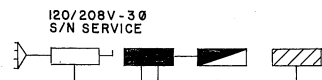
* 43A GARBAGE
43B CAN WASH
43C TRASH

SPECIAL EQUIPMENT SCHEDULE					
ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	FEDERAL STOCK NO.	
CURRENT OPERATIONS	A-1	RECCE TANKER AIRLIFT DATA BOARD	1		
	A-2	WEAPONS TACS FAC DATA BOARD	1		
	A-3	PLOTTING BOARD	1		
	A-4	AIR DEF TAC ACT BOARD	1		
	A-5	FTR MSN SCHEDULE BOARD	1		
	A-6	FTR MSN SPEC MSN BOARD	1		
	A-7	CREW CHIEF	1		
	A-8	AIR SUR SUPV	1		
	A-9	AIR DEF OFF	1		
	A-10	FTR TECH	1		
	A-11	FTR DO	1		
	A-12	RECCE TECH	1		
	A-13	RECCE DO	1		
	A-14	TNK DO	1		
	A-15	TACC INFO FILE	1		
	A-16	ATR COORD	1		
	A-17	WPNS DIR	1		
	A-18	CONT TECH	1		
	A-19	TACC DIR	1		
	A-20	AFFOR COMDR	1		
	A-21	LIASION OFF	1		
	A-22	INTELL OFF	1		
CURRENT PLANS	B-1	FRAG ORDER CLERK	3		
	B-2	FTR DO	1		
	B-3	FTR TECH	1		
	B-4	RECCE DO/TECH	1		
	B-5	TANKER DO/TECH	1		
	B-6	FIGHTER-RECCE-TANKER CHARTS	1		
	B-7	WEATHER-ADA-AIR REFUELING-AIRLIFT CHARTS	1		
	B-8	ADA DO	1		
	B-9	AIR/REFUELING - DO/TECH	1		
	B-10	AIRLIFT DO TECH	1		
	B-11	CHIEF OF CURRENT PLANS	1		
COMMUNICATIONS	C-1	TELETYPE MACHINES	4		
	C-2	SWITCHBOARD	1		
	C-3	ON LINE CRYPTO EQUIPMENT	1		
	C-4	PAPER SHREDDER	1		
FRAME ROOM	D-1	MAIN DISTRIBUTION FRAMES	3		
	D-2	1A1 TELEPHONE CABINET	1		
ARMAMENT STORAGE	E-1	RIFLE STORAGE RACK	10		
	E-2	PISTOL STORAGE RACK	2		
REPRODUCTION ROOM	F-1	XEROX REPRODUCTION MACHINE	1		
	F-2	OFFSET REPRODUCTION MACHINE	1		
KITCHEN & DINING	K-1	SHELVING	1		
	K-2	ICE MACHINE	1		
	K-3	REFRIGERATOR	1		
	K-4	BREAD BOX	1		
	K-5	3 BAY SINK	1		
	K-6	WORK TABLE (LARGE)	1		
	K-7	COFFEE URN	1		
	K-8	STEAM TABLE	1		
	K-9	WORK TABLE (SMALL)	1		
	K-10	TRAY & UTENSIL TABLE	1		
	K-11	COOLER	1		
	K-12	DEEP FAT FRYER	1		
	K-13	RANGE	2		
	K-14	BAKING OVEN	1		
	K-15	MIXING MACHINE	1		
K-16	PEELER	1			
K-17	RACKS	1			
K-18	STEAM KETTLE	1			
K-19	DISHWASHER	1			
MEDICAL CENTER	M-1	X-RAY MACHINE	1	6525-684-8745	
	M-2	X-RAY SCREEN	1	6525-612-8025	
	M-3	MASTER X-RAY FILM PROCESSING TANK	1	6525-616-7400	
	M-4	X-RAY FILM DRYER	1	6525-664-0858	
	M-5	LAVATORY	1		
	M-6	MEDICAL CABINET	1		
	M-7	EXAMINING TABLE	1	6530-709-3000	
	M-8	EXAMINING CHAIR	1	6530-704-6010	
	M-9	AUDIOMETER MACHINE	1	6515-782-2646	
	M-10	AUDIOMETER BOOTH (5' x 5')	1	6515-045-9600	
	M-11	SEROLOGICAL - 6 RACK WATERBATH	1	6640-403-0460	
	M-12	CENTRIFUGE	1	6640-412-9008	
	M-13	SHAKING MACHINE	1		
	M-14	REFRIGERATOR	1		
	M-15	SINK AND WORK TOP	1		
	M-16	MEDICAL CABINET	1		
	M-17	EYE EXAMINATION MACHINE	1		
	M-18	COLOR TESTING MACHINE	1	6515-388-3700	
	M-19	VISION TESTING MACHINE	1	6515-299-8048	
	M-20	EKG MACHINE	1	6515-085-3041	
	M-21	COT (2'-6" x 6'-0")	1		

CATEGORY CODE NO. 171 - 447

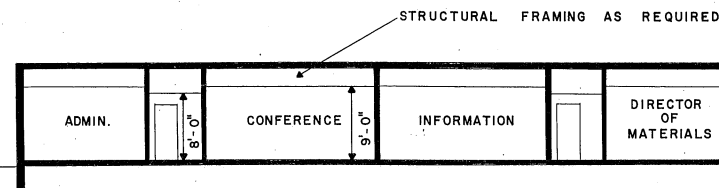
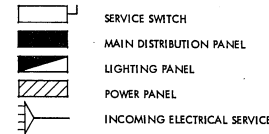
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
COMMUNICATIONS/ELECTRONICS TRAINING FACILITY			
FOR A TACTICAL CONTROL SQUADRON (TACC)			
COLOCATED WITH A TACTICAL CONTROL GROUP			
EQUIPMENT & ROOM SCHEDULES			
APPROVED	AD 28-16-26		
<i>George J. Pithers, Jr.</i>	SCALE: NONE	SHEET 2 OF 2	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974		

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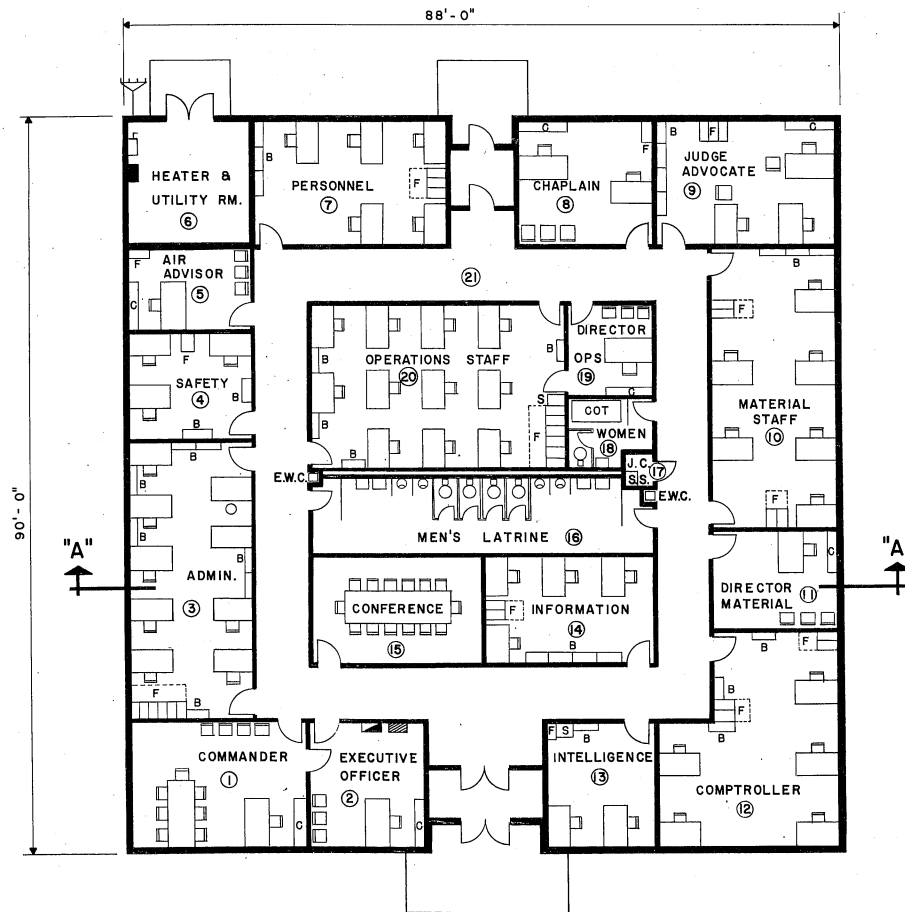


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

LEGEND

ADMIN.	ADMINISTRATION
B	PUBLICATIONS BOOKCASE
C	CREDENZA
E.W.C.	ELECTRIC WATER COOLER
F	FILE
J.C.	JANITOR'S CLOSET
OPS.	OPERATIONS
RM.	ROOM
S	SAFE
S.S.	SERVICE SINK

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 422-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	30.0	31.7	23.8	85.5
ESTIMATED DEMAND	30.0	30.1	19.0	79.1

WATER (GPM)	
HOT	6
COLD	61
TOTAL	64

TOTAL (GPD)	
13,500	

SEWAGE (GPD)	
9,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 380.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 30.0

AREA FOR PROGRAMMING GROSS AREA

7,920 SQ. FT.

ROOM SCHEDULE

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	22'-4" x 16'-0"	355
2	14'-6" x 16'-0"	232
3	13'-8" x 34'-0"	532
4	13'-8" x 13'-6"	211
5	15'-8" x 10'-6"	169
6	15'-8" x 16'-0"	251
7	24'-0" x 16'-0"	384
8	16'-8" x 16'-0"	267
9	23'-0" x 16'-0"	368
10	16'-4" x 34'-8"	566
11	16'-4" x 12'-2"	199
12	23'-8" x 24'-0"	568
13	13'-8" x 16'-0"	219
14	21'-0" x 13'-8"	287
15	21'-8" x 13'-8"	296
16	42'-8" x 10'-4"	441
17	4'-0" x 4'-0"	16
18	11'-0" x 9'-4"	96
19	11'-0" x 11'-4"	125
20	31'-8" x 20'-8"	657
21	6'-8" WIDE	1,486
TOTAL		7,920

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-445

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

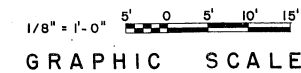
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

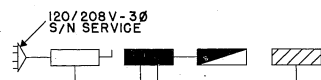
AIR RESERVE FORCES
WING OPERATIONAL TRAINING FACILITY
AIR DEFENSE WING
MILITARY AIRLIFT WING (HEAVY)
PLAN & SECTION

APPROVED
Henry J. P. [Signature]
FOR CHIEF OF STAFF USAF

AD 28-18-04
SCALE 1/8" = 1'-0"
DATE 6 Nov. 1974

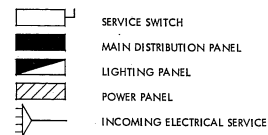
SHEET 1 OF 1





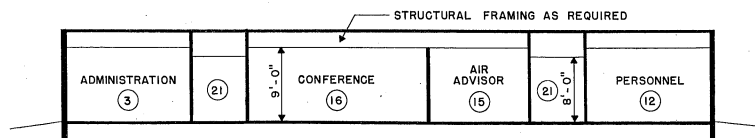
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



LEGEND

- ADMIN. ADMINISTRATION
- B PUBLICATIONS BOOKCASE
- C CRENDENZA
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- J.C. JANITOR'S CLOSET
- OPS. OPERATIONS
- S SAFE
- S.S. SERVICE SINK
- T TABLE
- RM. ROOM



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	25.0	32.0	25.6	82.6
ESTIMATED DEMAND	25.0	30.4	23.0	78.4
WATER (GPM)				
HOT	6			
COLD	56			
TOTAL	60			
TOTAL (GPD)	7,500			
SEWAGE (GPD)	5,000			

HEATING REQUIREMENTS

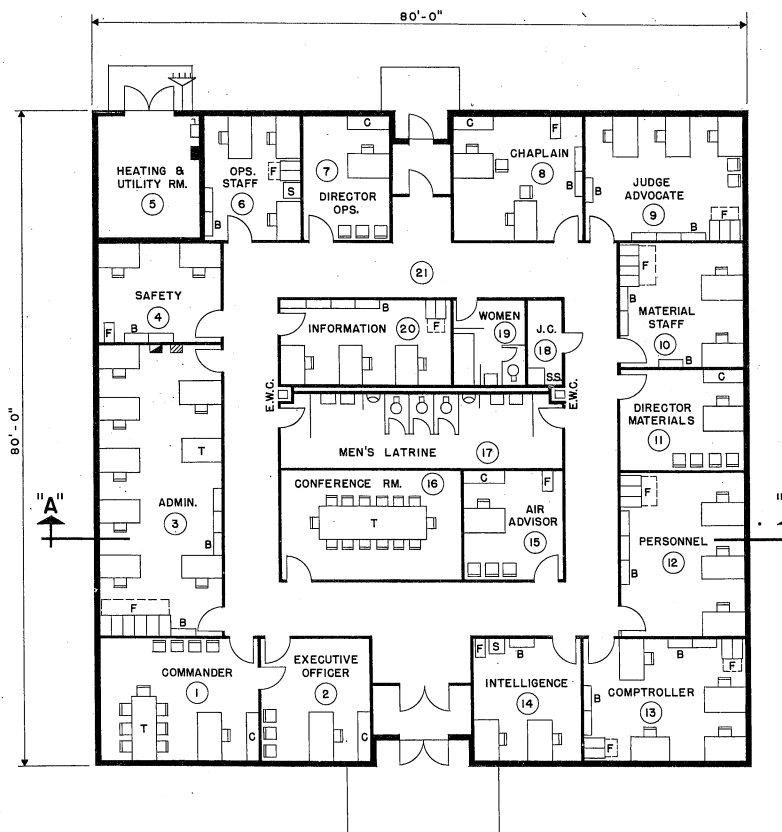
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 313.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 25

AREA FOR PROGRAMMING

GROSS AREA
6,400 SQ. FT.



FLOOR PLAN
SCALE 1/8" = 1'-0"

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	20'-4" x 16'-0"	325
2	13'-8" x 16'-0"	219
3	14'-0" x 36'-0"	576
4	16'-0" x 12'-0"	192
5	13'-3" x 16'-0"	212
6	12'-3" x 16'-0"	196
7	11'-0" x 16'-0"	176
8	16'-0" x 16'-0"	264
9	20'-0" x 16'-0"	320
10	16'-0" x 15'-6"	248
11	16'-0" x 12'-6"	200
12	16'-0" x 20'-0"	320
13	20'-8" x 16'-0"	331
14	13'-4" x 16'-0"	213
15	12'-6" x 14'-0"	175
16	22'-6" x 14'-0"	315
17	35'-0" x 10'-0"	350
18	4'-6" x 11'-0"	50
19	9'-0" x 11'-0"	99
20	21'-6" x 11'-0"	236
21	CORRIDOR	1,383
TOTAL		6,400

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

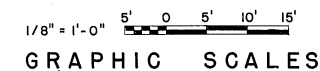
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-445

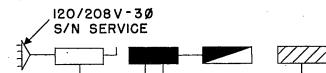
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
WING OPERATIONAL TRAINING FACILITY
AIR REFUELING WING - TAC FIGHTER WING
TAC RECONNAISSANCE WING
PLAN & SECTION

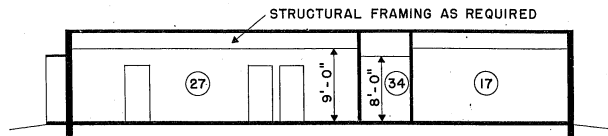
APPROVED <i>George J. Potholoff</i> FOR CHIEF OF STAFF USAF	AD 28-18-05 SCALE: 1/8" = 1'-0" DATE: 6 Nov. 1974	SHEET 1 OF 1
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C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

RM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	13'-6" x 12'-0"	162
2	ADMINISTRATIVE STORAGE	7'-0" x 12'-0"	84
3	ORDERLY ROOM	20'-6" x 15'-0"	313
4	SQUADRON OPERATIONS ADMINISTRATION	20'-6" x 20'-6"	420
5	FLIGHT ENGINEERS	20'-6" x 12'-6"	256
6	INFLIGHT REFUELING TECHNICIANS	20'-6" x 12'-6"	256
7	JANITOR'S CLOSET	9'-0" x 6'-6"	58
8	LADIES TOILET	11'-6" x 6'-6"	75
9	MEN'S LATRINE	17'-8" x 24'-9"	437
10	AIRCREW LOCKER ROOM	34'-0" x 24'-9"	842
11	HEATING & UTILITY ROOM	19'-4" x 24'-9"	478
12	AIRCREW BRIEFING/TRAINING ROOM		1,695
13	COFFEE UNIT	7'-6" x 8'-6"	64
14	REAR PROJECTION ROOM	19'-4" x 9'-6"	186
15	NAVIGATOR'S OFFICE	18'-8" x 20'-0"	373
16	STORAGE	6'-0" x 20'-0"	120
17	RECORDS ROOM	17'-4" x 20'-0"	347
18	OPERATIONAL INTELLIGENCE	17'-6" x 20'-0"	350
19	AIR ROOM		410
20	INTELLIGENCE OFFICER	9'-0" x 10'-0"	90
21	PROTECTIVE EQUIPMENT	25'-0" x 42'-0"	1,050
22	OBSERVERS & PILOTS	9'-0" x 25'-2"	229
23	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-6" x 10'-10"	103
24	WEATHER COMMUNICATIONS	9'-6" x 10'-10"	103
25	FORECASTERS	9'-6" x 14'-6"	136
26	BASE OPERATIONS	9'-6" x 10'-10"	103
27	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-6" x 36'-0"	1,134
28	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
29	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
30	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
31	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
32	COMBAT OPERATIONS CENTER		1,302
33	DISTRICT COMMANDER'S OFFICE	12'-6" x 12'-6"	156
34	CORRIDOR	6'-0" WIDE	1,474
	TOTAL		13,049

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 422-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	(KW)	REFRIG.	LIGHTING	POWER	TOTAL
ELECTRICITY					
CONNECTED LOAD	50		52.2	39.2	141.4
ESTIMATED DEMAND	50		49.6	35.2	134.8
WATER (GPM)					
HOT	14				
COLD	61				
TOTAL	65				
TOTAL (GPD)					
SEWAGE (GPD)					

HEATING REQUIREMENTS

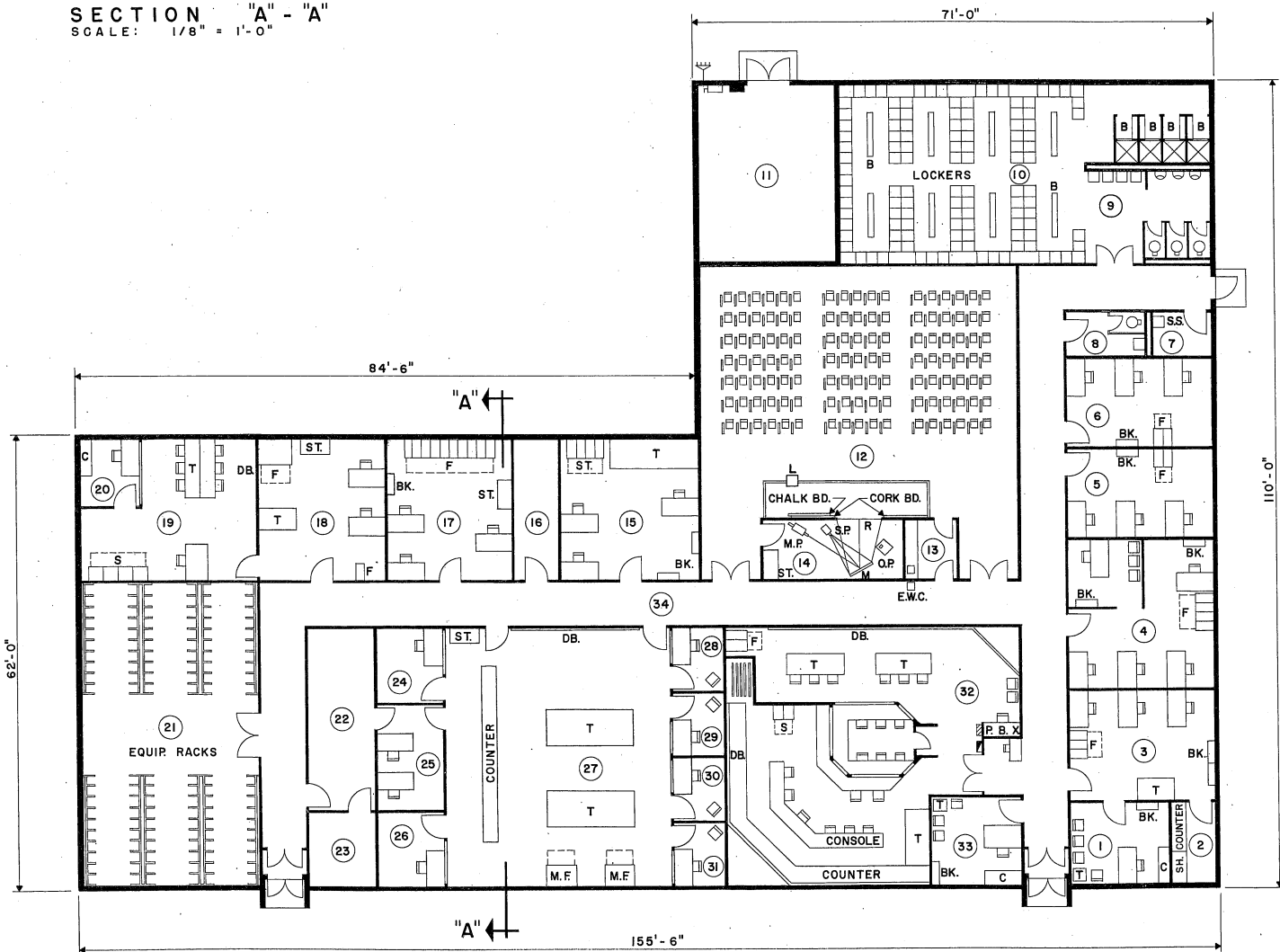
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 615.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB / 76° WB
TONS OF REFRIGERATION 50

AREA FOR PROGRAMMING GROSS AREA

13,049 SQ.FT.



FLOOR PLAN
SCALE 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CRENDENZA
- DB. DISPLAY BOARD
- EQUIP. EQUIPMENT
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- L INSTRUCTOR'S LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- M.P. 16 MM MOVIE PROJECTOR
- O.P. OVERHEAD PROJECTOR
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 141 - 451, 141 - 453, 141 - 753

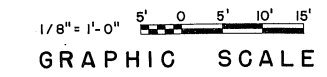
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

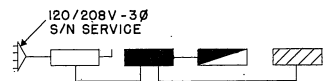
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
AIR REFUELING SQUADRON
KC-97 AIRCRAFT
PLAN & SECTION

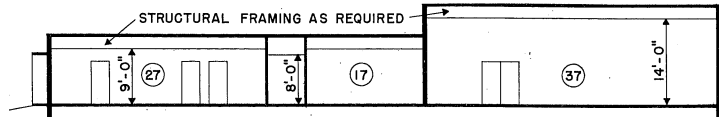
APPROVED *George J. Pritchard*
FOR CHIEF OF STAFF USAF
DATE: 6 Nov. 1974

AD 28-18-06
SCALE: 1/8" = 1'-0" SHEET 1 OF 1





ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	13'-6" x 12'-0"	162
2	ADMINISTRATIVE STORAGE	7'-0" x 12'-0"	84
3	ORDERLY ROOM	20'-0" x 15'-0"	315
4	SQUADRON OPERATIONS	20'-0" x 20'-0"	420
5	FLIGHT ENGINEERS	20'-0" x 12'-0"	256
6	INFLIGHT REFUELING TECHNICIANS	20'-0" x 12'-0"	256
7	JANITOR'S CLOSET	9'-0" x 6'-0"	54
8	LADIES TOILET	11'-0" x 6'-0"	72
9	MEN'S LATRINE	17'-0" x 24'-0"	437
10	AIRCREW LOCKER ROOM	34'-0" x 24'-0"	842
11	HEATING & UTILITY ROOM	19'-0" x 24'-0"	478
12	AIRCREW BRIEFING/TRAINING ROOM	19'-0" x 24'-0"	478
13	COFFEE UNIT	7'-0" x 8'-0"	64
14	REAR PROJECTION ROOM	19'-0" x 8'-0"	166
15	NAVIGATOR'S OFFICE	18'-0" x 20'-0"	378
16	CORRIDOR	5'-0" WIDE	261
17	RECORDS ROOM	17'-0" x 20'-0"	347
18	OPERATIONAL INTELLIGENCE	17'-0" x 20'-0"	350
19	AIR ROOM	9'-0" x 10'-0"	110
20	INTELLIGENCE OFFICER	9'-0" x 10'-0"	90
21	PROTECTIVE EQUIPMENT	25'-0" x 42'-0"	1,050
22	OBSERVERS & PLOTTERS	9'-0" x 25'-0"	239
23	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-0" x 10'-10"	103
24	WEATHER COMMUNICATIONS	9'-0" x 10'-10"	103
25	FORECASTERS	9'-0" x 14'-0"	136
26	BASE OPERATIONS	9'-0" x 10'-10"	103
27	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-0" x 36'-0"	1,144
28	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
29	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
30	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
31	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
32	COMBAT OPERATIONS CENTER		1,302
33	DISTRICT COMMANDER'S OFFICE	12'-0" x 12'-0"	156
34	CORRIDOR	5'-0" WIDE	1,475
35	OFFICE & ADMINISTRATION	18'-0" x 23'-0"	429
36	BRIEFING	24'-0" x 24'-0"	604
37	SIMULATOR ROOM	45'-10" x 48'-0"	2,200
38	HEATING & UTILITY ROOM	14'-0" x 24'-0"	356
39	MAINTENANCE & STORAGE	14'-0" x 24'-0"	356
40	UTILITY ROOM	22'-0" x 15'-0"	341
41	PARACHUTE FOLDING ROOM	22'-0" x 94'-0"	2,079
42	DRYING TOWER	18'-0" x 23'-0"	322
43	WASH ROOM	18'-0" x 14'-0"	258
44	TOILET	18'-0" x 5'-0"	102
45	OFFICE	18'-0" x 10'-0"	180
46	DINGHY ROOM	18'-0" x 34'-0"	612
47	SURVIVAL KIT STORAGE	6'-0" x 9'-0"	62
48	SURVIVAL KIT INSPECTION & REPAIR	14'-0" x 17'-0"	244
	TOTAL		21,505

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	85.0	107.5	86.0	278.5
ESTIMATED DEMAND	85.0	102.1	77.4	264.5

WATER (GPM)	
HOT	14
COLD	61
TOTAL	65

TOTAL (GPD)	
	17,250

SEWAGE (GPD)	
	11,500

HEATING REQUIREMENTS

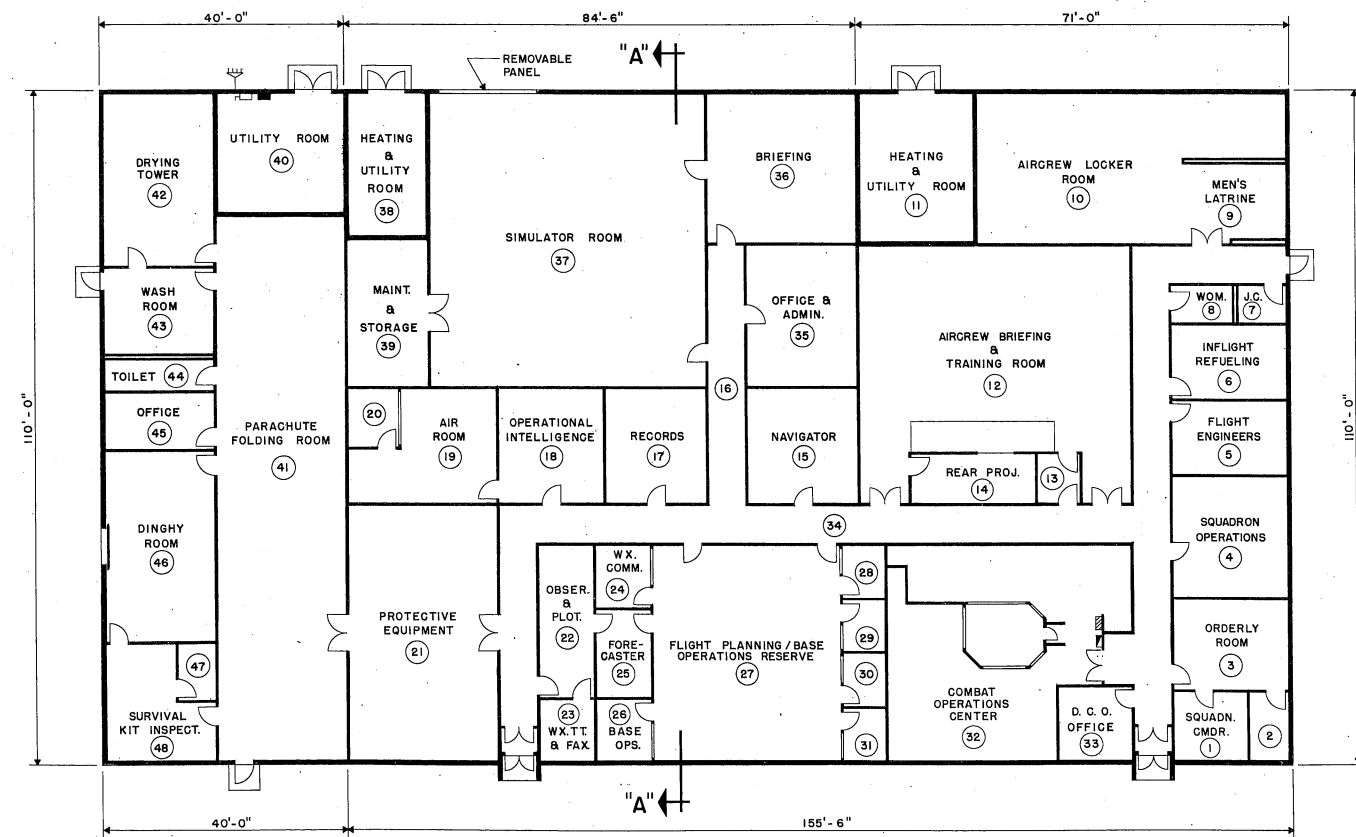
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,209.5

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 85

AREA FOR PROGRAMMING GROSS AREA

21,505 SQ. FT.



FLOOR PLAN
SCALE 3/32" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

1. SQUADRON OPERATIONS AD 28-18-06
2. FLIGHT SIMULATOR FACILITY AD 28-13-113
3. PARACHUTE & DINGHY SHOP AD 36-33-12

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

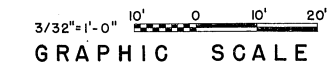
CATEGORY CODE NO. 141- 451, 141- 453, 141- 753, 171- 212, 218 - 852

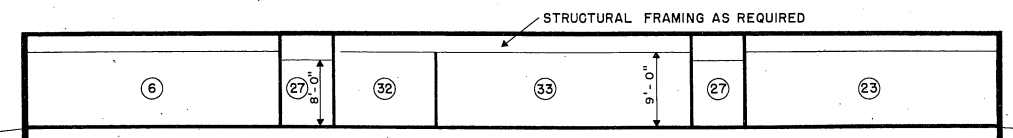
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

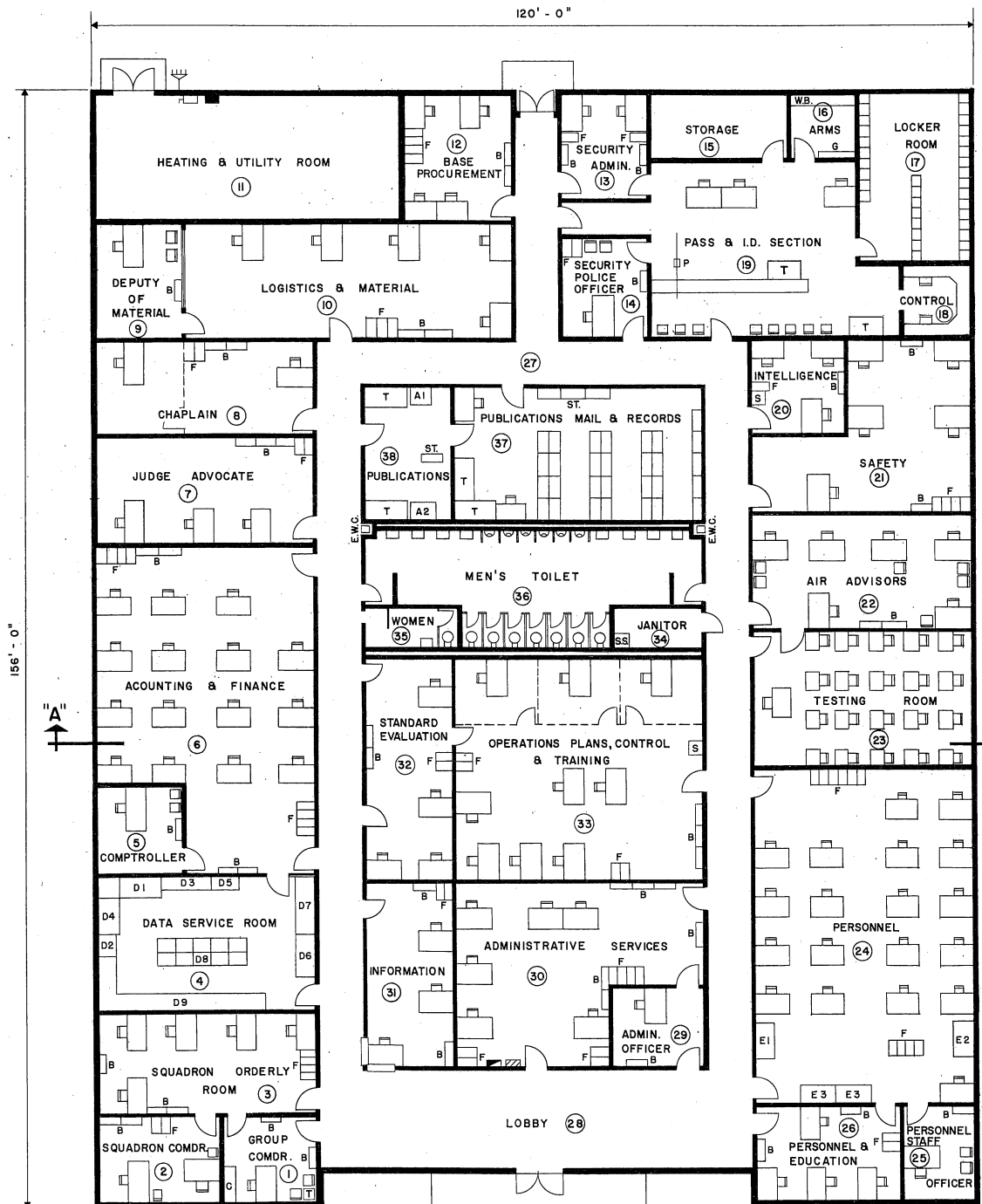
AIR RESERVE FORCES
SQUADRON OPERATIONS
COMBINED FACILITY FOR AIR REFUELING
SQUADRON KC-97 AIRCRAFT
PLAN & SECTION

APPROVED <i>Henry J. Pithell, Jr.</i> FOR CHIEF OF STAFF USAF	AD 28-18-07
SCALE: 3/32" = 1'-0"	SHEET 1 OF 1
DATE: 6 NOV. 1974	





SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	77.0	32.1	72.0	241.1
ESTIMATED DEMAND	77.0	87.5	65.0	229.5

WATER (GPM)	
HOT	16
COLD	76
TOTAL	81
TOTAL (GPD)	20,250
SEWAGE (GPD)	13,770

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 989.3

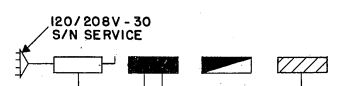
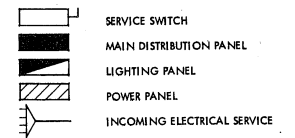
AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.D.B.
TONS OF REFRIGERATION 77

AREA FOR PROGRAMMING GROSS AREA

18,430 SQ. FT.

ELECTRICAL LEGEND

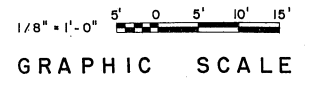


ELECTRICAL RISER DIAGRAM
NO SCALE

EQUIPMENT SCHEDULE		
SYMBOL	QUANTITY	DESCRIPTION
A-1	1	COLLATOR
A-2	1	OFFSET PRINTER
D-1	1	407 TAB MACHINE
D-2	1	514 REPRODUCER IBM
D-3	1	083 SORTER W/BACK
D-4	1	087 COLLATOR
D-5	1	548 INTERPRETER
D-6	1	026 KEY PUNCH
D-7	1	WORK TABLE
D-8	5	PANEL CABINET STORAGE
D-9	5	CARD STORAGE FILES
E-1	1	IBM CARD SORTING MACHINE
E-2	1	IBM 836 CONTROL UNIT
E-3	2	CARD FILES

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	13'-6" x 13'-0"	175
2	17'-0" x 13'-0"	222
3	31'-0" x 14'-6"	449
4	31'-0" x 19'-6"	589
5	13'-0" x 12'-6"	162
6		1,248
7	31'-0" x 15'-4"	475
8	31'-0" x 13'-6"	418
9	13'-0" x 16'-6"	214
10	44'-0" x 16'-6"	726
11	41'-0" x 18'-0"	738
12	16'-0" x 18'-0"	288
13	12'-8" x 15'-6"	193
14	12'-6" x 14'-6"	181
15	19'-6" x 9'-4"	181
16	9'-0" x 9'-4"	85
17	16'-0" x 24'-0"	384
18	10'-0" x 10'-6"	105
19	28'-6" x 24'-8"	765
20	13'-0" x 13'-0"	169
21		575
22	31'-0" x 16'-0"	496
23	31'-0" x 20'-0"	620
24	31'-0" x 47'-6"	1,472
25	11'-0" x 14'-0"	154
26	20'-0" x 14'-0"	280
27	6' WIDE	1,781
28	14'-0" x 58'-0"	812
29	14'-0" x 12'-0"	168
30		754
31	13'-0" x 26'-6"	345
32	13'-0" x 32'-6"	423
33		1,288
34	13'-6" x 6'-6"	88
35	13'-6" x 6'-6"	88
36		599
37	33'-6" x 19'-4"	633
38	12'-6" x 19'-6"	244
		18,430

LEGEND	
SYMBOL	DESCRIPTION
B	BOOKCASE
C	CREDENZA
F	FILE
G	GUN RACK
P	CAMERA
S	SAFE
S.S.	SERVICE SINK
ST.	METAL STORAGE CABINET
T	TABLE
W.B.	WORK BENCH



DESIGN GUIDES

ARCHITECTURAL

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CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

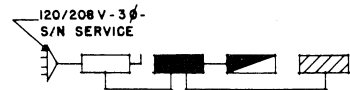
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

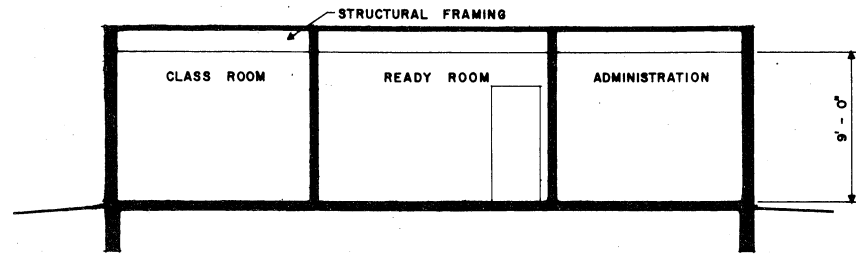
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 171-445

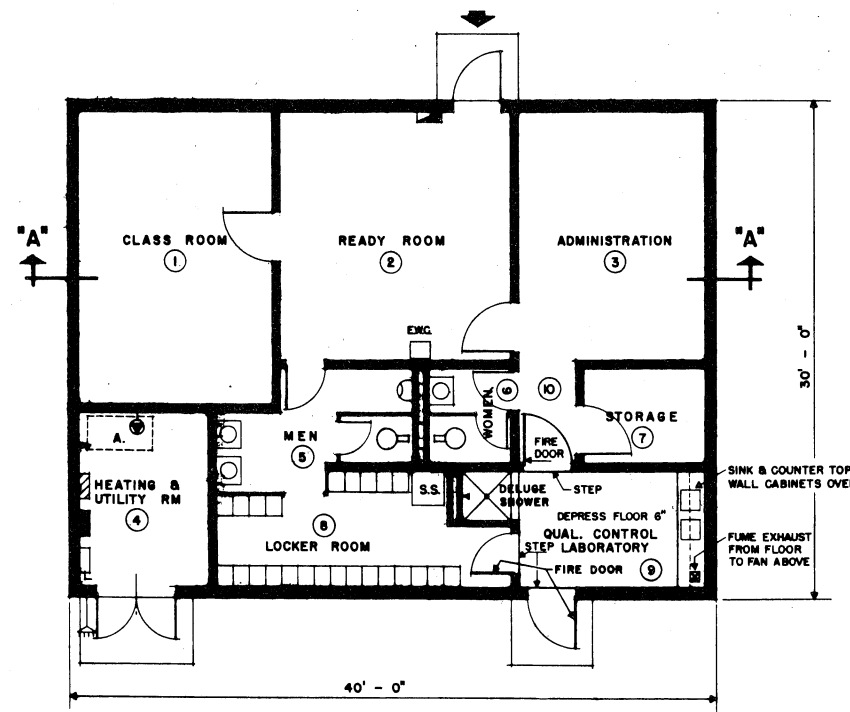
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
OPERATIONAL TRAINING FACILITY			
PLAN & SECTION			
APPROVED	AD 28-18-08		
<i>Avoy 2 Rithall</i>	SCALE: 1/8" = 1'-0"	SHEET OF	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974		



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A"- "A"
SCALE: 1/4" = 1' - 0"



FLOOR PLAN
SCALE: 1/4" = 1' - 0"

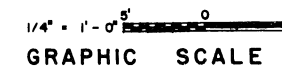
ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	12'-10" x 18'-6"	237
2	14'-6" x 15'-10"	229
3	12'-8" x 15'-10"	200
4	9'-0" x 11'-6"	103
5	12'-6" x 6'-3"	78
6	5'-9" x 6'-3"	36
7	8'-4" x 6'-3"	52
8	15'-0" x 8'-0"	120
9	14'-10" x 8'-0"	120
10	4'-0" x 6'-3"	25
TOTAL		1,200

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- 220V - 3Ø - 60~

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- QUAL. QUALITY
- RM. ROOM
- A. AIR COMPRESSOR
- FUME EXHAUST



DESIGN GUIDES

ARCHITECTURAL

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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

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PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS*

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING POWER	TOTAL
CONNECTED LOAD	6.0	9.7
ESTIMATED DEMAND	4.8	8.9
		13.7

WATER (GPM)

HOT 9

COLD 88

TOTAL 97

TOTAL (GPM) 1,000

SEWAGE (GPD) 1,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 6° F

IN 87° F/HR 7%

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 96° F DB 76° F WB

TONS OF REFRIGERATION 3.8 TONS

AREA FOR PROGRAMMING GROSS AREA

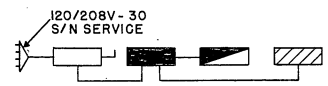
BUILDING 1,200 SQ. FT.

CATEGORY CODE NO. 121-111

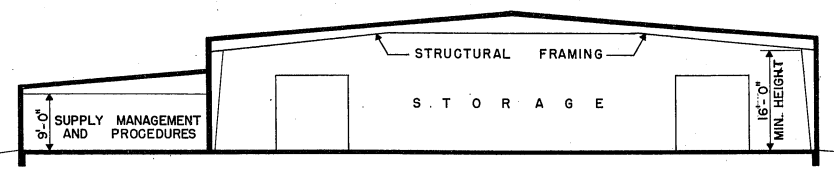
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
POL, OPERATIONS QUALITY CONTROL
PLAN & SECTION

APPROVED: *David H. [Signature]*
DATE: 10 MARCH 1972
SCALE AS SHOWN SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	30'-8" x 25'-0"	766
2	30'-8" x 16'-0"	491
3	30'-0" x 30'-0"	920
4	11'-6" x 12'-0"	138
5	24'-0" x 25'-6"	612
6	24'-0" x 13'-0"	312
7	11'-0" x 21'-0"	231
8	5'-0" x 10'-0"	50
9	11'-0" x 21'-0"	231
10	24'-0" x 32'-6"	780
11	24'-0" x 12'-0"	288
12	42'-8" x 82'-0"	3,498
13	29'-9" x 18'-0"	535
14	12'-6" x 18'-0"	225
15	6'-8" x 148'-0"	985
16	100'-0" x 146'-4"	14,633
TOTAL		24,695

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
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UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD		987.8	503.9	991.7
ESTIMATED DEMAND		790.2	331.1	1,121.3

	WATER (GPM)
HOT	8
COLD	60
TOTAL	60

	TOTAL (GPD)	12,000
SEWAGE (GPD)	8,000	

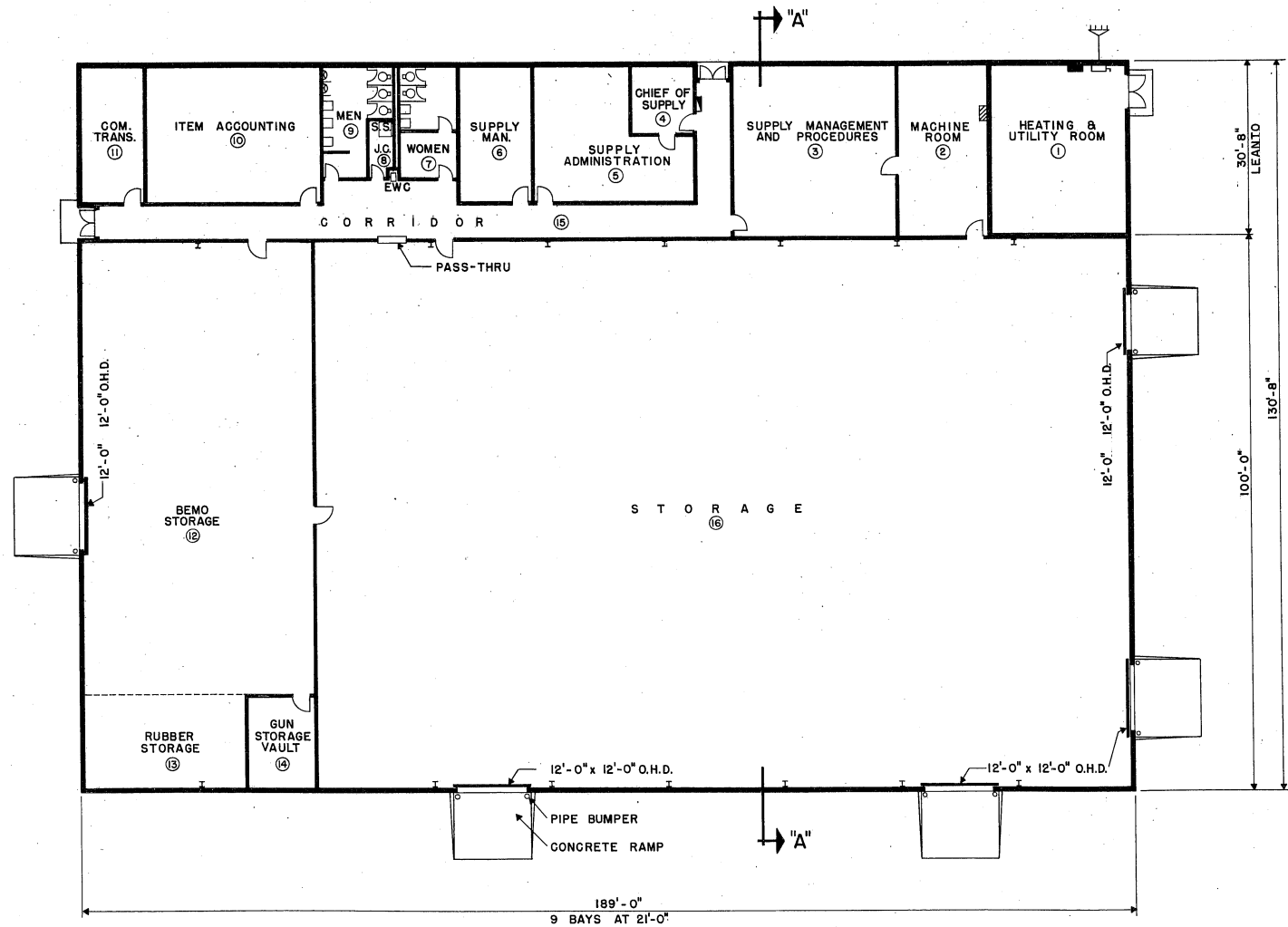
HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F

M/8TU/HR = 1,230.7

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB

TONS OF REFRIGERATION 10

AREA FOR PROGRAMMING GROSS AREA
24,695 SQ. FT.



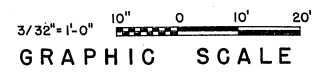
FLOOR PLAN
SCALE 3/32" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- COM. COMMERCIAL
- TRANS. TRANSPORTATION
- MAN. MANAGEMENT



DESIGN GUIDES

ARCHITECTURAL
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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 442-758, 610-125

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

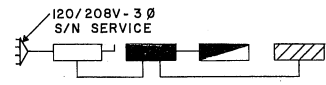
AIR RESERVE FORCES
BASE SUPPLY AND ADMINISTRATION

PLAN & SECTION

APPROVED
George J. Pugh
FOR CHIEF OF STAFF USAF

AD 30-06-60

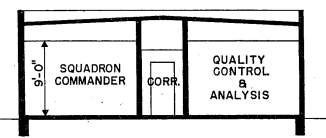
SCALE AS NOTED SHEET 1 OF 1
DATE 6 Nov. 1974



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

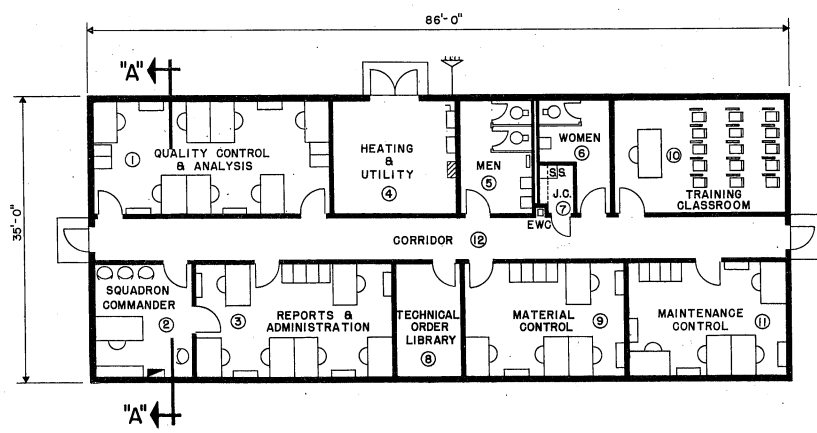
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE 1/8" = 1'-0"

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET



FLOOR PLAN
SCALE 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT FACILITY, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIGERATION	LIGHTING	POWER	TOTAL
CONNECTED LOAD	11	15	12	38
ESTIMATED DEMAND	11	14.2	10.8	36
WATER (GPM)				
HOT				5
COLD				46
TOTAL				48
TOTAL (GPD)				6,750
SEWAGE (GPD)				4,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR 164.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/ 78° WB
TONS OF REFRIGERATION 11

AREA FOR PROGRAMMING GROSS AREA

3,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

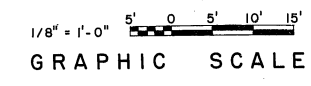
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	30'-0" x 14'-9"	442
2	13'-0" x 14'-9"	192
3	24'-6" x 14'-9"	361
4	15'-6" x 14'-9"	229
5	9'-6" x 14'-9"	140
6	9'-6" x 10'-0"	95
7	4'-6" x 6'-6"	29
8	8'-6" x 14'-9"	125
9	20'-0" x 14'-9"	295
10	22'-0" x 14'-9"	324
11	20'-0" x 14'-9"	295
12	5'-6" WIDE	473
TOTAL		3,000

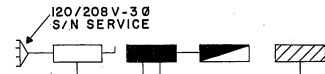
CATEGORY CODE NO. 610-129

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

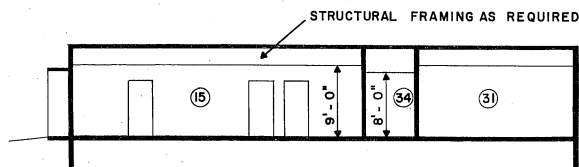
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
MAINTENANCE CONTROL FACILITY
PLAN & SECTION

APPROVED
Henry J. Peake
FOR CHIEF OF STAFF USAF
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974
AD 30-08-08
SHEET 1 OF 1





ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 12'-6"	156
2	ORDERLY ROOM	12'-6" x 19'-10"	248
3	STORAGE ROOM	12'-6" x 7'-4"	92
4	INTELLIGENCE OFFICER	8'-0" x 10'-0"	80
5	AIR ROOM		350
6	OPERATIONAL INTELLIGENCE	25'-10" x 13'-2"	344
7	PROTECTIVE EQUIPMENT	25'-10" x 29'-0"	749
8	FLIGHT ENGINEER'S OFFICE	12'-4" x 17'-6"	216
9	LOADMASTER'S OFFICE	12'-4" x 16'-4"	202
10	OBSERVERS & PLOTTERS	9'-4" x 24'-10"	232
11	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-4" x 11'-0"	103
12	WEATHER COMMUNICATIONS	9'-4" x 10'-10"	101
13	FORECASTERS	9'-4" x 14'-0"	131
14	BASE OPERATIONS	9'-4" x 11'-0"	103
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	30'-10" x 35'-10"	1,104
16	FLIGHT LEADER OFFICE	7'-6" x 8'-10"	66
17	FLIGHT LEADER OFFICE	7'-6" x 8'-10"	66
18	FLIGHT LEADER OFFICE	7'-6" x 8'-10"	66
19	FLIGHT LEADER OFFICE	7'-6" x 8'-10"	66
20	COFFEE UNIT	8'-0" x 6'-0"	48
21	REAR PROJECTION ROOM	20'-0" x 8'-6"	170
22	JANITOR'S CLOSET	11'-6" x 6'-0"	69
23	AIRCREW BRIEFING/TRAINING ROOM		1,229
24	COMBAT OPERATIONS CENTER		1,297
25	D. C. O. OFFICE	12'-6" x 12'-10"	160
26	AIRCREW LOCKER ROOM		1,026
27	MEN'S LATRINE		167
28	LADIES TOILET		51
29	HEATING & UTILITY ROOM	5'-8" x 9'-0"	51
30	NAVIGATOR'S OFFICE	28'-8" x 19'-10"	569
31	NAVIGATOR'S OFFICE	23'-0" x 19'-10"	457
32	SQUADRON ADMINISTRATION OFFICE	6'-4" x 19'-10"	126
33	STORAGE ROOM	12'-6" x 19'-10"	251
34	CORRIDOR	6'-4" WIDE	1,236
	TOTAL		11,780

LEGEND

- B. BOARD
- BK. BOOKCASE
- C. CREDENZA
- CH. ST. CHART STORAGE
- D. B. DISPLAY BOARD
- E. W. C. ELECTRIC WATER COOLER
- F. FILE
- I. INSTRUCTOR'S LECTURN
- M. ADJUSTABLE FRONT SURFACE MIRROR
- M. F. MAP FILE
- M. P. 16MM MOVIE PROJECTOR
- O. P. OVERHEAD PROJECTOR
- P. B. X. TELETYPE MACHINE
- R. REAR PROJECTOR SCREEN
- S. SAFE
- SH. SHELVES
- S. P. SLIDE PROJECTOR
- S. S. SERVICE SINK
- ST. STORAGE
- T. TABLE
- W. T. WORK TABLE

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- ⚡ INCOMING ELECTRICAL SERVICE

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	45.0		47.0	35.0	127.0
ESTIMATED DEMAND	45.0		44.7	31.5	121.2
WATER (GPM)					
HOT	13				
COLD	60				
TOTAL	65				
TOTAL (GPD)	15,000				
SEWAGE (GPD)	10,000				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 570.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D. B. & 78° F. W. B.
TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING GROSS AREA

11,780 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

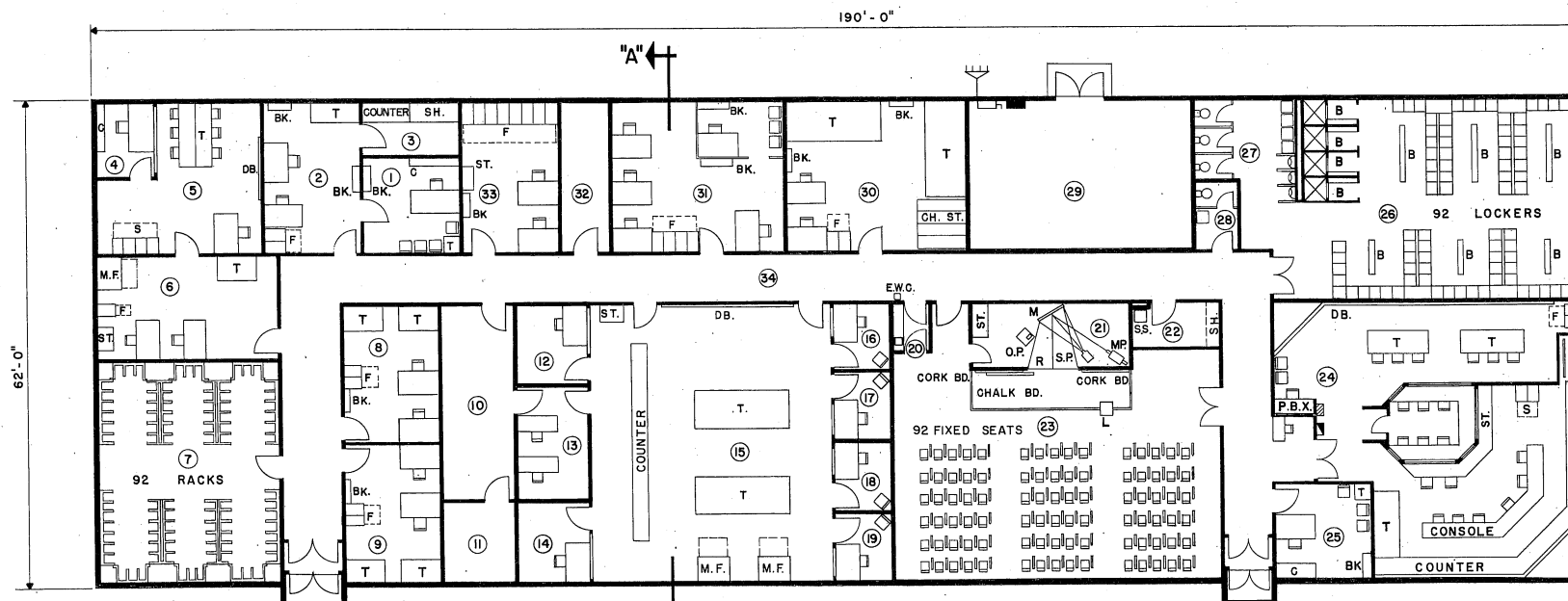
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

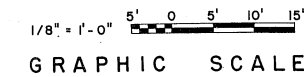
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

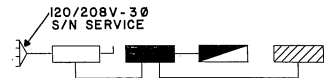
CATEGORY CODE NO. 141-451, 141-453, 141-753



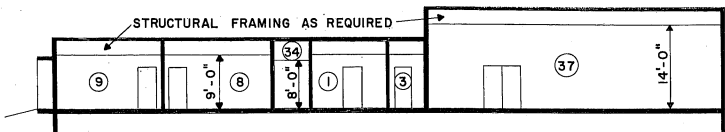
FLOOR PLAN
SCALE 1/8" = 1'-0"



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES SQUADRON OPERATIONS TACTICAL AIRLIFT SQUADRON C-130 AIRCRAFT PLAN & SECTION			
APPROVED	AD 30-10-24		
FOR CHIEF OF STAFF USAF		SCALE: 1/8" = 1'-0"	SHEET 1 OF 1
		DATE: 6 Nov. 1974	



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM SCHEDULE			
RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 12'-6"	156
2	ORDERLY ROOM	12'-6" x 19'-10"	248
3	STORAGE ROOM	12'-6" x 7'-4"	92
4	INTELLIGENCE OFFICER	8'-0" x 10'-0"	80
5	AIR ROOM	9'-4" x 24'-10"	232
6	OPERATIONAL INTELLIGENCE	25'-10" x 13'-2"	344
7	PROTECTIVE EQUIPMENT	25'-10" x 29'-0"	749
8	FLIGHT ENGINEER'S OFFICE	12'-4" x 17'-0"	216
9	LOADMASTER'S OFFICE	12'-4" x 18'-4"	226
10	OBSERVERS & PLOTTERS	9'-4" x 24'-10"	232
11	WEATHER, TELETYPE & THERMOFAX EQUIP.	9'-4" x 11'-0"	103
12	WEATHER COMMUNICATIONS	9'-4" x 10'-10"	101
13	FORCASTERS	9'-4" x 14'-0"	131
14	BASE OPERATIONS	9'-4" x 11'-0"	103
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	30'-10" x 35'-10"	1,104
16	FLIGHT LEADER OFFICE	7'-4" x 8'-10"	66
17	FLIGHT LEADER OFFICE	7'-4" x 8'-10"	66
18	FLIGHT LEADER OFFICE	7'-4" x 8'-10"	66
19	FLIGHT LEADER OFFICE	7'-4" x 8'-10"	66
20	COFFEE UNIT	5'-0" x 6'-0"	30
21	REAR PROJECTION ROOM	20'-0" x 8'-6"	170
22	JANITOR'S CLOSET	11'-4" x 6'-0"	69
23	AIRCREW BRIEFING/TRAINING ROOM		1,229
24	COMBAT OPERATIONS CENTER		1,297
25	D.C.O. OFFICE	12'-4" x 12'-10"	160
26	AIRCREW LOCKER ROOM		1,026
27	MEN'S LATRINE		167
28	LADIES TOILET	5'-4" x 9'-0"	51
29	HEATING & UTILITY ROOM	28'-4" x 19'-10"	549
30	NAVIGATOR'S OFFICE	23'-0" x 19'-10"	457
31	SQUADRON OPERATIONS ADMINISTRATION OFFICE	22'-2" x 19'-10"	440
32			
33	RECORDS ROOM	12'-6" x 19'-10"	251
34	CORRIDOR	6'-4" WIDE	1,512
35	OFFICE & ADMINISTRATION	18'-0" x 23'-6"	435
36	BRIEFING	24'-10" x 24'-6"	608
37	SIMULATOR ROOM	45'-0" x 48'-0"	2,160
38	HEATING & UTILITY ROOM	14'-6" x 24'-6"	359
39	MAINTENANCE & STORAGE	14'-6" x 23'-6"	345
40	UTILITY ROOM	22'-0" x 15'-0"	331
41	PARACHUTE FOLDING ROOM	22'-0" x 94'-6"	2,079
42	DRYING TOWER	18'-0" x 29'-0"	522
43	WASH ROOM	18'-0" x 14'-0"	258
44	TOILET	18'-0" x 5'-6"	102
45	OFFICE	18'-0" x 10'-0"	180
46	DINGHY ROOM	18'-0" x 34'-0"	612
47	SURVIVAL KIT STORAGE	6'-0" x 9'-0"	54
48	SURVIVAL KIT INSPECTION & REPAIR	14'-6" x 17'-0"	244
	TOTAL		20,236

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65.0	81.0	61.0	207.0
ESTIMATED DEMAND	65.0	78.0	55.0	198.0
WATER (GPM)				
HOT	6			
COLD	61			
TOTAL	64			
TOTAL (GPD) 9,750				
SEWAGE (GPD) 6,500				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 809.0

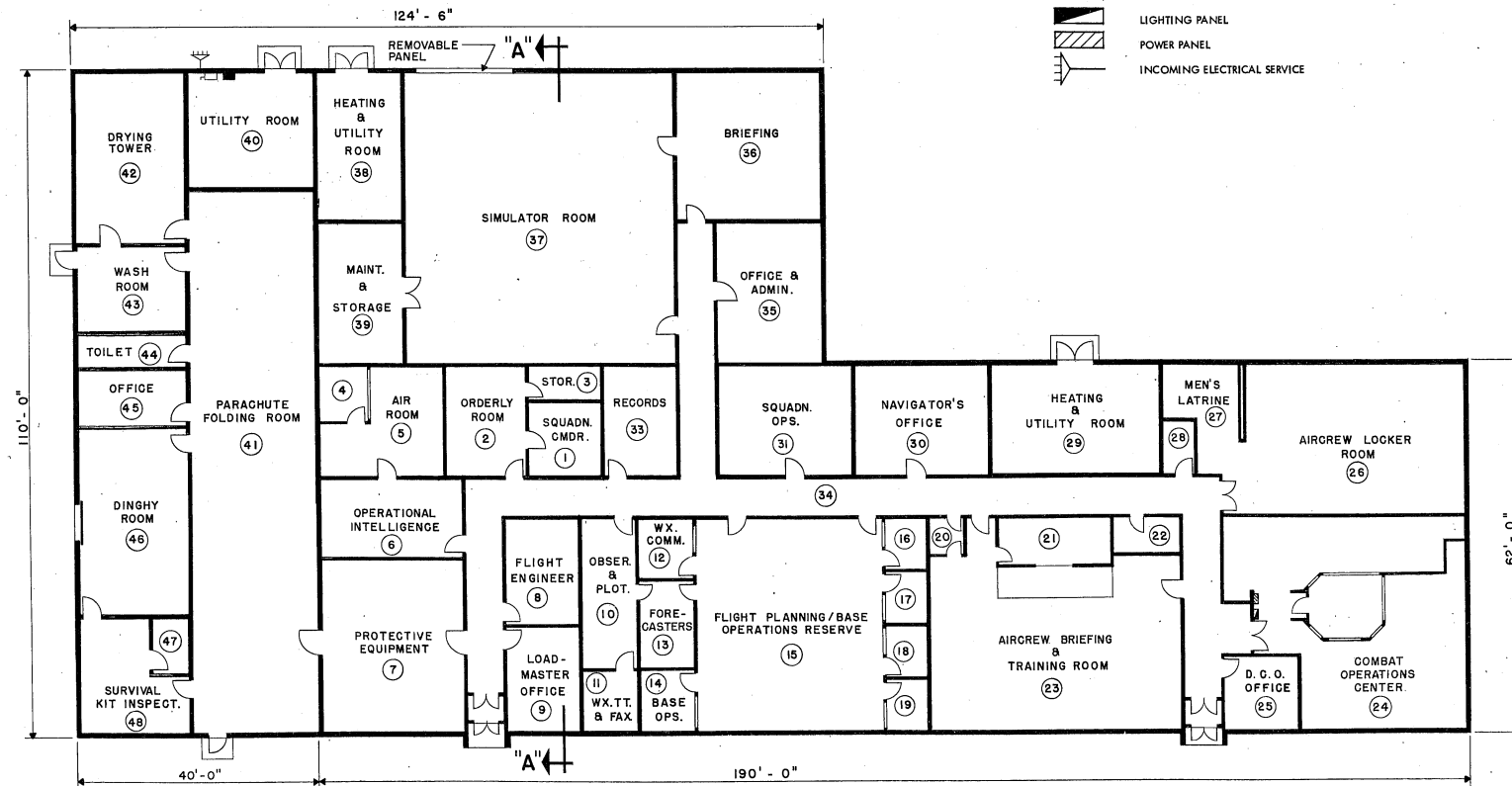
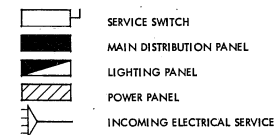
AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA

20,236 SQ. FT.

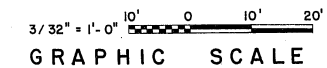
ELECTRICAL LEGEND



FLOOR PLAN
SCALE 3/32" = 1'-0"

NOTE

- FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:
- SQUADRON OPERATIONS AD 30-10-24
 - FLIGHT SIMULATOR FACILITY AD 28-13-113
 - PARACHUTE & DINGHY SHOP AD 36-33-12



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-212, 218-852

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

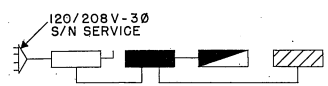
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
COMBINED FACILITY FOR TACTICAL
AIRLIFT SQUADRON C-130 AIRCRAFT
PLAN & SECTION

APPROVED
George J. Peadar
FOR CHIEF OF STAFF USAF

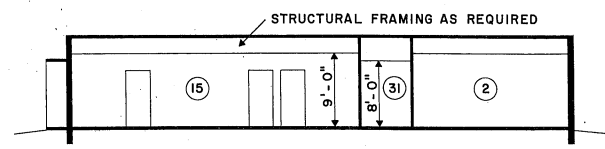
AD 30-10-25
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974 SHEET 1 OF 1

C2

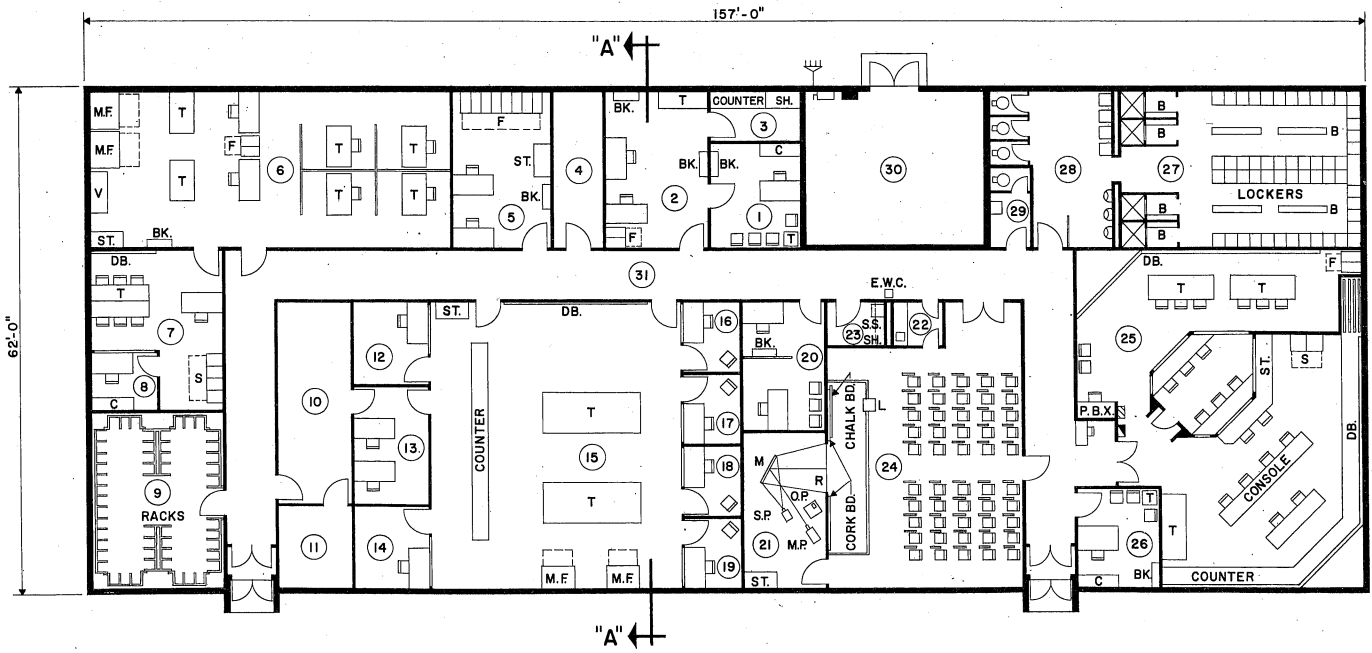


ELECTRICAL RISER DIAGRAM
NO SCALE

RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-0" x 13'-6"	162
2	ORDERLY ROOM	12'-0" x 20'-0"	240
3	STORAGE ROOM	12'-0" x 6'-6"	78
4	ADMINISTRATIVE STORAGE	6'-0" WIDE	720
5	RECORDS ROOM	13'-0" x 20'-0"	260
6	OPERATIONAL INTELLIGENCE	45'-0" x 20'-0"	900
7	AIR ROOM		263
8	INTELLIGENCE OFFICER	8'-6" x 8'-0"	68
9	PROTECTIVE EQUIPMENT	17'-0" x 22'-6"	382
10	OBSERVERS & PLOTTERS	9'-4" x 25'-0"	233
11	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-4" x 11'-0"	103
12	WEATHER COMMUNICATIONS	9'-4" x 10'-6"	98
13	FORECASTERS	9'-4" x 14'-6"	135
14	BASE OPERATIONS	9'-4" x 11'-0"	102
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	30'-10" x 36'-0"	1,110
16	FLIGHT LEADER'S OFFICE	7'-6" x 9'-0"	68
17	FLIGHT LEADER'S OFFICE	7'-6" x 9'-0"	68
18	FLIGHT LEADER'S OFFICE	7'-6" x 9'-0"	68
19	FLIGHT LEADER'S OFFICE	7'-6" x 9'-0"	68
20	OPERATIONS OFFICE	10'-0" x 14'-0"	140
21	REAR PROJECTION ROOM	10'-0" x 20'-0"	200
22	COFFEE UNIT	5'-9" x 5'-9"	33
23	JANITOR'S CLOSET	8'-6" x 5'-9"	49
24	AIRCREW BRIEFING/TRAINING ROOM		800
25	COMBAT OPERATIONS CENTER		1,403
26	D. C. O. OFFICE	10'-0" x 13'-0"	130
27	AIRCREW LOCKER ROOM	31'-0" x 20'-0"	620
28	MEN'S LATHINE		248
29	LADIES TOILET	5'-6" x 9'-6"	52
30	HEATING & UTILITY ROOM	22'-0" x 20'-0"	440
31	CORRIDOR	6'-0" WIDE	1,053
	TOTAL		9,734



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 428-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65	42.83	38.93	146.76
ESTIMATED DEMAND	65	39.70	35.00	139.70

WATER (GPM)			
HOT	7		
COLD	56		
TOTAL	59		

TOTAL (GPD)	
7,500	

SEWAGE (GPD)	
5,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR 510

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA

9,734 SQ. FT.

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CREDENZA
- D.B. DISPLAY BOARD
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- L LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- O.P. OVERHEAD PROJECTOR
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE
- V MIM - 1 LIGHT TABLE VIEWER

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

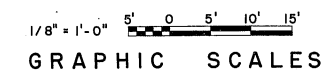
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

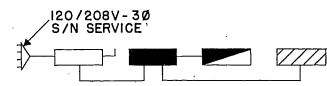
AIR RESERVE FORCES
SQUADRON OPERATIONS
TACTICAL FIGHTER SQUADRON
F-100 / F-104 / F-105 / A-37 AIRCRAFT
PLAN & SECTION

APPROVED
George J. Rutledge
FOR CHIEF OF STAFF USAF

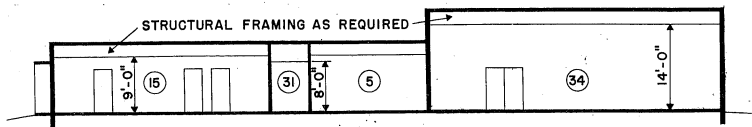
AD 30-10-26

SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974 SHEET 1 OF 1





ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM SCHEDULE			
RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-0" x 13'-5"	163
2	ORDERLY ROOM	12'-0" x 20'-0"	240
3	STORAGE ROOM	12'-0" x 6'-0"	78
4	CORRIDOR	6'-0" WIDE	264
5	RECORDS ROOM	13'-0" x 20'-0"	260
6	OPERATIONAL INTELLIGENCE	45'-0" x 20'-0"	900
7	AIR ROOM		263
8	INTELLIGENCE OFFICER	8'-0" x 8'-0"	68
9	PROTECTIVE EQUIPMENT	17'-0" x 22'-0"	382
10	OBSERVERS & PLOTTERS	9'-4" x 25'-0"	233
11	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-4" x 11'-0"	103
12	WEATHER COMMUNICATIONS	9'-4" x 10'-0"	98
13	FORECASTERS	9'-4" x 14'-0"	135
14	BASE OPERATIONS	9'-4" x 11'-0"	102
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	30'-10" x 34'-0"	1,110
16	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	68
17	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	68
18	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	68
19	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	68
20	OPERATIONS OFFICE	10'-0" x 14'-0"	140
21	REAR PROJECTION ROOM	10'-0" x 20'-0"	200
22	COFFEE UNIT	5'-0" x 5'-0"	33
23	JANITOR'S CLOSET	8'-0" x 3'-0"	49
24	AIRCREW BRIEFING/TRAINING ROOM		800
25	COMBAT OPERATIONS CENTER		1,403
26	D. C. O. OFFICE	10'-0" x 13'-0"	130
27	AIRCREW LOCKER ROOM	31'-0" x 20'-0"	620
28	MEN'S LATRINE		248
29	LADIES TOILET	5'-0" x 9'-0"	52
30	HEATING & UTILITY ROOM	22'-0" x 20'-0"	440
31	CORRIDOR	6'-0" WIDE	1,054
32	OFFICE & ADMINISTRATION	20'-0" x 22'-0"	455
33	BRIEFING	24'-0" x 25'-0"	600
34	SIMULATOR ROOM	44'-0" x 48'-0"	2,148
35	HEATING & UTILITY ROOM	13'-0" x 25'-0"	331
36	MAINTENANCE & STORAGE	19'-0" x 22'-0"	292
37	UTILITY ROOM	22'-0" x 15'-0"	341
38	PARACHUTE FOLDING ROOM	22'-0" x 94'-0"	2,079
39	DRYING TOWER	18'-0" x 29'-0"	522
40	WASH ROOM	18'-0" x 14'-0"	258
41	TOILET	18'-0" x 5'-0"	102
42	OFFICE	18'-0" x 10'-0"	180
43	DINGHY ROOM	18'-0" x 34'-0"	612
44	SURVIVAL KIT STORAGE	6'-0" x 9'-0"	62
45	SURVIVAL KIT INSPECTION & REPAIR	14'-0" x 17'-0"	244
	TOTAL		18,186

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 422-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65.0	82.0	72.8	219.8
ESTIMATED DEMAND	65.0	77.9	65.5	208.4

WATER (GPM)	
HOT	15
COLD	66
TOTAL	70

TOTAL (GPD)	
	6,750

SEWAGE (GPD)	
	4,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 752

AIR CONDITIONING REQUIREMENTS

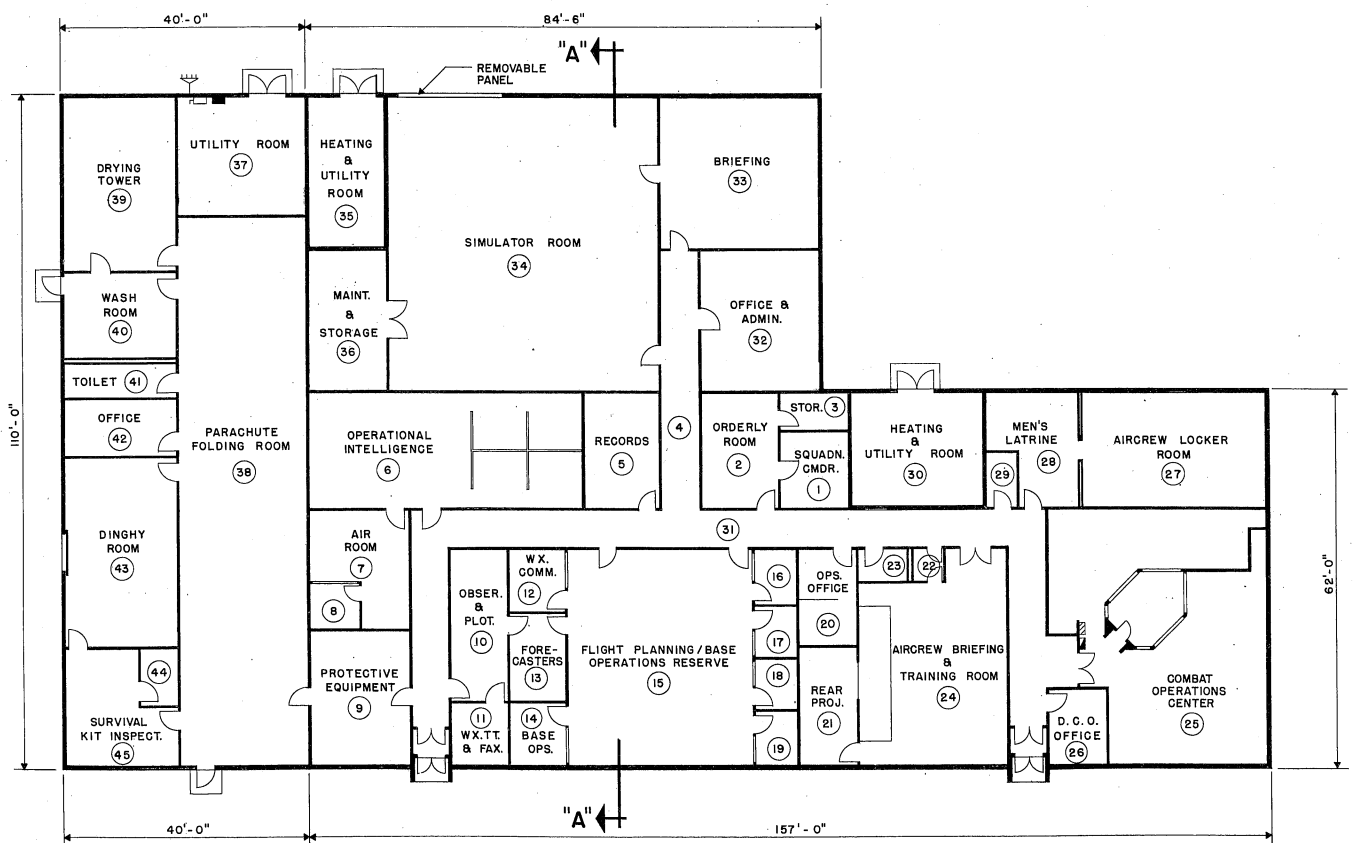
OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA

18,186 SQ. FT.

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

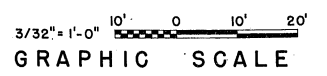


FLOOR PLAN
SCALE 3/32" = 1'-0"

NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

1. SQUADRON OPERATIONS AD 30-10-26
2. FLIGHT SIMULATOR FACILITY AD 28-13-113
3. PARACHUTE & DINGHY SHOP AD 36-33-12



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

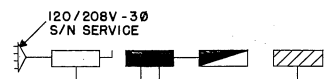
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-212, 218-852

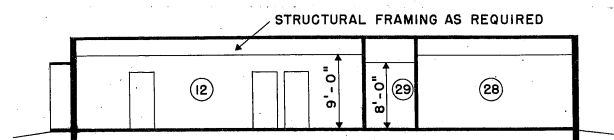
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
SQUADRON OPERATIONS			
COMBINED FACILITY FOR TACTICAL FIGHTER			
SQUADRON F-100/F-104/F-105/A-37 AIRCRAFT			
PLAN B SECTION			

APPROVED	AD 30-10-27
<i>George J. P... [Signature]</i>	SCALE: 3/32" = 1'-0"
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974 SHEET 1 OF 1

C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

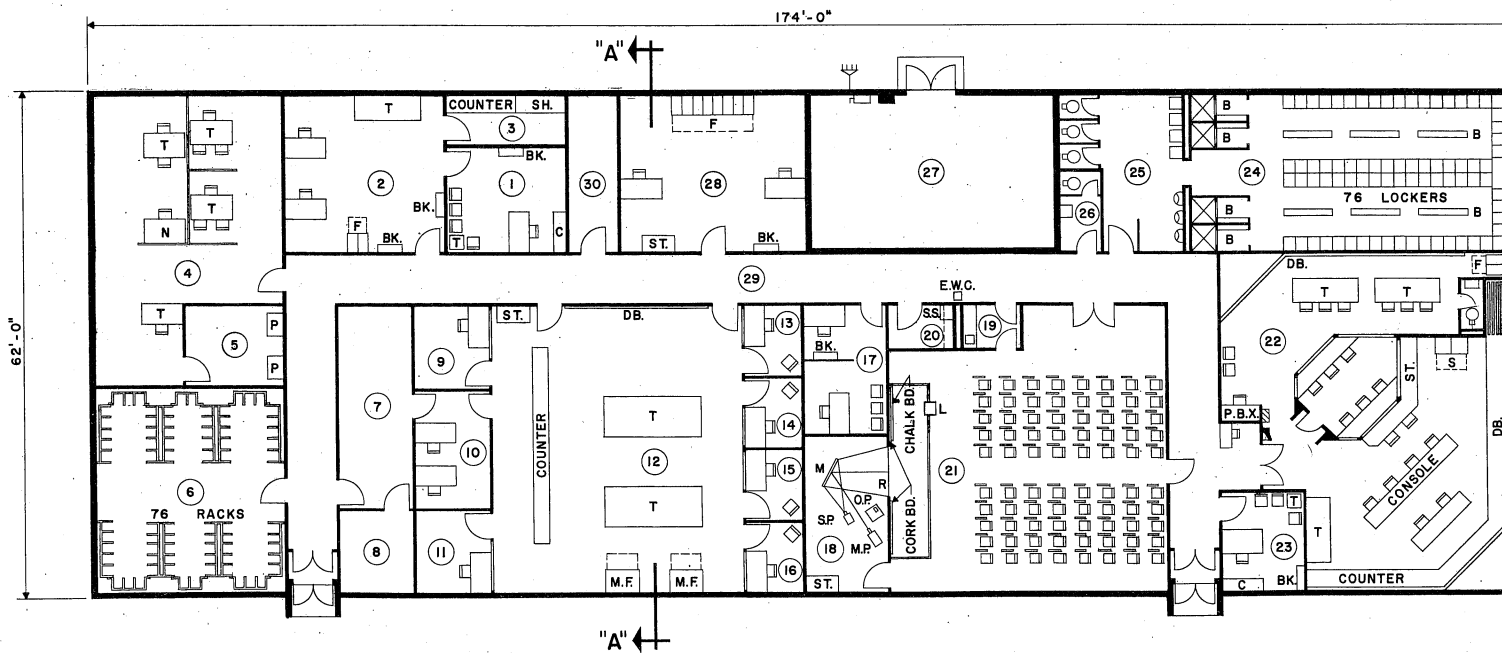
ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1.	COMMANDER'S OFFICE	15'-0" x 14'-0"	210
2.	ORDERLY ROOM	20'-0" x 20'-0"	400
3.	ADMINISTRATIVE STORAGE	15'-0" x 6'-0"	90
4.	FLIGHT DEBRIEFING		744
5.	DARK ROOM	12'-0" x 10'-0"	120
6.	PROTECTIVE EQUIPMENT	24'-0" x 26'-0"	624
7.	OBSERVERS & PLOTTERS	9'-6" x 25'-2"	237
8.	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-6" x 10'-10"	103
9.	WEATHER COMMUNICATIONS	9'-6" x 10'-10"	103
10.	FORECASTERS	9'-6" x 14'-4"	136
11.	BASE OPERATIONS	9'-6" x 10'-10"	103
12.	FLIGHT PLANNING/BASE OPERATIONS RESERVE	3'-0" x 36'-0"	1,116
13.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
14.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
15.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
16.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
17.	OPERATIONS OFFICE	10'-4" x 16'-8"	173
18.	REAR PROJECTION ROOM	10'-4" x 19'-4"	205
19.	COFFEE UNIT	8'-0" x 6'-0"	48
20.	JANITOR'S CLOSET	8'-2" x 6'-0"	52
21.	AIRCREW BRIEFING/TRAINING ROOM		1,142
22.	COMBAT OPERATIONS CENTER		1,392
23.	D. C. O. OFFICE	10'-0" x 12'-0"	120
24.	AIRCREW LOCKER ROOM	39'-6" x 20'-0"	790
25.	MEN'S LATRINE		270
26.	LADIES TOILET		52
27.	HEATING & UTILITY ROOM	30'-6" x 20'-0"	610
28.	RECORDS ROOM	23'-0" x 20'-0"	460
29.	CORRIDOR	4'-0" WIDE	1,116
30.	ADMINISTRATIVE STORAGE	6'-0" x 20'-0"	120
	TOTAL		10,788

LEGEND

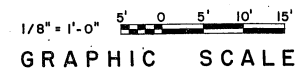
- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CREDENZA
- D.B. DISPLAY BOARD
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- I INSTRUCTOR'S LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- M.P. 16MM MOVIE PROJECTOR
- N NADAR MACHINE
- O.P. OVERHEAD PROJECTOR
- O.S. OSCILLOGRAM PROCESSOR
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- ▨ LIGHTING PANEL
- ▩ POWER PANEL
- ⚡ INCOMING ELECTRICAL SERVICE



FLOOR PLAN
SCALE 1/8" = 1'-0"



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	45.00	43.15	43.15	131.30
ESTIMATED DEMAND	45.00	41.00	39.00	125.00

WATER (GPM)			
HOT	13		
COLD	59		
TOTAL	64		
TOTAL	(GPD)	6,300	
SEWAGE	(GPD)	4,200	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F

M/BTU/HR = 550

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB

TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING
GROSS AREA 10,788 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
FIGHTER INTERCEPTOR SQUADRON
F-101 AIRCRAFT
PLAN & SECTION

APPROVED

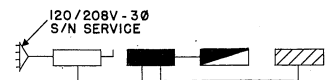
Henry J. Potts, Jr.
FOR CHIEF OF STAFF USAF

AD 30-10-28

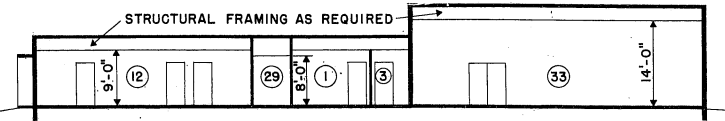
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 1

C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM SCHEDULE			
RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1.	COMMANDER'S OFFICE	15'-0" x 14'-0"	210
2.	ORDERLY ROOM	20'-0" x 20'-0"	400
3.	ADMINISTRATIVE STORAGE	15'-0" x 9'-0"	135
4.	FLIGHT DEBRIEFING	9'-0" x 29'-2"	259
5.	DARK ROOM	12'-0" x 10'-0"	120
6.	PROTECTIVE EQUIPMENT	24'-0" x 20'-0"	480
7.	OBSERVERS & PLOTTERS	9'-0" x 29'-2"	259
8.	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-0" x 10'-10"	103
9.	WEATHER COMMUNICATIONS	9'-0" x 10'-10"	103
10.	FORECASTERS	9'-0" x 12'-4"	108
11.	BASE OPERATIONS	9'-0" x 10'-10"	103
12.	FLIGHT PLANNING/BASE OPERATIONS RESERVE	3'-0" x 36'-0"	1,116
13.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
14.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
15.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
16.	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
17.	OPERATIONS OFFICE	10'-6" x 16'-6"	173
18.	REAR PROJECTION ROOM	10'-4" x 19'-6"	205
19.	COFFEE UNIT	8'-0" x 6'-0"	48
20.	JANITOR'S CLOSET	8'-0" x 6'-0"	48
21.	AIRCREW BRIEFING/TRAINING ROOM		1,142
22.	COMBAT OPERATIONS CENTER		1,392
23.	D.C.O. OFFICE	10'-0" x 12'-0"	120
24.	AIRCREW LOCKER ROOM	39'-6" x 20'-0"	790
25.	MEN'S LATRINE		270
26.	LADIES TOILET	5'-0" x 10'-0"	50
27.	HEATING & UTILITY ROOM	30'-6" x 20'-0"	610
28.	RECORDS ROOM	23'-0" x 20'-0"	460
29.	CORRIDOR	6'-0" WIDE	1,116
30.	CORRIDOR	6'-0" WIDE	255
31.	OFFICE & ADMINISTRATION	20'-3" x 22'-6"	456
32.	BRIEFING	26'-8" x 25'-6"	680
33.	SIMULATOR ROOM	44'-9" x 48'-0"	2,148
34.	HEATING & UTILITY ROOM	13'-0" x 29'-6"	381
35.	MAINTENANCE & STORAGE	13'-0" x 22'-6"	292
36.	UTILITY ROOM	22'-0" x 15'-0"	330
37.	PARACHUTE FOLDING ROOM	22'-0" x 34'-6"	759
38.	DRYING TOWER	18'-0" x 29'-0"	522
39.	WASH ROOM	18'-0" x 14'-4"	258
40.	TOILET	18'-0" x 5'-8"	102
41.	OFFICE	18'-0" x 10'-0"	180
42.	DINGHY ROOM	18'-0" x 34'-0"	612
43.	SURVIVAL KIT STORAGE	6'-6" x 9'-6"	62
44.	SURVIVAL KIT INSPECTION & REPAIR	14'-6" x 17'-0"	244
TOTAL			19,240

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	70.0	77.0	77.0	224.0
ESTIMATED DEMAND	70.0	74.3	69.3	213.6

WATER (GPM)	
HOT	15
COLD	66
TOTAL	70

TOTAL (GPD)	
	6,750

SEWAGE (GPD)	
	4,500

HEATING REQUIREMENTS

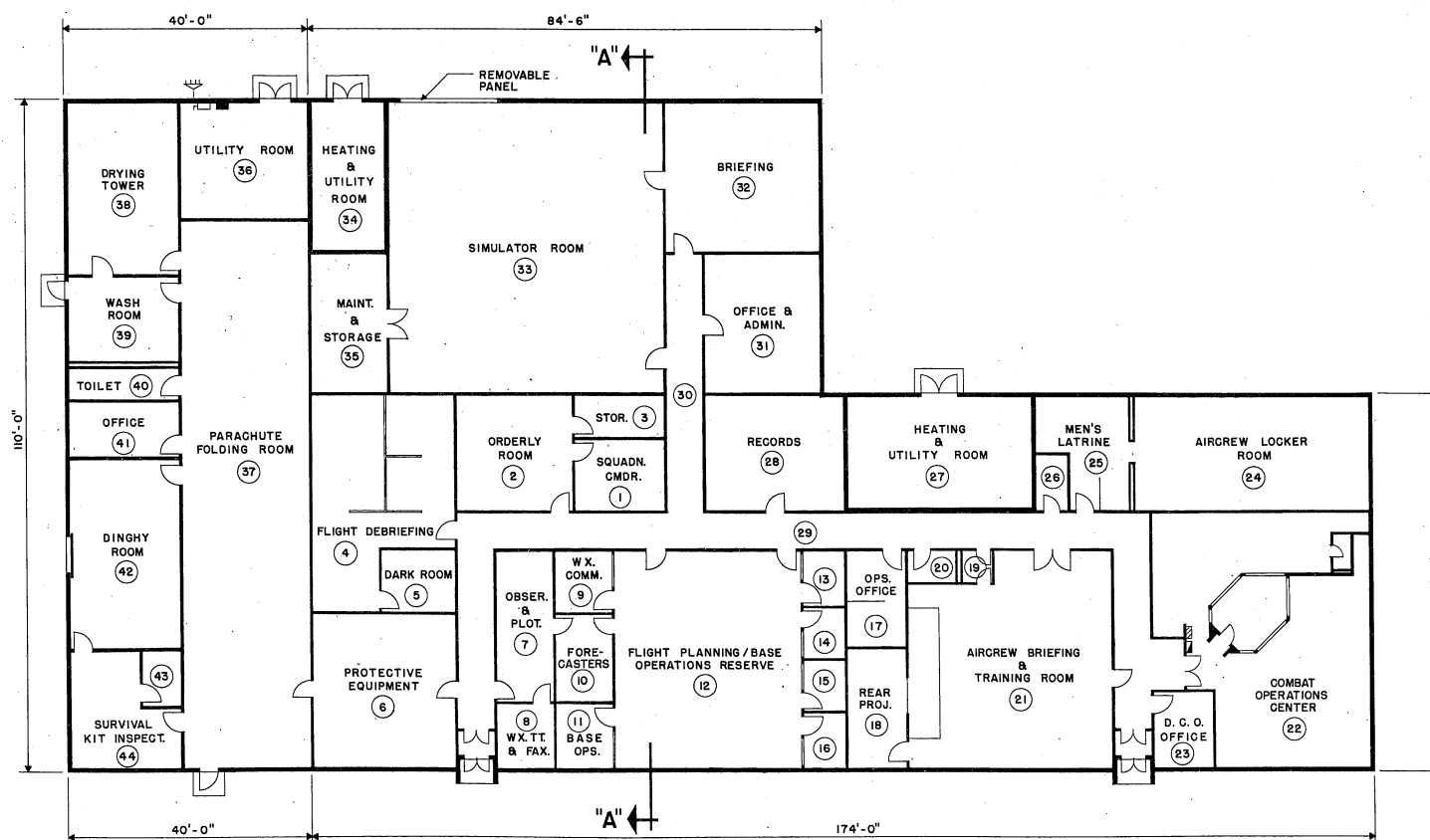
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 800

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 70

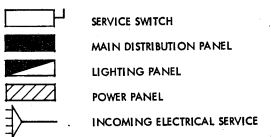
AREA FOR PROGRAMMING GROSS AREA

19,240 SQ. FT.



FLOOR PLAN
SCALE 3/32" = 1'-0"

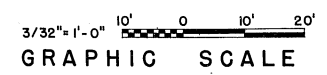
ELECTRICAL LEGEND



NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

- SQUADRON OPERATIONS AD 30-10-28
- FLIGHT SIMULATOR FACILITY AD 28-13-113
- PARACHUTE & DINGHY SHOP AD 36-33-12



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

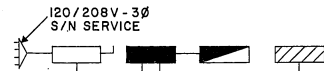
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-212, 218-852

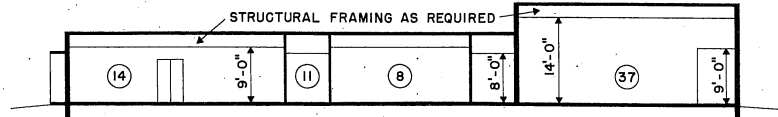
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
SQUADRON OPERATIONS
COMBINED FACILITY FOR FIGHTER
INTERCEPTOR SQUADRON F-101 AIRCRAFT
PLAN & SECTION

APPROVED
George Z. Potholop
FOR CHIEF OF STAFF USAF
AD 30-10-29
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974
SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	SQUADRON COMMANDER	11'-4" x 11'-6"	130
2	UNIT ADMINISTRATION	25'-4" x 23'-6"	595
3	JANITOR'S CLOSET	11'-4" x 8'-8"	75
4	ADMINISTRATIVE STORAGE	11'-4" x 5'-4"	60
5	TRAINING ROOM	18'-0" x 23'-6"	423
6	TACTICAL AIR RECONNAISSANCE OPERATIONS	14'-6" x 11'-9"	170
7	TACTICAL AIRLIFT OPERATIONS	14'-6" x 11'-9"	170
8	OPERATIONS ADMINISTRATION (FLIGHT)	20'-0" x 23'-6"	470
9	COMMANDER'S OFFICE	12'-4" x 11'-9"	145
10	AIR OPERATIONS (FLIGHT)	12'-4" x 11'-9"	145
11	CORRIDOR		2,597
12	REAR PROJECTOR ROOM	8'-6" x 26'-8"	227
13	COFFEE UNIT	8'-6" x 9'-4"	79
14	AIRCREW BRIEFING/TRAINING ROOM	35'-3" x 36'-0"	1,269
15	DISTRICT COMMANDER'S OFFICE	12'-6" x 18'-4"	130
16	COMBAT OPERATIONS OFFICE		1,294
17	RECORDS ROOM	16'-0" x 18'-0"	288
18	OPERATIONS OFFICE	16'-0" x 18'-0"	288
19	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
20	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
21	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
22	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
23	FLIGHT PLANNING/BASE OPERATIONS RESERVE	35'-0" x 35'-0"	1,225
24	WEATHER COMMUNICATIONS	10'-10" x 10'-4"	112
25	FORECASTERS	14'-4" x 10'-4"	148
26	BASE OPERATIONS	10'-10" x 10'-4"	112
27	OBSERVERS & PILOTS	25'-2" x 10'-4"	260
28	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	10'-10" x 10'-4"	112
29	INTELLIGENCE		890
30	AIR ROOM		325
31	INTELLIGENCE OFFICER	9'-0" x 10'-0"	90
32	MAINTENANCE AND QUALITY CONTROL	18'-4" x 36'-6"	669
33	RADIO RELAY MAINTENANCE	27'-4" x 36'-6"	998
34	TEST EQUIPMENT & PORTABLE RADIO STORAGE	35'-10" x 24'-0"	872
35	TELETYPE/CRYPTO MAINTENANCE	24'-6" x 12'-6"	306
36	MAINTENANCE OFFICER	9'-4" x 12'-6"	117
37	GROUND RADIO MAINTENANCE		1,632
38	BATTERY ROOM	7'-6" x 6'-4"	48
39	HEATING & UTILITY ROOM	31'-0" x 27'-0"	837
40	LADIES TOILET	6'-0" x 9'-6"	57
41	MEN'S LATRINE	25'-0" x 16'-8"	417
42	AIRCREW LOCKER ROOM	25'-0" x 30'-0"	750
43	CLOSE AIR SUPPORT OPERATIONS	25'-0" x 12'-4"	308
44	PROTECTIVE EQUIPMENT	25'-0" x 24'-0"	600
	TOTAL		19,635

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	80.0	78.5	66.7	227.2
ESTIMATED DEMAND	80.0	74.6	62.0	216.6

WATER (GPM)	TOTAL
HOT	11
COLD	59
TOTAL	63

TOTAL (GPD)	SEWAGE (GPD)
15,750	10,750

HEATING REQUIREMENTS

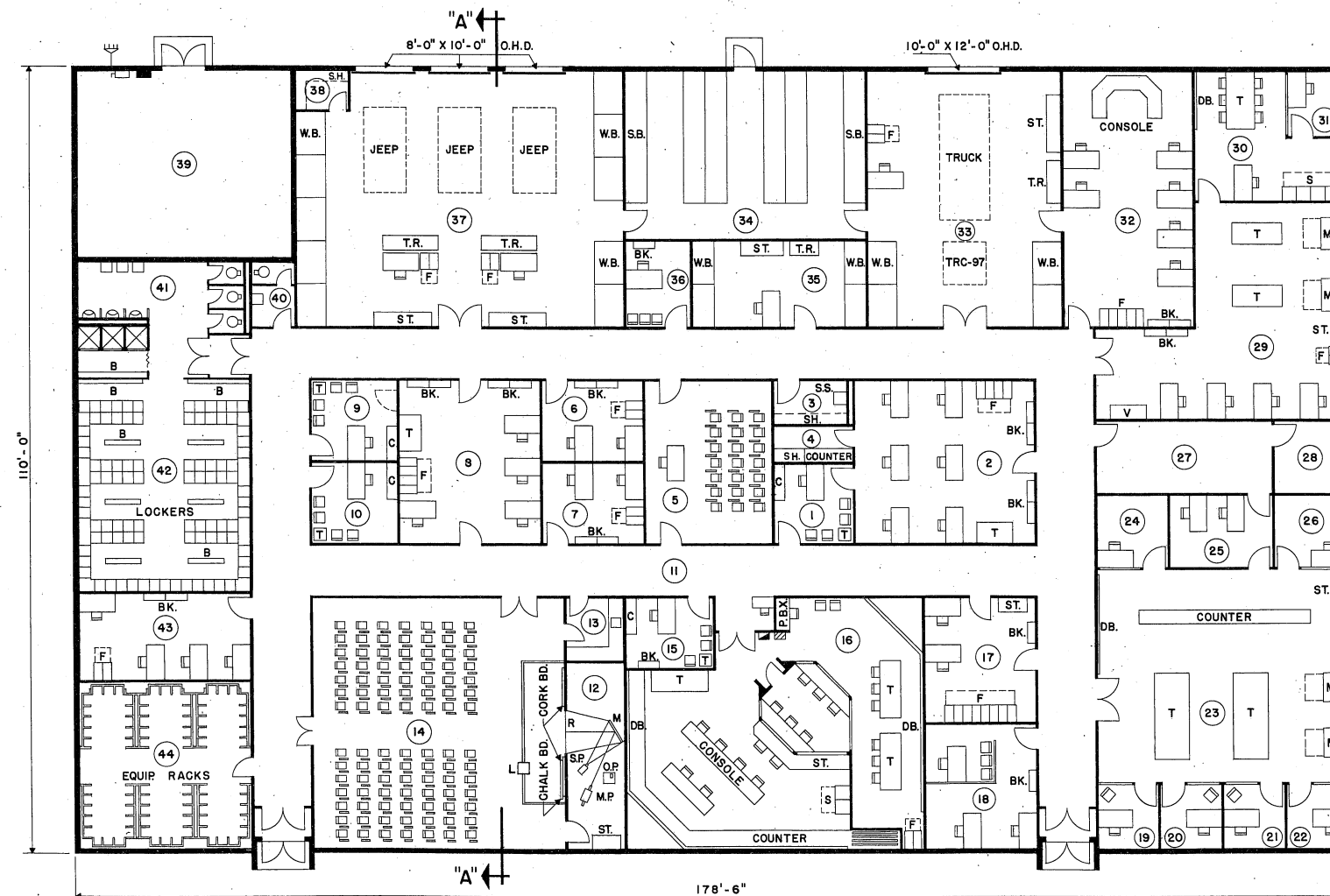
OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 920.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 80

AREA FOR PROGRAMMING GROSS AREA

19,635 SQ. FT.



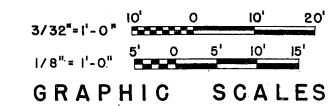
FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CRENZEA
- DB. DISPLAY BOARD
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- I INSTRUCTOR'S LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- M.P. 16 MM MOVIE PROJECTOR
- O.H.D. OVERHEAD DOOR
- O.P. OVERHEAD PROJECTOR
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- S.B. STORAGE BINS
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE
- T.R. TOOL BOX RACK
- V LIGHT TABLE VIEWER
- W.B. WORK BENCH



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-447

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

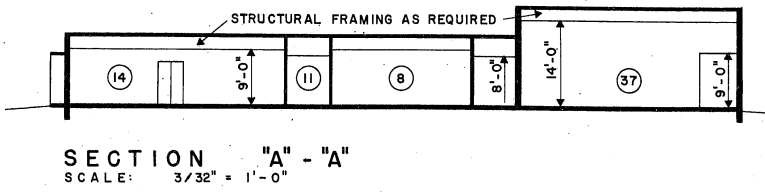
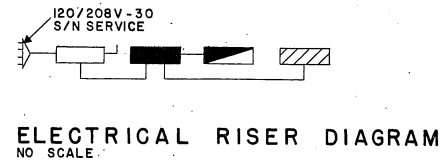
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
COMPOSITE SQUADRON OPERATIONS FACILITY
TACTICAL AIR SUPPORT SQUADRON
& DIRECT AIR SUPPORT FLIGHT

PLAN & SECTION

APPROVED *George L. Peake* **AD 30-10-30**

FOR CHIEF OF STAFF USAF SCALE: AS SHOWN SHEET 1 OF 1
DATE: 6 Nov. 1974



ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	SQUADRON COMMANDER	11'-4" x 11'-6"	130
2	UNIT ADMINISTRATION	25'-4" x 23'-6"	595
3	JANITOR'S CLOSET	11'-4" x 6'-8"	75
4	ADMINISTRATIVE STORAGE	11'-4" x 5'-4"	60
5	TRAINING ROOM	18'-0" x 23'-6"	423
6	TACTICAL AIR RECONNAISSANCE OPERATIONS	14'-6" x 11'-9"	170
7	TACTICAL AIRLIFT OPERATIONS	14'-6" x 11'-9"	170
8	OPERATIONS ADMINISTRATION (FLIGHT)	20'-0" x 23'-6"	470
9	COMMANDER'S OFFICE	12'-4" x 11'-9"	145
10	AIR OPERATIONS (FLIGHT)	12'-4" x 11'-9"	145
11	CORRIDOR		2,397
12	REAR PROJECTOR ROOM	8'-6" x 25'-8"	2,227
13	COFFEE UNIT	8'-6" x 9'-4"	79
14	AIRCREW BRIEFING/TRAINING ROOM	35'-3" x 36'-0"	1,269
15	DISTRICT COMMANDER'S OFFICE	12'-4" x 10'-4"	130
16	COMBAT OPERATIONS OFFICE		1,374
17	RECORDS ROOM	16'-0" x 18'-0"	288
18	OPERATIONS OFFICE	16'-0" x 18'-0"	288
19	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
20	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
21	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
22	FLIGHT LEADER'S OFFICE	9'-0" x 10'-0"	90
23	FLIGHT PLANNING/BASE OPERATIONS RESERVE	36'-0" x 39'-0"	1,404
24	WEATHER COMMUNICATIONS	10'-10" x 10'-4"	112
25	FORECASTERS	14'-4" x 10'-4"	148
26	BASE OPERATIONS	10'-10" x 10'-4"	112
27	OBSERVERS & FLOTTERS	25'-0" x 10'-4"	260
28	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	10'-10" x 10'-4"	112
29	INTELLIGENCE		850
30	AIR ROOM		325
31	INTELLIGENCE OFFICER	9'-0" x 10'-0"	90
32	MAINTENANCE QUALITY CONTROL	18'-4" x 36'-6"	669
33	RADIO RELAY MAINTENANCE	27'-4" x 36'-6"	998
34	TEST EQUIPMENT & PORTABLE RADIO STORAGE	33'-10" x 24'-0"	812
35	TELETYPE/CRYPTO MAINTENANCE	24'-6" x 12'-6"	306
36	MAINTENANCE OFFICE	9'-4" x 12'-6"	117
37	GROUND RADIO MAINTENANCE		1,632
38	BATTERY ROOM	7'-8" x 6'-4"	48
39	HEATING & UTILITY ROOM	31'-0" x 27'-0"	837
40	LADIES TOILET	6'-0" x 9'-6"	57
41	MEN'S LATRINE	25'-0" x 16'-8"	417
42	AIRCREW LOCKER ROOM	25'-0" x 30'-0"	750
43	CLOSE AIR SUPPORT OPERATIONS	25'-0" x 12'-4"	308
44	PROTECTIVE EQUIPMENT	25'-0" x 24'-0"	600
45	UTILITY ROOM	22'-0" x 15'-0"	331
46	PARACHUTE FOLDING ROOM	22'-0" x 24'-6"	539
47	DRYING TOWER	18'-0" x 29'-0"	522
48	WASH ROOM	18'-0" x 14'-4"	258
49	TOILET	18'-0" x 5'-8"	102
50	OFFICE	18'-0" x 10'-0"	180
51	DINGHY ROOM	18'-0" x 34'-0"	612
52	SURVIVAL KIT STORAGE	6'-6" x 9'-6"	62
53	SURVIVAL KIT INSPECTION & REPAIR	14'-6" x 17'-0"	244
	TOTAL		24,035

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

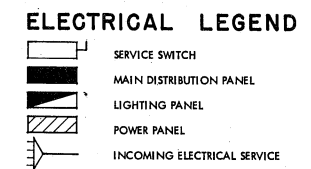
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

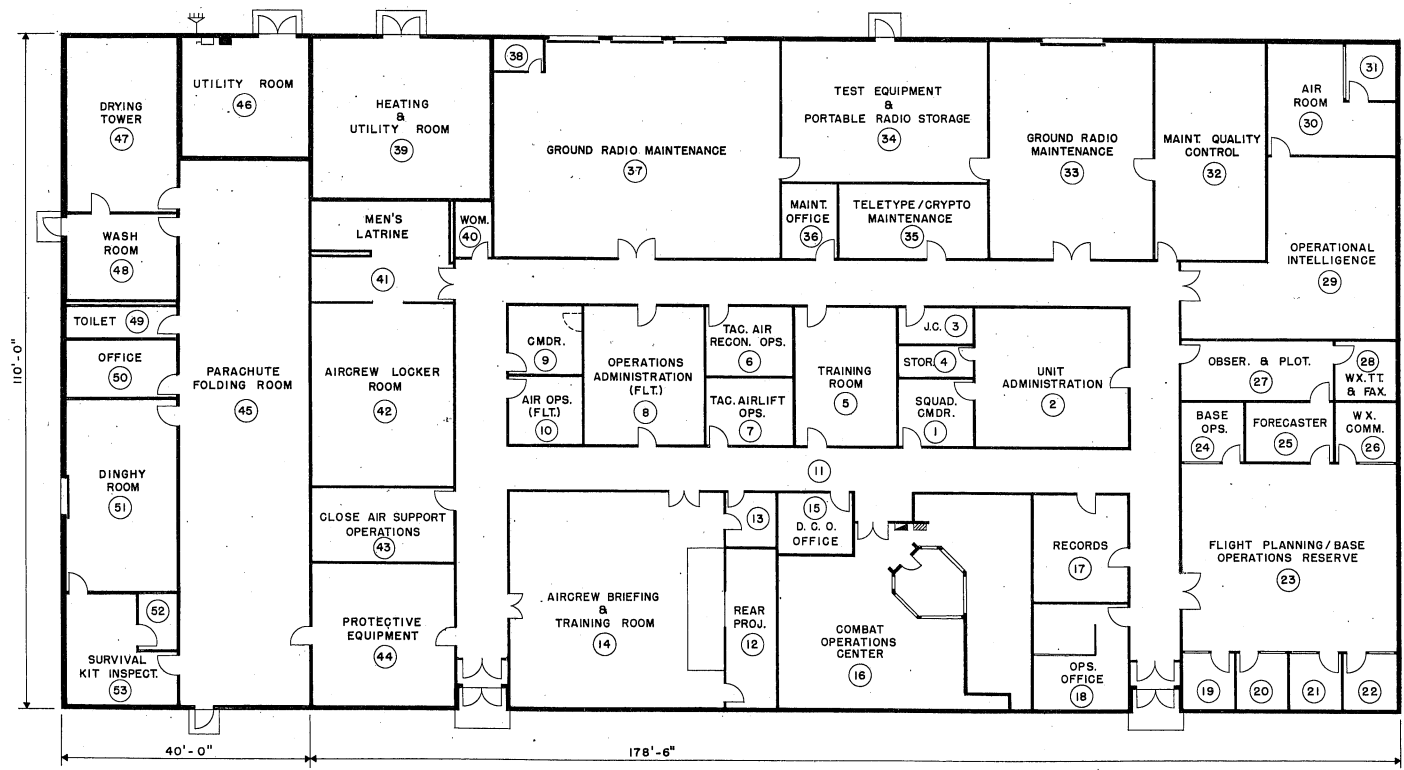
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.

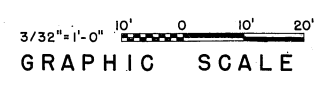


NOTE
FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

- SQUADRON OPERATIONS AD 30-10-30
- FLIGHT SIMULATOR FACILITY AD 28-13-113
- PARACHUTE & DINGHY SHOP AD 36-33-12



FLOOR PLAN
SCALE: 3/32" = 1'-0"



PROGRAMMING AND PLANNING GUIDES
SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	95.0	120.1	96.1	311.2
ESTIMATED DEMAND	95.0	114.0	86.5	295.5

WATER (GPM)	TOTAL (GPD)	SEWAGE (GPD)
HOT 11	15,750	10,750
COLD 59		
TOTAL 63		

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0° F
M³/BTU/HR = 1,246.8

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F. D.S. & 78° F. W.B.
TONS OF REFRIGERATION 95

AREA FOR PROGRAMMING GROSS AREA
24,035 SQ. FT.

DESIGN GUIDES
ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

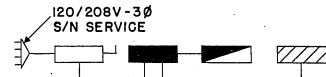
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

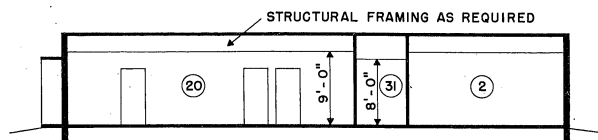
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-447, 218-852

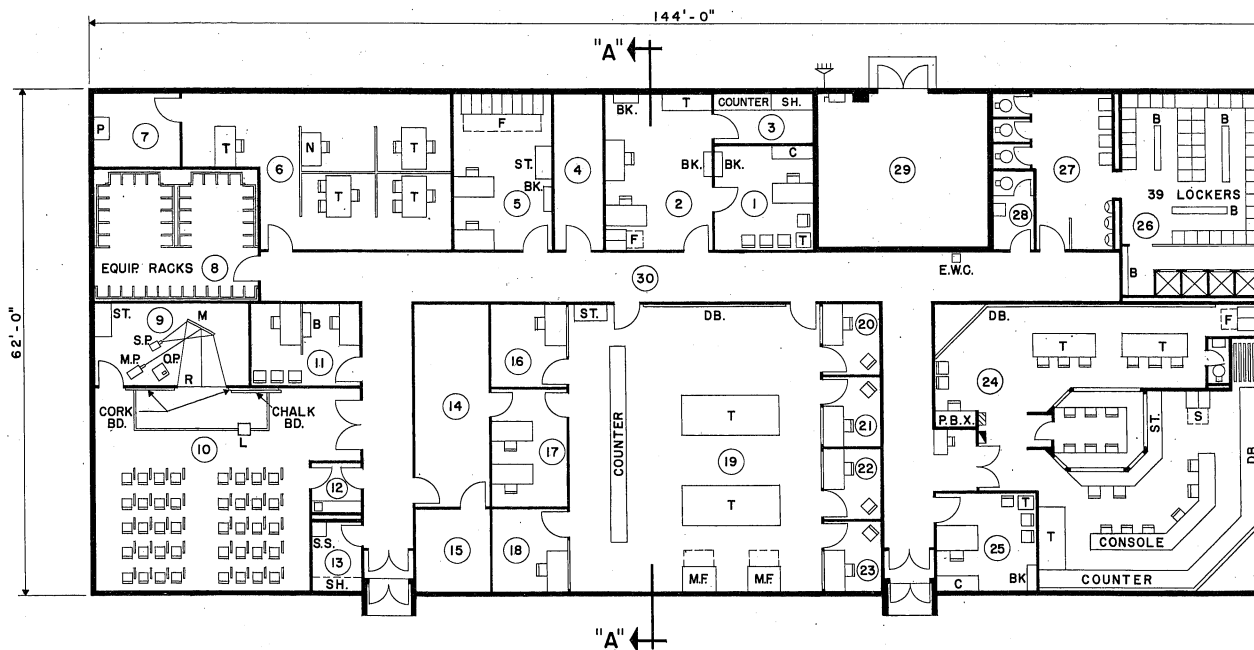
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES COMBINED FACILITY FOR COMPOSITE SQUADRON OPERATIONS - TACTICAL AIR SUPPORT SQUADRON & DIRECT AIR SUPPORT FLIGHT PLAN & SECTION			
APPROVED	AD 30-10-31		
<i>George Z. Rutledge</i>	SCALE: 3/32" = 1'-0"	SHEET 1 OF 1	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974.		



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE 1/8" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 14'-0"	175
2	ORDERLY ROOM	13'-6" x 20'-0"	270
3	ADMINISTRATIVE STORAGE	12'-0" x 6'-0"	72
4	STORAGE	6'-0" x 20'-0"	120
5	RECORDS ROOM	12'-6" x 20'-0"	250
6	FLIGHT DEBRIEFING		575
7	DARK ROOM	11'-0" x 10'-0"	110
8	PROTECTIVE EQUIPMENT	20'-6" x 10'-0"	206
9	REAR PROJECTOR ROOM	19'-8" x 10'-6"	207
10	AIRCREW BRIEFING/TRAINING ROOM		747
11	OPERATIONS OFFICE	19'-10" x 10'-6"	146
12	COFFEE UNIT	6'-6" x 7'-0"	46
13	JANITOR'S CLOSET	6'-6" x 9'-6"	63
14	OBSERVERS & PLOTTERS	9'-6" x 25'-2"	239
15	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-6" x 10'-0"	103
16	WEATHER COMMUNICATIONS	9'-6" x 10'-0"	103
17	FORECASTERS	9'-6" x 14'-4"	136
18	BASE OPERATIONS	9'-6" x 10'-0"	103
19	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-6" x 30'-0"	1,134
20	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
21	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
22	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
23	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
24	COMBAT OPERATIONS CENTER		1,320
25	DISTRICT COMMANDER'S OFFICE	12'-6" x 12'-6"	157
26	AIRCREW LOCKER ROOM	18'-0" x 20'-0"	360
27	MEN'S LATRINE		260
28	LADIES TOILET		50
29	HEATING & UTILITY ROOM	21'-6" x 20'-0"	430
30	CORRIDOR	8'-0" WIDE	1,565
	TOTAL		8,928

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	35.0	35.7	26.9	97.6
ESTIMATED DEMAND	35.0	34.0	24.2	93.2
WATER (GPM)				
HOT	14			
COLD	61			
TOTAL	65			
TOTAL (GPD)	17,250			
SEWAGE (GPD)	11,500			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F

M/BTU/HR = 425.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.

TONS OF REFRIGERATION 35

AREA FOR PROGRAMMING

GROSS AREA

8,928 SQ. FT.

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CREDENZA
- D.B. DISPLAY BOARD
- EQUIP. EQUIPMENT
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- L INSTRUCTOR'S LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- M.P. 16 MM MOVIE PROJECTOR
- N NADAR MACHINE
- O.P. OVERHEAD PROJECTOR
- P OSCILLOGRAM PROCESSOR TYPE 23-109A-PK
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753

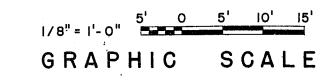
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

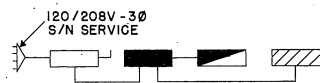
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
FIGHTER INTERCEPTOR SQUADRON
F-102 / F-106 AIRCRAFT
PLAN & SECTION

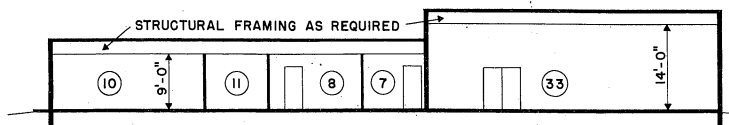
APPROVED
George J. ...
FOR CHIEF OF STAFF USAF

AD 30-10-32
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974 SHEET 1 OF 1



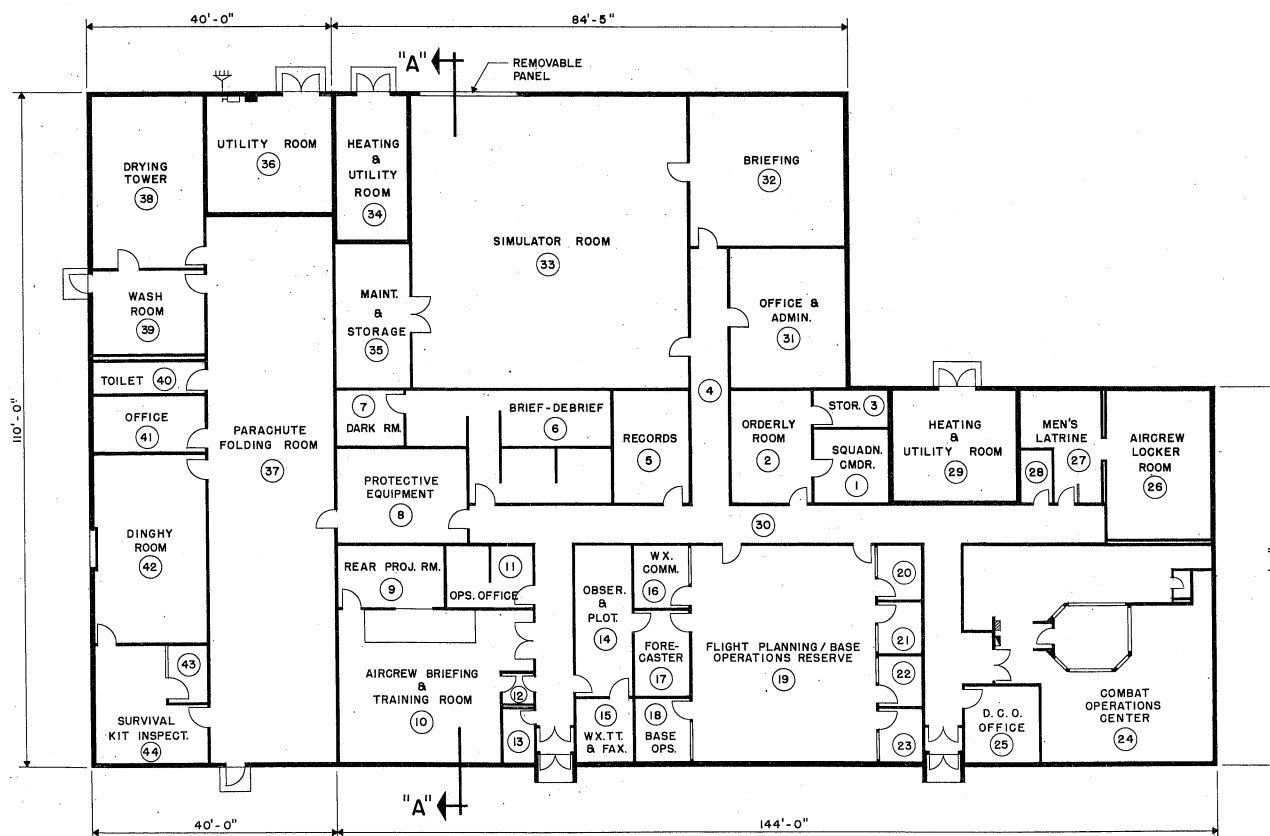


ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 14'-0"	175
2	ORDERLY ROOM	15'-6" x 20'-0"	270
3	ADMINISTRATIVE STORAGE	12'-0" x 8'-0"	72
4	CORRIDOR	8'-0" WIDE	251
5	RECORDS ROOM	12'-6" x 20'-0"	250
6	FLIGHT DEBRIEFING	11'-0" x 10'-0"	110
7	DARK ROOM	11'-0" x 10'-0"	110
8	PROTECTIVE EQUIPMENT	20'-6" x 16'-0"	328
9	REAR PROJECTOR ROOM	19'-8" x 10'-6"	207
10	AIRCREW BRIEFING/TRAINING ROOM	19'-8" x 10'-6"	207
11	OPERATIONS OFFICE	13'-10" x 10'-6"	145
12	COFFEE UNIT	8'-6" x 7'-0"	45
13	JANITOR'S CLOSET	8'-6" x 9'-6"	62
14	OBSERVERS & PLOTTERS	9'-6" x 25'-2"	239
15	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-6" x 10'-10"	103
16	WEATHER COMMUNICATIONS	9'-6" x 10'-10"	103
17	FORECASTERS	9'-6" x 14'-4"	136
18	BASE OPERATIONS	9'-6" x 10'-10"	103
19	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-6" x 36'-0"	1,134
20	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
21	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
22	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
23	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
24	COMBAT OPERATIONS CENTER		1,320
25	DISTRICT COMMANDER'S OFFICE	12'-6" x 12'-6"	157
26	AIRCREW LOCKER ROOM	18'-0" x 28'-0"	468
27	MEN'S LATRINE		250
28	LADIES TOILET	5'-0" x 10'-0"	50
29	HEATING & UTILITY ROOM	21'-6" x 20'-0"	430
30	CORRIDOR	6'-0" WIDE	1,065
31	OFFICE & ADMINISTRATION	20'-0" x 22'-6"	450
32	BRIEFING	26'-0" x 25'-6"	663
33	SIMULATOR ROOM	45'-6" x 48'-0"	2,184
34	HEATING & UTILITY ROOM	19'-0" x 24'-6"	318
35	MAINTENANCE & STORAGE	13'-0" x 23'-6"	306
36	UTILITY ROOM	22'-0" x 15'-0"	341
37	PARACHUTE FOLDING ROOM	22'-0" x 94'-6"	2,079
38	DRYING TOWER	18'-0" x 29'-0"	522
39	WASH ROOM	18'-0" x 14'-4"	258
40	TOILET	18'-0" x 5'-8"	102
41	OFFICE	18'-0" x 10'-0"	180
42	DINGHY ROOM	18'-0" x 34'-0"	612
43	SURVIVAL KIT STORAGE	6'-6" x 9'-6"	62
44	SURVIVAL KIT INSPECTION & REPAIR	14'-6" x 17'-0"	244
	TOTAL		17,384



FLOOR PLAN
SCALE: 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

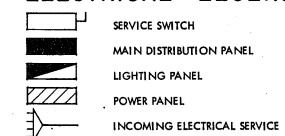
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.

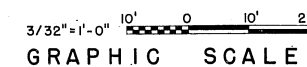
ELECTRICAL LEGEND



NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

1. SQUADRON OPERATIONS AD 30-10-32
2. FLIGHT SIMULATOR FACILITY AD 28-13-113
3. PARACHUTE & DINGHY SHOP AD 36-33-12



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	73.0	86.9	52.1	212.0
ESTIMATED DEMAND	73.0	82.5	46.3	202.4

WATER (GPM)	
HOT	14
COLD	61
TOTAL	65
TOTAL (GPD)	17,250

SEWAGE (GPD)
11,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 1,203.3

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 73

AREA FOR PROGRAMMING GROSS AREA

17,380 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

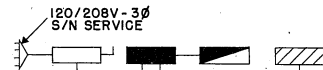
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-212, 218-852

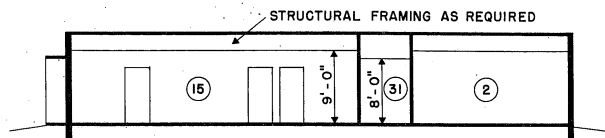
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
SQUADRON OPERATIONS			
COMBINED FACILITY FOR FIGHTER INTERCEPTOR			
SQUADRON F-102/F-106 AIRCRAFT			
PLAN & SECTION			

APPROVED	AD 30-10-33
<i>George J. P. ...</i>	SCALE: 3/32" = 1'-0"
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974
	SHEET 1 OF 1

C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 13'-0"	162
2	ORDERLY ROOM	15'-6" x 20'-0"	310
3	ADMINISTRATIVE STORAGE	12'-6" x 7'-0"	88
4	STORAGE	6'-0" x 20'-0"	120
5	RECORDS ROOM	15'-4" x 20'-0"	306
6	INTELLIGENCE OFFICER	9'-6" x 10'-0"	96
7	AIR ROOM		355
8	OPERATIONAL INTELLIGENCE		797
9	PROTECTIVE EQUIPMENT	24'-0" x 25'-0"	604
10	OBSERVERS & PLOTTERS	9'-0" x 25'-2"	229
11	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-0" x 10'-10"	103
12	WEATHER COMMUNICATIONS	9'-0" x 10'-10"	103
13	FORECASTERS	9'-0" x 14'-4"	126
14	BASE OPERATIONS	9'-0" x 10'-10"	103
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-0" x 36'-0"	1,116
16	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
17	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
18	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
19	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
20	OPERATIONS OFFICE	10'-4" x 18'-0"	188
21	REAR PROJECTION ROOM	10'-4" x 20'-0"	210
22	COFFEE UNIT	7'-9" x 6'-0"	47
23	JANITOR'S CLOSET	8'-9" x 6'-0"	53
24	AIRCREW BRIEFING/TRAINING ROOM		1,143
25	COMBAT OPERATIONS CENTER		1,379
26	DISTRICT COMMANDER'S OFFICE	10'-6" x 12'-6"	133
27	AIRCREW LOCKER ROOM	41'-0" x 20'-0"	820
28	MEN'S LATRINE		258
29	LADIES TOILET		62
30	HEATING & UTILITY ROOM	24'-6" x 20'-0"	490
31	CORRIDOR	6'-0" WIDE	1,116
	TOTAL		10,788

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. - SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

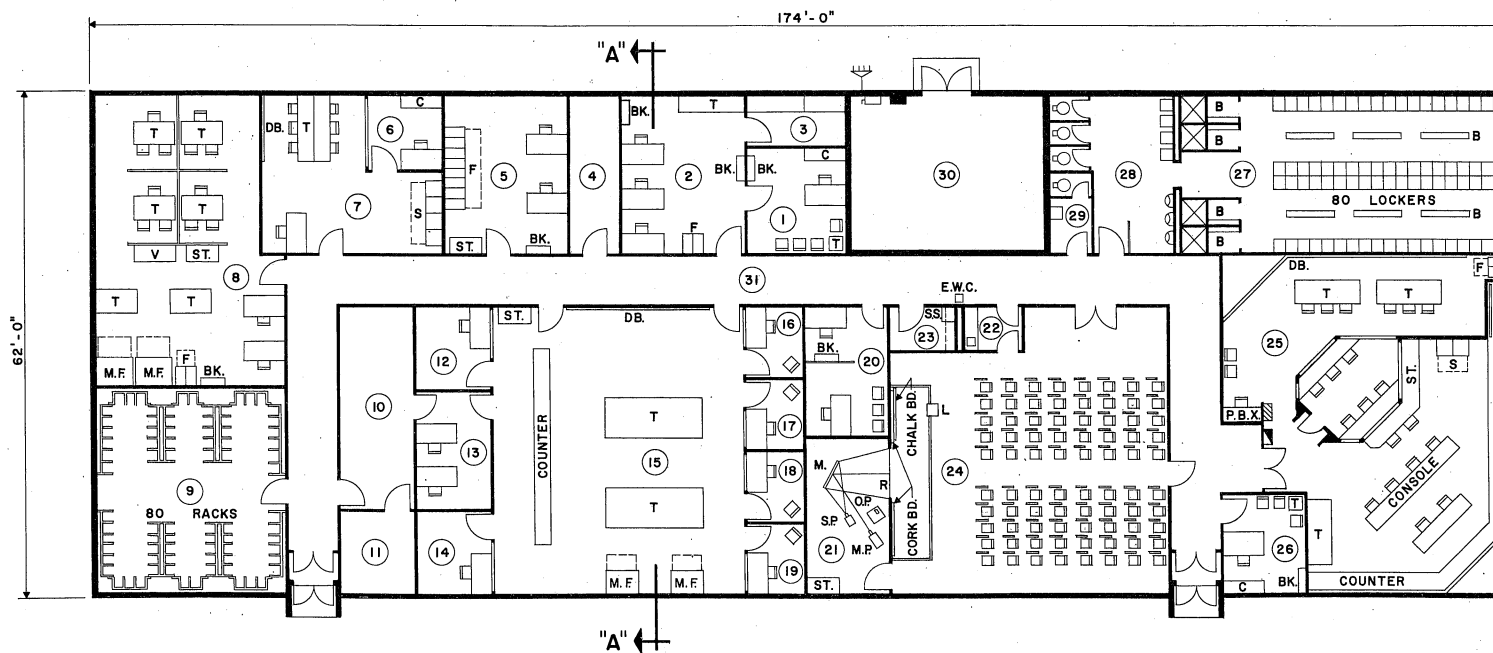
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ELECTRICAL LEGEND

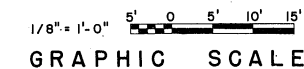
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



FLOOR PLAN
SCALE 1/8" = 1'-0"

LEGEND

- B BENCH
- BD. BOARD
- BK. BOOKCASE
- C CREDENZA
- DB. DISPLAY BOARD
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- L INSTRUCTOR'S LECTERN
- M ADJUSTABLE FRONT SURFACE MIRROR
- M.F. MAP FILE
- M.P. 16MM MOVIE PROJECTOR
- O.P. OVERHEAD PROJECTOR
- P.B.X. TELETYPE MACHINE
- R REAR PROJECTION SCREEN
- S SAFE
- SH. SHELVES
- S.P. SLIDE PROJECTOR
- S.S. SERVICE SINK
- ST. STORAGE CABINET
- T TABLE
- V MIN - 1 LIGHT TABLE VIEWER



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	50.0	54.0	43.1	147.1
ESTIMATED DEMAND	50.0	51.3	38.7	140.0

WATER (GPM)	TOTAL
HOT	14
COLD	61
TOTAL	65

TOTAL (GPD)	SEWAGE (GPD)
17,250	11,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 637.5

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D.B. & 78° F. W.B.
TONS OF REFRIGERATION 50

AREA FOR PROGRAMMING GROSS AREA
10,788 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

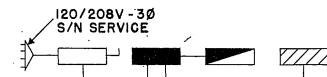
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
TACTICAL FIGHTER SQUADRON
F-4 AIRCRAFT
PLAN & SECTION

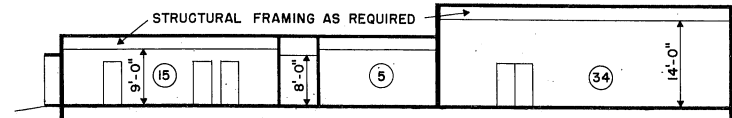
APPROVED
George J. Puckett, Jr.
FOR CHIEF OF STAFF USAF

AD 30-10-34
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	COMMANDER'S OFFICE	12'-6" x 12'-0"	152
2	ORDERLY ROOM	15'-6" x 20'-0"	310
3	ADMINISTRATIVE STORAGE	12'-6" x 7'-0"	88
4	STORAGE	8'-0" x 20'-0"	160
5	RECORDS ROOM	15'-4" x 20'-0"	306
6	INTELLIGENCE OFFICER	9'-6" x 10'-0"	96
7	AIR ROOM		355
8	OPERATIONAL INTELLIGENCE		797
9	PROTECTIVE EQUIPMENT	24'-0" x 26'-0"	624
10	OBSERVERS & PLOTTERS	9'-0" x 25'-2"	225
11	WEATHER, TELETYPE & THERMOFAX EQUIPMENT	9'-0" x 10'-10"	103
12	WEATHER COMMUNICATIONS	9'-0" x 10'-10"	103
13	FORECASTERS	9'-0" x 14'-4"	136
14	BASE OPERATIONS	9'-0" x 10'-10"	103
15	FLIGHT PLANNING/BASE OPERATIONS RESERVE	31'-0" x 36'-0"	1,116
16	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
17	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
18	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
19	FLIGHT LEADER'S OFFICE	7'-0" x 9'-0"	63
20	OPERATIONS OFFICE	10'-6" x 18'-0"	188
21	REAR PROJECTION ROOM	10'-6" x 20'-0"	210
22	COFFEE UNIT	7'-9" x 6'-0"	47
23	JANITOR'S CLOSET		3
24	AIRCREW BRIEFING/TRAINING ROOM	8'-9" x 6'-0"	53
25	COMBAT OPERATIONS CENTER		1,143
26	DISTRICT COMMANDER'S OFFICE	10'-6" x 12'-8"	133
27	AIRCREW LOCKER ROOM	41'-0" x 20'-0"	820
28	MEN'S LATRINE		258
29	LADIES TOILET	6'-0" x 10'-4"	62
30	HEATING & UTILITY ROOM	24'-6" x 20'-0"	490
31	CORRIDOR	6'-0" WIDE	1,116
32	OFFICE & ADMINISTRATION	20'-0" x 22'-6"	450
33	BRIEFING	26'-0" x 25'-6"	653
34	SIMULATOR ROOM	45'-0" x 48'-0"	2,160
35	HEATING & UTILITY ROOM	19'-6" x 25'-6"	504
36	MAINTENANCE & STORAGE	19'-6" x 25'-6"	504
37	UTILITY ROOM	22'-0" x 15'-0"	330
38	PARACHUTE FOLDING ROOM	22'-0" x 94'-6"	2,079
39	DRYING TOWER	18'-0" x 29'-0"	522
40	WASH ROOM	18'-0" x 14'-4"	258
41	TOILET	18'-0" x 5'-8"	102
42	OFFICE	18'-0" x 10'-0"	180
43	DINGHY ROOM	18'-0" x 34'-0"	612
44	SURVIVAL KIT STORAGE	6'-6" x 9'-6"	62
45	SURVIVAL KIT INSPECTION & REPAIR	14'-6" x 17'-0"	244
	TOTAL		19,244

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	83.0	96.3	57.7	237.0
ESTIMATED DEMAND	83.0	91.5	52.0	226.5

WATER (GPM)	HOT	COLD	TOTAL
HOT	14		
COLD		61	
TOTAL			65

TOTAL (GPD)	SEWAGE (GPD)
17,250	11,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 1,211.1

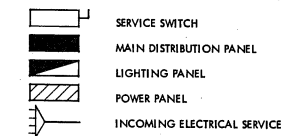
AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.B. & 78° F.W.B.
TONS OF REFRIGERATION 83

AREA FOR PROGRAMMING GROSS AREA

19,244 SQ. FT.

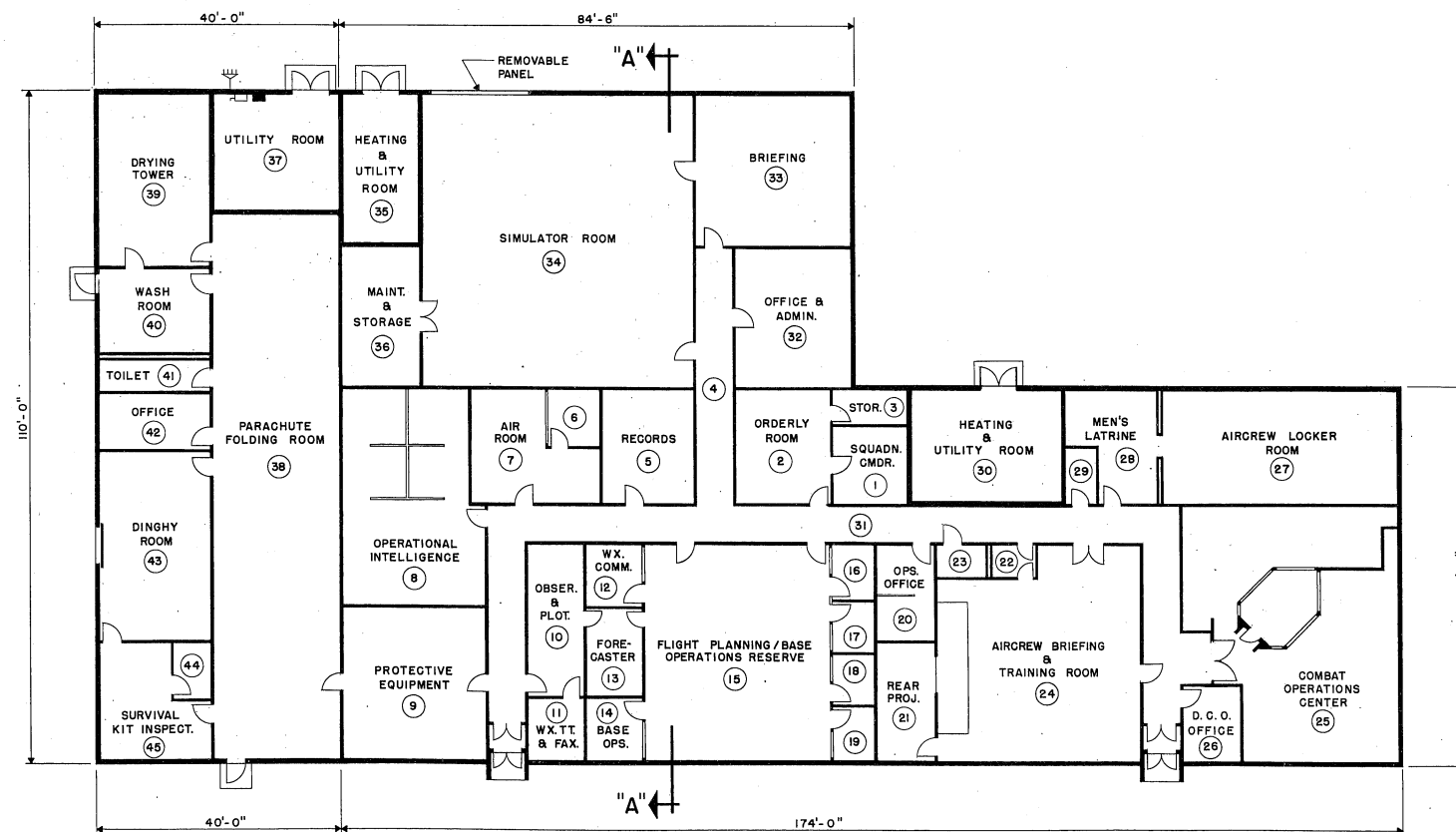
ELECTRICAL LEGEND



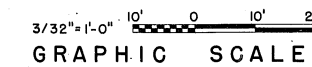
NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS:

- SQUADRON OPERATIONS AD 30-10-34
- FLIGHT SIMULATOR FACILITY AD 28-13-113
- PARACHUTE & DINGHY SHOP AD 36-33-12



FLOOR PLAN
SCALE 3/32" = 1'-0"



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753, 171-212, 218-852

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

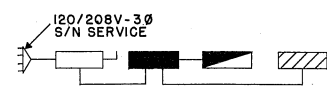
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS
COMBINED FACILITY FOR TACTICAL
FIGHTER SQUADRON F-4 AIRCRAFT
PLAN & SECTION

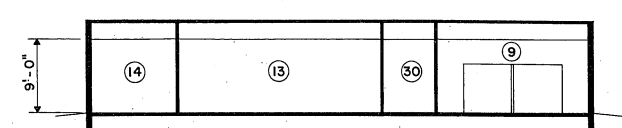
APPROVED
George J. Puckett
FOR CHIEF OF STAFF USAF

AD 30-10-35
SCALE: 3/32" = 1'-0" SHEET 1 OF 1
DATE: 6 Nov. 1974

C2



ELECTRICAL RISER DIAGRAM
NO SCALE

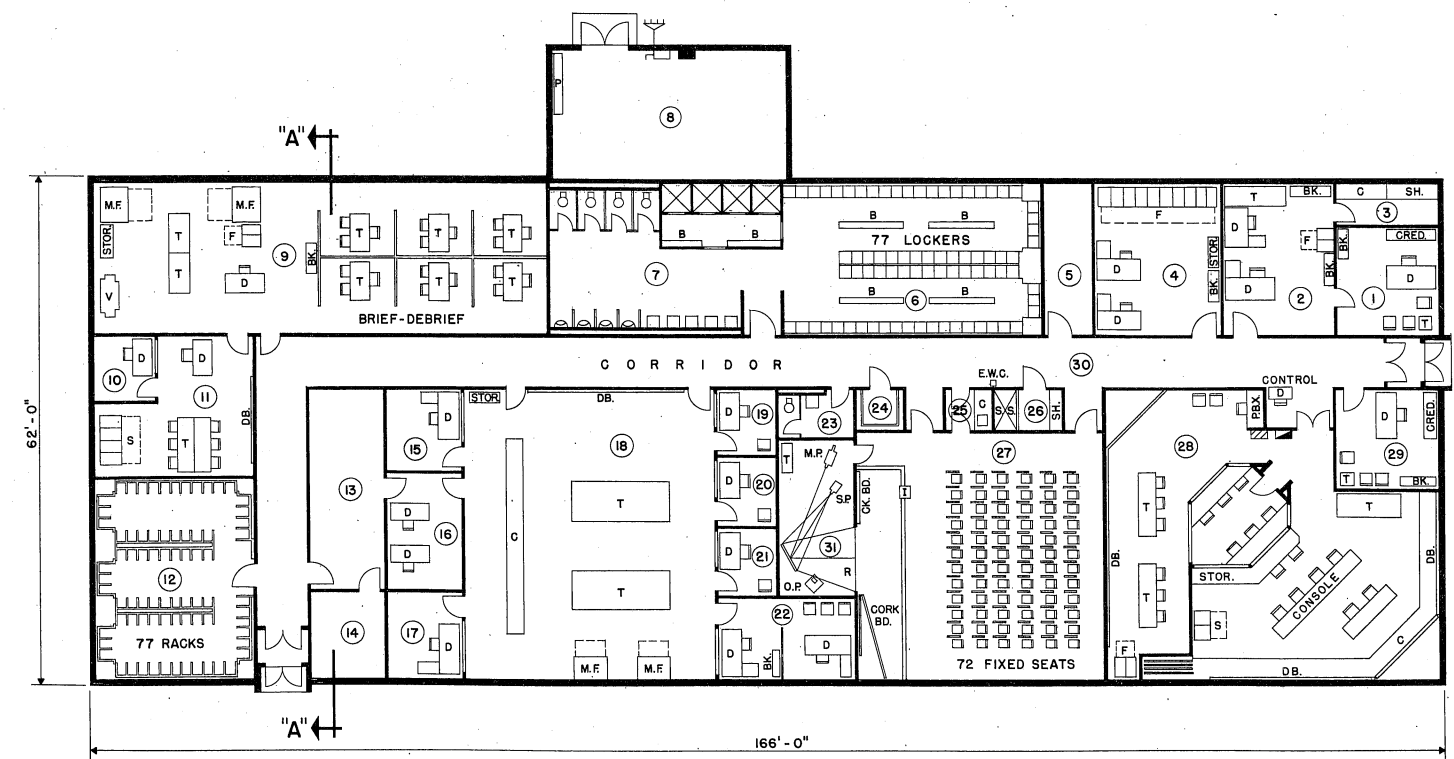


SECTION "A" - "A"
SCALE 1/8" = 1'-0"

ROOM NO.	TITLE	DIMENSIONS	GROSS AREA, SQ. FT.
1	SQUADRON COMMANDER	13'-6" x 13'-0"	175.5
2	ORDERLY ROOM	14'-0" x 19'-0"	266.0
3	STORAGE	5'-6" x 13'-0"	71.5
4	RECORDS	16'-0" x 19'-0"	304.0
5	STORAGE	6'-0" x 19'-0"	114.0
6	AIRCREW LOCKER ROOM	19'-0" x 32'-0"	608.0
7	MENS' LATRINE	19'-0" x 28'-0"	541.5
8	HEATING & UTILITY ROOM	17'-0" x 30'-0"	510.0
9	OPERATIONAL INTELLIGENCE	19'-0" x 36'-0"	1,064.0
10	O.I.C. OFFICE	8'-6" x 8'-6"	72.0
11	AIR ROOM	13'-0" x 16'-0"	208.0
12	PROTECTIVE EQUIPMENT	20'-6" x 25'-0"	523.0
13	OBSERVERS & PLOTTERS	9'-6" x 25'-0"	247.5
14	WX, T.T. AND FAX EQUIPMENT	9'-6" x 11'-6"	109.0
15	WX COMMANDER	9'-6" x 10'-6"	100.0
16	FORECASTERS	9'-6" x 16'-6"	158.0
17	BASE OPS OFFICE	9'-6" x 11'-6"	109.0
18	FLIGHT PLANNING/BASE OPERATIONS	31'-0" x 36'-0"	1,116.0
19	FLIGHT LEADER	7'-6" x 8'-6"	64.0
20	FLIGHT LEADER	7'-6" x 8'-6"	64.0
21	FLIGHT LEADER	7'-6" x 8'-6"	64.0
22	OPERATIONS OFFICE	11'-0" x 17'-0"	187.0
23	WOMENS' TOILET	6'-0" x 9'-6"	57.0
24	TELEPHONE EQUIPMENT	5'-6" x 6'-0"	33.0
25	COFFEE UNIT	5'-6" x 6'-0"	33.0
26	JANITOR'S CLOSET	5'-6" x 9'-0"	49.5
27	AIRCREW BRIEFING & TRAINING ROOM	30'-6" x 31'-0"	945.5
28	COMBAT OPERATIONS CENTER	36'-6" x 37'-0"	1,349.5
29	D.C.O. OFFICE	12'-6" x 13'-6"	169.0
30	CORRIDOR	6'-6" x 198'-0"	1,309.0
31	REAR PROJECTION ROOM	10'-0" x 19'-0"	195.0
TOTAL			10,802.0

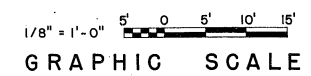
ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



FLOOR PLAN
SCALE 1/8" = 1'-0"

SYMBOL	DESCRIPTION
B	BENCH
BK	BOOKCASE
C	COUNTER
CK, BD.	CHALK BOARD
CRED.	CREDENZA
D	DESK
D.B.	DISPLAY BOARD
E.W.C.	ELECTRIC WATER COOLER
F	FILE CABINET
I	INSTRUCTOR'S LECTERN
M	MAP FILE
M.P.	16 MM MOVIE PROJECTOR
O.P	OPAQUE PROJECTOR
P	ELECTRICAL PANEL
PBX	TELETYPE MACHINE
R	REAR PROJECTION SCREEN
S	SAFES
SH.	SHELVES
S.P.	SLIDE PROJECTOR
S.S.	SERVICE SINK
STOR.	STORAGE CABINET
T	TABLE
V	VIEWER



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	52.0	41.1	133.1
ESTIMATED DEMAND	49.4	32.8	122.2
REFRIGERATION LOAD 40KW INCLUDED IN TOTAL			
WATER (GPM)			
HOT	15		
COLD	65		
TOTAL	67		
TOTAL (GPD)	18,000		
SEWAGE (GPD)	12,000		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR 515.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F.D.S. & 78° F.W.
TONS OF REFRIGERATION 40

AREA FOR PROGRAMMING GROSS AREA

SQUADRON AND BASE OPERATIONS	9,302 SQ. FT.
COMBAT OPERATIONS CENTER	1,500 SQ. FT.
TOTAL	10,802 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-451, 141-453, 141-753

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

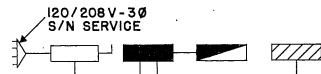
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
SQUADRON OPERATIONS (RF-4 AIRCRAFT)
PLAN & SECTION

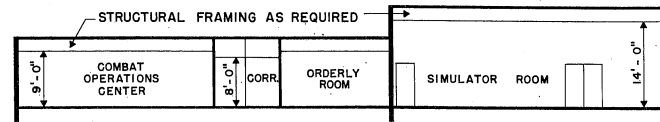
APPROVED
George J. Peake
FOR CHIEF OF STAFF USAF

AD 30-10-36
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 3/32" = 1'-0"

ROOM NO.	TITLE	DIMENSIONS	GROSS AREA, SQ. FT.
1	COMBAT OPERATIONS CENTER	132'-0" x 38'-0"	11,216
2	D.C.O. OFFICE	13'-0" x 12'-0"	156
3	AIRCREW BRIEFING & TRAINING	33'-0" x 32'-0"	1,056
4	JANITOR	10'-0" x 8'-0"	80
5	COFFEE UNIT	6'-6" x 6'-0"	39
6	TELEPHONE EQUIPMENT	5'-0" x 6'-0"	30
7	WOMEN'S LATRINE	9'-0" x 7'-0"	63
8	REAR PROJECTION ROOM	9'-0" x 20'-0"	180
9	OPERATIONS OFFICE	17'-6" x 11'-0"	192
10	FLIGHT LEADERS OFFICE	8'-0" x 9'-6"	76
11	FLIGHT LEADERS OFFICE	8'-0" x 8'-9"	70
12	FLIGHT LEADERS OFFICE	8'-0" x 8'-9"	70
13	BASE OPERATIONS RESERVE	33'-3" x 38'-0"	1,263
14	WX. COMMUNICATIONS	9'-0" x 11'-0"	99
15	FORECAST	9'-0" x 14'-0"	126
16	BASE OPERATIONS OFFICE	9'-0" x 11'-0"	99
17	WX. TT. & FAX EQUIPMENT	9'-6" x 11'-0"	104
18	OBSERVERS & PLOTTERS	9'-6" x 27'-0"	256
19	CORRIDOR	6'-0" WIDE	2,158
20	PROTECTIVE EQUIPMENT	20'-0" x 28'-0"	560
21	AIR ROOM	15'-9" x 19'-0"	299
22	O.I.C. OFFICE	8'-6" x 9'-6"	81
23	PARACHUTE FOLDING ROOM	24'-0" x 50'-0"	1,200
24	SURVIVAL KIT INSPECTION	14'-0" x 11'-0"	154
25	KIT STORAGE	7'-6" x 9'-0"	67
26	DINGHY ROOM	16'-0" x 34'-6"	552
27	OFFICE	14'-0" x 10'-6"	148
28	TOILET	16'-0" x 7'-0"	112
29	WASH ROOM	16'-0" x 13'-6"	216
30	DRYING TOWER	16'-0" x 29'-0"	464
31	HEATING & UTILITY ROOM	14'-0" x 24'-6"	336
32	EDITING & PRODUCTION CONTROL	17'-6" x 21'-9"	360
33	QUALITY CONTROL	22'-0" x 11'-9"	252
34	DARK ROOM	10'-6" x 10'-0"	105
35	DARK ROOM	10'-6" x 10'-0"	105
36	FILM PROCESSING DARK ROOM	14'-0" x 10'-0"	140
37	MANUAL PROCESS	12'-9" x 16'-0"	204
38	FILM PROCESSING DARK ROOM	14'-0" x 10'-0"	140
39	LATRINE	9'-0" x 11'-9"	106
40	JANITOR'S CLOSET	5'-6" x 4'-0"	22
41	CLASSROOM	14'-6" x 21'-9"	315
42	HEATING & UTILITY ROOM	30'-6" x 21'-9"	663
43	MAINTENANCE & STORAGE	20'-0" x 28'-0"	560
44	BRIEFING	20'-0" x 19'-0"	380
45	SIMULATOR ROOM	44'-0" x 45'-0"	1,980
46	STORAGE	12'-9" x 18'-6"	236
47	SQUADRON COMMANDER	12'-0" x 18'-6"	224
48	ORDERLY ROOM	14'-0" x 18'-6"	259
49	RECORDS	14'-6" x 18'-6"	262
50	OFFICE & ADMINISTRATION	16'-9" x 17'-0"	286
51	MANAGE	10'-0" x 17'-0"	170
52	FILM DUPLICATING	15'-9" x 7'-6"	118
53	AUTO PRINTING	15'-9" x 9'-6"	142
54	MANUAL CONTACT PRINTING	18'-9" x 9'-6"	179
55	SORTING & FINISHING	21'-0" x 9'-6"	202
56	MANUAL CONTACT PRINTING	18'-9" x 9'-6"	178
57	SUPPLY ROOM	7'-0" x 4'-0"	31
58	CHEMICAL MIXING	11'-6" x 7'-6"	86
59	P.L. PRINT ROOM	11'-6" x 7'-6"	86
60	EXPLOITATION & PHOTO INTERPRETATION	29'-6" x 17'-0"	501
61	OPERATIONAL INTELLIGENCE	29'-0" x 18'-6"	534
62	MEN'S LATRINE	28'-6" x 18'-6"	527
63	AIRCREW LOCKER ROOM	33'-0" x 18'-6"	600
TOTAL			23,178

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTION FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFM 91-4 AS REQUIRED.

MECHANICAL

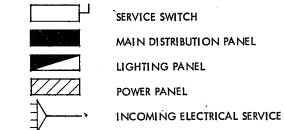
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ELECTRICAL LEGEND



LEGEND

- D.C.O. DISTRICT COMMANDING OFFICER
- FAX. THERMOFAX MACHINE
- J.C. JANITOR'S CLOSET
- TT. TELETYPE MACHINE
- WX. WEATHER EQUIPMENT

NOTE

FOR SEPARATE COMPONENT DEFINITIVE DETAILS REFER TO THE FOLLOWING DRAWINGS.

- 1. SQUADRON OPERATIONS RF-4. AD 30-10-36
- 2. FLIGHT SIMULATOR FACILITY AD 28-13-113
- 3. PARACHUTE & DINGHY SHOP AD 36-33-12
- 4. RECONNAISSANCE PHOTO LABORATORY AD 36-32-16

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING POWER	TOTAL
CONNECTED LOAD	91.3	254.3
ESTIMATED DEMAND	86.7	225.1
WATER REFRIG. LOAD (GPM)	(90)	
HOT	21	
COLD	73	
TOTAL	75	
TOTAL (GPD)	30,000	
SEWAGE (GPD)	20,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR 1,100.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 90

AREA FOR PROGRAMMING GROSS AREA

23,178 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

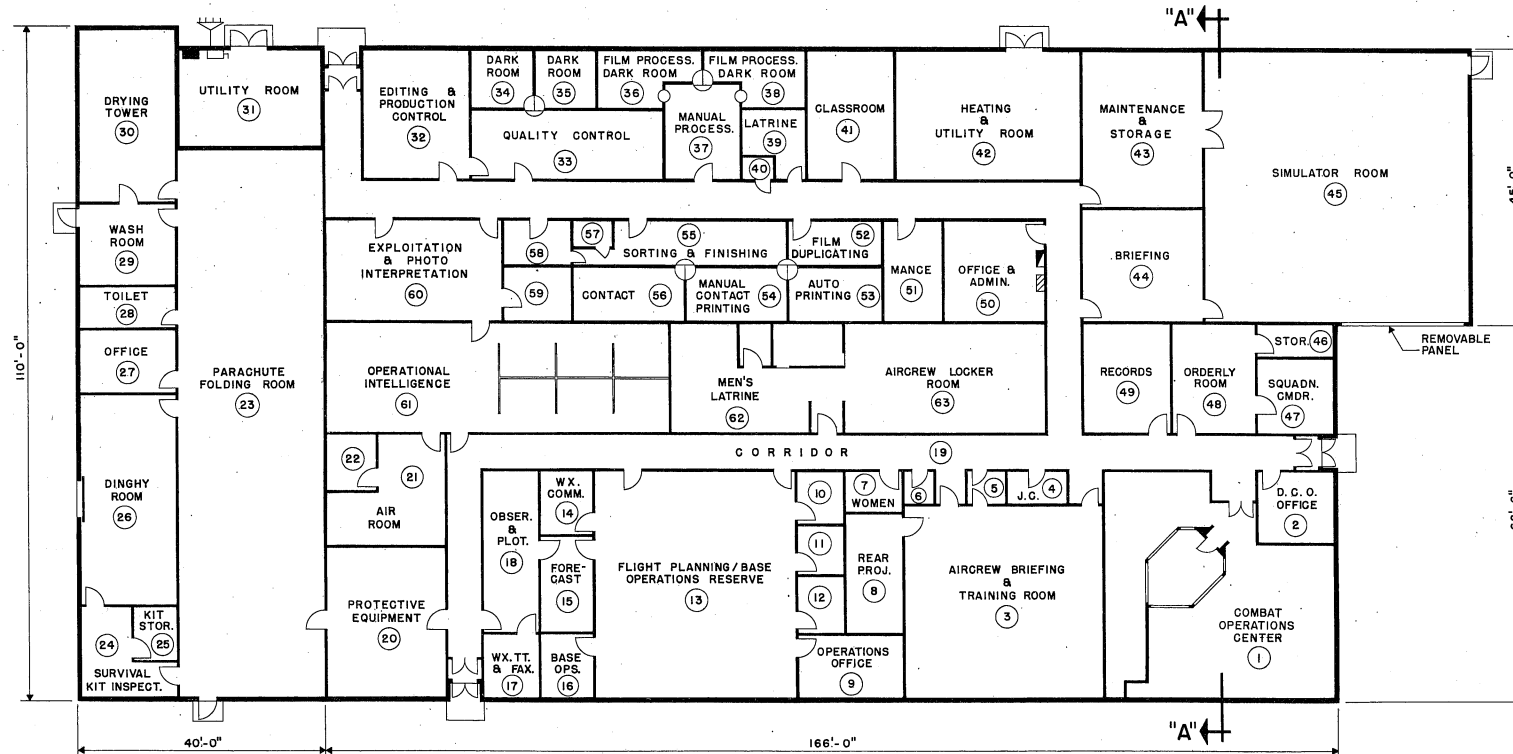
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

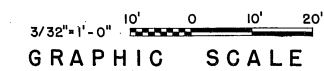
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.



FLOOR PLAN
SCALE 3/32" = 1'-0"



CATEGORY CODE NO. 141-451, 141-453, 141-745, 141-753, 171-212, 218-852

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

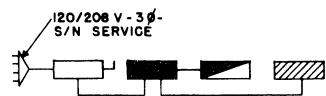
AIR RESERVE FORCES
SQUADRON OPERATIONS
(RF-4 AIRCRAFT)
COMBINED FACILITY
PLAN & SECTION

APPROVED: *Henry Z. Rothkopf*
FOR CHIEF OF STAFF USAF

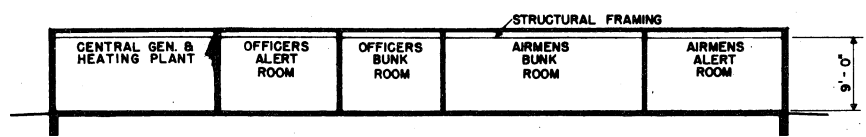
AD 30-10-37

SCALE: 3/32" = 1'-0" SHEET 1 OF 1
DATE: 6 Nov. 1974

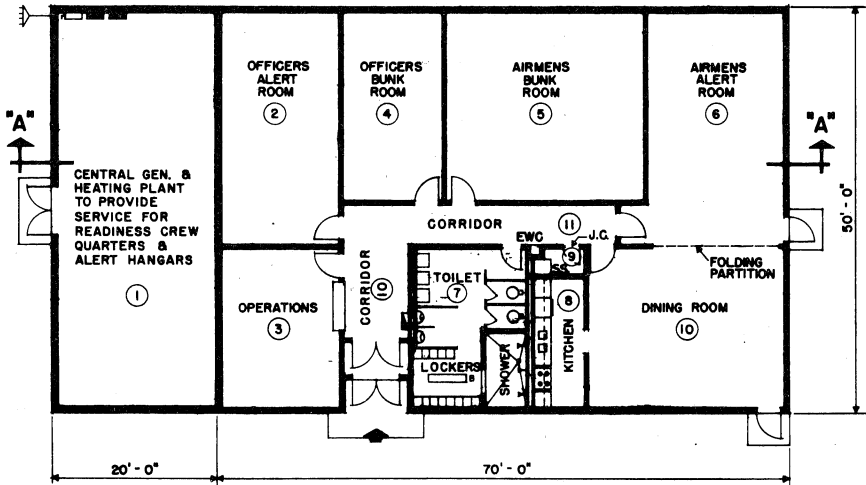
ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	20'-0" x 50'-0"	1,000
2	15'-6" x 29'-6"	457
3	15'-6" x 20'-6"	318
4	12'-6" x 24'-0"	300
5	24'-6" x 24'-0"	588
6	17'-6" x 29'-6"	516
7	14'-6" x 20'-6"	297
8	7'-9" x 14'-10"	118
9	7'-0" x 3'-8"	26
10	24'-6" x 20'-6"	502
11	5'-5" WIDE	204
12	8'-5" WIDE	174
TOTAL		4,500



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A-A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-4, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING (FOOT Candles)	TOTAL
CONNECTED LOAD	13.5	45.6
ESTIMATED DEMAND	8.8	27.8

WATER (GPM)	TOTAL
HOT	14
COLD	36
TOTAL	46
TOTAL	2,880 (GPD)
SEWAGE	1,000 (GPD)

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE (°F)	M/BTU/Hr
	138

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE (°F) FOR 70° FDB & 70° FDB	TONS OF REFRIGERATION
	10 TONS

AREA FOR PROGRAMMING GROSS AREA

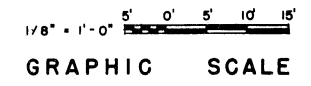
BUILDING	3,500 SQ. FT.
HEATING PLANT	1,000 SQ. FT.
TOTAL	4,500 SQ. FT.

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- GEN. GENERATING
- B. BENCH



CATEGORY CODE NO. 141-459

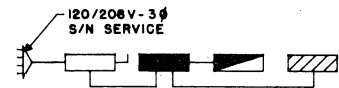
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

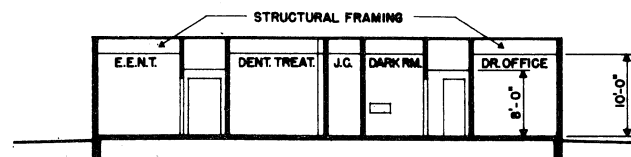
AIR RESERVE FORCES
READINESS CREW BUILDING & UTILITY PLANT
FLOOR PLAN & SECTION

APPROVED: *David H. Spector*
FOR CHIEF OF STAFF USAF

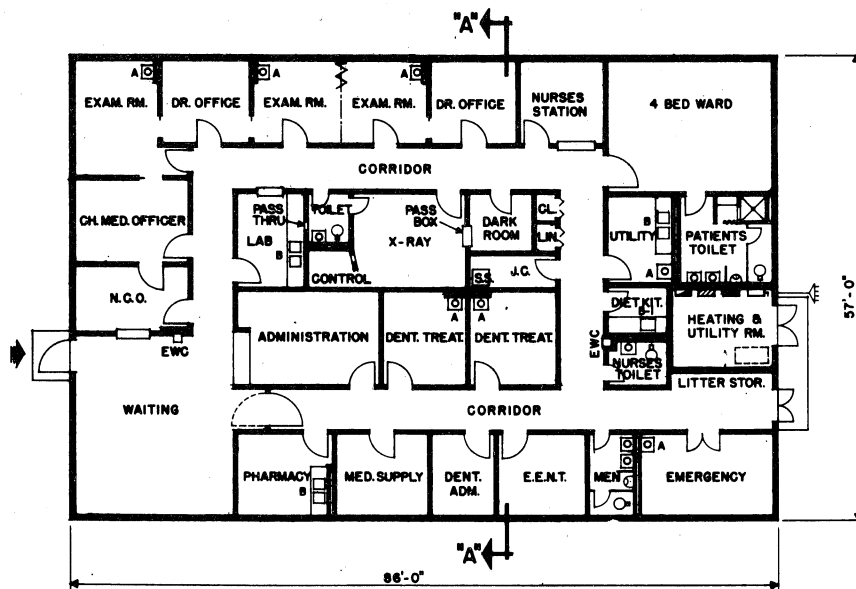
AD 30-11-17
SCALE: AS SHOWN
DATE: 10 MARCH 1972 SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE

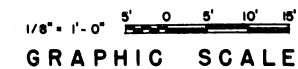
- A WASH BASIN
- B DOUBLE LAB. SINK & WORK TOP
- B-1 SINGLE LAB. SINK & WORK TOP

ELECTRICAL LEGEND

- [Symbol] SERVICE SWITCH
- [Symbol] MAIN DISTRIBUTION PANEL
- [Symbol] LIGHTING PANEL
- [Symbol] POWER PANEL
- [Symbol] INCOMING ELECTRICAL SERVICE

LEGEND

- [Symbol] ENTRY
- [Symbol] E.W.C. ELECTRIC WATER COOLER
- [Symbol] S.S. SERVICE SINK
- [Symbol] J.C. JANITOR'S CLOSET
- [Symbol] RM. ROOM
- [Symbol] MED. MEDICAL
- [Symbol] EXAM. EXAMINATION
- [Symbol] DENT. DENTAL
- [Symbol] ADM. ADMITTING
- [Symbol] TREAT. TREATMENT



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 42-20 THRU 42-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFM 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	15.1	37	54
ESTIMATED DEMAND	12.4	37	49.4

WATER (GPM)	TOTAL
HOT	16
COLD	57
TOTAL	42

TOTAL (GPD)	SEWAGE (GPD)
5,700	3,800

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/STU/HR 214,100 BTU/HR

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F DB & 75° F WB
TONS OF REFRIGERATION 16 TONS

AREA FOR PROGRAMMING

GROSS AREA
TOTAL 4802 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

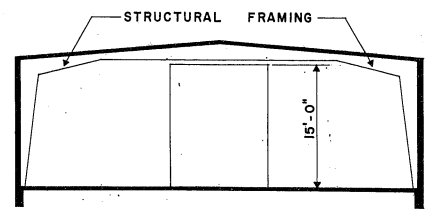
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 550-143

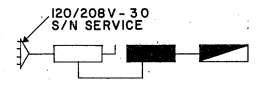
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
DISPENSARY
FLOOR PLAN & SECTION

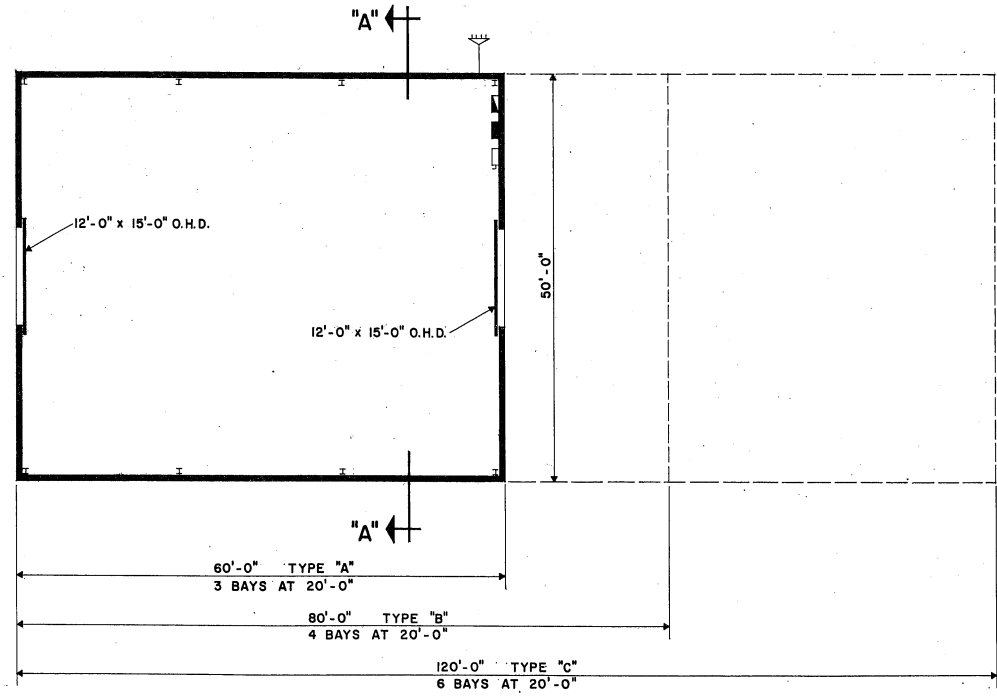
APPROVED: *David J. Spector*
FOR CHIEF OF STAFF USAF
AD 32-06-31
SCALE: AS SHOWN
DATE: 10 MARCH 1972
SHEET 1 OF 1



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE



FLOOR PLAN
SCALE: 1/8" = 1'-0"

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	18.0	13.0	31.0
ESTIMATED DEMAND	18.0	7.8	19.5

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F

M ³ TU/HR	TYPE	BTU
	TYPE "A"	94,400
	TYPE "B"	108,400
	TYPE "C"	136,000

AREA FOR PROGRAMMING GROSS AREA

TYPE "A"	3,000 SQ. FT.
TYPE "B"	4,000 SQ. FT.
TYPE "C"	6,000 SQ. FT.

"A" = ADC - FTR
"B" = MAC - AIR LIFT
"C" = TAC - 105 FTR

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

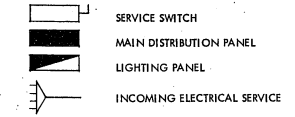
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. MATERIAL STORAGE AND SHOP BUILDINGS WILL HAVE AUTOMATIC SPRINKLER, CLOSED HEAD SYSTEMS.

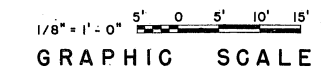
CATEGORY CODE NO. 442-758

ELECTRICAL LEGEND



LEGEND

O. H. D. OVERHEAD DOOR



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
MOBILITY STORAGE WAREHOUSE			
PLAN & SECTION			
APPROVED	AD 33-02-100		SCALE AS NOTED
<i>George J. Pittman Jr.</i>	DATE: 6 Nov. 1974	SHEET 1	OF 1
FOR CHIEF OF STAFF USAF			

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
 FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES
 THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY. PROVIDE MANUAL OPENING AND CLOSING DEVICES WITH OVERHEAD DOORS.

COVERED STORAGE SHOULD BE PROVIDED AT INSTALLATIONS LOCATED IN AREAS OF HEAVY SNOW FALL, DESERT AREAS, AND COASTAL AREAS.

SPACE ALLOWANCES WILL BE AUTHORIZED ON THE BASIS OF NUMBERS AND TYPES OF ASSIGNED VEHICLES. SEE CHAPTER 25, AFM 88-15.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	14.4	7.2	21.6
ESTIMATED DEMAND	14.4	4.6	19.0

HEATING REQUIREMENTS
 OUTSIDE DESIGN TEMPERATURE °F
 M/100,000 BTU/HR 100,000 BTU/HR

AREA FOR PROGRAMMING GROSS AREA

16 VEHICLES 4,800 sq. FT.
 24 VEHICLES 7,200 sq. FT.

DESIGN GUIDES

ARCHITECTURAL
 THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
 LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

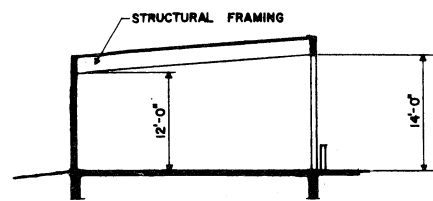
ELECTRICAL
 LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS WILL BE LOCATED BY DESIGN AGENCY. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

CATEGORY CODE NO. 214-428

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
 HEADQUARTERS UNITED STATES AIR FORCE
 VICTOR B. SPECTOR AND ASSOCIATES
 ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
 AIR RESERVE FORCES
AUTO STORAGE FACILITY
 FLOOR PLAN & SECTIONS

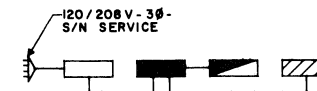
APPROVED
Daniel H. [Signature]
 FOR CHIEF OF STAFF USAF
 AD 33-07-16
 SCALE AS SHOWN SHEET 1 OF 1
 DATE 10 MARCH 1972



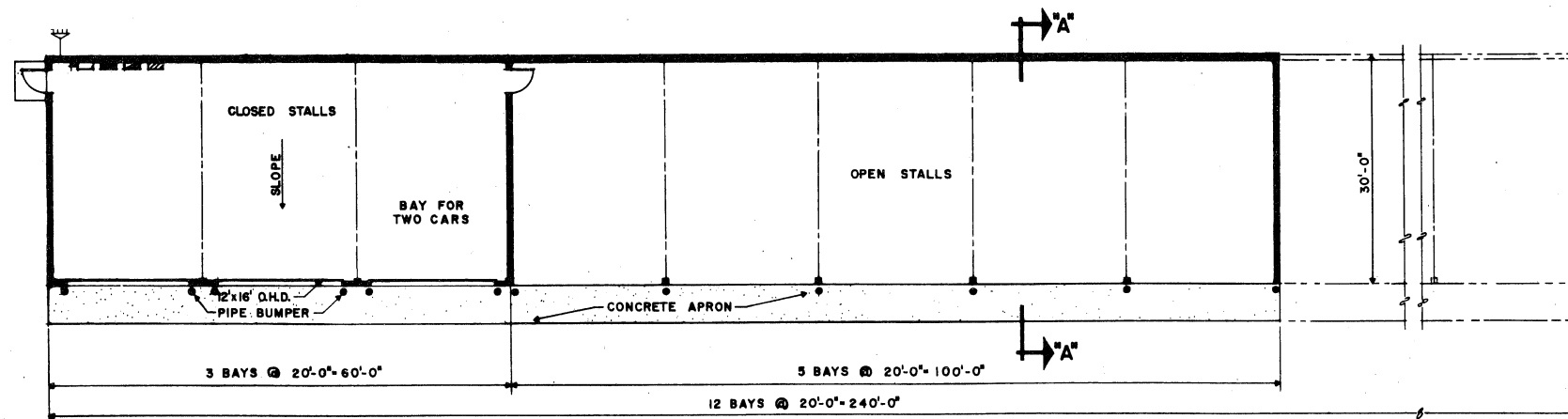
SECTION "A"- "A"
 SCALE: 1/8"=1'-0"

ELECTRICAL LEGEND

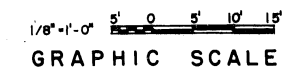
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



ELECTRICAL RISER DIAGRAM
 NO SCALE



FLOOR PLAN
 SCALE: 1/8"=1'-0"



C2

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	1.6	1.9	3.5
ESTIMATED DEMAND	1.6	1.8	3.4

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE
°F
M/STU/HR 128,000 BTU/HR

AREA FOR PROGRAMMING

GROSS AREA	ACTUAL AREA SHOWN	ADDITIONAL	TOTAL
	630 SQ. FT.	150 SQ. FT.	780 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1. "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

CATEGORY CODE NO. 442-257

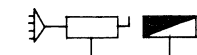
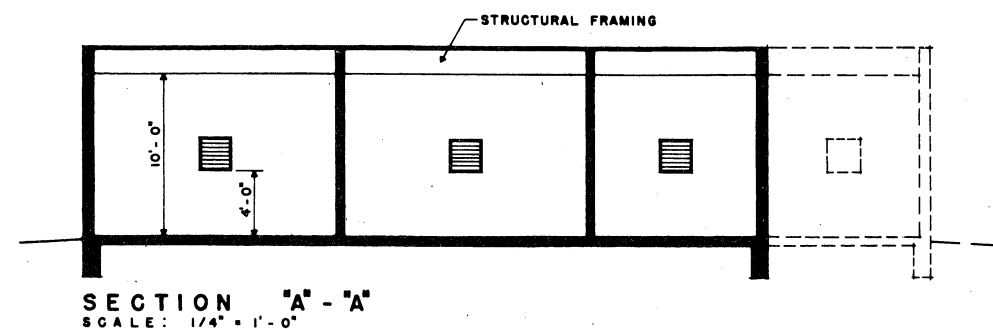
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES

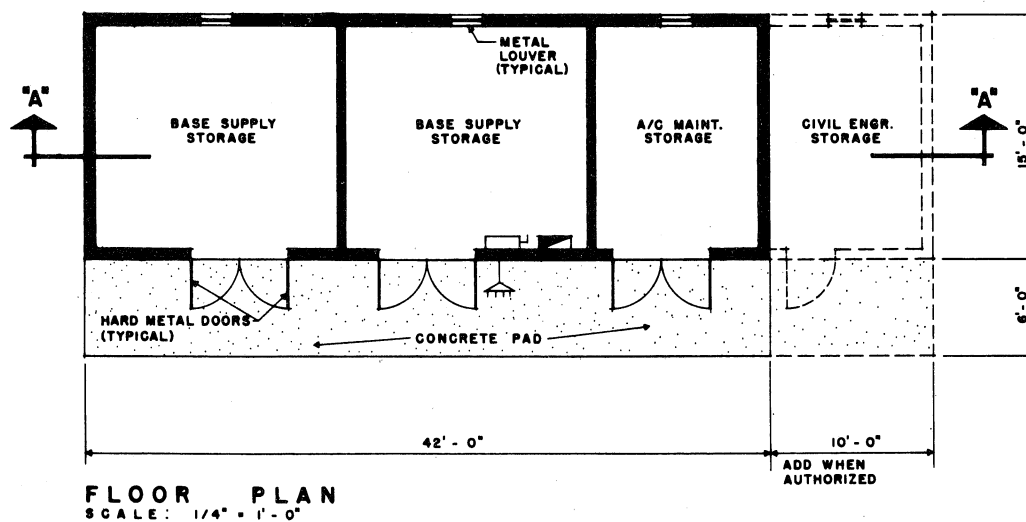
STORAGE, PAINT, OIL & DOPE
FLOOR PLAN & SECTION

APPROVED
David August Collier
FOR CHIEF OF STAFF USAF
DATE 10 MARCH 1972

AD 33-17-09
SCALE AS SHOWN
DATE 10 MARCH 1972 SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



ELECTRICAL LEGEND

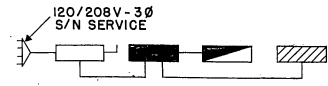
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- ENGR. ENGINEERING
- MAINT. MAINTENANCE
- A/C AIRCRAFT



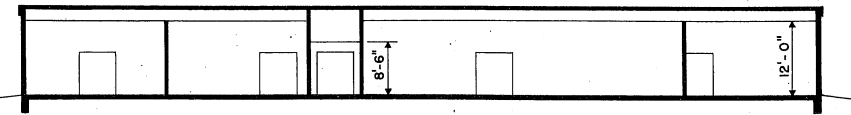
82



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- RM. ROOM

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
BASIC BUILDING				
CONNECTED LOAD		822.5	692.0	1544.5
ESTIMATED DEMAND		809.8	555.6	1365.4
AVIONICS ADD-ON				
CONNECTED LOAD		16.8	28.4	45.2
ESTIMATED DEMAND		15.9	25.7	41.6
WATER (GPM)				
HOT		17		
COLD		65		
TOTAL		70		
TOTAL (GPD)	13,500			
SEWAGE (GPD)	9,000			

HEATING REQUIREMENTS

	OUTSIDE DESIGN TEMPERATURE °F.
M/BTU/HR	
BASIC BUILDING	765.0
AVIONICS ADD-ON	164.5
TOTAL	929.5

AIR CONDITIONING REQUIREMENTS

	OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION	
BASIC BUILDING	10
AVIONICS ADD-ON	5

AREA FOR PROGRAMMING

GROSS AREA	17,051 SQ. FT.
GENERAL PURPOSE SHOP	
AVIONICS SHOP ADD-ON FOR KC-97 & C-130 AIRCRAFT	3,360 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

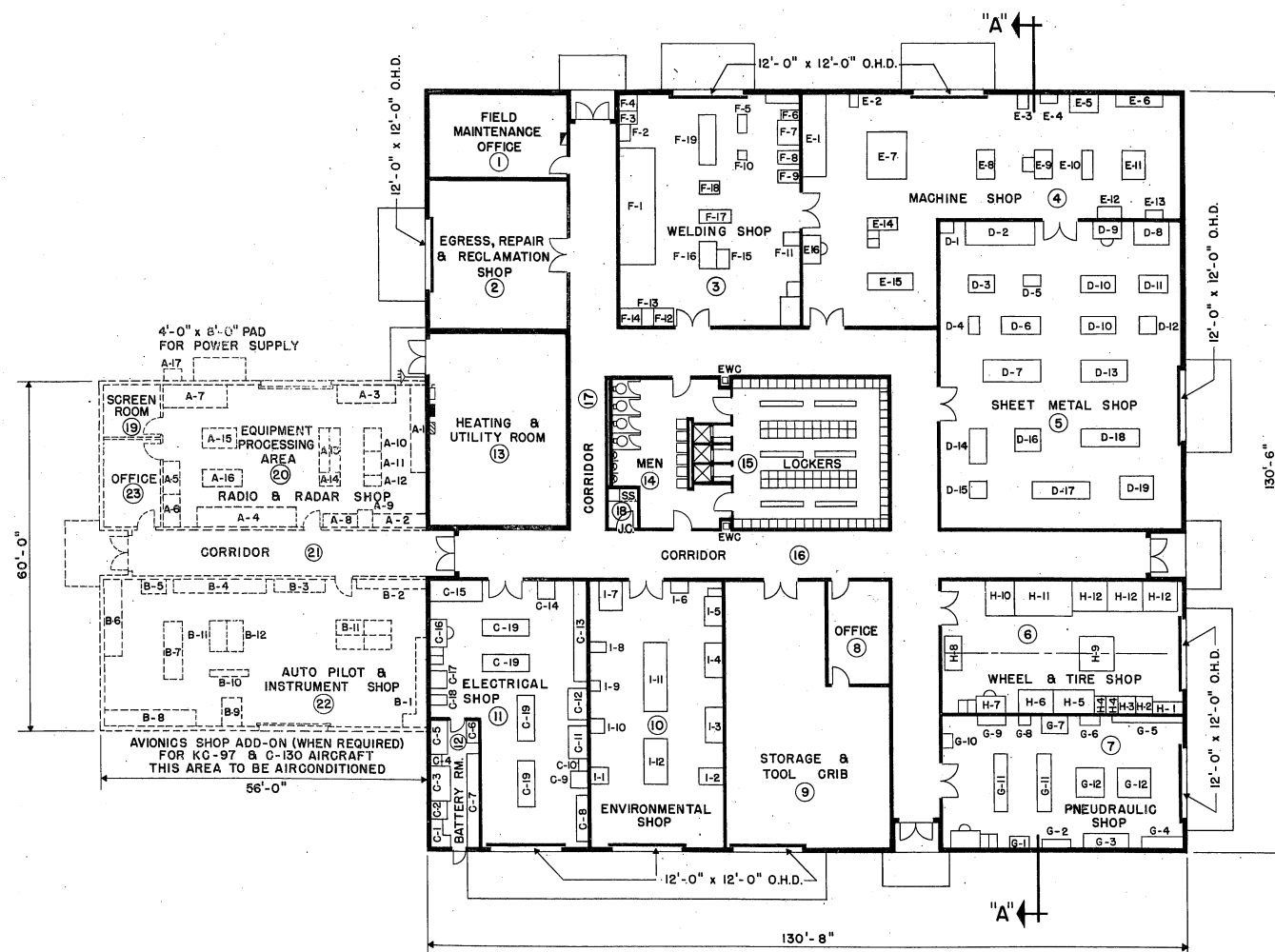
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILINGS OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

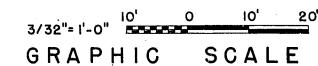
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 211 - 152



FLOOR PLAN
SCALE 3/32" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	24'-0" x 26'-0"	641
2	24'-0" x 15'-0"	370
3	31'-0" x 40'-6"	1,276
4	66'-0" x 27'-0"	1,782
5	42'-4" x 53'-3"	2,254
6	42'-4" x 23'-3"	984
7	42'-4" x 23'-9"	1,013
8	11'-0" x 18'-0"	198
9	28'-0" x 40'-0"	1,150
10	23'-0" x 47'-0"	1,093
11	27'-0" x 40'-0"	1,113
12	10'-0" x 22'-9"	228
13	24'-0" x 34'-0"	839
14	19'-0" x 26'-0"	494
15	27'-4" x 26'-0"	711
16	8'-0" WIDE	2,685
17	6'-10" WIDE	178
18	5'-0" x 7'-3"	42
TOTAL		17,051
19	10'-0" x 10'-0"	108
20	45'-3" x 25'-3"	1,142
21	8'-0" WIDE	476
22	56'-0" x 26'-3"	1,476
23	10'-0" x 15'-3"	164
TOTAL		3,360



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
GENERAL PURPOSE SHOP			
PLAN & SECTION			
APPROVED	AD 35-01-40		
<i>Mary J. Pittman, J.</i>	SCALE: 3/32" = 1'-0"	SHEET 1 OF 2	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974		

C2

EQUIPMENT SCHEDULE

ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	APPROX. DIMENSIONS	ROOM	NUMBER ON PLAN	DESCRIPTION	QUANTITY	APPROX. DIMENSIONS	
RADIO & RADAR SHOP	A-1	OMNI MOCK-UP	1	2'-6" x 15'-0"	WELDING SHOP	F-1	METAL STOCK STORAGE RACK	1	6'-0" x 20'-0"	
	A-2	IFF MOCK-UP	1	2'-6" x 9'-0"		F-2	BLASTER	1	1'-6" x 2'-0"	
	A-3	VHF MOCK-UP	1	3'-6" x 10'-0"		F-3	SHOT STOR. CABINET	1	2'-0" x 2'-6"	
	A-4	H. F. MOCK-UP	1	3'-6" x 17'-0"		F-4	TOOL BOX RACK	1	3'-0" x 3'-0"	
	A-5	MOCK-UP	1	3'-6" x 6'-0"		F-5	TANK	1	1'-0" x 3'-6"	
	A-6	MOCK-UP	1	3'-6" x 6'-0"		F-6	FURNACE CONTROL	1	1'-6" x 3'-0"	
	A-7	RADAR MOCK-UP	1	4'-0" x 11'-0"		F-7	FURNACE	1	3'-6" x 4'-0"	
	A-8	TACAN MOCK-UP	1	3'-6" x 6'-0"		F-8	FURNACE	1	2'-6" x 3'-0"	
	A-9	BEACON SIMULATOR	1	2'-6" x 3'-0"		F-9	PARTS STORAGE	1	2'-0" x 3'-6"	
	A-10	BAKE OVEN	1	3'-0" x 4'-0"		F-10	ANVIL	1	1'-0" x 1'-6"	
	A-11	FREQUENCY COUNTER	1	3'-0" x 4'-0"		F-11	WELDING MACHINE	1	3'-0" x 3'-0"	
	A-12	T. O. FILE	1	2'-6" x 3'-0"		F-12	WELDING CART	1	3'-6" x 3'-6"	
	A-13	BENCH STOCK BINS	1	4'-0" x 8'-0"		F-13	WELDER	1	1'-0" x 2'-0"	
	A-14	TOOL BOX RACK	1	2'-6" x 3'-0"		F-14	GRINDER	1	1'-6" x 2'-6"	
	A-15	WORK BENCH	1	3'-6" x 6'-0"		F-15	DRILL PRESS	1	2'-0" x 3'-0"	
	A-16	TEST EQUIPMENT CABINET	1	3'-0" x 7'-0"		F-16	WORK BENCH	1	3'-0" x 4'-0"	
	A-17	ANTENNA COVER	1	3'-0" x 3'-0"		F-17	WORK TABLE	1	3'-0" x 6'-0"	
AUTO PILOT & INSTRUMENT SHOP	B-1	ELECTRONIC TEST BENCH	1	2'-6" x 15'-0"		PNEUDRAULIC SHOP	G-1	TOOL STORAGE LOCKER	1	2'-0" x 3'-6"
	B-2	STORAGE & PARTS BINS	1	2'-0" x 12'-6"			G-2	BENCH STOCK BIN	1	1'-6" x 5'-0"
	B-3	TEST EQUIPMENT BENCH	1	2'-6" x 9'-0"	G-3		BENCH STOCK BIN	1	2'-6" x 8'-0"	
	B-4	TEST EQUIPMENT BENCH	1	2'-6" x 13'-0"	G-4		PARTS BIN	1	2'-0" x 7'-0"	
	B-5	RECTIFIER	1	2'-0" x 4'-0"	G-5		HOSE STORAGE RACK	1	1'-0" x 12'-0"	
	B-6	WORK BENCH	1	2'-6" x 10'-0"	G-6		CLEANING VAT	1	1'-6" x 3'-6"	
	B-7	PILOT & N-1 COMPASS MOCK-UP	1	3'-0" x 10'-0"	G-7		ASSEMBLY MACHINE	1		
	B-8	ELECTRONIC TEST BENCH	1	2'-6" x 15'-0"	G-8		FLARE MACHINE	1	1'-6" x 2'-0"	
	B-9	PARTS CLEANING BENCH	1	3'-0" x 5'-0"	G-9		PRESS TESTOR	1	1'-6" x 5'-0"	
	B-10	TORQUE WRENCH TESTER	1	1'-0" x 6'-0"	G-10		CUTTING MACHINE	1	2'-0" x 2'-6"	
	B-11	WORK BENCH	5	2'-6" x 5'-0"	G-11		WORK BENCH	2	2'-6" x 10'-0"	
	B-12				G-12		TEST STAND, HYD. PUMPS	1	5'-0" x 5'-0"	
B-12				G-13	TEST STAND, HYD. PUMPS		1	5'-0" x 6'-0"		
ELECTRICAL SHOP	C-1	BATTERY CHARGER	1	2'-0" x 6'-0"	WHEEL & TIRE SHOP	H-1	BENCH STOCK	1	2'-0" x 5'-0"	
	C-2	ACID TANK	1	3'-0" x 3'-0"		H-2	SHOP TOOLS	1	3'-0" x 3'-0"	
	C-3	SAFETY SHOWER & EYE WASH	1	4'-0" x 6'-0"		H-3	FREEZER CHEST	1	3'-0" x 3'-0"	
	C-4	SODA TANK	1	2'-0" x 2'-0"		H-4	BEARING PACKER	2	2'-0" x 3'-0"	
	C-5	BATTERY WASH & DRAIN	1	4'-0" x 6'-0"		H-5	TIRE RACK 24 HR. PRESS	1	4'-0" x 7'-0"	
	C-6	BENCH STOCK	1	2'-0" x 4'-0"		H-6	BEARING VAT (CLEANER)	1	4'-0" x 6'-0"	
	C-7	BATTERY CHARGING AREA	1	2'-0" x 16'-0"		H-7	WORK BENCH	1	3'-0" x 5'-0"	
	C-8	BENCH STOCK	1	2'-0" x 8'-0"		H-8	BEAD BREAKER	1	3'-0" x 6'-0"	
	C-9	TOOL RACK	1	2'-0" x 3'-0"		H-9	BENCH INSPECTION (PAINTING)	1	6'-0" x 6'-0"	
	C-10	PARTS BIN	1	2'-0" x 1'-6"		H-10	INFLATING CAGE	1	5'-0" x 6'-0"	
	C-11	TEST BENCH	1	3'-0" x 4'-0"		H-11	BUILT-UP TIRE RACK	1	6'-0" x 10'-0"	
	C-12	OVEN	1	3'-6" x 5'-6"		H-12	TIRE DOLLY (PORTABLE)	3	5'-0" x 6'-0"	
	C-13	TEST EQUIP. & WORK BENCH	1	2'-6" x 17'-0"	ENVIRONMENTAL SHOP	I-1	RECTIFIER	1	3'-0" x 3'-0"	
	C-14	WIRE & CABLE RACK	1	2'-0" x 5'-0"		I-2	TEST STAND STARTER	1	3'-0" x 4'-0"	
	C-15	GENERATOR TEST STAND	1	3'-0" x 8'-0"		I-3	WORK BENCH	1	3'-0" x 8'-0"	
	C-16	DESK & FILES	1	3'-0" x 5'-0"		I-4	WORK BENCH	1	3'-0" x 8'-0"	
	C-17	PONY BRAKE	1	3'-0" x 3'-0"		I-5	DESK & FILE CABINET	1	3'-0" x 6'-0"	
	C-18	ARBOR PRESS	1	2'-0" x 3'-0"		I-6	LOCKER	1	2'-0" x 3'-0"	
	C-19	WORK TABLE	4	3'-0" x 8'-0"		I-7	VACUUM CHAMBER	1	4'-0" x 5'-0"	
SHEET METAL SHOP	D-1	VACUUM CLEANER	1	2'-0" x 2'-0"	I-8	DRYER OVEN	1	2'-0" x 3'-0"		
	D-2	METAL RACK	1	4'-0" x 12'-0"	I-9	SAND BLASTER	1	2'-0" x 2'-0"		
	D-3	SM SHEARS	1	3'-0" x 4'-6"	I-10	DEGREASER	1	2'-6" x 2'-6"		
	D-4	PUNCH	1	2'-0" x 3'-0"	I-11	WORK BENCH & RPC STORAGE	1	4'-0" x 12'-0"		
	D-5	THROATLESS SHEARS	1	2'-0" x 3'-0"	I-12	WORK BENCH & TEST EQUIP.	1	4'-0" x 8'-0"		
	D-6	WORK BENCH	1	3'-0" x 7'-0"						
	D-7	POWER SHEARS	1	4'-0" x 10'-0"						
	D-8	SHEARS TABLE	1	4'-0" x 6'-0"						
	D-9	DESK	1	3'-0" x 5'-0"						
	D-10	ROLL-A-WAY	2	3'-0" x 6'-0"						
	D-11	WORK BENCH	1	3'-0" x 5'-0"						
	D-12	S & S MACHINE	1	3'-0" x 3'-0"						
	D-13	BREAK	1	4'-0" x 8'-0"						
	D-14	ROLLERS	1	3'-0" x 6'-0"						
	D-15	SCROLL SHEARS	1	3'-0" x 3'-0"						
	D-16	SM BREAK	1	4'-0" x 4'-6"						
	D-17	WORK BENCH	1	3'-0" x 10'-0"						
	D-18	DRILL PRESS BENCH	1	3'-0" x 10'-0"						
	D-19	SPOT WELDER	1	4'-0" x 6'-0"						
MACHINE SHOP	E-1	STEEL RACK	1	4'-0" x 14'-0"						
	E-2	ANVIL	1	2'-0" x 1'-6"						
	E-3	DRILL PRESS	1	2'-0" x 2'-6"						
	E-4	GRINDER	1	2'-6" x 2'-6"						
	E-5	WORK BENCH	1	3'-0" x 5'-0"						
	E-6	STORAGE CABINETS	1	2'-0" x 8'-0"						
	E-7	MILL	1	7'-0" x 8'-0"						
	E-8	LATHE	1	3'-0" x 7'-0"						
	E-9	LATHE	1	3'-0" x 5'-0"						
	E-10	LATHE	1	2'-0" x 5'-0"						
	E-11	SHAPER	1	4'-0" x 7'-0"						
	E-12	DRILL PRESS	1	2'-0" x 4'-0"						
	E-13	GRINDER	1	1'-6" x 3'-0"						
	E-14	POWER SAW	1	2'-0" x 5'-0"						
	E-15	HYD. PRESS	1	3'-0" x 8'-0"						
	E-16	DESK	1	3'-0" x 5'-0"						

NOTE: ALL EQUIPMENT LISTED TO BE FURNISHED AND INSTALLED BY THE GOVERNMENT.

CATEGORY CODE NO. 211-152

SYMBOL REVISION - DESCRIPTION DATE APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES

GENERAL PURPOSE SHOP

EQUIPMENT SCHEDULE

APPROVED

George A. Peake

FOR CHIEF OF STAFF USAF

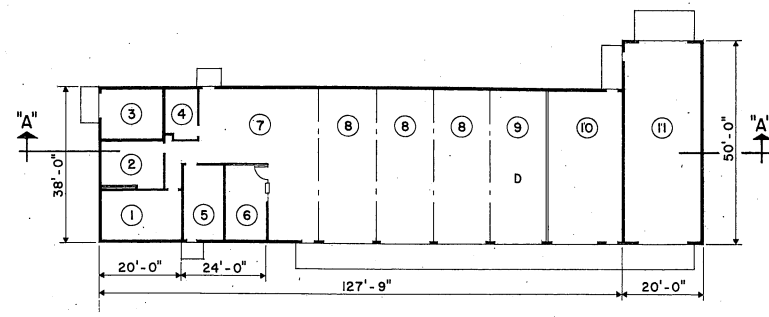
AD 35-01-40

SCALE: NONE

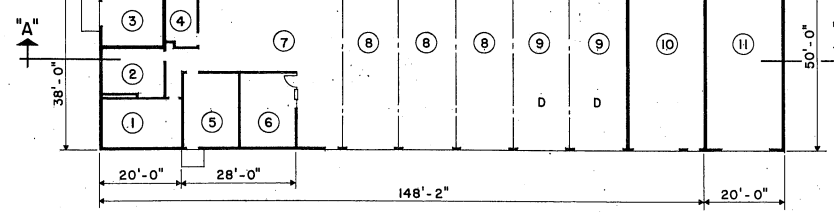
DATE: 6 Nov. 1974

SHEET 2 OF 2

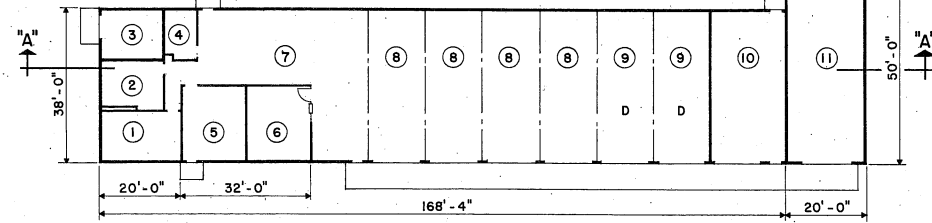
C2



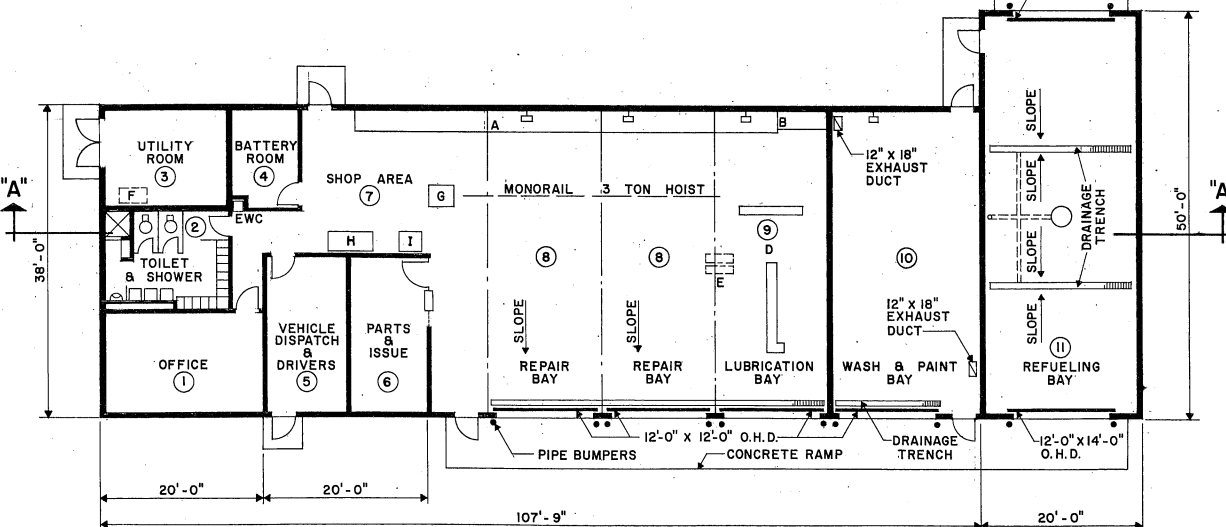
FLOOR PLAN 101-130 VEHICLE EQUIVALENTS
SCALE 1/16" = 1'-0"
TYPE B



FLOOR PLAN 131-160 VEHICLE EQUIVALENTS
SCALE 1/16" = 1'-0"
TYPE C

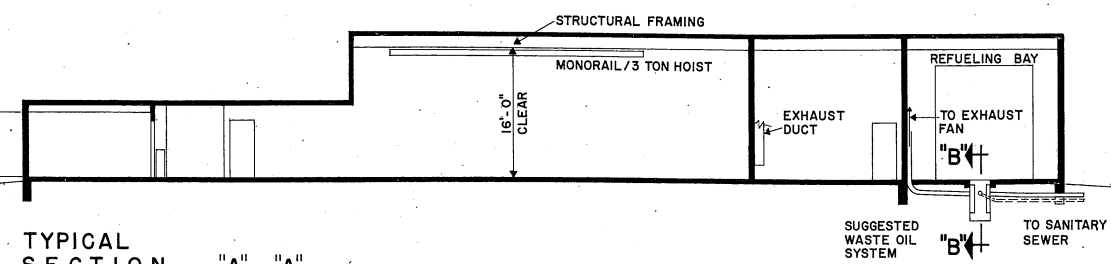


FLOOR PLAN 161-190 VEHICLE EQUIVALENTS
SCALE 1/16" = 1'-0"
TYPE D

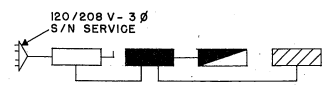


FLOOR PLAN 0-100 VEHICLE EQUIVALENTS
SCALE 1/8" = 1'-0"
TYPE A

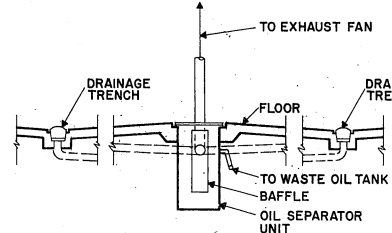
NOTES, TITLES, EQUIPMENT, ETC. AS SHOWN IN 1/8" SCALE PLAN, APPLY TO ALL SIZES OF FACILITIES.



TYPICAL SECTION "A"-"A"
SCALE: 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "B"-"B" OF SUGGESTED WASTE OIL SYSTEM
SCALE: 1/4" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE

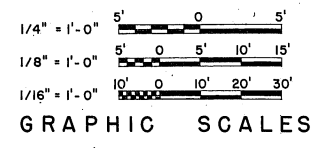
ROOM NO.	DIMENSIONS	GROSS AREA sq.ft.
TYPE A		
1	20'-0" x 13'-0"	260
2	16'-0" x 12'-6"	200
3	16'-0" x 12'-6"	200
4	8'-8" x 12'-6"	108
5	10'-0" x 20'-0"	200
6	10'-0" x 20'-0"	200
7	23'-0" x 27'-3"	627
8 (2 BAYS)	14'-0" x 38'-0"	1,064
9	14'-0" x 38'-0"	532
10	18'-6" x 38'-0"	703
11	20'-0" x 50'-0"	1,000
TYPE B		
1	20'-0" x 13'-0"	260
2	16'-0" x 12'-6"	200
3	16'-0" x 12'-6"	200
4	8'-8" x 12'-6"	108
5	12'-0" x 18'-6"	232
6	12'-0" x 18'-6"	232
7	23'-0" x 34'-6"	792
8 (3 BAYS)	14'-0" x 38'-0"	1,596
9	14'-0" x 38'-0"	532
10	18'-6" x 38'-0"	703
11	20'-0" x 50'-0"	1,000
TYPE C		
1	20'-0" x 13'-0"	260
2	16'-0" x 12'-6"	200
3	16'-0" x 12'-6"	200
4	8'-8" x 12'-6"	108
5	14'-0" x 18'-6"	260
6	14'-0" x 18'-6"	260
7	23'-0" x 42'-8"	979
8 (3 BAYS)	14'-0" x 38'-0"	1,596
9 (2 BAYS)	14'-0" x 38'-0"	1,064
10	18'-6" x 38'-0"	703
11	20'-0" x 50'-0"	1,000
TYPE D		
1	20'-0" x 13'-0"	260
2	16'-0" x 12'-6"	200
3	16'-0" x 12'-6"	200
4	8'-8" x 12'-6"	108
5	16'-0" x 18'-6"	298
6	16'-0" x 18'-6"	298
7	23'-0" x 49'-6"	1,137
8 (4 BAYS)	14'-0" x 38'-0"	2,128
9 (2 BAYS)	14'-0" x 38'-0"	1,064
10	18'-6" x 38'-0"	703
11	20'-0" x 50'-0"	1,000

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- A WORK BENCH
- B GREASE DRUMS
- C ISSUE COUNTER
- D HYDRAULIC LIFT
- E GREASE REELS AT CEILING
- F AIR COMPRESSOR
- G TIRE CHANGER
- H GRINDER
- I DRILL PRESS
- J COMPRESSOR
- K E.W.C.
- L ELECTRIC WATER COOLER



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	TYPE A		TYPE B		TYPE C		TYPE D	
	LTG.	PWR.	LTG.	PWR.	LTG.	PWR.	LTG.	PWR.
ELECTRICITY (KW)								
CONNECTED LOAD	25.5	20.4	29.3	23.4	33.1	26.4	36.9	29.5
ESTIMATED DEMAND	24.2	17.3	27.8	18.7	31.4	21.1	35.0	23.6
WATER (GPM)								
HOT		7		7		7		7
COLD		43		43		43		43
TOTAL		44		44		44		44
TOTAL (GPD)		3,750		4,500		5,250		6,000
SEWAGE (GPD)		2,500		3,000		3,500		4,000

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 10° F.

IM/BTU/HR	TYPE A	TYPE B	TYPE C	TYPE D
TYPE A	973.5			INSIDE 65°
TYPE B	1,109.0			INSIDE 65°
TYPE C	1,316.0			INSIDE 65°
TYPE D	1,380.0			INSIDE 65°

AREA FOR PROGRAMMING GROSS AREA

TYPE "A"	5,094 SQ. FT.
TYPE "B"	5,855 SQ. FT.
TYPE "C"	6,630 SQ. FT.
TYPE "D"	7,396 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 214-425, 214-467

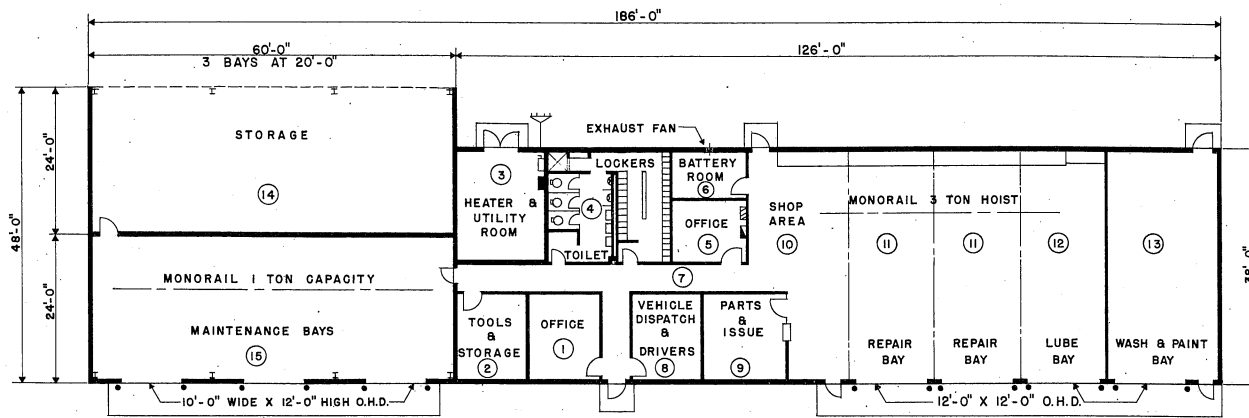
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES

AUTOMOTIVE MAINTENANCE SHOP

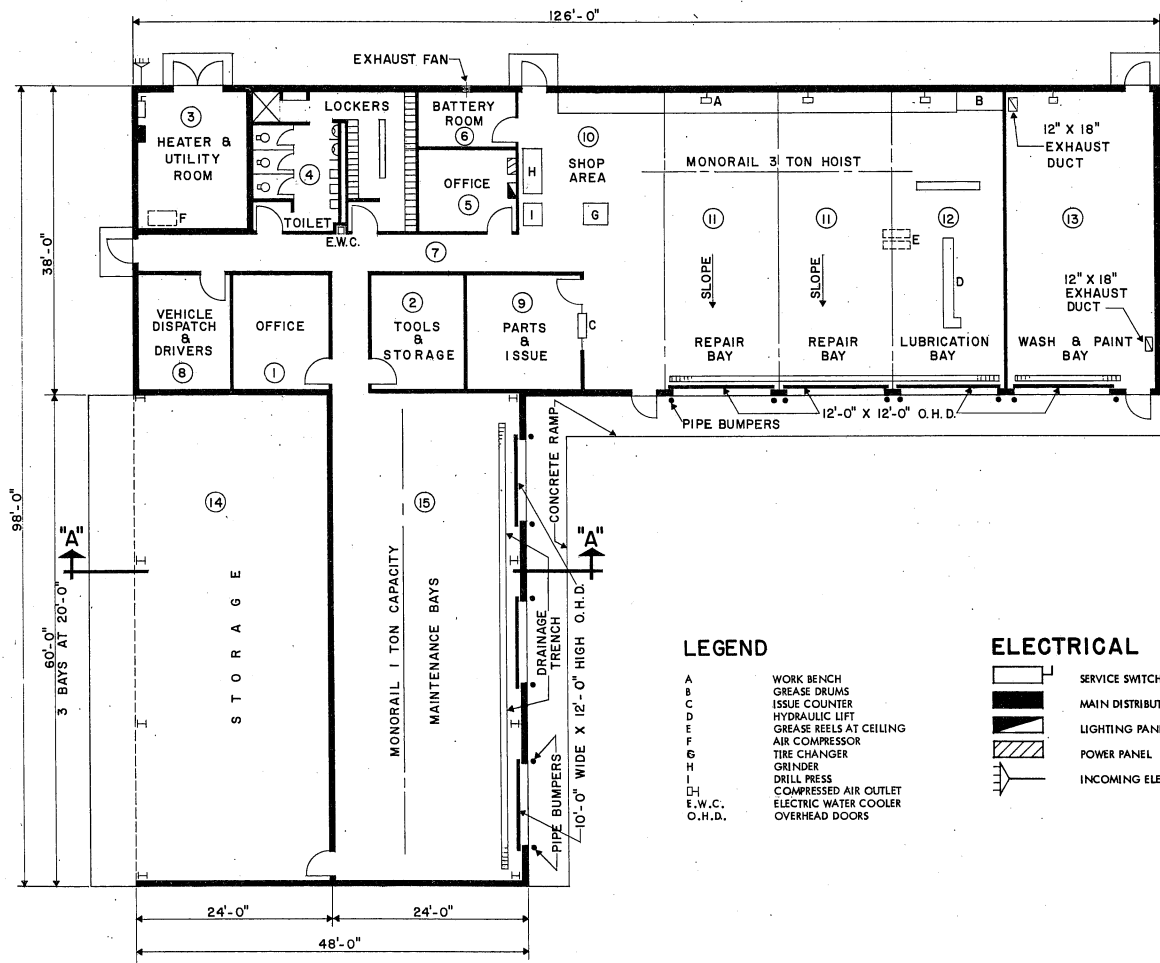
PLAN & SECTION

APPROVED *Steve J. Pritchard* **AD 35-02-63**

FOR CHIEF OF STAFF USAF DATE: 6 Nov. 1974 SCALE: AS SHOWN SHEET 1 OF 1



FLOOR PLAN TYPE B
SCALE 3/32" = 1'-0"



FLOOR PLAN TYPE A
SCALE 1/8" = 1'-0"

- LEGEND**
- A WORK BENCH
 - B GREASE DRUMS
 - C ISSUE COUNTER
 - D HYDRAULIC LIFT
 - E GREASE REELS AT CEILING
 - F AIR COMPRESSOR
 - G TIRE CHANGER
 - H GRINDER
 - I DRILL PRESS
 - J COMPRESSED AIR OUTLET
 - K E.W.C.
 - L O.H.D.

- ELECTRICAL LEGEND**
- SERVICE SWITCH
 - MAIN DISTRIBUTION PANEL
 - ▨ LIGHTING PANEL
 - ▩ POWER PANEL
 - ⊥ INCOMING ELECTRICAL SERVICE

NOTES, TITLES, EQUIPMENT, ETC. AS SHOWN IN 1/8" SCALE PLAN, APPLY TO ALL SIZES OF FACILITIES.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		30.6	30.6	61.2
ESTIMATED DEMAND		29.1	27.5	56.6
WATER (GPM)				
HOT	7			
COLD	51			
TOTAL	58			
TOTAL (GPD) 11,250				
SEWAGE (GPD) 7,500				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR * 360.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE
TONS OF REFRIGERATION

AREA FOR PROGRAMMING GROSS AREA

TYPE "A"	7,668 SQ. FT.
TYPE "B"	7,668 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

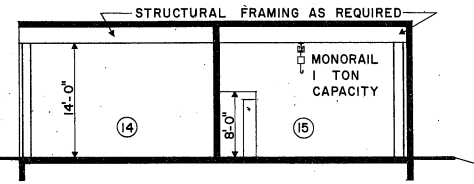
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

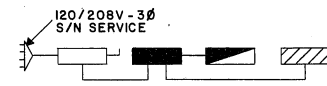
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 214-425, 218-712

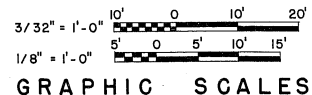


SECTION "A" - "A"
SCALE 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM
NO SCALE

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS L X W X H	GROSS AREA SQ. FT.
1	12'-4" x 15'-3" x 9'-0"	188
2	11'-10" x 12'-3" x 9'-0"	180
3	14'-0" x 18'-3" x 9'-0"	252
4	HEIGHT 9'-0"	378
5	12'-3" x 10'-0" x 9'-0"	129
6	12'-3" x 7'-9" x 9'-0"	95
7	HEIGHT 8'-0"	281
8	12'-0" x 15'-3" x 9'-0"	183
9	14'-4" x 15'-3" x 9'-0"	219
10	HEIGHT 18'-0"	567
11 (2 BAY)	27'-10" x 38'-0" x 16'-0"	1,058
12	13'-10" x 38'-0" x 16'-0"	526
13	19'-0" x 38'-0" x 16'-0"	722
14 (3 BAY)	24'-0" x 60'-0" x 14'-0"	1,440
15 (3 BAY)	24'-0" x 60'-0" x 14'-0"	1,440
TOTAL		7,668

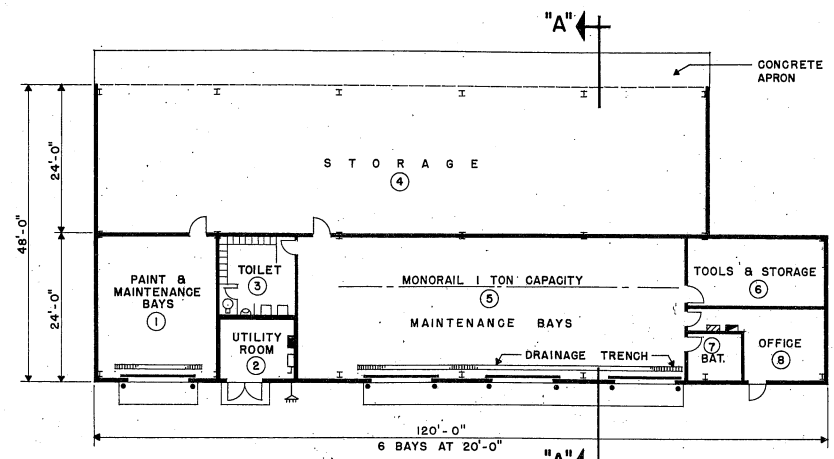


GRAPHIC SCALES

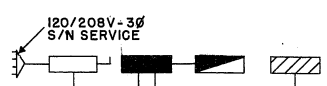
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
AIR RESERVE FORCES COMBINED
AUTOMOTIVE MAINTENANCE SHOP AND AEROSPACE GROUND EQUIPMENT SHOP
PLAN & SECTION

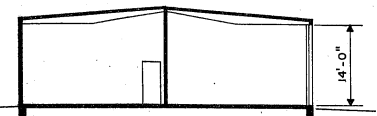
APPROVED
Henry J. Potholp
FOR CHIEF OF STAFF USAF
SCALE: AS SHOWN
DATE: 6 Nov. 1974
AD 35-02-64
SHEET 1 OF 1



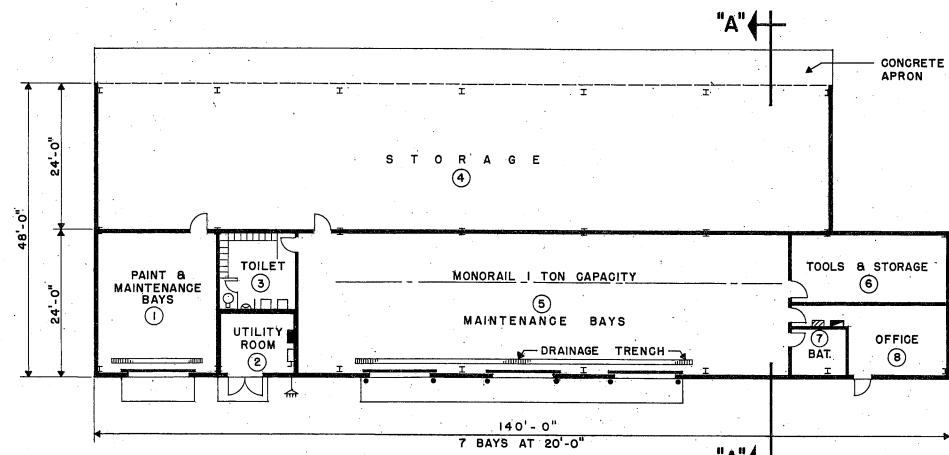
FLOOR PLAN TYPE B
SCALE 3/32" = 1'-0"



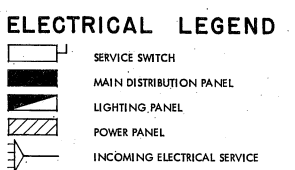
ELECTRICAL RISER DIAGRAM
NO SCALE



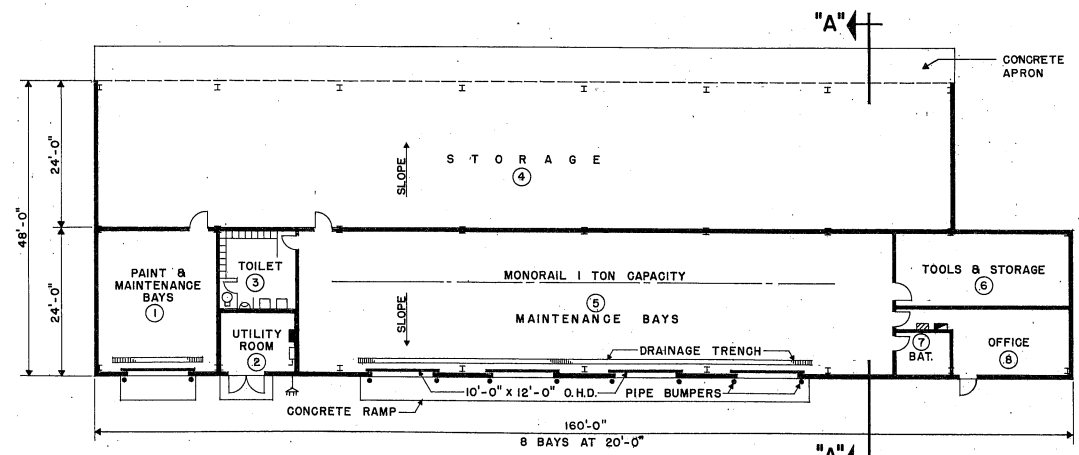
SECTION "A-A"
SCALE 3/32" = 1'-0"



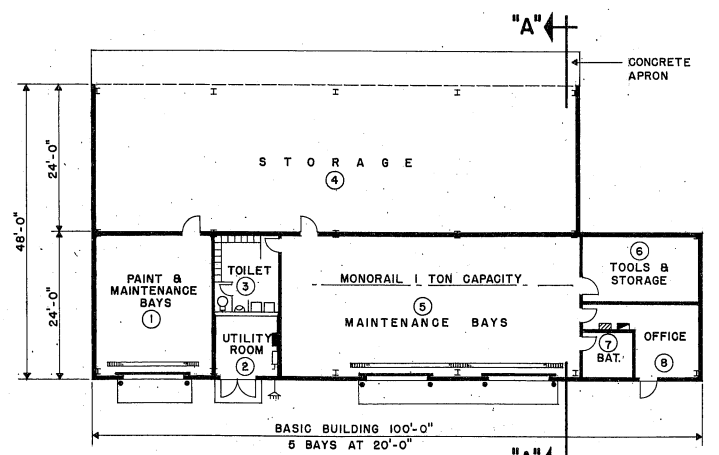
FLOOR PLAN TYPE C
SCALE 3/32" = 1'-0"



ELECTRICAL LEGEND



FLOOR PLAN TYPE D
SCALE 3/32" = 1'-0"



FLOOR PLAN TYPE A
SCALE 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ.FT.
TYPE A	1	20'-0" x 24'-0" 480
	2	11'-0" x 10'-8" 117
	3	11'-0" x 13'-4" 147
	4	80'-0" x 24'-0" 1,920
	5	49'-6" x 24'-0" 1,190
	6	19'-6" x 11'-6" 224
	7	8'-10" x 10'-0" 88
	8	11'-0" x 14'-0" 154
	TOTAL	4,320
TYPE B	1	20'-0" x 24'-0" 480
	2	12'-0" x 10'-8" 128
	3	12'-0" x 13'-4" 160
	4	100'-0" x 24'-0" 2,400
	5	49'-6" x 24'-0" 1,192
	6	22'-6" x 11'-6" 258
	7	8'-10" x 10'-0" 88
	8	14'-0" x 13'-10" 194
	TOTAL	5,292
TYPE C	1	20'-0" x 24'-0" 480
	2	13'-0" x 10'-8" 139
	3	13'-0" x 13'-4" 173
	4	120'-0" x 24'-0" 2,880
	5	81'-6" x 24'-0" 1,956
	6	25'-6" x 11'-6" 294
	7	8'-10" x 10'-0" 88
	8	17'-0" x 13'-6" 230
	TOTAL	6,240
TYPE D	1	20'-0" x 24'-0" 480
	2	14'-0" x 10'-8" 150
	3	14'-0" x 13'-4" 186
	4	140'-0" x 24'-0" 3,360
	5	97'-6" x 24'-0" 2,340
	6	28'-6" x 11'-6" 324
	7	8'-10" x 10'-0" 88
	8	20'-0" x 13'-6" 270
	TOTAL	7,200

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	TYPE A		TYPE B		TYPE C		TYPE D		
	LTG.	PWR.	LTG.	PWR.	LTG.	PWR.	LTG.	PWR.	
CONNECTED LOAD	24.0	19.2	28.8	23.0	33.6	26.9	38.4	30.7	
ESTIMATED DEMAND	22.8	15.4	27.4	18.4	32.0	21.5	36.4	24.5	
WATER (GPM)									
	HOT	3	3	3	3				
	COLD	34	34	34	34				
TOTAL	36	36	36	36					
TOTAL (GPD)	2,250	3,000	3,750	4,500					
SEWAGE (GPD)									
	1,500	2,000	2,500	3,000					

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 0°F

M ² /BTU/HR	505	693	707	795
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AREA FOR PROGRAMMING GROSS AREA

TYPE A	0 - 80 PIECES	4,320 SQ.FT.
TYPE B	81 - 120 PIECES	5,280 SQ.FT.
TYPE C	121 - 160 PIECES	6,240 SQ.FT.
TYPE D	161 - 200 PIECES	7,200 SQ.FT.

NOTE: FOR EACH INCREASE OF 20'-0" IN LENGTH OF BUILDING
ADD 1'-0" IN TOILET & UTILITY ROOM
ADD 3'-0" IN OFFICE & TOOL STORAGE
ADD 16'-0" IN MAINTENANCE BAYS

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

CATEGORY CODE NO. 218-712

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

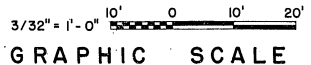
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AEROSPACE GROUND
SUPPORT & EQUIPMENT
PLANS & SECTION

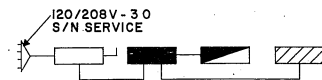
APPROVED
George J. Pittel
FOR CHIEF OF STAFF USAF

AD 35-32-08
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974

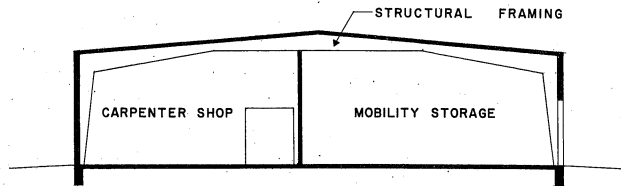
SHEET 1 OF 1



GRAPHIC SCALE



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
①	31'-0" x 29'-0"	934
②	31'-0" x 14'-0"	457
③	31'-0" x 26'-0"	840
④	10'-0" x 15'-0"	157
⑤	10'-0" x 15'-0"	157
⑥	6'-0" x 8'-0"	48
⑦	6'-0" x 7'-0"	42
⑧	27'-0" x 40'-0"	1,080
⑨	10'-0" x 10'-0"	100
⑩	10'-0" x 13'-0"	135
⑪	8'-0" x 84'-0"	664
⑫	20'-0" x 21'-0"	420
⑬	12'-0" x 21'-0"	252
⑭	12'-0" x 13'-0"	157
⑮	8'-0" x 12'-0"	96
⑯	11'-0" x 21'-0"	231
⑰	11'-0" x 21'-0"	231
⑱	10'-0" x 21'-0"	210
⑲	9'-0" x 21'-0"	189
⑳	28'-0" x 35'-0"	980
㉑	30'-0" x 60'-0"	1,800
TOTAL		9,180

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	46.0	34.6	80.6
ESTIMATED DEMAND	36.8	24.9	61.7

WATER (GPM)	TOTAL
HOT	8
COLD	60
TOTAL	68

TOTAL (GPD)	TOTAL (GPD)
9,000	6,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 345.3

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB
TONS OF REFRIGERATION 7

AREA FOR PROGRAMMING GROSS AREA

BASE ENGINEERING MAINTENANCE FACILITY	7,380 SQ. FT.
BASE ENGINEERING STORAGE SHED	1,800 SQ. FT.
TOTAL	9,180 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

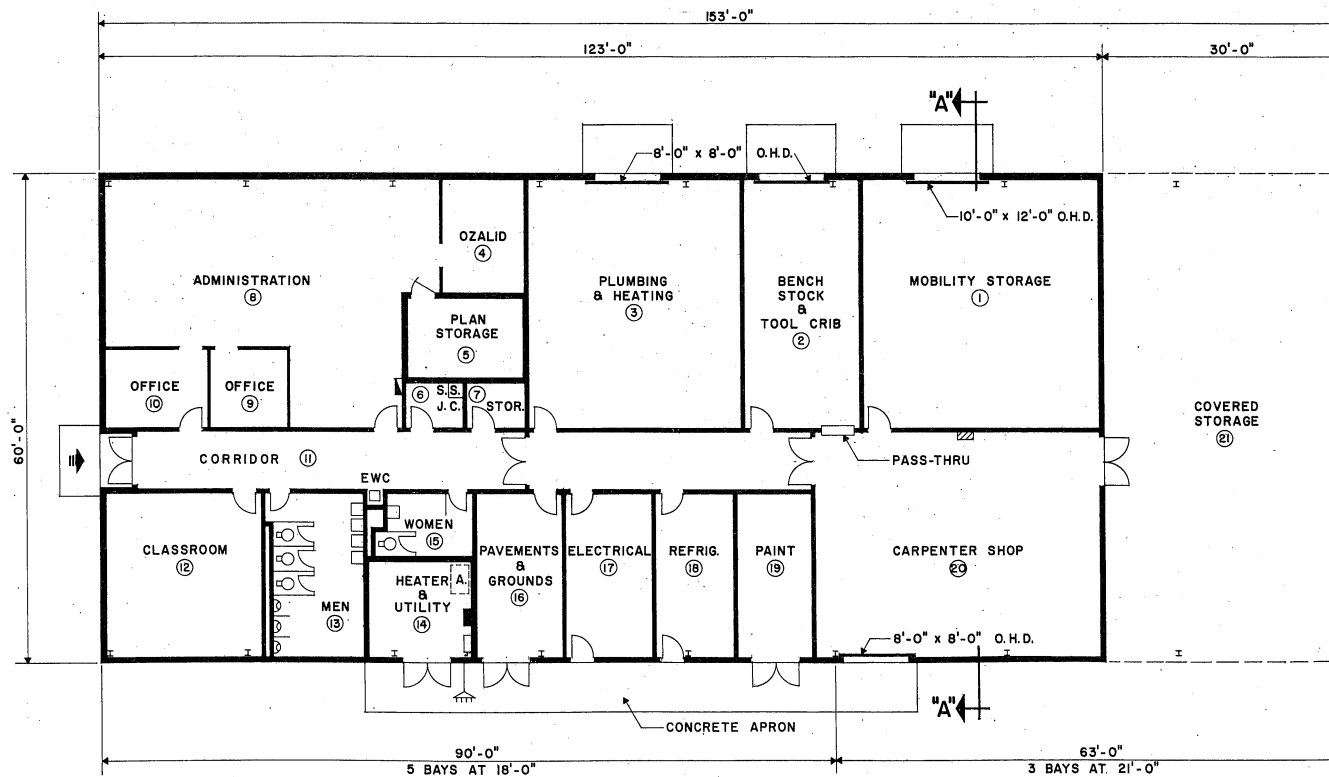
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. MATERIAL STORAGE AND SHOP BUILDINGS WILL HAVE AUTOMATIC SPRINKLER, CLOSED HEAD SYSTEMS.



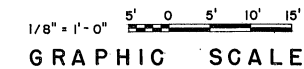
FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- R.M. ROOM
- A. AIR COMPRESSOR

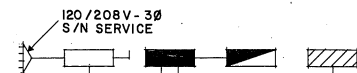


CATEGORY CODE NO. 219-944, 219-947

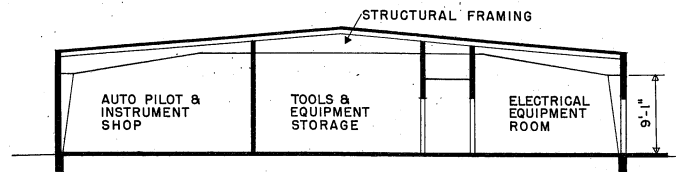
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
BASE ENGINEERING MAINTENANCE FACILITY
PLAN & SECTION

APPROVED
Henry J. Pritchard, Jr.
FOR CHIEF OF STAFF USAF
AD 35-34-14
SCALE: 1/8" = 1'-0"
DATE: 6 Nov, 1974
SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A-A"
SCALE: 1/8" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	30'-0" x 51'-0"	1,530.0
2	19'-0" x 30'-0"	570.0
3	12'-0" x 19'-0"	228.0
4	13'-0" x 19'-0"	256.0
5	19'-0" x 32'-0"	608.0
6	6'-6" x 125'-0"	832.0
7	29'-0" x 56'-0"	1,624.0
8	18'-0" x 32'-0"	576.0
9	18'-0" x 20'-0"	360.0
10	5'-0" x 7'-0"	35.0
11	5'-0" x 7'-0"	35.0
12	23'-0" x 56'-0"	1,288.0
13	23'-0" x 37'-0"	869.0
14	20'-0" x 22'-0"	461.0
15	20'-0" x 22'-0"	451.0
16	14'-0" x 19'-0"	275.5
17	4'-6" x 6'-6"	29.0
18	21'-0" x 23'-0"	483.0
TOTAL		10,500.0

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-115.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	32.5	60.0	112.5
ESTIMATED DEMAND	49.8	51.6	101.4

WATER (GPM)	TOTAL (GPD)	SEWAGE (GPD)
HOT	12	
COLD	63	
TOTAL	66	
TOTAL (GPD)	9,000	
SEWAGE (GPD)		6,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/STU/HR = 545

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. D8 & 78° F. WB
TONS OF REFRIGERATION 18

AREA FOR PROGRAMMING

GROSS AREA **10,500 SQ. FT.**

DESIGN GUIDES

ARCHITECTURAL

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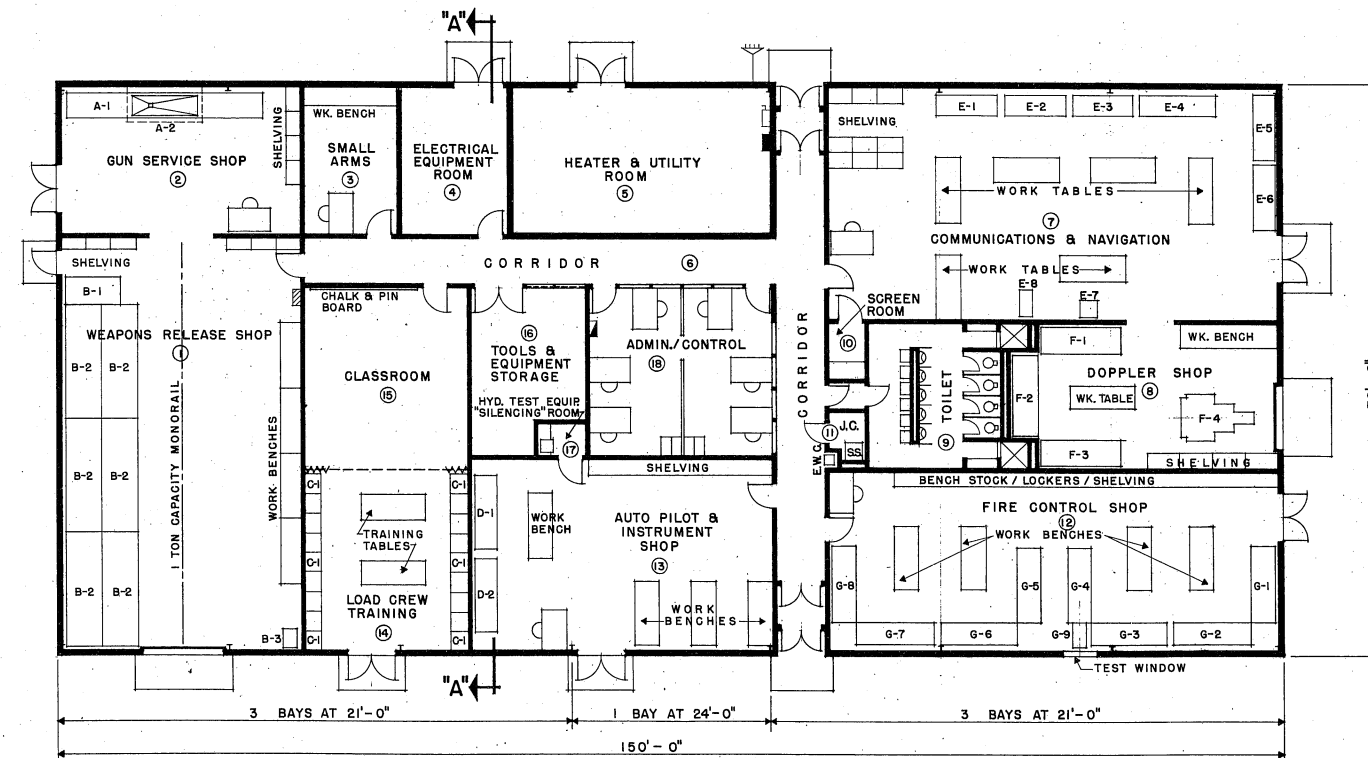
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PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 215-552 & 217-712



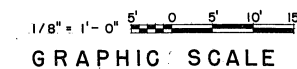
FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

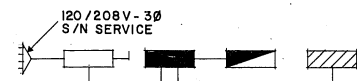
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AVIONICS SHOP
WEAPONS AND RELEASE SYSTEMS SHOP
(F-105)
PLAN & SECTION

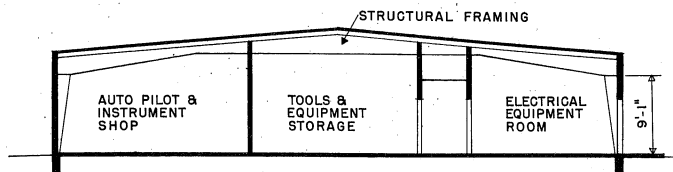
APPROVED
George P. ...
FOR CHIEF OF STAFF USAF

AD 35-60-41
SCALE: AS SHOWN
DATE: 6 Nov. 1974

SHEET 1 OF 2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A"-A"
SCALE: 1/8" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	30'-0" x 51'-0"	1,530.0
2	19'-0" x 30'-0"	570.0
3	12'-0" x 19'-0"	228.0
4	13'-0" x 19'-0"	256.0
5	19'-0" x 32'-0"	608.0
6	6'-0" x 128'-0"	832.0
7	29'-0" x 56'-0"	1,624.0
8	18'-0" x 32'-0"	576.0
9	18'-0" x 20'-0"	360.0
10	5'-0" x 7'-0"	35.0
11	5'-0" x 7'-0"	35.0
12	23'-0" x 56'-0"	1,288.0
13	23'-0" x 37'-0"	869.0
14	20'-0" x 22'-0"	461.0
15	20'-0" x 22'-0"	451.0
16	14'-0" x 19'-0"	275.5
17	4'-0" x 6'-6"	29.0
18	21'-0" x 23'-0"	483.0
TOTAL		10,500.0

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	32.5	60.0	112.5
ESTIMATED DEMAND	49.8	51.6	101.4

WATER (GPM)		
HOT	12	
COLD	63	
TOTAL	66	

TOTAL (GPD)	
9,000	

SEWAGE (GPD)	
6,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 545.

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, WB
TONS OF REFRIGERATION 18

AREA FOR PROGRAMMING GROSS AREA

10,500 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

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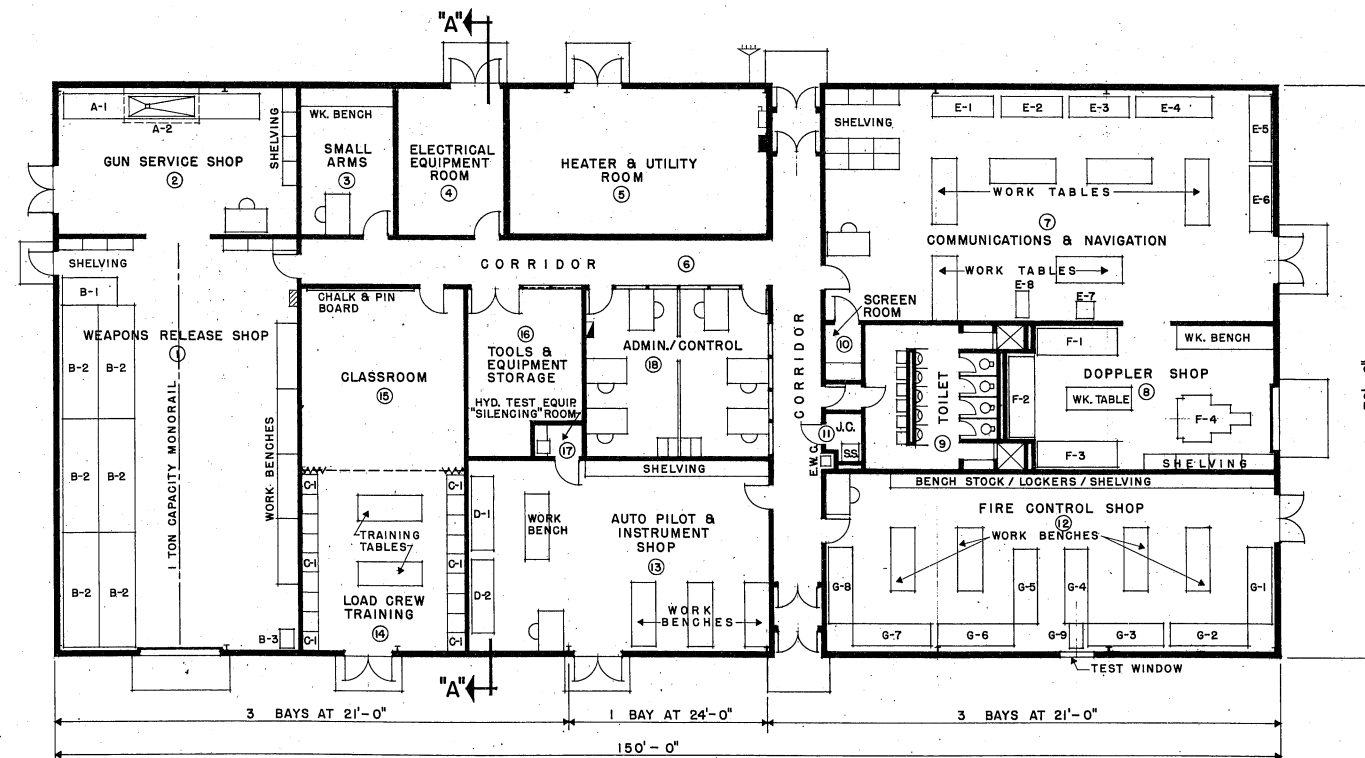
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FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 215-552 & 217-712



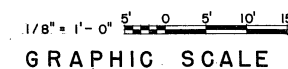
FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AVIONICS SHOP
WEAPONS AND RELEASE SYSTEMS SHOP
(F-105)
PLAN & SECTION

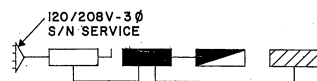
APPROVED <i>George P. ...</i>	AD 35 - 60 - 41
FOR CHIEF OF STAFF USAF	SCALE: AS SHOWN DATE: 6 Nov. 1974

EQUIPMENT SCHEDULE

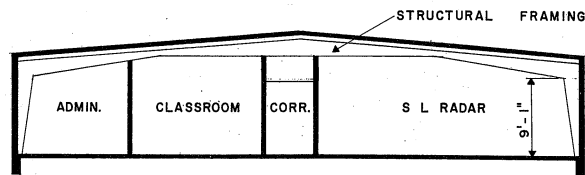
ROOM	NUMBER ON PLAN	DESIGNATION OR PART NUMBER	DESCRIPTION	APPROX. DIMENSION EACH	QUANTITY	REMARKS
GUN SERVICE SHOP	A-1		CLEANING TANK	3'-0" x 24'-0"	1	3' x 8' x 1'-6" TANK W/3' x 8' DRAIN TABLE EACH SIDE
	A-2		METAL COVER	3'-6" x 8'-6"	1	COVER TO CLOSE OVER TANK. HELD UP BY FUSIBLE LINK.
WEAPONS RELEASE SHOP	B-1		CABLE RE-WIND MACHINE	81" x 42" x 43" H	1	
	B-2	F-2	TRAILER	168" x 55" x 30" H	6	FOR TRANSPORTING PYLONS
	B-3	F-1	RECTIFIER	19" x 19" x 32" H	1	POWER SUPPLY METALLIC RECTIFIER
LOAD CREW TRAINING	C-1		BOXES	23" x 29" x 41" H	18	
AUTO PILOT & INSTRUMENT SHOP	D-1	P/N 549E769G	MECHANICAL TEST BENCH	108" x 34"	1	TEST BENCH SET AF/A 42 G-8
	D-2	P/N 223E311G	ELECTRICAL TEST BENCH	108" x 34"	1	
COMMUNICATIONS & NAVIGATION	E-1	P/N 57 x 891851	IFF TABLE	89" x 34" x 57" H	1	TEST BENCH SET AN/ASG - 37 CIN
	E-2	P/N 57 x 891853	IFF TABLE	89" x 34" x 57" H	1	
	E-3	P/N 57 x 891855	UHF TABLE	89" x 34" x 57" H	1	
	E-4	P/N 57 x 891851	TACAN TABLE	113" x 34" x 57" H	1	
	E-5	P/N 57 x 891856	ILS TABLE	89" x 34" x 57" H	1	
	E-6	P/N 57 x 891857	ILS TABLE	89" x 34" x 57" H	1	
	E-7	AN/ARM-22	TACAN TEST SET		1	
	E-8		SCOPE DOLLY	39" x 16"	1	
DOPPLER SHOP	F-1	P/N 58470	TEST SET GROUP, ANTENNA	120" x 40" x 70" H	1	TEST BENCH SET AN/APN - 131 DOPPLER
	F-2	P/N 58471	MOCK-UP TEST BENCH	120" x 40" x 70" H	1	
	F-3	P/N 58469	TEST SET GROUP, COMPUTER	120" x 40" x 70" H	1	
	F-4	AN/APM 186 P/N 58460-1	TEST SET, RADAR		1	
FIRE CONTROL SHOP	G-1	P/N 79 x 890819	BOMBING COMPONENT TABLE	113" x 34"	1	TEST BENCH SET AN/ASG - 19 FIRE CONTROL SYSTEM
	G-2	P/N 890813	BOMBING READY TABLE	113" x 34"	1	
	G-3	P/N 79 x 890811	SIGHT READY TABLE	113" x 34"	1	
	G-4	P/N 79 x 890812	RADAR READY TABLE	113" x 34"	1	
	G-5	P/N 79 x 890817	RADAR COMPONENT TABLE	113" x 34"	1	
	G-6	P/N 79 x 890818	RADAR COMPONENT TABLE	113" x 34"	1	
	G-7	P/N 79 x 890815	SIGHT COMPONENT TABLE	113" x 34"	1	
	G-8	P/N 79 x 890816	SIGHT COMPONENT TABLE	113" x 34"	1	
	G-9		SCOPE DOLLY			

NOTE: ALL EQUIPMENT LISTED TO BE FURNISHED AND INSTALLED BY THE GOVERNMENT.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE <small>HEADQUARTERS UNITED STATES AIR FORCE</small> SPECTOR, PEAKE AND HOWELL <small>ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA</small> AIR RESERVE FORCES AVIONICS SHOP WEAPONS AND RELEASE SYSTEMS SHOP (F-105)			
APPROVED	AD 35 - 60 - 41		
FOR CHIEF OF STAFF USAF	SCALE: AS SHOWN	SHEET 2 OF 2	
	DATE: 6 Nov. 1974		



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE 1/8" = 1'-0"

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	28'-0" x 33'-0"	924.0
2	26'-0" x 33'-0"	858.0
3	27'-0" x 33'-0"	891.0
4	33'-0" x 33'-0"	1,089.0
5	36'-0" x 39'-0"	1,422.0
6	30'-0" x 54'-0"	1,620.0
7	6'-0" x 144'-0"	936.0
8	16'-0" x 20'-0"	330.0
9	14'-0" x 20'-0"	280.0
10	19'-0" x 18'-0"	342.0
11	12'-0" x 19'-0"	238.0
12	5'-0" x 8'-0"	43.0
13	8'-0" x 15'-0"	128.0
14	20'-0" x 22'-0"	440.0
15	30'-0" x 30'-0"	915.0
TOTAL		10,500.0

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING POWER	TOTAL
CONNECTED LOAD	52.5	87.0
ESTIMATED DEMAND	49.8	78.6
WATER (GPM)		
HOT	6	
COLD	50	
TOTAL	55	
TOTAL (GPD)	7,500	
SEWAGE (GPD)	5,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 497

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION 45

AREA FOR PROGRAMMING GROSS AREA

10,500 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

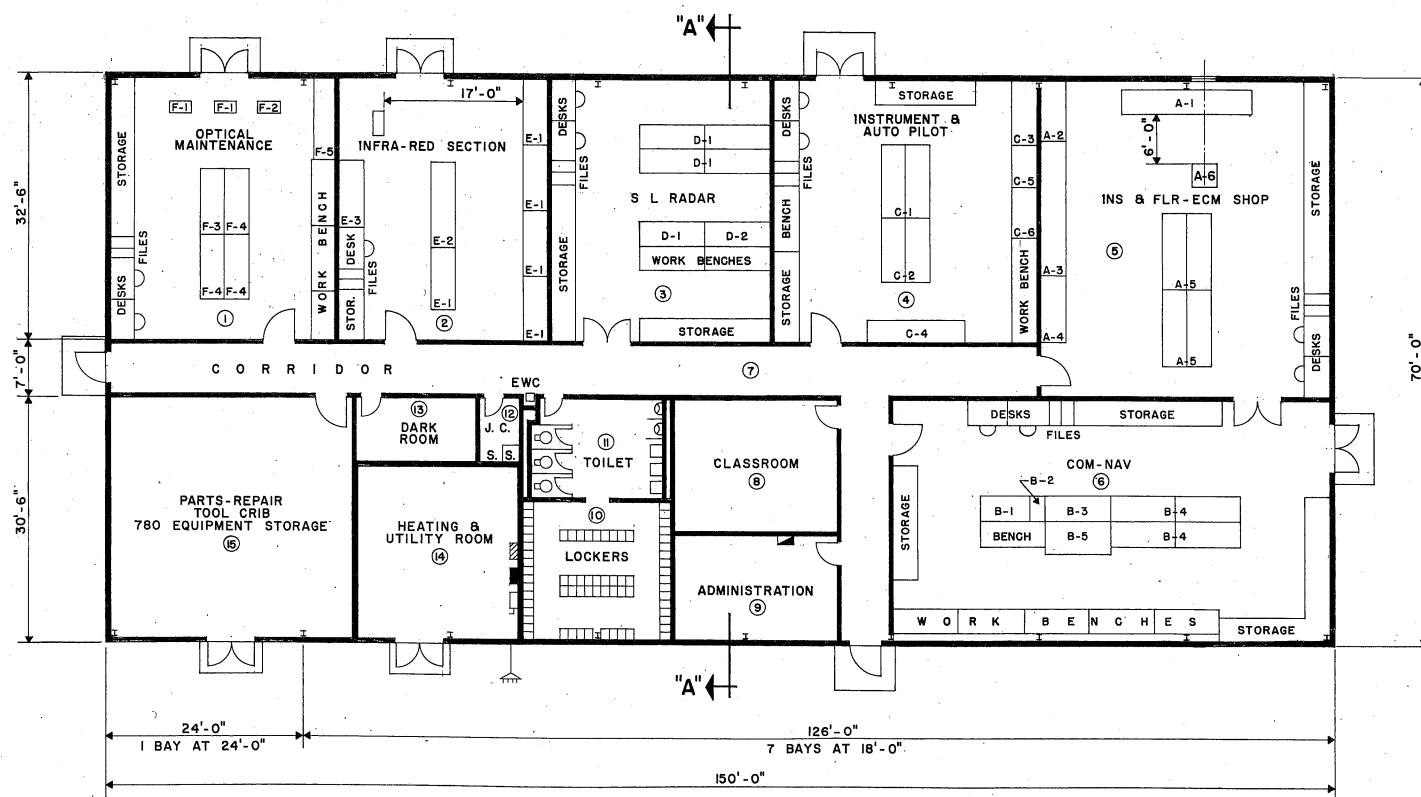
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.



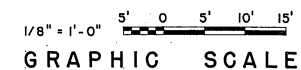
FLOOR PLAN
SCALE 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET



CATEGORY CODE NO. 217-712

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
AVIONICS SHOP (RF-4 AIRCRAFT)
PLAN & SECTION

APPROVED <i>Henry J. Pridemore</i> FOR CHIEF OF STAFF USAF	AD 35-60-42
SCALE AS SHOWN	SHEET 1 OF 2
DATE: 6 Nov. 1974	

C2

EQUIPMENT SCHEDULE

ROOM	NUMBER ON PLAN	DESIGNATION OR PART NUMBER	DESCRIPTION	QUANTITY	APPROX. DIMENSION EACH
INS. & FLR-ECM SHOP	A-1	AN/ASM-208	TEST BENCH SET - INERTIAL PLATFORM	1	192"L x 37"D x 67"H
	A-2	AN/ASM-296	TEST BENCH - NAVIGATIONAL COMPUTER	1	96"L x 37"D x 67"H
	A-3	AN/ASM-203	TEST BENCH - INERTIAL NAVIGATION SET	1	192"L x 37"D x 67"H
	A-4	53E 250004-307	TEST BENCH - HOMING & WARNING SYSTEM	1	96"L x 37"D x 67"H
	A-5	AN/APM-234	TEST BENCH - RADAR SET	1	456"L x 37"D x 67"H
	A-6		ROTARY TILT - TABLE PEDESTAL	1	20" x 17"
COM- NAV	B-1	MIL-B-4173	WORK BENCH, SOUND RECORDING SYSTEM	1	60"L x 30"D x 33"H
	B-2	AN/ARM-22A	TEST SET, RADIO	1	21"L x 20"D x 46"H
	B-3	AN/APM-217	TEST BENCH - ELECTRONIC ALTIMETER	1	96"L x 37"D x 67"H
	B-4	AN/ASM-176C	TEST BENCH SET - INTEGRATED ELECTRONIC CENTRAL	1	384"L x 37"D x 67"H
	B-5	AN/ARM-86	TEST BENCH - RADIO SET	1	96"L x 47"D x 67"H
INSTRUM & AUTO PILOT	C-1	AN/ASM-210A	TEST BENCH SET - ATTITUDE REFERENCE SET	1	216"L x 37"D x 67"H
	C-2	53E 210002-317	TEST BENCH ASSEMBLY - AIR DATA COMPUTER	1	192"L x 37"D x 67"H
	C-3	AN/ASM-236	TEST BENCH - AUTO PILOT	1	96"L x 37"D x 67"H
	C-4		TORQUE CALIBRATION	1	144"L
	C-5	MIL-B-4173	BENCH, WORK, SOUND RECORDING SYSTEM	1	60"L x 30"D x 33"H
	C-6		J-2 COMPASS MOCK-UP	1	72"L
SL RADAR	D-1	AN/APM-219	TEST BENCH ASSEMBLY - SIDE LOOKING RADAR	1	480"L x 37"D x 67"H
	D-2	AN/ASQ-90	DATA DISPLAY	1	
INFRA-RED SECTION	E-1	AN/AAM-17	TEST BENCH SET - INFRA-RED DETECTING SET	1	480"L x 37"D x 67"H
	E-2	AN/AAM-23	TEST BENCH SET - COOLER	1	126"L x 32"D x 67"H
	E-3	AN/ASM-205	TEST BENCH - DATA DISPLAY	1	96"L x 37"D x 70"H
OPTICAL MAINTENANCE	F-1		CAMERA DOLLY	2	
	F-2		DOLLY MOUNT	1	
	F-3	LS-62B	TEST BENCH SET - VERTICAL STABILIZED CAMERA MOUNT	1	96"L x 37"D x 67"H
	F-4	LS-64B	TEST BENCH - CAMERA SYSTEM	1	288"L x 37"D x 67"H
	F-5	LS-61	TEST SET - DATA RECORDING CAMERA SET	1	120"L x 30"D x 33"H

NOTE: ALL EQUIPMENT LISTED TO BE FURNISHED AND INSTALLED BY THE GOVERNMENT.

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

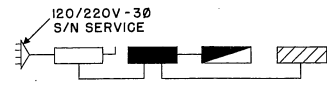
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AVIONICS SHOP
(RF-4 AIRCRAFT)

APPROVED
Henry Z. Pittel Jr.
FOR CHIEF OF STAFF USAF

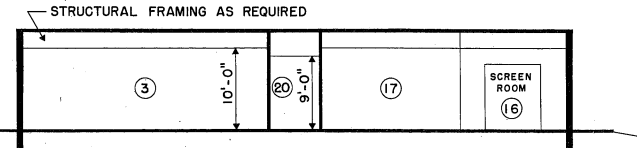
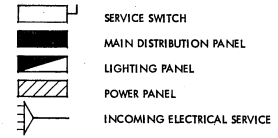
AD 35 - 60 - 42
SCALE: AS SHOWN
DATE: 6 Nov. 1974

SHEET 2 OF 2



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

SPECIAL EQUIPMENT SCHEDULE			
SYMBOL	DESCRIPTION	QUANTITY	DIMENSIONS
A-1	BOMB CONTAINERS (B 37K)	20	1'-0" W. x 1'-6" D.
B-1	AIR COMPRESSOR	.1	
C-1	RECTIFIER PORT P-G (FSN 6159-332-5600)	1	2'-1" W. x 1'-9" D.
C-2	MOTOR GENERATOR (MD-2) (FSN 6125-167-7451)	1	2'-6" W. x 3'-4" D.
C-3	POWER PANEL (2BY D.C.)	1	3'-1" W. x 0'-9" D.
C-4	POWER PANEL (220V 60 CYCLE)	1	3'-1" W. x 0'-9" D.
C-5	PANEL (220V 3 PHASE 60 CYCLE)	1	2'-0" W. x 0'-9" D.
C-6	VOLTAGE REGULATOR	1	
D-1	ARM 22 TEST SET RADIO	1	1'-7" W. x 1'-5" D.
E-1	FLYAWAY TEST BENCH (UG 373) MB-3 AUTO PILOT SYSTEM MOCK-UP	1	10'-0" W. x 2'-10" D.
E-2	FLYAWAY TEST BENCH (J-4) COMPASS MOCK-UP	1	4'-6" W. x 3'-0" D.
F-1	CLEANING VAT	1	8'-0" W. x 2'-7" D. x 8'-6" H.
F-2	CLEANING VAT	1	6'-0" W. x 3'-0" D. x 8'-0" H.
F-3	M-39 GUNS	4	1'-2" W. x 1'-2" D. x 4'-10" H.
F-4	GRINDER	1	2'-0" W. x 2'-6" D. x 4'-0" H.
F-5	PARTS STORAGE CABINET	1	3'-2" W. x 1'-0" D. x 7'-0" H.
F-6	OIL STORAGE CABINET	1	2'-0" W. x 1'-6" D.
G-1	LOAD CREW BOXES	12	2'-4" W. x 1'-7" D. x 3'-6" H.
G-2	LA V-59 ROCKET LAUNCHERS	14	10" DIAMETER / 50" HIGH
G-3	LOAD CREW STORAGE LOCKERS	12	3'-0" W. x 2'-0" D. x 7'-0" H.
H-1	REFRIGERATOR	1	
J-1	FLYAWAY MOCK-UP FOR ASG-17 FIRE CONTROL SYSTEM (PART NO. 1000109)	1	16'-0" W. x 3'-0" D.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

LEGEND

- B PUBLICATIONS BOOKCASE
- E.W.C. ELECTRIC WATER COOLER
- F FILE
- S.B. STORAGE BINS
- S.C. STORAGE CABINETS
- SH. SHELF
- S.S. SERVICE SINK
- T.R. TOOL BOX RACK
- W.B. WORK BENCH

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD		30	30.2	22.1	82.3
ESTIMATED DEMAND		30	28.7	19.9	78.6

	(GPM)
WATER	
HOT	6.75
COLD	50
TOTAL	52

	(GPD)	(GPD)
TOTAL	11,250	
SEWAGE		7,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 425.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. DB/78° F. WB
TONS OF REFRIGERATION 30

AREA FOR PROGRAMMING GROSS AREA

8,330 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

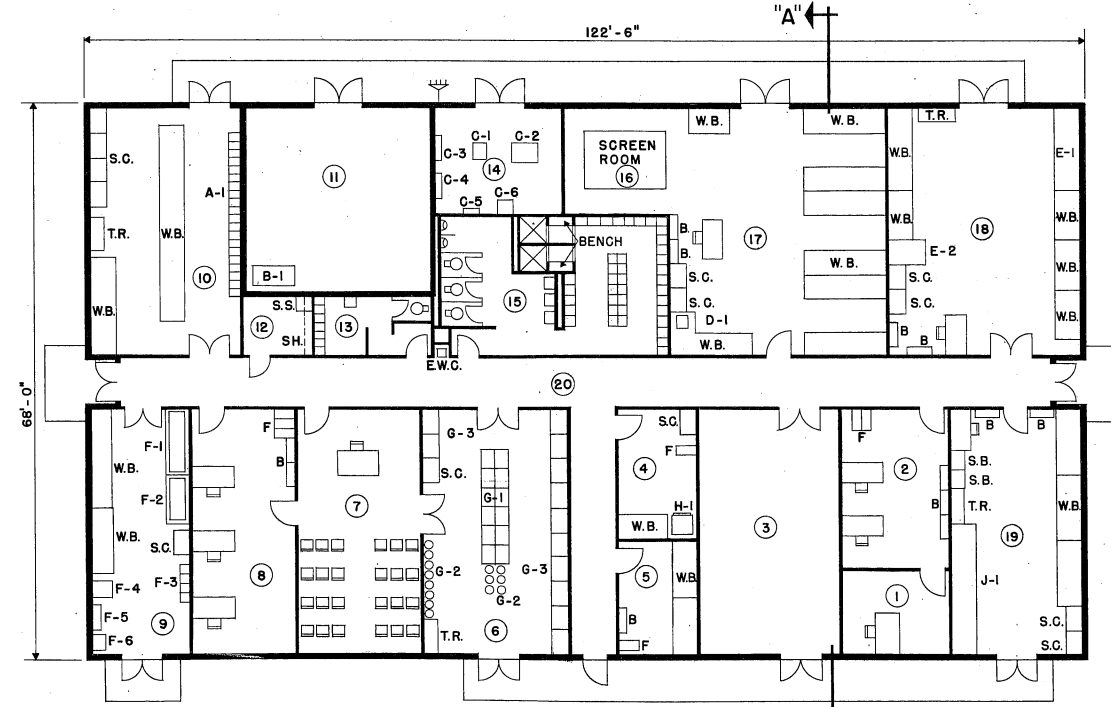
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

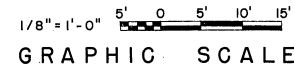
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 215-552, 217-712



FLOOR PLAN
SCALE 1/8" = 1'-0"

ROOM SCHEDULE			
RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	AVIONICS ADMINISTRATION	13'-3" x 11'-0"	146
2	AVIONICS OFFICER	13'-3" x 20'-0"	265
3	REPAIR PARTS STORAGE AND TOOL STORAGE	17'-6" x 31'-0"	543
4	PHOTO MAINTENANCE (GUN CAMERA)	10'-0" x 16'-3"	163
5	AIMS VAULT	10'-0" x 14'-9"	147
6	WEAPONS LOADING STORAGE	18'-0" x 31'-0"	558
7	WEAPONS LOADING CLASSROOM	15'-4" x 31'-0"	475
8	WEAPONS AND RELEASE SYSTEMS OFFICE	13'-0" x 31'-0"	404
9	GUN SERVICES	13'-2" x 31'-0"	408
10	WEAPONS RELEASE	19'-6" x 31'-0"	604
11	HEATING AND UTILITY ROOM	23'-3" x 23'-6"	546
12	JANITOR'S CLOSET	8'-8" x 7'-6"	65
13	LADIES TOILET	14'-7" x 7'-6"	109
14	POWER ROOM	15'-9" x 13'-9"	216
15	LATRINE AND LOCKER ROOM	28'-9" x 17'-3"	496
16	SCREEN ROOM	10'-1/2" x 6'-10-1/2"	68
17	RADIO AND RADAR REPAIR		940
18	INSTRUMENT/AUTO PILOT	24'-4" x 31'-0"	752
19	INTEGRATED SYSTEMS/FIRE CONTROL	16'-9" x 31'-0"	519
20	CORRIDOR	6'-0" WIDE	906
	TOTAL		8,330



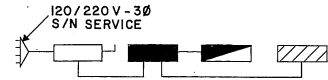
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AVIONICS SHOP
WEAPONS & RELEASE SYSTEMS SHOP
F-100 AIRCRAFT
PLAN & SECTION

APPROVED: *Berge L. Rutland, Jr.*
FOR CHIEF OF STAFF USAF

AD 35-60-44
SCALE: 1/8" = 1'-0"
DATE: 6 Nov. 1974

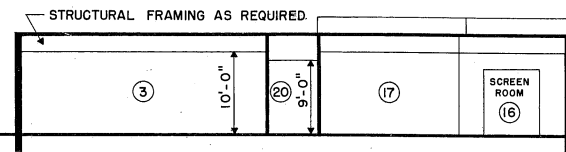
SHEET 1 OF 1



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- 200 AMPS, 440V, 3Ø, 60
- 30 AMPS, 120V, 1Ø, 60
- 100 AMPS, 220V, 1Ø, 60
- 100 AMPS, 220V, 3Ø, 60



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

SPECIAL EQUIPMENT SCHEDULE			
SYMBOL	DESCRIPTION	QUANTITY	DIMENSIONS
A-1	BOMB CONTAINERS (Ø 37K)	20	1'-0" W. x 1'-6" D.
B-1	AIR COMPRESSOR	1	
C-1	RECTIFIER PORT P-G (FSN 6138-332-5600)	1	2'-1" W. x 1'-9" D.
C-2	MOTOR GENERATOR (MD-2) (FSN 6125-167-7451)	1	2'-6" W. x 3'-4" D.
C-3	POWER PANEL (28V D.C.)	1	3'-1" W. x 0'-9" D.
C-4	POWER PANEL (220V 60 CYCLE)	1	3'-1" W. x 0'-9" D.
C-5	PANEL (220V 3 PHASE 60 CYCLE)	1	2'-0" W. x 0'-9" D.
C-6	VOLTAGE REGULATOR	1	
D-1	ARM 22 TEST SET RADIO	1	1'-7" W. x 1'-5" D.
E-1	FLYAWAY TEST BENCH (UG 373) MB-3 AUTO PILOT SYSTEM MOCK-UP	1	10'-0" W. x 2'-10" D.
E-2	FLYAWAY TEST BENCH (J-4) COMPASS MOCK-UP	1	4'-6" W. x 3'-0" D.
F-1	CLEANING VAT	1	8'-0" W. x 2'-7" D. x 8'-6" H.
F-2	CLEANING VAT	1	6'-0" W. x 3'-0" D. x 8'-0" H.
F-3	M-39 GUNS	4	1'-2" W. x 1'-2" D. x 4'-10" H.
F-4	GRINDER	1	2'-0" W. x 2'-6" D. x 4'-0" H.
F-5	PARTS STORAGE CABINET	1	3'-2" W. x 1'-0" D. x 7'-0" H.
F-6	OIL STORAGE CABINET	1	2'-0" W. x 1'-6" D.
G-1	LOAD CREW BOXES	12	2'-4" W. x 1'-7" D. x 3'-6" H.
G-2	LAV-59 ROCKET LAUNCHERS	14	10" DIAMETER / 50" HIGH
G-3	LOAD CREW STORAGE LOCKERS	12	3'-0" W. x 2'-0" D. x 7'-0" H.
H-1	REFRIGERATOR	1	
J-1	FLYAWAY MOCK-UP FOR ASG-17 FIRE CONTROL SYSTEM (PART NO. 1000109)	1	16'-0" W. x 3'-0" D.
K-1	PORTABLE X-RAY MACHINE, INDUSTRIAL, 160KUP (FSN 6635-018-5835)	1	
K-2	DRYER (FSN 6525-601-4500)	1	
K-3	COOLER, X-RAY FILM, 200 GAL. CAPACITY (FSN 6635-044-4421)	1	4'-2" L. x 2'-2" W. x 3'-4" H.
K-4	PROCESSOR (FSN 6525-616-7651)	1	5'-10" L. x 2'-10" W. x 5'-6" H.
K-5	FLOURESCOPE INSPECTION UNIT TYPE MA-2 WITHOUT ROLLER SECTIONS (FSN 6635-334-7419)	1	33'-0" L. x 5'-3" W. x 6'-6" H.
K-6	MAGNETIC INSPECTION KIT TYPE MB-3 (44Ø - 3Ø - 200 AMPS - 60-) (FSN 6635-055-6594)	1	15'-0" L. x 5'-0" W. x 5'-5" H.
K-7	WORK COUNTER WITH CABINETS UNDERNEATH	1	15'-0" L. x 3'-0" W. x 3'-0" H.

NOTES

- RED LIGHT - TO COME ON WHEN DOORS TO EXPOSURE ROOM ARE LOCKED.
- DOORS TO EXPOSURE ROOM ARE TO BE INTERLOCKED WITH X-RAY CONTROLS SO THAT X-RAY IS CUT OFF WHEN DOORS ARE OPENED.
- PROVIDE AUDIBLE WARNING DEVICE OR SIGNAL LIGHT IN EXPOSURE ROOM - ACTIVATED WHEN X-RAY IS IN OPERATION.
- CABLE PASSAGE BETWEEN EXPOSURE RM. & CONTROLS TO BE "S" SHAPED & PROVIDE SAME LEVEL OF SHIELDING AS EXPOSURE RM. WALLS.
- PROVIDE WARNING LIGHT OVER DOOR TO FILM PROCESSING ROOM TO INDICATE DARK ROOM IS IN USE.
- WALL THICKNESS OF EXPOSURE ROOM TO BE AS REQUIRED FOR ADEQUATE PROTECTION LAW NBS HANDBOOK 93

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

LEGEND

- COMPRESSED AIR OUTLET, 100 PSI/ PROVIDE TOTAL OF 10 CFM @ 105 PSI
- PUBLICATIONS BOOKCASE
- COLD WATER
- DRAIN
- DRAIN - CORROSION RESISTANT
- DOUBLE SLIDING DOORS
- EXHAUST (11" IN RM, 22 & 6" IN RM, 24)
- ELECTRIC WATER COOLER
- FILE
- HOT WATER
- OVERHEAD DOOR
- STORAGE BINS
- STORAGE CABINET
- SHELVES
- SERVICE SINK
- TOOL BOX RACK
- WORK BENCH
- WORK COUNTER
- WARNING LIGHT, SEE NOTE 5

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	35	59.9	26.9	121.8	
ESTIMATED DEMAND	35	56.9	24.2	116.1	
WATER (GPM)					
HOT	7				
COLD	52				
TOTAL	53				
TOTAL (GPD)	11,250				
SEWAGE (GPD)	7,500				

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 500.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB / 78° F, WB
TONS OF REFRIGERATION 35

AREA FOR PROGRAMMING GROSS AREA

9,928 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

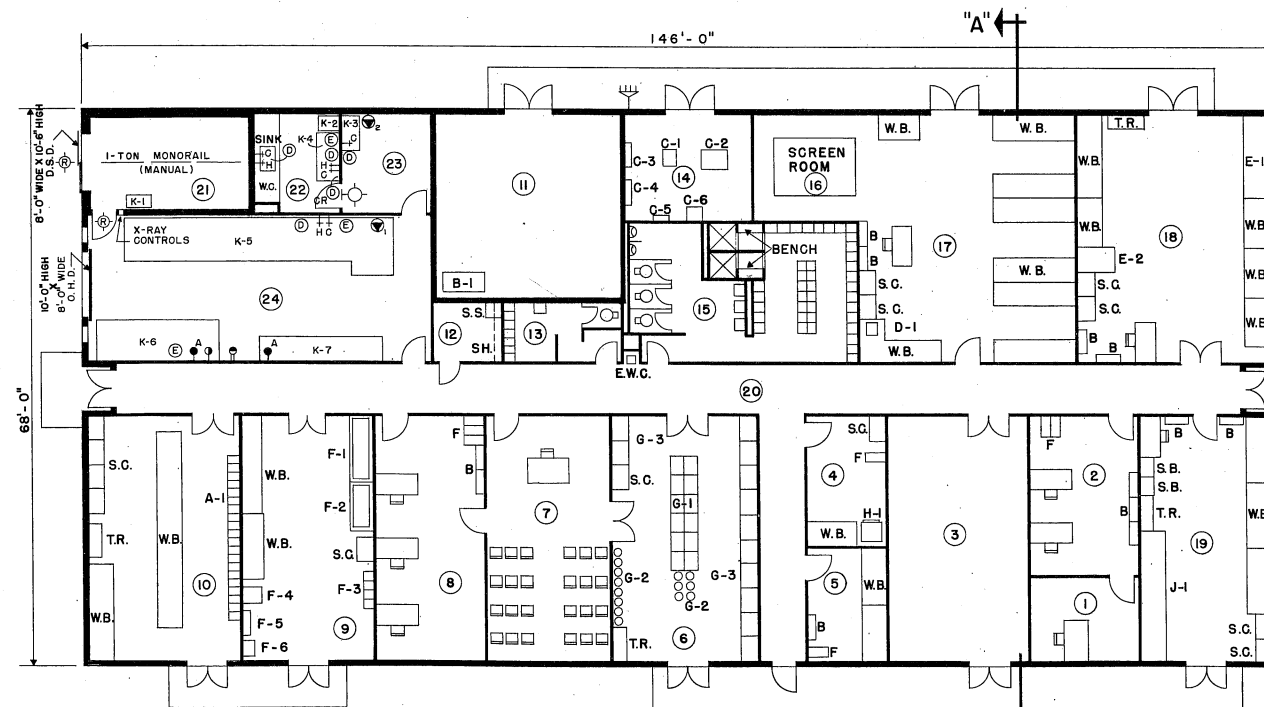
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 211-153, 215-552, 217-712



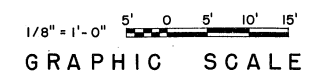
FLOOR PLAN
SCALE 1/8" = 1'-0"

ROOM SCHEDULE			
RM. NO.	DESCRIPTION	DIMENSIONS	AREA, SQ. FT.
1	AVIONICS ADMINISTRATION	13'-3" x 11'-0"	146
2	AVIONICS OFFICER	13'-3" x 20'-0"	265
3	REPAIR PARTS STORAGE AND TOOL STORAGE	17'-6" x 31'-0"	543
4	PHOTO MAINTENANCE (GUN CAMERA)	10'-0" x 16'-3"	163
5	AIMS VAULT	10'-0" x 14'-9"	147
6	WEAPONS LOADING STORAGE	18'-0" x 31'-0"	558
7	WEAPONS LOADING CLASSROOM	15'-4" x 31'-0"	475
8	WEAPONS AND RELEASE SYSTEMS OFFICE	13'-8" x 31'-0"	423
9	GUN SERVICES	16'-6" x 31'-0"	512
10	WEAPONS RELEASE	19'-6" x 31'-0"	604
11	HEATING AND UTILITY ROOM	23'-3" x 23'-6"	546
12	JANITOR'S CLOSET	8'-8" x 7'-6"	65
13	LADIES TOILET	14'-7" x 7'-6"	109
14	POWER ROOM	15'-9" x 13'-9"	216
15	LATRINE AND LOCKER ROOM	28'-9" x 17'-3"	496
16	SCREEN ROOM	10'-1/2" x 6'-10-1/2"	68
17	RADIO AND RADAR REPAIR		940
18	INSTRUMENT/AUTO PILOT	24'-3" x 31'-0"	752
19	INTEGRATED SYSTEMS/FIRE CONTROL	16'-9" x 31'-0"	519
20	CORRIDOR	6'-0" WIDE	1,047
* 21	EXPOSURE ROOM (12'-0" HIGH)	20'-9" x 13'-0"	270
** 22	FILM PROCESSING	10'-9" x 13'-0"	140
23	NDI ADMINISTRATION	11'-6" x 13'-0"	150
* 24	PENETRANTS/MAGNETICS (12'-0" HIGH)	43'-0" x 18'-0"	774
	TOTAL		9,928

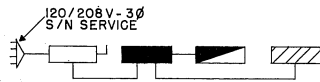
ALL CEILING HEIGHTS 10'-0" EXCEPT AS NOTED ON ROOM SCHEDULE.

* SEE NOTES 1, 2, 3, AND 4 ABOVE

** SEE NOTE 5 ABOVE

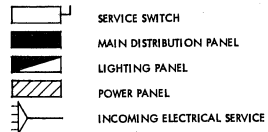


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES AVIONICS SHOP, NDI SHOP, & WEAPONS & RELEASE SYSTEMS SHOP F-100 AIRCRAFT PLAN & SECTION			
APPROVED <i>George J. Pustulka</i> FOR CHIEF OF STAFF USAF	AD 35-60-45		SCALE: 1/8" = 1'-0" DATE: 6 Nov. 1974
		SHEET 1 OF 1	



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA SQ. FT.
1	AVIONICS OFFICER AND ADMINISTRATION	19'-0" x 24'-0"	456
2	BENCH PARTS AND TOOLS STORAGE	18'-6" x 24'-0"	444
3	WEAPONS AND RELEASE SYSTEMS OFFICE	32'-0" x 24'-0"	768
4	WEAPONS LOADING CLASSROOM	23'-0" x 24'-0"	552
5	WEAPONS AND RELEASE SYSTEMS SHOP	---	688
6	WEAPONS RELEASE EXPLOSIVE MAINTENANCE	16'-0" x 13'-3"	212
7	WEAPONS LOADING STORAGE	24'-6" x 60'-6"	1,482
8	INSTRUMENT AUTO FLIGHT CONTROL SYSTEM	21'-6" x 53'-6"	1,150
9	COMMUNICATIONS AND NAVIGATIONS SHOP	18'-0" x 53'-6"	963
10	JANITOR'S CLOSET	7'-0" x 6'-0"	42
11	WOMEN'S TOILET	10'-0" x 6'-0"	60
12	MEN'S TOILET AND LOCKER ROOM	---	821
13	HEATING AND UTILITY ROOM	23'-6" x 28'-0"	658
14	HYDRAULIC AND A/C ROOM	16'-0" x 11'-3"	180
15	POWER ROOM	16'-0" x 11'-3"	180
16	INTEGRATED SYSTEM/FIRE CONTROL SHOP	---	2,123
17	CORRIDOR	---	1,051
TOTAL			11,830

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-6, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	42	59.15	59.15	160.3
ESTIMATED DEMAND	42	56.2	53.2	151.4

WATER (GPM)	HEATING	COLD	TOTAL
HOT	17		
COLD		63	
TOTAL			64
TOTAL	(GPD)		18,000
SEWAGE	(GPD)		12,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE ° F
M/8TU/HR = 524.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 42

AREA FOR PROGRAMMING GROSS AREA

11,830 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

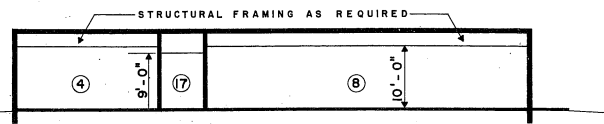
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

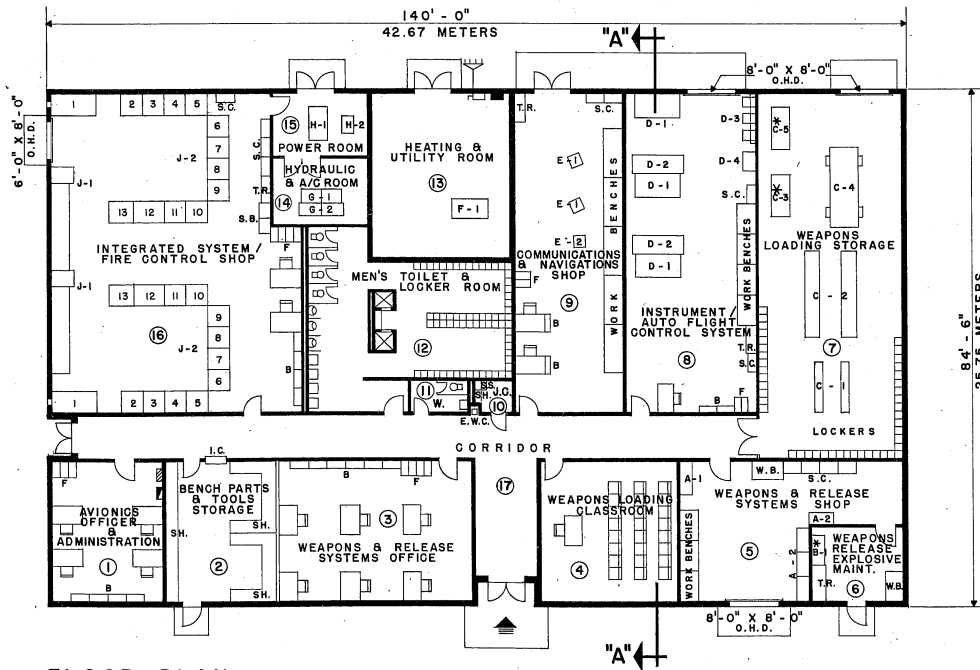
CATEGORY CODE NO. 215-552, 217-712



SECTION "A" - "A"
SCALE: 3/32" = 1' - 0"

LEGEND

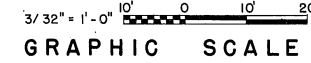
- B BOOKCASE
- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINETS
- I.C. ISSUE COUNTER
- J.C. JANITOR'S CLOSET
- O.H.D. OVERHEAD DOORS
- S.B. STORAGE BINS
- S.C. STORAGE CABINETS
- SH. SHELVES
- S.S. SERVICE SINK
- T.R. TOOL RACK
- W WOMEN'S
- W.B. WORK BENCH



FLOOR PLAN
SCALE: 3/32" = 1' - 0"

ROOM	SYMBOL	DESCRIPTION	PART NUMBER	QUANTITY	APPROX. DIMENSIONS
5	A-1	CLEANING TANK		1	5'-4" x 2'-0"
	A-2	MB-1 EJECTOR RACK CLEANING FIXTURE		4	4'-0" x 2'-0"
6	*B-1	SHELVES 19 EXPLOSIVE CARTRIDGES		2	5'-0" x 2'-0"
7	C-1	E.C.M. PODS		2	8'-3" x 1'-3"
	C-2	CHAFF DISPENSER		2	14'-2" x 2'-7"
	*C-3	BAGGAGE RACKS		4	6'-10" x 3'-0"
	C-4	HF-9 BOMB TRAILER		1	13'-0" x 4'-6"
	*C-5	MST EVALUATOR (ROCKET SIMULATOR)		10	7'-0" x 2'-9"
8	D-1	UG 897 TEST SET, AUTO PILOT, CENTRAL AIR DATA COMPUTER AND REDUNDANT LIMITING		3	7'-6" x 4'-0"
	D-2	UG 677/MOCK-UP AUTOMATIC FLIGHT CONTROL SYSTEM		2	8'-4" x 3'-0"
	D-3	TORQUE TESTER		1	8'-2" x 2'-0"
	D-4	REFRIGERATION UNIT		1	3'-1" x 2'-0"
9	E-1	TACAN BEACON SIMULATOR	6625-919-2007	2	2'-1" x 2'-2"
	E-2	DISPLAY INDICATOR	FSN 6625-776-0428	1	2'-7" x 2'-0"
13	F-1	AIR COMPRESSOR		1	6'-0" x 4'-6"
14	G-1	HYDRAULIC POWER CARTS		2	3'-3" x 2'-6"
	G-2	AIR CONDITIONING UNITS		2	3'-5" x 2'-1"
15	H-1	MD 4 (MOTOR GENERATOR) 120V/208V, 3 PHASE, 400 CYCLE	FSN 6125-679-0927	1	3'-2" x 5'-7"
	H-2	28 V D.C. RECTIFIER (8-9) 220V/440V, 3 PHASE, 60 CYCLES	FSN 6130-332-5600	1	2'-10" x 2'-0"
16	J-1	TEST FAULT DETECTOR AN/MPM-54 (V)-1		2	14'-3" x 3'-0"
	J-2	FIRE CONTROL SYSTEMS TEST STAND (1 THRU 13)		2	63'-0" x 3'-6"

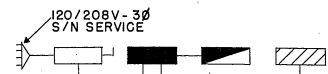
* STACKED EQUIPMENT



3/32" = 1' - 0"
GRAPHIC SCALE

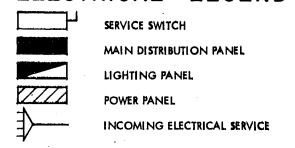
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
AVIONICS SHOP			
WEAPONS & RELEASE SYSTEMS SHOP			
(F-101 AIRCRAFT)			
PLAN & SECTION			
APPROVED	SCALE: 3/32" = 1' - 0"	DATE: 6 Nov 1974	SHEET 1 OF 1
<i>George J. Pothol</i>		AD 35-60-46	
FOR CHIEF OF STAFF USAF			

c2



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA SQ. FT.
1	AVIONICS OFFICER	14'-0" x 24'-0"	339
2	AVIONICS ADMINISTRATION	14'-6" x 24'-0"	371
3	BENCH PARTS AND TOOLS STORAGE	19'-6" x 24'-0"	422
4	WEAPONS AND RELEASE SYSTEMS OFFICE	29'-9" x 24'-0"	714
5	WEAPONS LOADING CLASSROOM	20'-0" x 24'-0"	480
6	WEAPONS AND RELEASE SYSTEMS SHOP	15'-6" x 12'-0"	186
7	WEAPONS RELEASE EXPLOSIVE MAINTENANCE	36'-0" x 62'-0"	2,232
8	WEAPONS LOADING STORAGE	---	---
9	COMMUNICATIONS AND NAVIGATIONAL AIDS MAINTENANCE	---	1,987
10	POWER ROOM	20'-6" x 11'-3"	230
11	HEATING AND UTILITY ROOM	24'-0" x 29'-9"	618
12	MEN'S TOILET AND LOCKER ROOM	---	935
13	WOMEN'S TOILET	8'-9" x 6'-6"	56
14	JANITOR'S CLOSET	6'-0" x 6'-6"	39
15	INTEGRATED SYSTEM/FIRE CONTROL SYSTEM MAINTENANCE	46'-0" x 62'-0"	2,852
16	POWER ROOM FOR FIRE CONTROL SYSTEM	18'-0" x 39'-6"	320
17	CORRIDOR	---	1,069
TOTAL			13,520

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	46	66	66	178
ESTIMATED DEMAND	46	62.7	59.4	168.1

WATER (GPM)	
HOT	10
COLD	57
TOTAL	59
TOTAL (GPD)	13,500
SEWAGE (GPD)	9,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 585.7

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 46

AREA FOR PROGRAMMING GROSS AREA

13,520 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

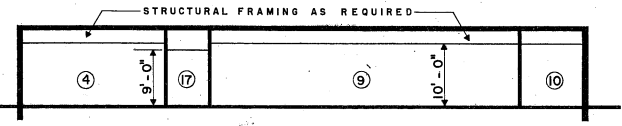
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

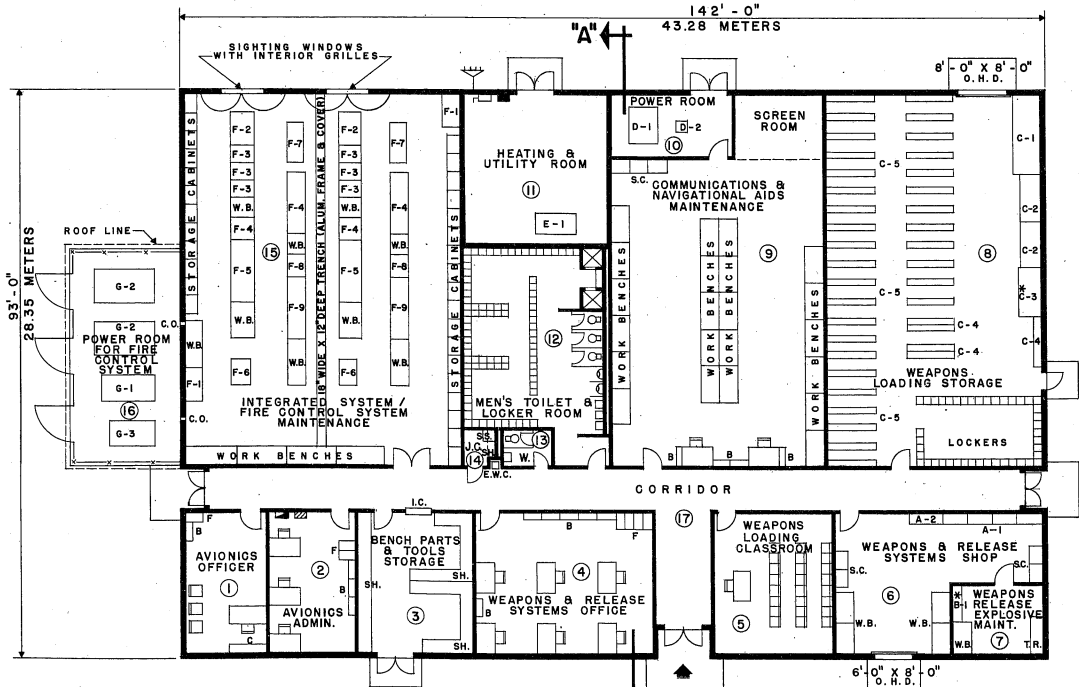
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 215-552, 217-712



SECTION "A" - "A"
SCALE: 3/32" = 1' - 0"



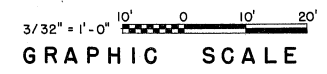
FLOOR PLAN
SCALE: 3/32" = 1' - 0"

SPECIAL EQUIPMENT SCHEDULE					
ROOM	SYMBOL	DESCRIPTION	PART NUMBER	QUANTITY	APPROX. DIMENSIONS
6	A-1	MB-1 EJECTOR RACK CLEANING FIXTURE		4	4'-0" x 2'-0"
	A-2	CLEANING TANK		1	5'-4" x 2'-0"
7	*B-1	SHELVES - STORE EXPLOSIVE CARTRIDGES		2	5'-0" x 1'-6"
8	C-1	MF-9 BOMB TRAILER		1	13'-0" x 4'-6"
	C-2	TEST STAND FOR MB-1 EJECTOR		2	7'-9" x 3'-3"
	C-3	RACK, MAC DONALD SIMULATOR/RECORDER		1	8'-0" x 3'-6"
	C-4	STORAGE BOXES, WEAPON SYSTEM (EVALUATOR MONITOR)		5	7'-8" x 1'-0"
	C-5	MISSILE HANDLING FRAMES		33	7'-6" x 1'-0"
10	D-1	MD-4 MOTOR GENERATOR	6125-669-6754	1	6'-0" x 4'-5"
	D-2	RECTIFIER PORT P-6 (PRODUCES 28 V D.C.)	6130-332-3600	1	2'-0" x 1'-9"
11	E-1	AIR COMPRESSOR (220 V, 3 PHASE/60 CYCLE)	4310-692-2653YK	1	6'-8" x 3'-4"
15	F-1	MAINTENANCE HAND TRUCK		2	5'-0" x 3'-0"
	F-2	RADAR MOBILE TEST STAND (PARAMETRIC AMPLIFIER & RAPID TUNE)		2	5'-6" x 4'-0"
	F-3	RADAR TEST STAND		6	4'-0" x 3'-0"
	F-4	FLIGHT CONTROL AND MEASUREMENT TEST STAND		2	3'-6" x 4'-0"
	F-5	COMPUTER TEST STAND		2	10'-0" x 4'-0"
	F-6	COCKPIT INSTRUMENT AND CONVERTER TEST STAND		2	4'-6" x 3'-0"
	F-7	ARMAMENT TEST STAND		2	7'-0" x 3'-0"
	F-8	POWER SUPPLY TEST STAND		2	4'-0" x 3'-0"
	F-9	COMMUNICATION/NAVIGATION AND LANDING TEST STAND		2	10'-0" x 3'-0"
16	G-1	GENERATOR, AF/M 24 MS	6125-068-3812	1	8'-7" x 4'-6"
	G-2	GENERATOR SET, AF/ECU-10/M-A (PORTABLE, MOTOR DRIVEN)		2	10'-0" x 5'-9"
	G-3	ELECTRICAL POWER TEST SET (LOAD BANK) A/E 24T-12		1	7'-3" x 4'-2"

* STACKED EQUIPMENT

LEGEND

- B BOOKCASE
- C CREDENZA
- C.O. CABLE OPENING
- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINET
- I.C. ISSUE COUNTER
- J.C. JANITOR'S CLOSET
- O.H.D. OVERHEAD DOORS
- S.C. STORAGE CABINETS
- SH. SHELVES
- S.S. SERVICE SINK
- T.R. TOOL RACK
- W WOMEN
- W.B. WORK BENCH



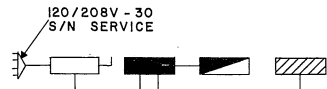
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAK AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA

AIR RESERVE FORGES
AVIONICS SHOP
WEAPONS & RELEASE SYSTEMS SHOP
(F-106 AIRCRAFT)
PLAN & SECTION

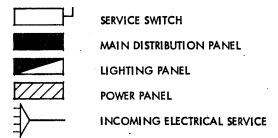
APPROVED: *George J. Pritchard, Jr.*
FOR CHIEF OF STAFF USAF

SCALE: 3/32" = 1' - 0"
DATE: 6 Nov. 1974
SHEET 1 OF 1
AD 35-60-47

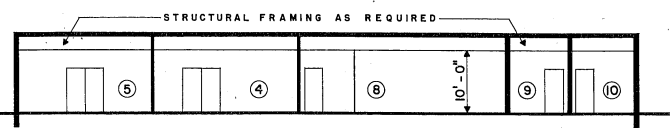


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



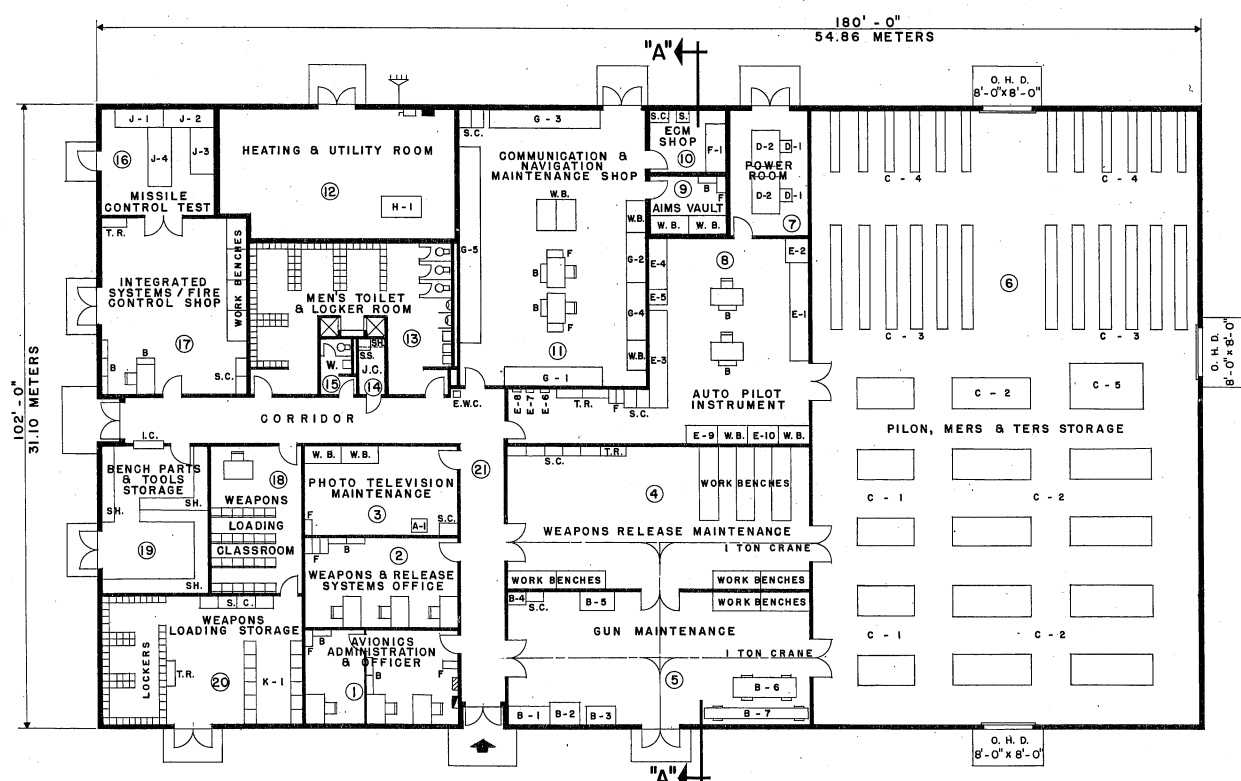
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA SQ. FT.
1	AVIONICS ADMINISTRATION AND OFFICER	25'-6" x 16'-6"	421
2	WEAPONS AND RELEASE SYSTEM OFFICE	25'-6" x 15'-3"	389
3	PHOTO TELEVISION MAINTENANCE	25'-6" x 15'-3"	389
4	WEAPONS RELEASE MAINTENANCE	50'-0" x 23'-9"	1,188
5	GUN MAINTENANCE	50'-0" x 22'-9"	1,138
6	PILON, MERS AND TERS STORAGE	64'-0" x 102'-0"	6,520
7	POWER ROOM	13'-0" x 24'-3"	315
8	AUTO PILOT INSTRUMENT	---	1,120
9	AIMS VAULT	13'-3" x 10'-0"	133
10	ECM SHOP	13'-3" x 11'-0"	146
11	COMMUNICATION AND NAVIGATION MAINTENANCE SHOP	31'-6" x 45'-0"	1,418
12	HEATING AND UTILITY ROOM	39'-6" x 22'-3"	879
13	MEN'S TOILET AND LOCKER ROOM	---	771
14	JANITOR'S CLOSET	5'-0" x 9'-9"	49
15	WOMEN'S TOILET	6'-0" x 9'-9"	59
16	MISSILE CONTROL TEST	19'-3" x 17'-9"	342
17	INTEGRATED SYSTEM/FIRE CONTROL SHOP	25'-0" x 29'-9"	744
18	WEAPONS LOADING CLASSROOM	16'-0" x 25'-0"	400
19	BENCH PARTS AND TOOLS STORAGE	17'-6" x 25'-0"	438
20	WEAPONS LOADING STORAGE	33'-6" x 22'-0"	737
21	CORRIDOR	---	764
TOTAL			18,360



SECTION "A" - "A"
SCALE: 3/32" = 1' - 0"

LEGEND

- B BOOKCASE
- E.W.C. ENTRY
- F FILE CABINETS
- I.C. ISSUE COUNTER
- J.C. JANITOR'S CLOSET
- O.H.D. OVERHEAD DOORS
- S SAFE
- S.C. STORAGE CABINETS
- SH. SHELVES
- S.S. SERVICE SINK
- T.R. TOOL BOX RACK
- W WOMEN
- W.B. WORK BENCH



FLOOR PLAN
SCALE: 3/32" = 1' - 0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-B, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	65	91.8	91.8	248.6
ESTIMATED DEMAND	65	87.2	82.62	234.83

WATER (GPM)	TOTAL
HOT	10
COLD	57
TOTAL	59
TOTAL (GPD)	13,500
SEWAGE (GPD)	9,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 796.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 65

AREA FOR PROGRAMMING GROSS AREA **18,360 SQ. FT.**

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

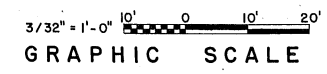
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 215-552, 217-712

SPECIAL EQUIPMENT SCHEDULE

ROOM	SYMBOL	DESCRIPTION	PART NUMBER	QUANTITY	APPROX. DIMENSIONS
3	A-1	REFRIGERATOR		1	
5	B-1	CLEANING TANK	FSN 4935-866-246581	1	6'-8" x 3'-0"
	B-2	DEGREASER (STATIONARY)	FSN 4940-294-2976	1	4'-10" x 3'-6"
	B-3	DEGREASER (PORTABLE)	FSN 4940-555-2073	1	4'-10" x 3'-0"
	B-4	IMMERSION TANK HEATER		1	3'-0" x 2'-0"
	B-5	CARGO BIN	FSN 7125-872-1285	1	5'-8" x 3'-0"
B-6	GUN DOLLY	SUU-16	1	10'-4" x 3'-4"	
B-7	GUN DOLLY	SUU-16	1	17'-0" x 1'-10"	
6	C-1	STORAGE RACKS/ARMAMENT PILONS, CENTERLINE ADAPTER	536-73301-11 53-73023-301	5	8'-8" x 4'-8"
	C-2	STORAGE RACKS (MULTIPLE AND TRIPLE EJECTOR)	651-46-009 661-45-317	9	13'-0" x 5'-0"
	C-3	SUU-16 GUNS		12	17'-0" x 22" D.
	C-4	SUU-208A ROCKET AND BOMB DISPENSER		12	10'-2" x 19" D.
	C-5	MHU 12 BOMB TRAILER		1	11'-0" x 7'-6"
7	D-1	RECTIFIER PORT P-G (PRODUCES 28V D.C.)	6130-332-5600 6125-669-6754	2	2'-0" x 1'-9"
	D-2	MD-4 GENERATOR		2	6'-0" x 4'-5"
	E-1	TEST BENCH - ATTITUDE REFERENCE BOMBING COMPUTER	AN/ASM-17A	1	16'-0" x 3'-0"
	E-2	TABLE - THREE AXIS	LT 3784 A	1	4'-5" x 3'-5"
	E-3	TEST BENCH - AIR DATA COMPUTER	AN/ASM-201B	1	16'-0" x 3'-0"
	E-4	TEST BENCH - AUTO PILOT	AN/ASM-236A	1	8'-0" x 3'-0"
	E-5	STAND - RATE TABLE ENCLOSURE	50181VE	1	3'-0" x 2'-8"
	E-6	TORQUE METER WALL MOUNTED (4500 LBS.)		1	22" L x 9" W
	E-7	TORQUE METER WALL MOUNTED (1600 LBS.)		1	19" L x 7" W
	E-8	TORQUE METER WALL MOUNTED (150 LBS.)		1	14" L x 6" W
E-9	WORK BENCH MANOMETER		1	5'-0" x 3'-0"	
E-10	WORK BENCH (PANEL)		1	5'-0" x 3'-0"	
10	F-1	TEST BENCH - ELECTRONIC	536 250004-307	1	8'-0" x 3'-0"
11	G-1	TEST BENCH - INERTIAL NAVIGATION	AN/ASM-194	1	16'-0" x 3'-0"
	G-2	TEST BENCH - NAVIGATIONAL COMPUTER	AN/ASM-296	1	8'-0" x 3'-0"
	G-3	TEST BENCH - INERTIAL PLATFORM	AN/ASM-208	1	16'-0" x 3'-0"
	G-4	TEST BENCH - ELECTRONIC ALTIMETER	AN/APM-229	1	8'-0" x 3'-0"
	G-5	TEST BENCH - INTEGRATED ELECTRONIC CENTRAL	AN/ASM-176C	1	32'-0" x 3'-0"
12	H-1	AIR COMPRESSOR (220V, 3 PHASE 60 CYCLES)	FSN 4310-693-2653 YK	1	6'-8" x 3'-4"
16	J-1	TEST BENCH - MISSILE CONTROL SYSTEM	(1A) TS 2047/ AWM-17	1	8'-0" x 3'-0"
	J-2	TEST BENCH - MISSILE CONTROL SYSTEM	(1B) TS 2068/ AWM-17	1	8'-0" x 3'-0"
	J-3	TEST BENCH COVER - MISSILE CONTROL SYSTEM	(1C) 21B000 55 P001	1	7'-6" x 4'-0"
	J-4	TEST BENCH - MISSILE CONTROL SYSTEM	(1D) TS 2070/ AWM-17	1	8'-1" x 3'-10"
20	K-1	LOAD CREW BOXES		12	2'-4" x 1'-7"



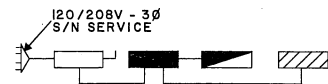
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AVIONICS SHOP
WEAPONS & RELEASE SYSTEMS SHOP
(F-4 AIRCRAFT)
PLAN B SECTION

APPROVED: *Henry Z. Pritchard*
FOR CHIEF OF STAFF USAF

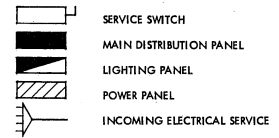
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974

SHEET 1 OF 1
AD 35-60-48

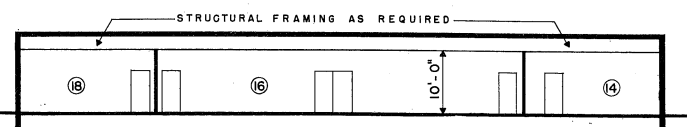


ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



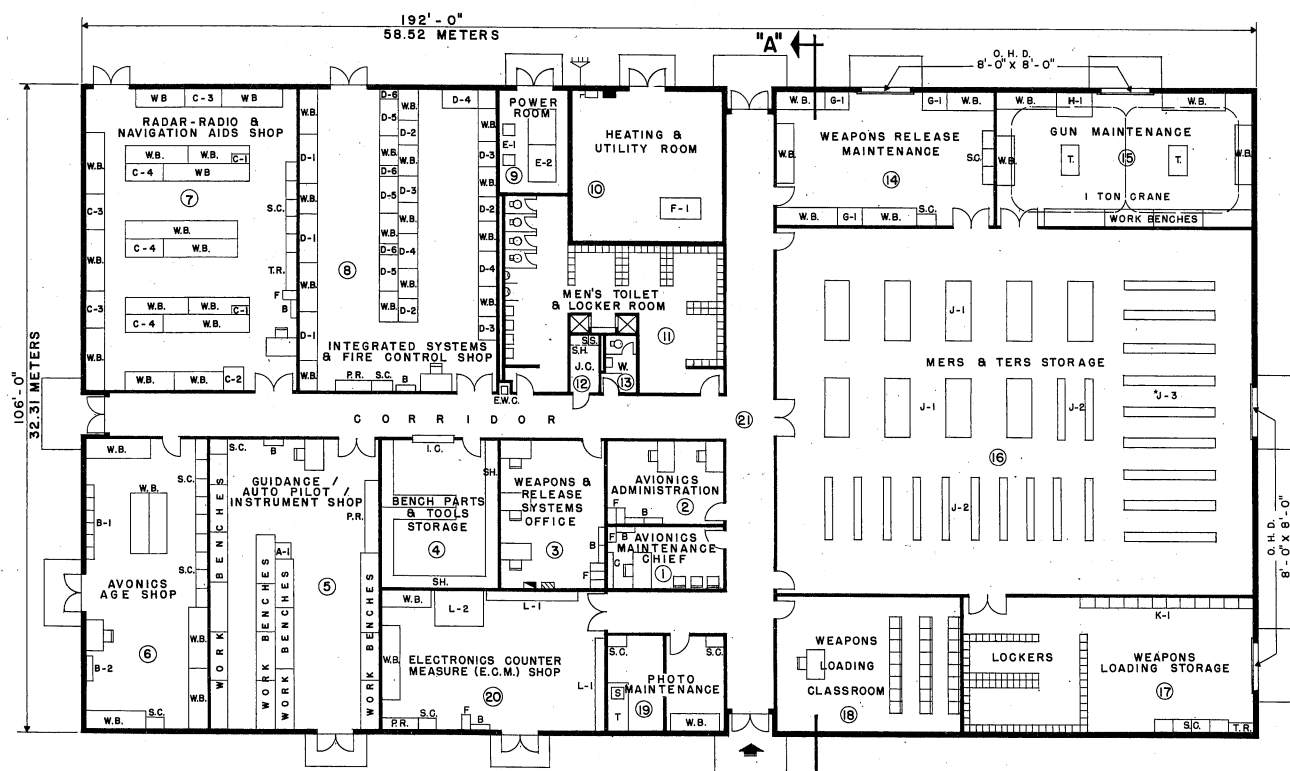
ROOM SCHEDULE			
ROOM NO.	DESCRIPTION	DIMENSIONS	GROSS AREA SQ. FT.
1	AVIONICS MAINTENANCE CHIEF	19'-6" x 10'-6"	204
2	AVIONICS ADMINISTRATION	19'-6" x 14'-0"	273
3	WEAPONS AND RELEASE SYSTEM OFFICE	17'-3" x 24'-6"	422
4	BENCH PARTS AND TOOLS STORAGE	19'-6" x 24'-6"	477
5	GUIDANCE/AUTO PILOT/INSTRUMENT SHOP	28'-0" x 48'-6"	1,351
6	AVIONICS AGE SHOP	21'-0" x 48'-6"	1,018
7	RADAR-RADIO AND NAVIGATION AIDS SHOP	35'-6" x 50'-6"	1,792
8	INTEGRATED SYSTEMS AND FIRE CONTROL SHOP	32'-6" x 50'-6"	1,641
9	POWER ROOM	11'-9" x 17'-9"	208
10	HEATING AND UTILITY ROOM	25'-6" x 25'-9"	656
11	MEN'S TOILET AND LOCKER ROOM	---	961
12	JANITOR'S CLOSET	5'-0" x 10'-0"	50
13	WOMEN'S TOILET	6'-0" x 10'-0"	60
14	WEAPONS RELEASE MAINTENANCE	36'-0" x 23'-0"	828
15	GUN MAINTENANCE	42'-6" x 23'-0"	977
16	MERS AND TERS STORAGE	79'-0" x 60'-0"	4,740
17	WEAPONS LOADING STORAGE	48'-0" x 23'-0"	1,104
18	WEAPONS LOADING CLASSROOM	31'-0" x 23'-0"	713
19	PHOTO MAINTENANCE	20'-0" x 16'-0"	320
20	ELECTRONICS COUNTER MEASURE (E.C.M.) SHOP	37'-0" x 24'-0"	888
21	CORRIDOR	---	1,667
TOTAL			20,350



SECTION "A" "A"
SCALE: 3/32" = 1'-0"

LEGEND

- B BOOKCASE
- C CREDENZA
- E ENTRY
- E.W.C. ELECTRIC WATER COOLER
- F FILE CABINETS
- I.C. ISSUE COUNTER
- J.C. JANITOR'S CLOSET
- O.H.D. OVERHEAD DOORS
- P.R. PARTS RACK
- S SINK
- S.C. STORAGE CABINETS
- SH. SHELVES
- S.S. TABLE
- T TOOL RACK
- T.R. WOMEN
- W.B. WORK BENCH



FLOOR PLAN
SCALE: 3/32" = 1'-0"

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	REFRIG.	LIGHTING	POWER	TOTAL
CONNECTED LOAD	75	101.75	101.75	278.5
ESTIMATED DEMAND	75	96.6	91.57	263.17
WATER (GPM)				
HOT	9			
COLD	60			
TOTAL	63			
TOTAL (GPD)	15,750			
SEWAGE (GPD)	10,500			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 674.8

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB/78° WB
TONS OF REFRIGERATION 75

AREA FOR PROGRAMMING GROSS AREA

20,350 SQ.FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTREATED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

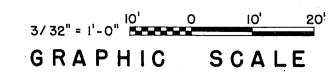
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 215-552, 217-712

SPECIAL EQUIPMENT SCHEDULE

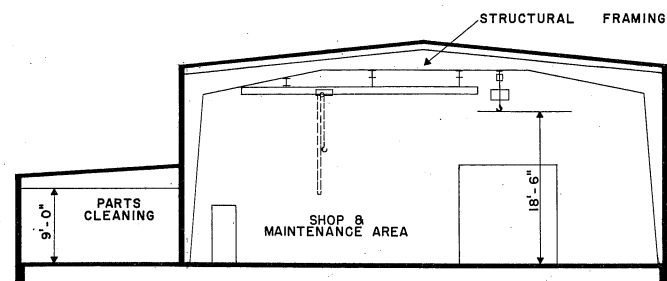
ROOM SYMBOL	DESCRIPTION	PART NUMBER	QUANTITY	APPROX. DIMENSIONS	
5	A-1	CRYOGENIC REFRIGERATOR	4110-168-1960 YR	1	30" x 30" x 36"
6	B-1	TOOL SET, WIRING HARNESS	216-01506-1	6	27" x 18" x 34"
	B-2	CALIBRATION OPTICAL ALIGNMENT	216-00977-1	1	48" x 12" x 24"
7	C-1	TEST SET, RADAR	AN/UJM-137	2	34" x 19" x 22"
	C-2	TEST SET, RADIO TRANSMITTER	AN/DRA-6	1	41" x 47" x 60"
	C-3	TEST SET, INERTIAL MEASUREMENT	216-01942-1	3	72" x 34" x 72"
	C-4	TEST SET, RADAR NAVIGATION	216-01934-1	3	72" x 34" x 72"
	D-1	TEST SET, LRU	216-01926-1	3	96" x 34" x 68"
8	D-2	TEST SET, RADAR MODULE/W LRU (AN/APQ-124)	216-01920-3	3	48" x 34" x 72"
	D-3	TEST SET, RADAR ANTENNA - RECEIVER TRANSMITTER	216-01921-2	3	48" x 34" x 72"
	D-4	TEST SET, RADAR VIDEO/SERVQ/W LRU	216-01922-2	3	72" x 34" x 72"
	D-5	TEST SET, COMPUTER NWD5/W LRU	216-01943-2	3	72" x 34" x 72"
	D-6	AIR CONDITIONER	A/E 32C-23	3	17" x 17" x 32"
9	E-1	RECTIFIER PORT P-G (PRODUCES 28 V D.C.)	6130-332-5600	2	21" x 24" x 50"
	E-2	MD-4 MOTOR (GENERATOR)	6125-669-6754	2	72" x 53" x 51"
10	F-1	AIR COMPRESSOR	4310-693-2653 YK	1	40" x 80" x 52"
14	G-1	TEST SET, ASCU LRU UNDER TEST	216-01911-4	3	48" x 34" x 72"
15	H-1	DEGREASER STATIONARY	4940-141-8504	1	63" x 45" x 74"
16	J-1	STORAGE RACKS (MULTIPLE AND TRIPLE EJECTOR)	1095-068-3845	9	48" x 120" x 72"
	J-2	SUU-16-20BA ROCKET AND BOMB DISPENSER	1095-964-3182	12	19" D. x 124"
	*J-3	LAU-48 ROCKET LAUNCHERS		27	18" D. x 180"
17	K-1	LOAD CREW BOXES		12	28" x 19" x 42"
20	L-1	CRADLE ELECTRONIC	7633-6780-1	2	180" x 18" x 36"
	L-2	CRANE, FLOOR PORTABLE	MIL-C-4551	1	96" x 72" x 96"

* STACKED EQUIPMENT

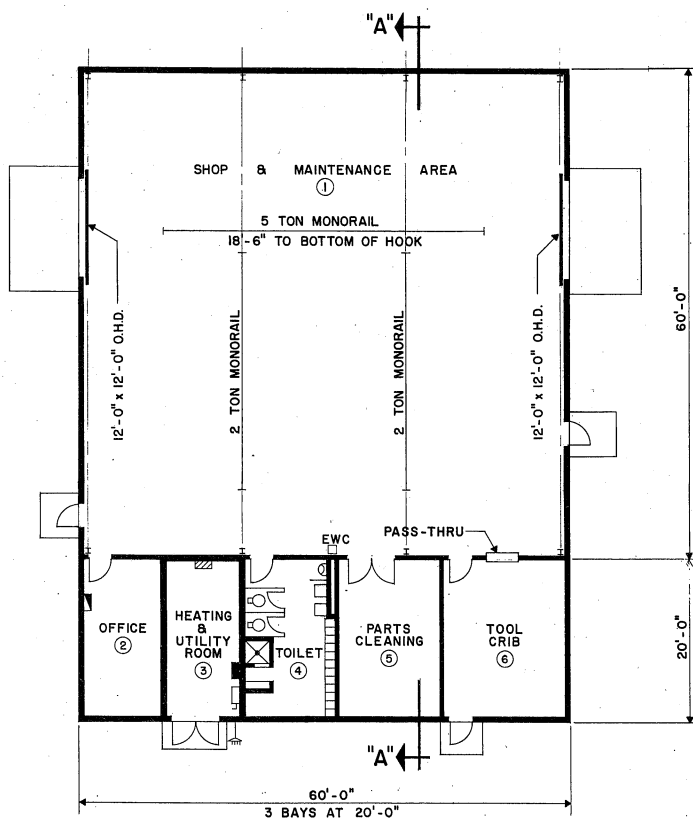


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORGES AVIONICS SHOP WEAPONS & RELEASE SYSTEMS SHOP (A-7 AIRCRAFT) PLAN 8 SECTION			
APPROVED	SCALE: 3/32" = 1'-0"	DATE: 6 Nov. 1974	SHEET 1 OF 1
George Z. Pritchard FOR CHIEF OF STAFF USAF		AD 35-60-49	

c2



SECTION "A" - "A"
SCALE 1/8" = 1'-0"



FLOOR PLAN TYPE - A
SCALE 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- E.W.C. ELECTRIC WATER COOLER
- O.H.D. OVERHEAD DOOR
- FLOOR DRAIN

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	24.0	20.2	44.2
ESTIMATED DEMAND	22.8	16.4	39.2

WATER (GPM)		
HOT	6	
COLD	44	
TOTAL	44	

TOTAL (GPD)	
4,500	

SEWAGE (GPD)	
3,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR = 360.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F, DB & 78° F, DB
TONS OF REFRIGERATION 1

AREA FOR PROGRAMMING GROSS AREA

AIRCRAFT ENGINE I & R SHOP WITH PROP SHOP FOR U-3, AND 0-2 AIRCRAFT

4,800 SQ. FT.

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
①	60'-0" x 60'-0"	3,600
②	10'-6" x 20'-0"	210
③	9'-6" x 20'-0"	190
④	11'-6" x 20'-0"	230
⑤	12'-9" x 20'-0"	255
⑥	15'-9" x 20'-0"	315
TOTAL		4,800

DESIGN GUIDES

ARCHITECTURAL

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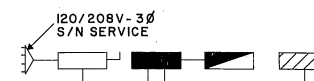
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

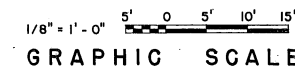
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 211-157



ELECTRICAL RISER DIAGRAM
NO SCALE



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES

AIRCRAFT ENGINE INSPECTION & REPAIR SHOP - TYPE A

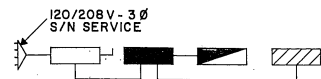
PLAN & SECTION

APPROVED

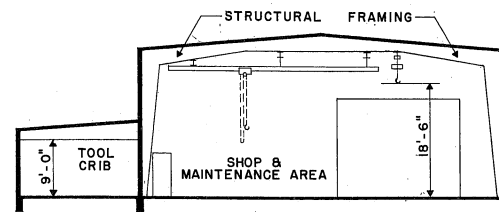
George A. Pithers, Jr.
FOR CHIEF OF STAFF USAF

AD 35-79-05

SCALE AS NOTED SHEET 1 OF 5
DATE: 6 Nov. 1974

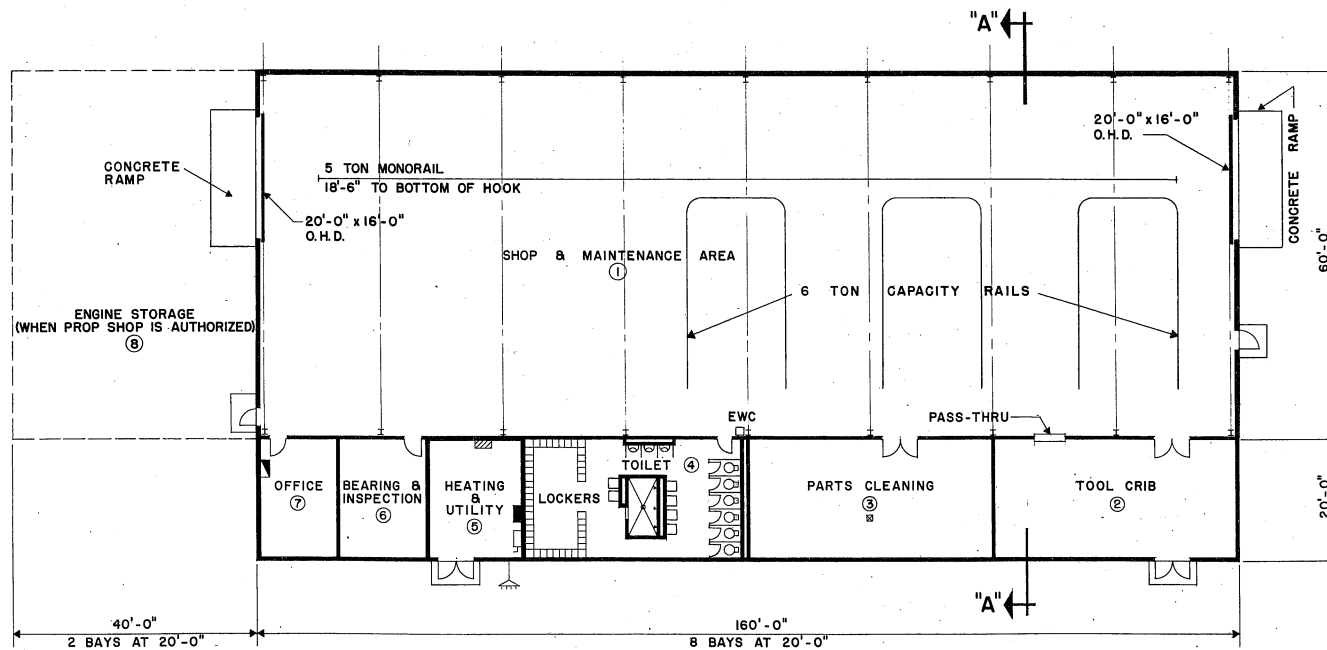


ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
①	60'-0" x 160'-0"	9,600
②	20'-0" x 40'-0"	800
③	20'-0" x 40'-0"	800
④	20'-0" x 37'-0"	740
⑤	20'-0" x 15'-0"	300
⑥	20'-0" x 15'-0"	300
⑦	20'-0" x 13'-0"	260
	TOTAL	12,800
⑧	60'-0" x 40'-0"	2,400



FLOOR PLAN TYPE A
SCALE 3/32" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING POWER	TOTAL
BASIC BUILDING			
CONNECTED LOAD		64.0	52.2
ESTIMATED DEMAND		60.8	41.9
40' x 60' ADDITION WHEN REQUIRED			
CONNECTED LOAD	12	9.6	21.6
ESTIMATED DEMAND	11.4	7.7	19.1
WATER (GPM)			
HOT		13	
COLD		65	
TOTAL		70	
TOTAL (GPD)	13,500		
SEWAGE (GPD)	9,000		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/ BTU/HR = 869.5

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION

AREA FOR PROGRAMMING GROSS AREA

ENGINE I & R SHOP (BASIC) FOR G-121 AIRCRAFT	12,800 SQ. FT.
40' X 60' ADDITION WHEN PROP SHOP IS AUTHORIZED	2,400 SQ. FT.
GROSS TOTAL AREA	15,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

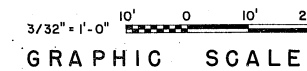
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 211-157

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

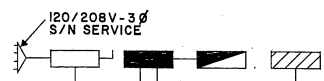
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
AIRCRAFT ENGINE INSPECTION & REPAIR SHOP-TYPE B
PLAN & SECTION

APPROVED
Henry J. P.../f
FOR CHIEF OF STAFF USAF
AD 35-79-05
SCALE AS NOTED
DATE 6 Nov, 1974
SHEET 2 OF 5



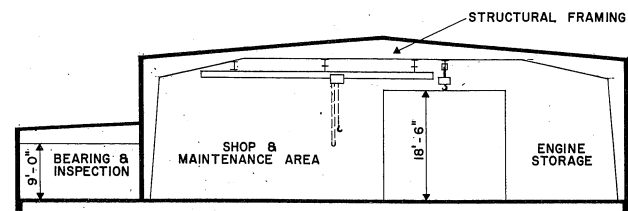
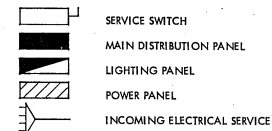
GRAPHIC SCALE

C2



ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

LEGEND



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	80.0	65.0	145.0
ESTIMATED DEMAND	76.0	52.2	128.2

WATER (GPM)	TOTAL
HOT	11
COLD	48
TOTAL	55

TOTAL (GPD)	TOTAL (GPD)
6,000	4,000

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/8TU/HR = 1,100.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB 0° F
TONS OF REFRIGERATION 1

AREA FOR PROGRAMMING GROSS AREA

AIRCRAFT ENGINE I & R SHOP WITH PROP SHOP FOR KC-97 AIRCRAFT **16,000 SQ. FT.**

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
①	80'-0" x 160'-0"	12,800
②	20'-0" x 46'-0"	920
③	20'-0" x 30'-0"	600
④	20'-0" x 16'-0"	320
⑤	20'-0" x 17'-0"	340
⑥	20'-0" x 16'-0"	320
⑦	20'-0" x 35'-0"	700
TOTAL		16,000

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

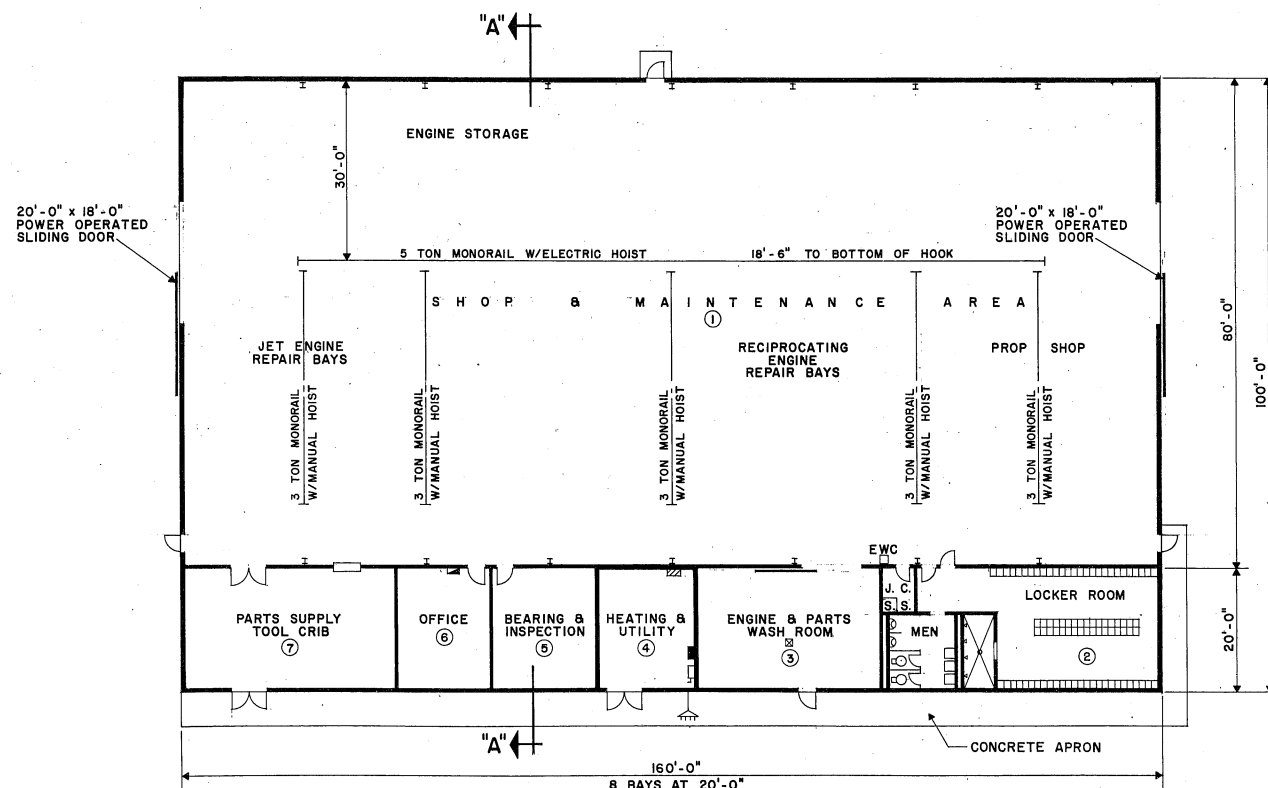
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PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 211-157



FLOOR PLAN TYPE C
SCALE 3/32" = 1'-0"

3/32" = 1'-0" 10' 20'
GRAPHIC SCALE

SYMBOL REVISION - DESCRIPTION DATE APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES

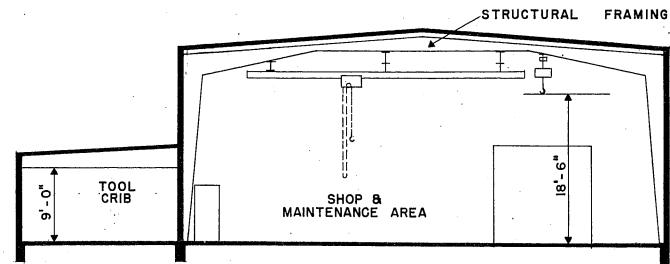
AIRCRAFT ENGINE INSPECTION & REPAIR SHOP-TYPE C

PLAN & SECTION

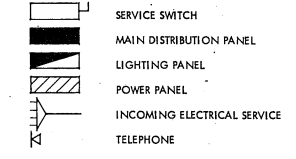
APPROVED *Henry J. Rithel* AD 35-79-05

FOR CHIEF OF STAFF USAF SCALE: AS NOTED SHEET 3 OF 5

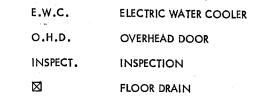
DATE: 6 Nov 1974



ELECTRICAL LEGEND



LEGEND



STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

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PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

BASIC BUILDING	ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	40.0	33.0	73.0	
ESTIMATED DEMAND	38.0	22.6	60.6	
20' x 100' ADDITION				
CONNECTED LOAD	10.0	8.0	18.0	
ESTIMATED DEMAND	9.5	6.4	15.9	
WATER (GPM)				
HOT	5			
COLD	42			
TOTAL	44			
TOTAL (GPD)	4,500			
SEWAGE (GPD)	3,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/ BTU/HR A - 655.0 840.0
B - 185.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F W.B. & 78° F. DB
TONS OF REFRIGERATION

AREA FOR PROGRAMMING GROSS AREA

A ENGINE I & R SHOP (BASIS) FOR F-4, RF-4, F-102, F-105, F-106 & C-141	8,000 SQ. FT.
B 20' X 100' ADDITION FOR F-100, F-101, RF-101, & F-104	2,000 SQ. FT.
GROSS TOTAL AREA	10,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

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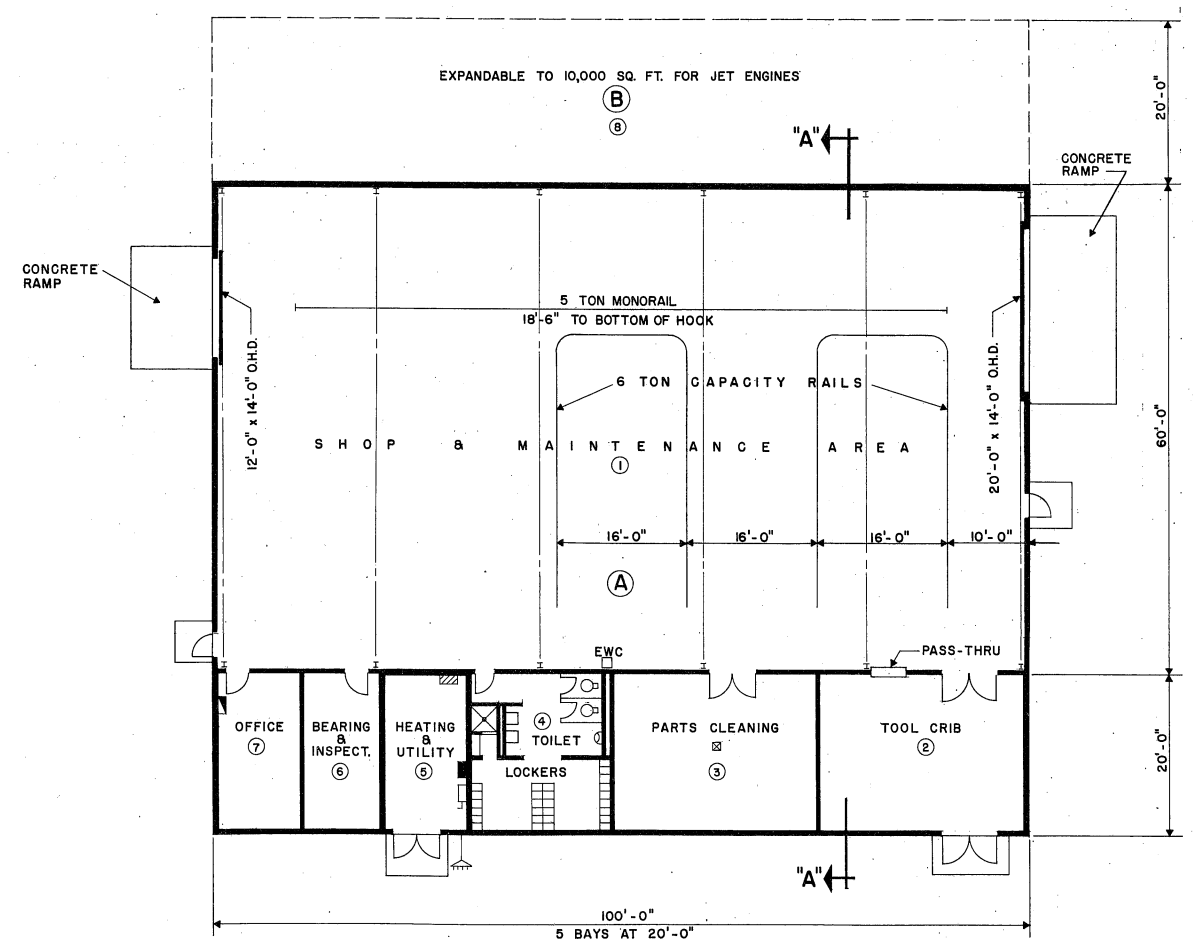
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

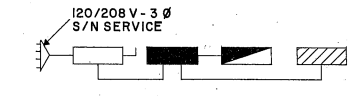
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 211-157

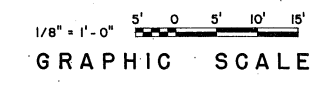


ROOM SCHEDULE

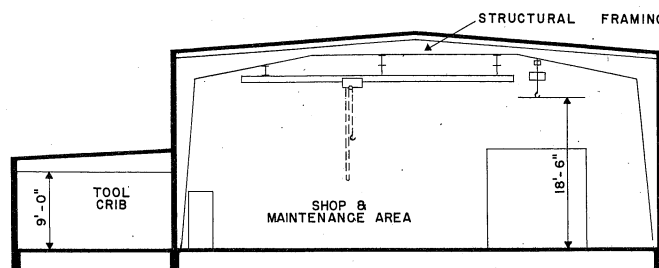
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
①	60'-0" x 100'-0"	6,000
②	20'-0" x 26'-0"	520
③	20'-0" x 25'-0"	500
④	20'-0" x 17'-0"	340
⑤	20'-0" x 10'-8"	214
⑥	20'-0" x 10'-0"	200
⑦	20'-0" x 11'-4"	226
TOTAL		8,000
⑧	20'-0" x 100'-0"	2,000



ELECTRICAL RISER DIAGRAM
NO SCALE

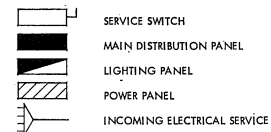


SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
AIRCRAFT ENGINE INSPECTION & REPAIR SHOP-TYPE D			
PLAN & SECTION			
APPROVED	AD 35-79-05		
<i>Henry J. Peake</i>	SCALE AS NOTED	SHEET 4 OF 5	
FOR CHIEF OF STAFF USAF	DATE: 6 Nov 1974		

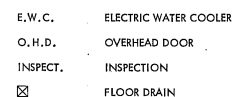


SECTION "A" - "A"
SCALE 1/8" = 1'-0"

ELECTRICAL LEGEND



LEGEND



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
BASIC BUILDING			
CONNECTED LOAD	40.0	33.0	73.0
ESTIMATED DEMAND	38.0	22.6	60.6
20' x 100' ADDITION			
CONNECTED LOAD	10.0	8.0	18.0
ESTIMATED DEMAND	9.5	6.4	15.9
40' x 60' ADDITION WHEN PROP SHOP IS AUTHORIZED			
CONNECTED LOAD	12.0	9.6	21.6
ESTIMATED DEMAND	11.4	7.6	19.0
WATER (GPM)			
HOT	5		
COLD	42		
TOTAL	44		
TOTAL (GPD)	4,500		
SEWAGE (GPD) 3,000			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	°F
A	655.0
B	185.0
C	210.0

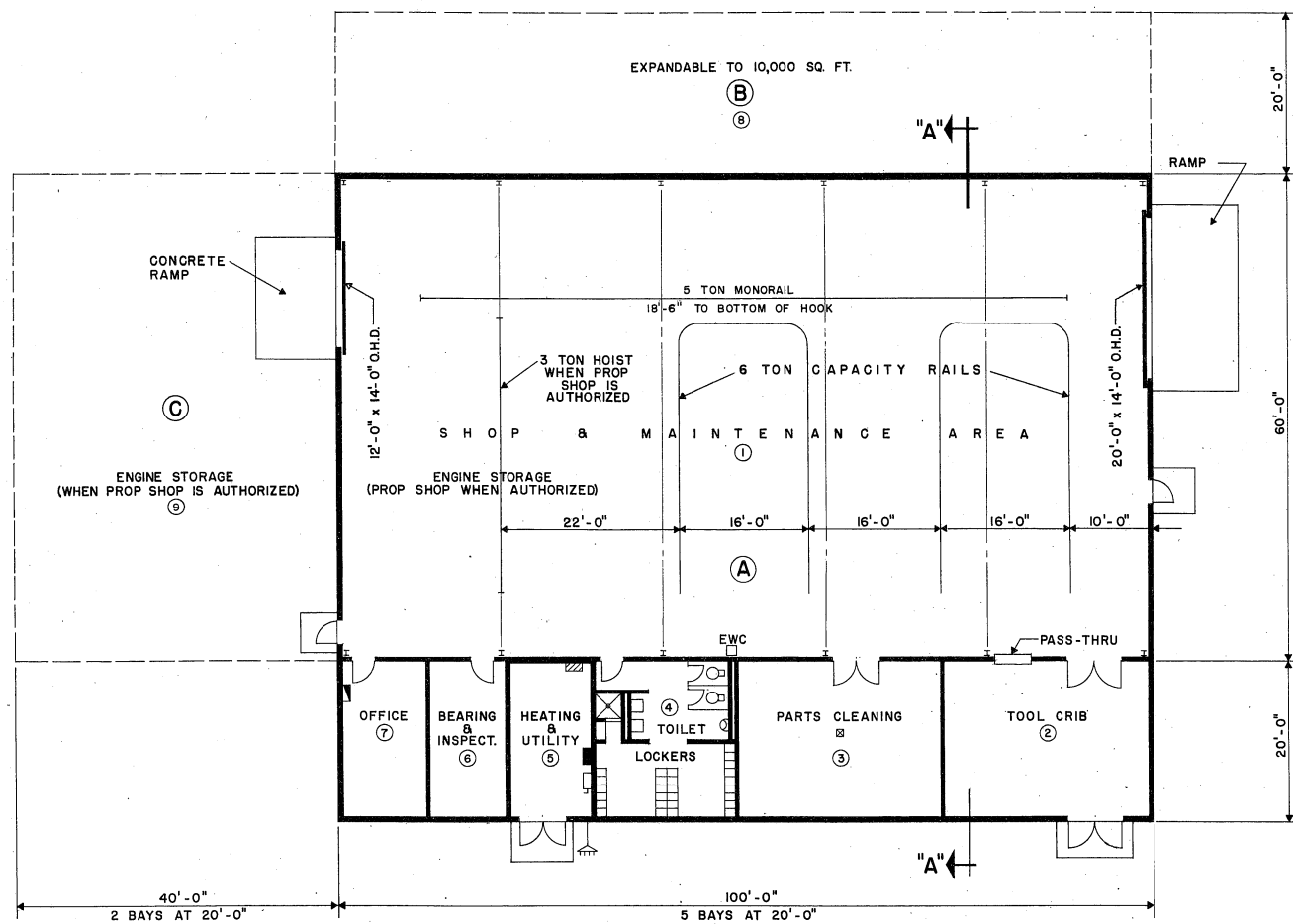
M/BTU/HR 1,050.0

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	95° F. WB & 78° F. DB
TONS OF REFRIGERATION	1

AREA FOR PROGRAMMING GROSS AREA

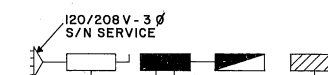
(A) ENGINE I & R SHOP (BASIC) FOR C-123, C-124, C-7 & A-37	8,000 SQ. FT.
(B) 20' x 100' ADDITION FOR C-97, C-119, U-10, HU-16, C-124 & C-130	2,000 SQ. FT.
(C) 40' x 60' ADDITION WHEN PROP SHOP IS AUTHORIZED	2,400 SQ. FT.
GROSS TOTAL AREA	12,400 SQ. FT.



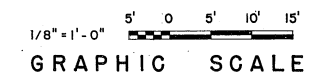
FLOOR PLAN TYPE E
SCALE 1/8" = 1'-0"

ROOM SCHEDULE

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	60'-0" x 100'-0"	6,000
2	20'-0" x 26'-0"	520
3	20'-0" x 25'-0"	500
4	20'-0" x 17'-0"	340
5	20'-0" x 10'-8"	214
6	20'-0" x 10'-0"	200
7	20'-0" x 11'-4"	226
TOTAL		8,000
8	20'-0" x 100'-0"	2,000
9	40'-0" x 60'-0"	2,400



ELECTRICAL RISER DIAGRAM
NO SCALE

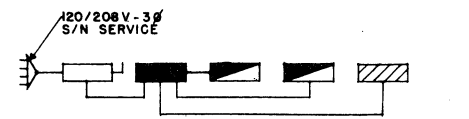


CATEGORY CODE NO. 211-157

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
AIRCRAFT ENGINE INSPECTION & REPAIR SHOP - TYPE E
PLAN & SECTION

APPROVED: *George J. Puthoff*
FOR CHIEF OF STAFF USAF
AD 35-79-05
SCALE: AS NOTED
DATE: 6 Nov. 1974
SHEET 5 OF 5



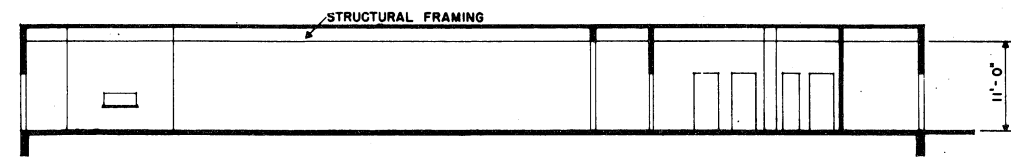
ELECTRICAL RISER DIAGRAM
NO SCALE

ELECTRICAL LEGEND

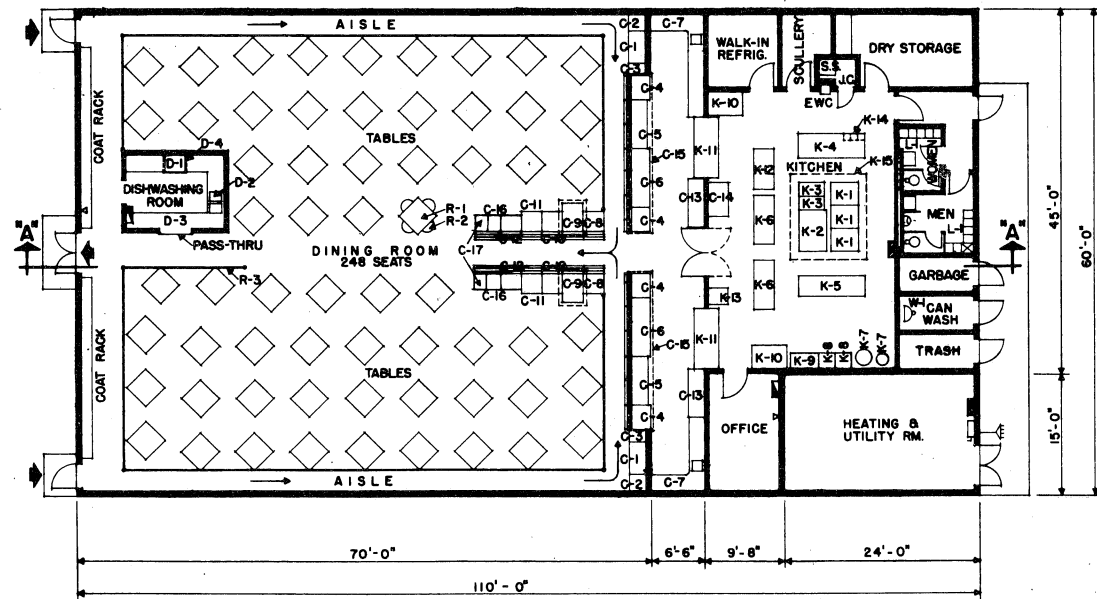
- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- RM. ROOM



SECTION "A-A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SUPPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW) *	LIGHTING	POWER	TOTAL
CONNECTED LOAD	16.84	100.70		117.54
ESTIMATED DEMAND		15.19	86.40	101.79
WATER (GPM)				
HOT		19		
COLD		55		
TOTAL		99		
TOTAL (GPD)	5,400			
SEWAGE (GPD)	4,200			
GAS (THERMS/DAY)	433,580 BTU/HR			

* (EXCLUDING HEATING)

NOTE: SOME ITEMS OF EQUIPMENT OPERATE ON EITHER ELECTRICITY, GAS OR STEAM. EACH TOTAL ABOVE IS BASED ON USE OF ALL POSSIBLE EQUIPMENT BEING OPERATED BY THAT PARTICULAR UTILITY.

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 0° F
M/BTU/HR 296.3

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB & 78° WB
TONS OF REFRIGERATION 25

AREA FOR PROGRAMMING GROSS AREA

BUILDING 6,600 SQ. FT.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	QUANTITY	CATEGORY
R-1	TABLES	62	A
R-2	CHAIRS	248	A
R-3	TRAFFIC RAIL		C
D-1	DISHWASHING MACHINE	1	B
D-2	CUTLERY SINKS	2	B
D-3	CLEAN AND SOILED DISH TABLE	AS REQ'D.	B
D-4	EXHAUST HOOD	1	C
C-1	TRAY RACK	1	B
C-2	TRAY RACK	1	B
C-3	SILVERWARE	2	B
C-4	SERVING COUNTER	4	C
C-5	GRIDDLE, COUNTER TYPE	2	B
C-6	STEAM TABLE	2	B
C-7	BACK BAR	2	C
C-8	CLIP LOWERATOR	2	A
C-9	COFFEE URN	2	A
C-10	GLASS LOWERATOR	2	A
C-11	WATER COOLER	2	B
C-12	MILK DISPENSER	2	A
C-13	CLEAN DISH CABINET	2	B
C-14	ICE MAKING MACHINE	1	B
C-15	CANOPY, EXHAUST	2	C
C-16	BEVERAGE DISPENSER	2	A
C-17	ICE TEA DISPENSER	2	A
K-1	RANGE	3	B
K-2	OVEN, BAKING & ROASTING	1	B
K-3	FRYER, DEEP FAT	2	B
K-4	TABLE, FOOT PREP.	1	B
K-5	SINK, 2' COMP.	1	B
K-6	TABLE, FOOD PREP.	2	B
K-7	STEAM KETTLES	2	B
K-8	COOKERS, VEG.	2	B
K-9	MIXING MACHINE	1	B
K-10	FROZEN FOOD CABINET	2	B
K-11	REFRIGERATOR	2	B
K-12	TRUCK, HAND	1	A
K-13	VEGETABLE PEELER	1	B
K-14	POP-UP TOASTERS	6	A
K-15	RANGE HOOD	1	B
L-1	LOCKERS	13	A
W-1	CAN WASH UNIT	1	B

CATEGORY
A - GOVERNMENT FURNISHED AND INSTALLED
B - GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
C - CONTRACTOR FURNISHED AND INSTALLED

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

CATEGORY CODE NO. 723-351

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

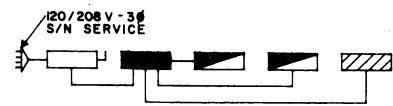
AIR RESERVE FORGES

DINING HALL
500-800 MAN CAPACITY
FLOOR PLAN & SECTION

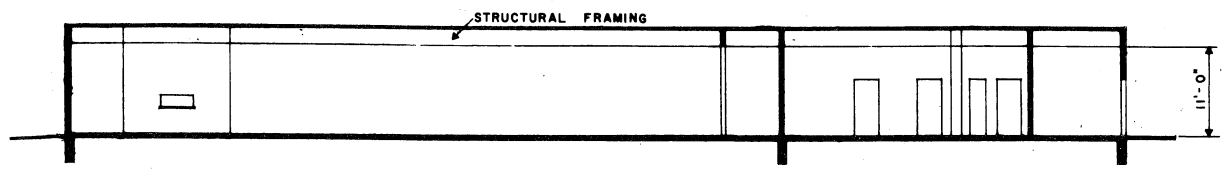
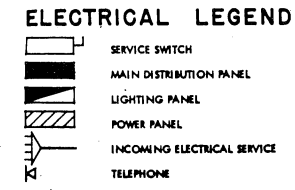
APPROVED: *David H. ...*
FOR CHIEF OF STAFF USAF
AD 36-05-123
SCALE AS SHOWN
DATE: 10 MARCH 1972 SHEET 1 OF 1

1/8" = 1'-0"
5' 0' 5' 10' 15'
GRAPHIC SCALE

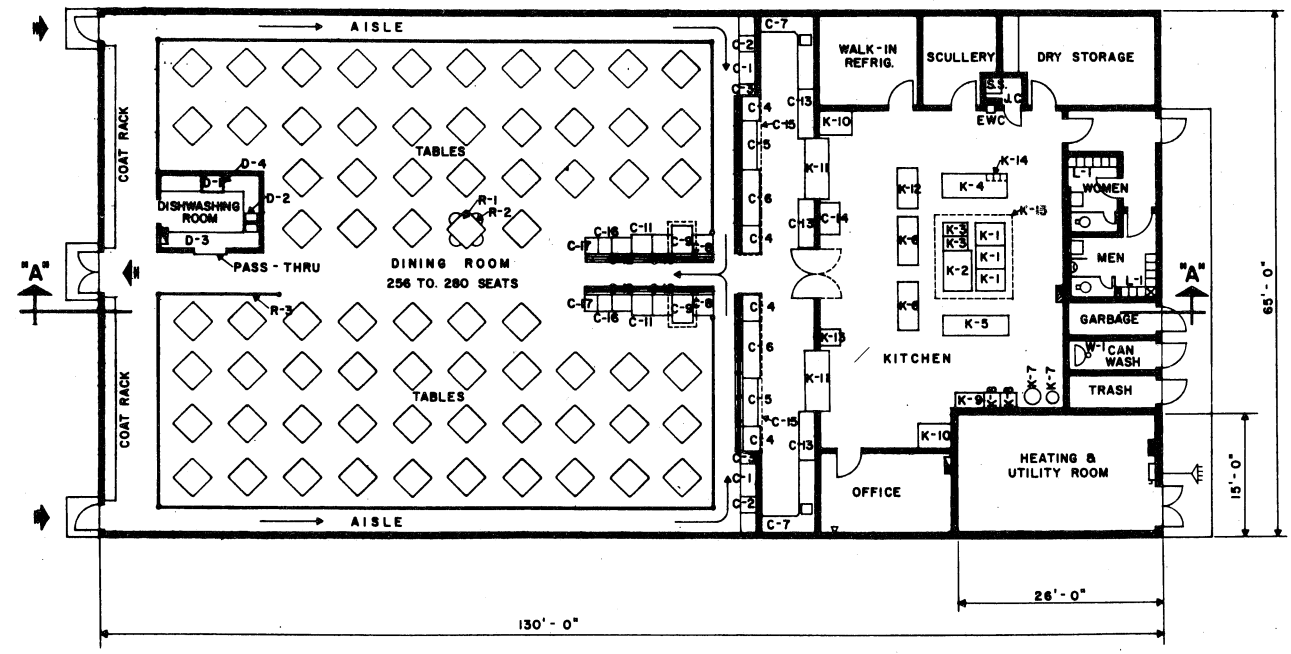
C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.
CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.
PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.
PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW) *	LIGHTING POWER	TOTAL
CONNECTED LOAD	25.4	274.4
ESTIMATED DEMAND	28.9	277.1
WATER (GPM)		
HOT	22	
COLD	55	
TOTAL	63	
TOTAL (GPD)	8,550	
SEWAGE (GPD)	4,725	
GAS (THERMS/DAY) * 6,329		

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F
M/STU/HR 226,675 BTU/HR

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F 86 & 72° WS
TONS OF REFRIGERATION 29.8 TONS

AREA FOR PROGRAMMING
BUILDING GROSS AREA 8,450 SQ. FT.

*EXCLUDING HEATING)
NOTE: SOME ITEMS OF EQUIPMENT OPERATE ON EITHER ELECTRICITY, GAS OR STEAM. EACH TOTAL ABOVE IS BASED ON USE OF ALL POSSIBLE EQUIPMENT BEING OPERATED BY THAT PARTICULAR UTILITY.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	QUANTITY	CATEGORY
R-1	TABLES	70	A
R-2	CHAIRS	280	A
R-3	TRAFFIC RAIL		C
D-1	DISHWASHING MACHINE	1	B
D-2	CUTLERY SINKS	2	B
D-3	CLEAN AND SOILED DISH TABLE	AS REQ'D.	B
D-4	EXHAUST HOOD	1	C
C-1	TRAY BACK	1	B
C-2	TRAY RACK	1	B
C-3	SILVERWARE	2	B
C-4	SERVING COUNTER	4	C
C-5	GRIDDLE, COUNTER TYPE	2	B
C-6	STEAM TABLE	2	B
C-7	BACK BAR	2	C
C-8	CLIP LOWERATOR	2	A
C-9	COFFEE URN	2	A
C-10	GLASS LOWERATOR	2	A
C-11	WATER COOLER	2	B
C-12	MILK DISPENSER	2	A
C-13	CLEAN DISH CABINET	2	B
C-14	ICE MAKING MACHINE	1	B
C-15	CANOPY, EXHAUST	2	C
C-16	BEVERAGE DISPENSER	2	A
C-17	ICE TEA DISPENSER	2	A
K-1	RANGE	3	B
K-2	OVEN, BAKING & ROASTING	1	B
K-3	FRYER, DEEP FAT	2	B
K-4	TABLE, FOOD PREP.	1	B
K-5	SINK, 2 COMP.	1	B
K-6	TABLE, FOOD PREP.	1	B
K-7	STEAM KETTLES	2	B
K-8	COOKERS, VEG.	2	B
K-9	MIXING MACHINE	1	B
K-10	FROZEN FOOD CABINET	2	B
K-11	REFRIGERATOR	2	B
K-12	TRUCK, HAND	1	A
K-13	VEGETABLE PEELER	1	B
K-14	POP-UP TOASTERS	6	A
K-15	RANGE HOOD	1	B
L-1	LOCKERS	13	A
W-1	CAN WASH UNIT	1	B

CATEGORY
A - GOVERNMENT FURNISHED AND INSTALLED
B - GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
C - CONTRACTOR FURNISHED AND INSTALLED

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.
CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

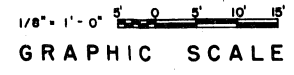
STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

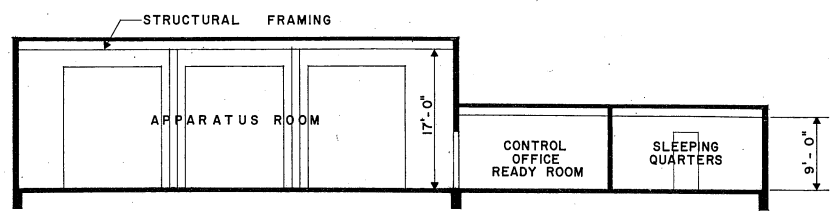
CATEGORY CODE NO. 723-351

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
DINING HALL
800-1000 MAN CAPACITY
FLOOR PLAN & SECTION

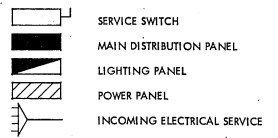
APPROVED: *David H. ...*
FOR CHIEF OF STAFF USAF
AD 36-05-124
SCALE: 1/8" = 1'-0"
DATE: 10 MARCH 1972 SHEET 1 OF 1



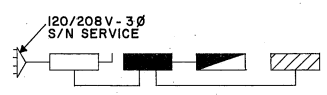
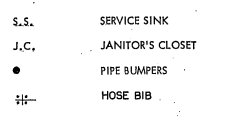


SECTION "A" - "A"
SCALE 1/8" = 1'-0"

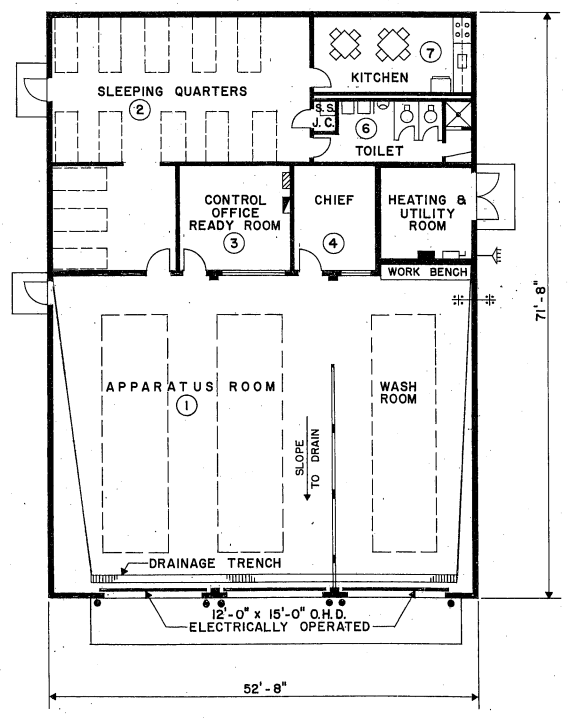
ELECTRICAL LEGEND



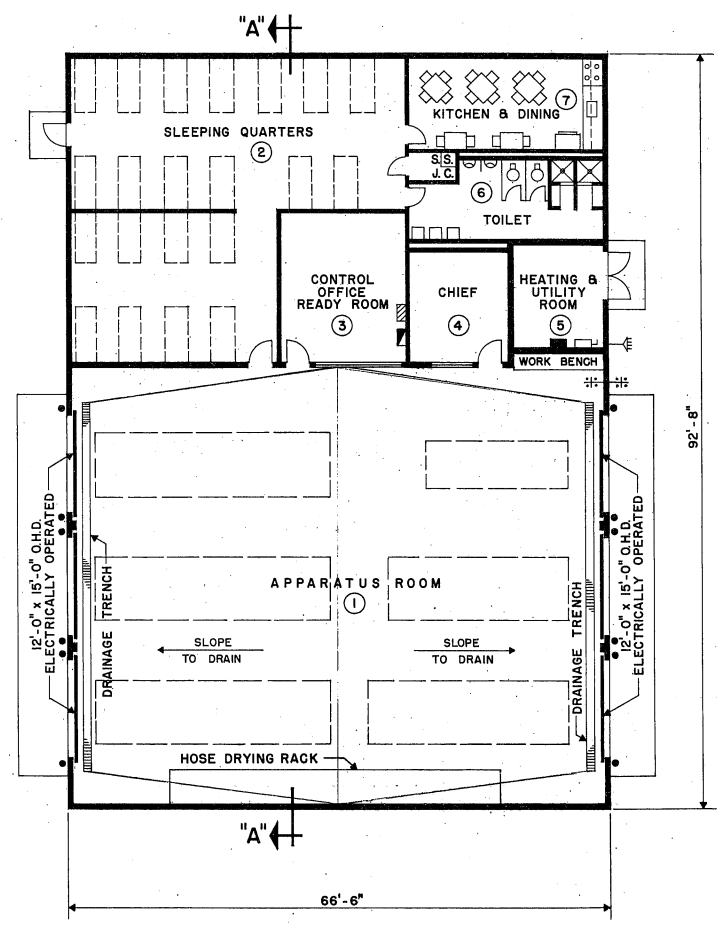
LEGEND



ELECTRICAL RISER DIAGRAM
NO SCALE



FLOOR PLAN SCHEME "A"
SCALE 1/8" = 1'-0"



FLOOR PLAN SCHEME "B"
SCALE 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	SCHEME A LIGHTING POWER		SCHEME B LIGHTING POWER	
	CONNECTED LOAD	ESTIMATED DEMAND	CONNECTED LOAD	ESTIMATED DEMAND
	7.6	5.7	11.6	9.2
WATER				
	SCHEME A (GPM)		SCHEME B (GPM)	
HOT	7		10	
COLD	44		48	
TOTAL	46		50	
SEWAGE				
	3,000 (GPD)		4,500 (GPD)	
	2,000		3,000	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE		
M/STU/HR		° F.
SCHEME A	270	
SCHEME B	391	
TOTAL	661	

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE		
95° F. FDB & 79° F. WB		
TONS OF REFRIGERATION		
SCHEME A	4	
SCHEME B	5	

AREA FOR PROGRAMMING GROSS AREA

SCHEME "A"	3,777 SQ. FT.
SCHEME "B"	6,163 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

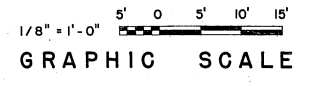
PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

CATEGORY CODE NO. 141-142

ROOM	SCHEDULE	SCHEME "A"
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	52'-8" x 39'-8"	2,088
2	32'-0" x 26'-0"	832
3	14'-0" x 13'-6"	190
4	10'-8" x 13'-6"	144
5	12'-0" x 12'-0"	144
6	8'-4" x 20'-0"	166
7	10'-6" x 20'-0"	210
TOTAL		3,774

ROOM	SCHEDULE	SCHEME "B"
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	66'-6" x 54'-6"	3,624
2	37'-6" x 35'-0"	1,316
3	16'-0" x 19'-0"	304
4	14'-8" x 12'-6"	183
5	12'-0" x 15'-0"	180
6	10'-8" x 24'-6"	261
7	12'-0" x 24'-6"	295
TOTAL		6,163



SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS • FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
FIRE STATIONS			
SCHEMES A & B			
PLANS & SECTION			
APPROVED	AD 36 - 30 - 10		SCALE AS SHOWN
<i>George Z. Potholp</i>	DATE: 6 Nov. 1974	SHEET 1 OF 1	

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

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PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	18	223	241
ESTIMATED DEMAND	16	150	166
WATER (GPM)			
HOT	12		
COLD	48		
TOTAL	50		
TOTAL (GPD)	7,500		
SEWAGE (GPD)	5,000		

HEATING REQUIREMENTS

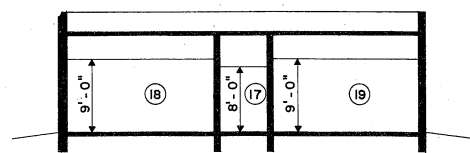
OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR = 276.5

AIR CONDITIONING REQUIREMENTS

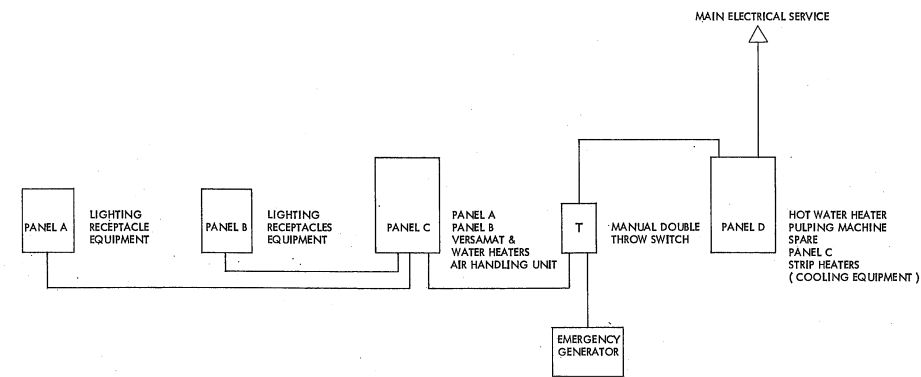
OUTSIDE DESIGN TEMPERATURE 95° F. DB & 78° F. WB
TONS OF REFRIGERATION 24

AREA FOR PROGRAMMING GROSS AREA

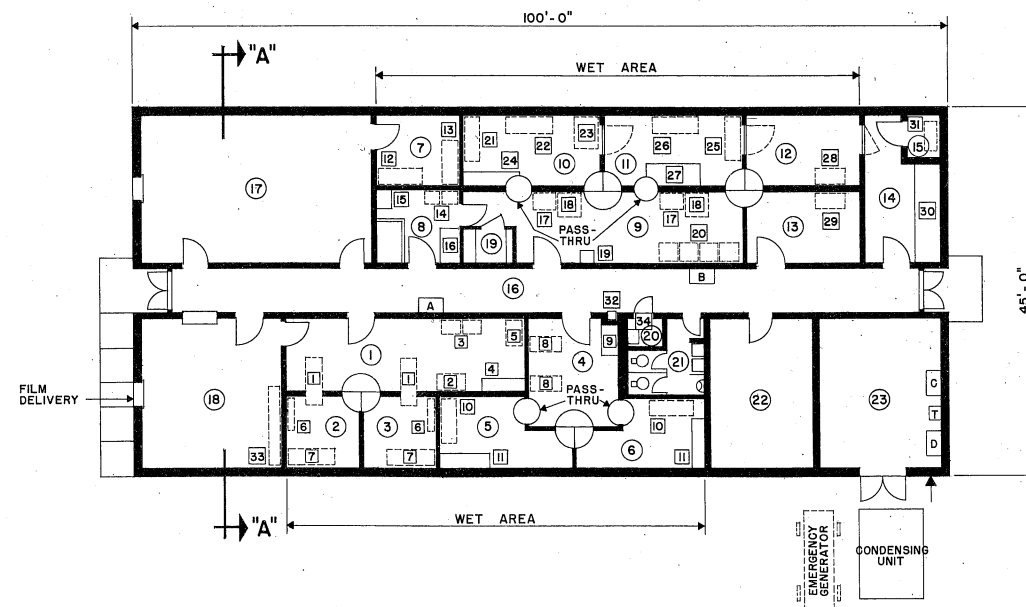
4,500 SQ. FT.



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

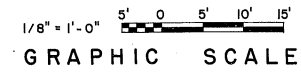


ELECTRICAL RISER DIAGRAM
NO SCALE



FLOOR PLAN
SCALE: 1/8" = 1'-0"

ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	9'-6" x 30'-0"	285.0
2	9'-6" x 10'-0"	95.0
3	9'-6" x 10'-0"	95.0
4	12'-0" x 14'-0"	168.0
5	10'-0" x 13'-0"	130.0
6	10'-0" x 13'-0"	130.0
7	10'-0" x 11'-0"	110.0
8	10'-0" x 11'-0"	110.0
9	10'-0" x 31'-0"	310.0
10	10'-0" x 17'-6"	175.0
11	10'-0" x 17'-6"	175.0
12	10'-0" x 14'-6"	145.0
13	10'-0" x 14'-6"	145.0
14	10'-6" x 15'-0"	157.5
15	6'-0" x 6'-6"	39.0
16	6'-0" x 100'-0"	600.0
17	19'-6" x 29'-0"	565.5
18	18'-0" x 19'-6"	351.0
19	5'-6" x 6'-6"	36.0
20	4'-6" x 5'-0"	23.0
21	8'-0" x 10'-0"	80.0
22	13'-6" x 19'-6"	263.0
23	14'-0" x 19'-0"	312.0
TOTAL GROSS AREA		4,500.0



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. MATERIAL STORAGE AND SHOP BUILDINGS WILL HAVE AUTOMATIC SPRINKLER, CLOSED HEAD SYSTEMS.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

CATEGORY CODE NO. 141-745

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

PEARSON TITTLE NARROWS & ASSOCIATES
ARCHITECT ENGINEER MONTGOMERY ALA.

AIR RESERVE FORCES
RECONNAISSANCE PHOTO LABORATORY
TACTICAL RECON SQUADRON

PLAN & SECTION

APPROVED: *George Z. Pritchett*
FOR CHIEF OF STAFF USAF

AD 36-32-16
SCALE: AS NOTED
DATE: 6 NOV. 1974

SHEET 1 OF 3

DESIGN DATA ANALYSIS

ROOM	BASIC OCCUPANCY FACTOR	CRITERIA		MINIMUM NET DIMENSIONS	CLEAR HEIGHT REQUIRED	DIMENSIONS ON THIS PLAN		LIVE LOADS	ELECTRICAL			MECHANICAL			REMARKS & ADDITIONAL REQUIREMENTS
		DESIGN FACTOR	SOURCE			INTERIOR ●	SQ. FT.		CONVENIENCE OUTLETS	LIGHTING F. C.	SUPPLEMENTAL PLUMBING	VENTILATION	HEATING, AIR CONDITION, EVAP. COOLING		
PRODUCTION CONTROL & EDITING	DESKS, CHAIRS, SHELVING, & FILES	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	17'-0" x 18'-2"	309		6	70	NONE				3' TB
QUALITY CONTROL	WET AREA	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	28'-8" x 9'-8"	272		7	70	1 FS				3' TB
DARKROOM 1 & 2	WET AREA, LIGHT PROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	9'-0" x 8'-0"	72		2		1 FS EACH ROOM	EXHAUST			
MANUAL PROCESS	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	10'-4" x 13'-6"	139		3		NONE	EXHAUST			
FILM PROCESS DARKROOM 1 & 2	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	NO. 1 L SHAPED NO. 2 L SHAPED	106 100		3		1 FS EACH ROOM	EXHAUST			
SORTING & FINISHING	WET AREA	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	8'-4" x 8'-8" LESS 6'-4" x 4'-4"	272		6	40	1 FD, 2FS, 1 HAND WASH SINK	EXHAUST			3' TB
MANUAL CONTACT PRINTING 1	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	17'-0" x 8'-10"	150		5		1 FD	EXHAUST			
MANUAL CONTACT PRINTING 2	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	17'-0" x 8'-10"	150		4		1 FD	EXHAUST			
AUTO PRINTING	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	14'-0" x 8'-10"	124		3		NONE				
FILM DUPLICATING	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	14'-0" x 8'-8"	121		3		NONE				
CHEMICAL MIX	WET AREA, CHEMICALS STORAGE	OPERATIONAL REQUIREMENT	DESIGN STD.		8'-0"	10'-0" x 9'-0"	90		3		1 FD	EXHAUST			8" CURB AROUND MIXING AREA
SUPPLIES	STORAGE	OPERATIONAL REQUIREMENT	DESIGN STD.		8'-0"	6'-0" x 4'-0"	24		0		NONE				
EXPLOITATION & PHOTO INTERPRETATION	DESKS, CHAIRS, SHELVING & FILES	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	28'-0" x 18'-2"	509		8	70	NONE				6' CB
P. I. PRINT ROOM	WET AREA, LIGHTPROOF	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	10'-0" x 8'-10"	88		3		NONE				
MAINTENANCE	EQUIPMENT REPAIR & CLEANING	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	18'-2" x 9'-0" LESS 4'-8" x 5'-8"	137		4	70	NONE				
COMM.	PULPING MACHINE ENCLOSURE	OPERATIONAL REQUIREMENT	DESIGN STD.		8'-0"	4'-8" x 5'-8"	20		0	5	NONE				
CLASSROOM	20 PEOPLE	OPERATIONAL REQUIREMENT	DESIGN STD.		9'-0"	13'-0" x 18'-2"	236		4	70	NONE				10' CB
LATRINE	50 PEOPLE (ALL MALE)	150/WC - 150/LAV - 300/UR	USAF STD.	1 WC, 1 LAV, 1 URINAL	8'-0"	9'-4" x 8'-0" 4'-8" x 3'-8"	72		2*	10	1 FD	EXHAUST			
JANITOR	SERVICE SINK, CLEANING EQUIPMENT SUPPLIES, & STORAGE	OPERATIONAL REQUIREMENT	DESIGN STD.	9 SQ. FT.	8'-0"	4'-8" x 3'-8"	15		0	5	NONE				
CORRIDOR	CIRCULATION	CIRCULATION	DESIGN STD.		8'-0"	5'-4" x 89'-8"	478		2	10	COLD WATER & DRAIN FOR ELECTRIC WATER COOLER				
MECHANICAL	AIR HANDLING EQUIPMENT, HOT WATER HEATER & MISCELLANEOUS ELECTRICAL	OPERATIONAL REQUIREMENT	DESIGN STD.		10'-0"	14'-8" x 18'-2"	266		2	10	1 FD				

LEGEND

- CB - CHALKBOARD
- FC - FOOT CANDLES
- FD - FLOOR DRAIN
- FS - FLOOR SINK
- TB - TACKBOARD
- - SINGLE RECEPTACLE
- - HORIZONTAL DIMENSION IS GIVEN FIRST
- ⊙ - SEE EQUIPMENT SCHEDULE FOR PLUMBING TO EQUIPMENT

CATEGORY CODE NO. 141-745

DEPARTMENT OF THE AIR FORCE	
<small>HEADQUARTERS UNITED STATES AIR FORCE</small>	
PEARSON TITTLE NARROWS & ASSOCIATES	
<small>ARCHITECT - ENGINEER MONTGOMERY, ALA.</small>	
AIR RESERVE FORCES	
RECONNAISSANCE PHOTO LABORATORY	
TACTICAL RECON SQUADRON	
DESIGN DATA	
APPROVED	AD 36-32-16
<i>Wayne P. Little</i>	SCALE NONE
FOR CHIEF OF STAFF USAF	DATE 6 Nov. 1974
	SHEET 2 OF 3

EQUIPMENT SCHEDULE

GENERAL										ELECTRICAL						MECHANICAL				
ROOM	NO. ON PLAN	QUANTITY	DESCRIPTION	OPERATIONAL CRITERIA	STATUS	SPEC. NO.	A.F. STOCK NO.	APPROXIMATE DIMENSIONS OR REQUIRED CLEARANCE	REMARKS	VOLTAGE	NO. OF PHASES	NO. OF CONDORS	LOAD	FREQUENCY	REMARKS	UTILITIES OTHER THAN ELECTRICITY	USAF INSTALLED EQUIPMENT ONLY TERMINAL FITTINGS SUPPLIED WITH EQUIPMENT	UTILITIES TERMINATION	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1 QUALITY CONTROL																				
	1	2	VERSAMAT		GF / GI			8'-1" x 5'-4" x 4'-11" h 7'-4" x 3'-0" OPENING	LIGHTPROOF PANEL REQUIRED	200	3		12 KW 95 AMPS	60						
	2	1	RACK WASHER		GF / GI			3'-5" x 1'-10" x 3'-11" h		200	3		15 AMPS	60		CW, HW				
	3	2	DENSITOMETER		GF / GI			1'-2" x 1'-0" x 11"	TABLE MOUNTED	115	1		40 WATT	60						
	4	1	STAINLESS STEEL SINK	SINGLE COMPARTMENT	CO / CO			5'-6" x 2'-0" x 8" d								CW, HW, AW				
	5	1	FREEZER		GF / GI			2'-4" x 3'-0" x 6'-8" h		115	1			60						
2 DARKROOM NO. 1 & 2																				
	6	2	CROW, HOT WATER HEATER		GF / GI			4'-5" x 1'-2" x 4'-0" h		200	3		30 KW	60		CW				
	7	2	SPLICER FM-16		GF / GI			2'-3" x 1'-5" x 1'-11" h		115	1			60						
4 MANUAL PROCESS																				
	8	2	DRYER EL 10A		GF / GI			3'-8" x 2'-0" x 3'-5" h		200	3		5.4 KW 30 AMPS	60						
	9	1	COUNTER-CABINET	PLASTIC LAMINATE TOP, EDGE, & SPLASH WALL CABINETS ABOVE	CO / CO			4'-0" x 2'-0" x 3'-0" h												
5 FILM PROCESS DARKROOM NO. 1 & 2																				
	10	2	SPLICER FM-16		GF / GI			2'-3" x 1'-5" x 1'-11" h		115	1			60						
	11	2	STAINLESS STEEL SINK	SINGLE COMPARTMENT	CO / CO			6'-0" x 2'-0" x 8" d								CW, HW, AW				
7 P. I. PRINT ROOM																				
	12	1	PRINTER EM-22		GF / GI			3'-3" x 2'-2" x 1'-11" h		115	1			60						
	13	1	EKTAMATIC MCL-214		GF / GI			2'-1" x 1'-8" x 9" h TABLE MOUNTED		115	1			60						
8 CHEMICAL MIX																				
	14	2	MIXERS		GF / GI			2'-2" x 2'-2" x 1'-1" h TABLE MOUNTED		115	1			60						
	15	1	STAINLESS STEEL SINK	SINGLE COMPARTMENT	CO / CO			2'-0" x 2'-0" x 2'-0" d								CW, HW, AW				
	16	1	COUNTER-CABINET	PLASTIC LAMINATE TOP, EDGE, & SPLASH WALL CABINETS ABOVE	CO / CO			4'-0" x 2'-0" x 3'-0" h												
9 SORTING AND FINISHING																				
	17	2	WASHER, PRINTER		GF / GI			2'-11" x 1'-11" x 2'-10" h		115	1		17 AMPS	60		CW				
	18	2	DRYER, PRINTER		GF / GI			4'-10" x 3'-1" x 6'-0" h		200	3		23.3 AMPS	60						
	19	1	SINK (HAND WASH)		CO / CO				WITH SOAP AND TOWEL DISPENSER							CW, HW, SW				
	20	4	MARKING KITS, KIT A-1		GF / GI			2'-7" x 1'-10" x 2'-10" h		115	1			60						
10 MANUAL CONTACT PRINTING NO. 1																				
	21	1	PRINTER EM-22		GF / GI			3'-3" x 2'-2" x 1'-11" h		115	1			60						
	22	1	EKTAMATIC MCL-214		GF / GI			2'-1" x 1'-8" x 9" h		115	1			60						
	23	1	PRINTER MARK 11R5A		GF / GI			3'-8" x 3'-6" x 5'-2" h		115	1		4 AMPS	60						
	24	1	STAINLESS STEEL SINK	SINGLE COMPARTMENT	CO / CO			7'-0" x 2'-0" x 8" d								CW, HW, AW				
11 MANUAL CONTACT PRINTING NO. 2																				
	25	1	PRINTER EM-22		GF / GI			3'-3" x 2'-2" x 1'-11" h		115	1			60						
	26	1	EKTAMATIC MCL-214		GF / GI			2'-1" x 1'-8" x 9" h		115	1			60						
	27	1	STAINLESS STEEL SINK	SINGLE COMPARTMENT	CO / CO			7'-0" x 2'-0" x 8" d		115	1			60		CW, HW, AW				
12 AUTO PRINTING																				
	28	1	PRINTER SP1070C		GF / GI			3'-4" x 2'-1" x 5'-8" h		115	1		12AMPS	60						
13 FILM DUPLICATING																				
	29	1	PRINTER SP1070C		GF / GI			3'-4" x 2'-1" x 5'-8" h		115	1		12AMPS	60						
14 MAINTENANCE																				
	30	1	WORK BENCH	PLASTIC LAMINATE TOP & EDGE	CO / CO			12'-8" x 2'-6" x 3'-6" h												
15 COMM.																				
	31	1	PULPING MACHINE		GF / GI			3'-2" x 1'-6" x 4'-5" h		230/460	3		1 1/2 HP	60						
16 CORRIDOR																				
	32	1	ELECTRIC WATER COOLER	WALL MOUNTED	CO / CO			1'-8" x 8" RECESS		115	1			60		CW, SW				
17 EXPLOITATION AND PHOTO INTERPRETATION																				
18 PRODUCTION CONTROL AND EDITING																				
	33	1	SHELF		CO / CO			9'-8" x 1'-6"												
19 SUPPLIES																				
20 JANITOR																				
	34	1	SERVICE SINK		CO / CO			2'-0" x 2'-0"								HW, CW				
21 LATRINE																				
22 CLASSROOM																				
23 MECHANICAL																				

DESCRIPTION OF EQUIPMENT SCHEDULE

A. THE SCHEDULE LISTS EQUIPMENT CHARACTERISTICS AFFECTING THE DESIGN OF THE FACILITY AND INCLUDES ALL ITEMS WHICH

- AFFECT DIMENSIONS OF OPENINGS AND/OR AREAS
- REQUIRE SPECIAL STRUCTURAL SUPPORT OR FOUNDATIONS
- REQUIRE SUPPORTING UTILITIES

B. THE SCHEDULE TRANSMITS TO THE DESIGN AGENCY CRITICAL EQUIPMENT CHARACTERISTICS AND SPECIFICATIONS

C. THE EQUIPMENT CHARACTERISTICS LISTED IN THE SCHEDULE WILL PROVIDE THE DESIGN AGENCY WITH INFORMATION ESSENTIAL TO THE DEVELOPMENT OF AN OPTIMUM OPERATIONAL FACILITY. HOWEVER, THESE CHARACTERISTICS, WHICH ARE FOR ITEMS OF STANDARD MANUFACTURE SUITABLE FOR THIS FACILITY, SHOULD BE USED FOR GENERAL GUIDANCE ONLY, SINCE CHARACTERISTICS OF EQUIPMENT TO BE SPECIFIED BY THE DESIGN AGENCY MAY DIFFER.

EXPLANATION OF COLUMN ENTRIES

COLUMN 6
CO / CO - DENOTES ITEM TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR
GF / GI - DENOTES ITEM TO BE FURNISHED AND INSTALLED BY THE USING AGENCY

COLUMN 16
REQUIRED UTILITIES OTHER THAN ELECTRICITY, THE FOLLOWING SYMBOLS ARE USED

CW - COLD WATER
HW - HOT WATER
AW - ACID WASTE, CONNECTED DRAIN
SW - SOIL WASTE, CONNECTED DRAIN

SPECIAL NOTES

EQUIPMENT LISTED HEREIN GIVES GENERAL GUIDANCE TOWARD THE DEVELOPMENT OF AN OPTIMUM OPERATIONAL FACILITY. SUBSTITUTION OF EQUIVALENT ITEMS OF EQUIPMENT MAY BE NECESSARY TO OVERCOME PROCUREMENT DIFFICULTIES AND CONSTRUCTION DELAYS.

CATEGORY CODE NO. 141-745

SYMBOL	REVISION	DESCRIPTION	DATE	APPROVED
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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

PEARSON · TITTLE · NARROWS & ASSOCIATES
ARCHITECT - ENGINEER
MONTGOMERY, ALA.

AIR RESERVE FORCES
RECONNAISSANCE PHOTO LABORATORY
TACTICAL RECON SQUADRON
EQUIPMENT SCHEDULE

APPROVED: _____
FOR CHIEF OF STAFF USAF

AD 36-32-16
SCALE NONE
DATE 6 Nov. 1974
SHEET 3 OF 3

C2

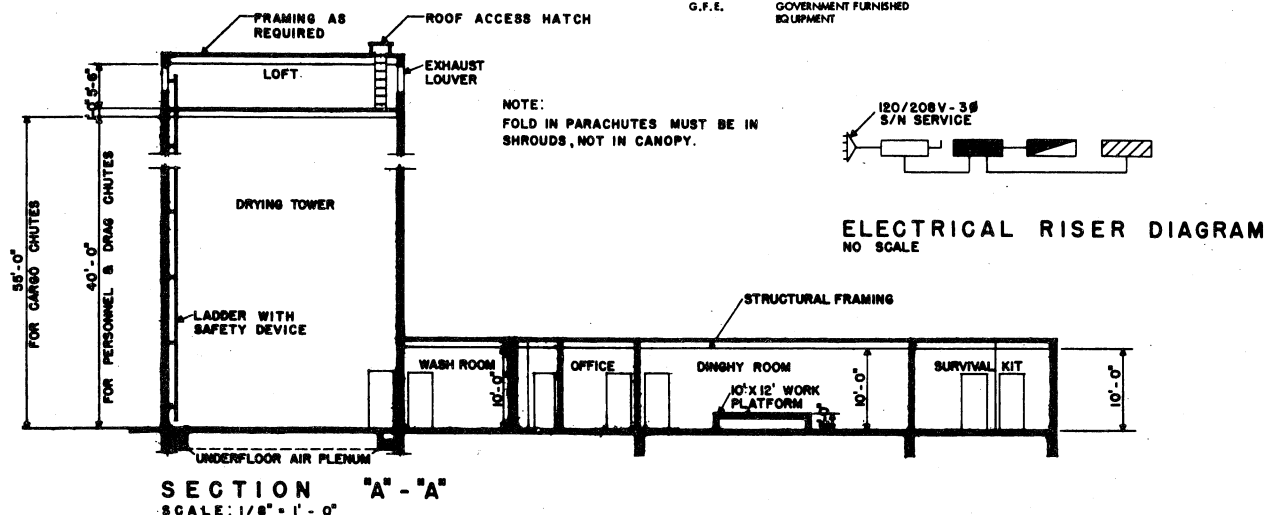
ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	9'-4" x 22'-0"	2,079
2	19'-4" x 22'-0"	341
3	29'-0" x 18'-0"	522
4	14'-4" x 18'-0"	259
5	5'-8" x 18'-0"	102
6	19'-0" x 18'-0"	180
7	34'-0" x 18'-0"	612
8	9'-4" x 4'-4"	42
9	17'-0" x 14'-4"	244
TOTAL		4,400

LEGEND

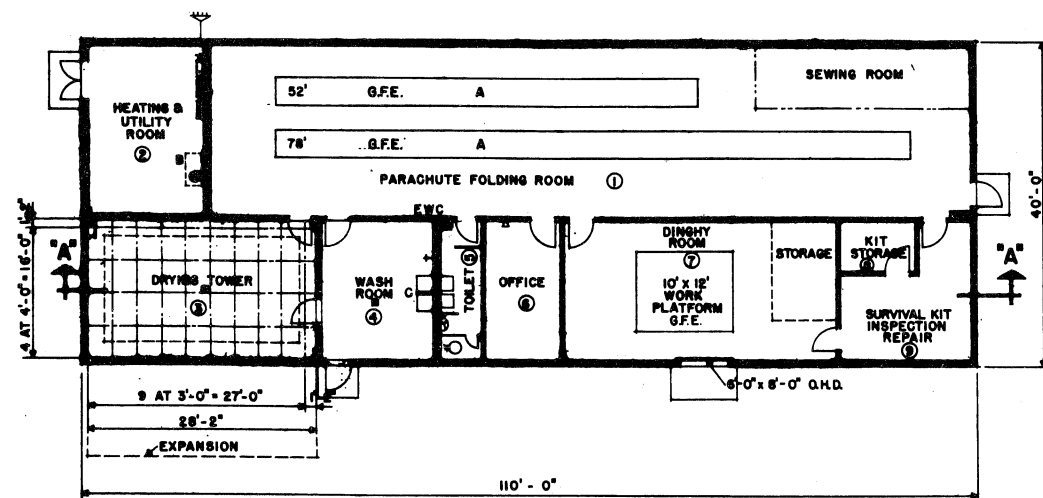
- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- RM. ROOM
- A. CHUTE FOLDING TABLE
- B. AIR COMPRESSOR
- C. WASH TUBS
- FLOOR DRAIN
- HOSE REEL
- G.F.E. GOVERNMENT FURNISHED EQUIPMENT

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- TELEPHONE
- 220V - 3φ - 4W



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".
GUIDE TO PULLEY LIFT FRAMING SYSTEM, MAINTENANCE OF PULLEYS AND SAFETY PROTECTION.

- A STEEL FRAMING SYSTEM SHALL BE EMPLOYED AS MAIN FRAMING. IT SHOULD SPAN THE 27'-0" DIMENSION TO ALLOW FOR FUTURE EXPANSION. A SECONDARY STEEL FRAMING SYSTEM, WHICH IS TO BE LOCATED ABOVE EACH PULLEY POSITION, SHALL CONSIST OF REMOVABLE STEEL MEMBERS THAT CAN BE READILY UNBOLTED AND PULLED INTO THE LOFT TOGETHER WITH THE LOFT PULLEYS. IN BETWEEN THESE SECONDARY MEMBERS A FLOOR (PREFERABLY BAR GRATING) SHALL SPAN CONTINUOUSLY BETWEEN MAIN FRAMING MEMBERS. IN THIS WAY ONLY SMALL OPENINGS WILL OCCUR WHEN THE SECONDARY STEEL PULLEY SUPPORT IS REMOVED FOR INSPECTION OF PULLEYS.
- PROVIDE A STEEL LADDER BOLTED TO THE WALL IN THE CORNER OF THE DRYING TOWER WITH A SAFETY DEVICE. ALL MEMBERS TO BE SNAG PROOF.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

ELECTRIC HOISTS: PROVIDE ELECTRIC POWER OPERATED HOISTS

TYPE A TOWER 2 HOISTS

TYPE B TOWER 4 HOISTS

TYPE C TOWER 8 HOISTS

EACH HOIST WILL BE 500 POUND CAPACITY, SINGLE DRUM, WORM GEARED, COMPLETE WITH ELECTRIC BRAKE, GEARED LIMIT SWITCH AND LEVER OPERATED CONTROL. APPROXIMATE DESCRIPTION:

DRUM CAPACITY - 100 FEET 1/2 INCH WIRE ROPE. LIFTING SPEED - 27 RPM

MOTOR AND CONTROLS - 1 HORSEPOWER, 208 VOLTS, THREE PHASE, WEATHERPROOF.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

(TOWER VENTILATION)

THE FUNCTION OF THIS SYSTEM IN ALL WEATHER ZONES IS TO DRY PERSONNEL AND AIRCRAFT CHUTES IN A PERIOD NOT TO EXCEED EIGHT (8) HOURS. SINCE TEMPERATURES AND RELATIVE HUMIDITY WILL VARY BETWEEN AND WITHIN WEATHER ZONES, IT IS INTENDED THAT THE SYSTEM BE INDIVIDUALLY ENGINEERED FOR EACH LOCATION. FOR GENERAL GUIDANCE THE FOLLOWING ITEMS ARE NOTED.

- ALLOWABLE TEMPERATURE RANGE FOR AIR ENTERING TOWER: 50° D.B. MINIMUM AND 120° D.B. MAXIMUM.
- ALLOWABLE MAXIMUM RELATIVE HUMIDITY FOR AIR ENTERING THE TOWER SHALL BE ABOUT 70%.
- MECHANICAL DEHUMIDIFICATION SHOULD BE PROVIDED IF MAXIMUM ALLOWABLE HEATING TO 120° D.B. DOES NOT MAINTAIN 70% RH FOR 75% OF THE TIME DURING THE SIX WARMEST MONTHS OF THE YEAR.
- IN COLDER CLIMATES SUPPLY AIR SHOULD BE HEATED WHEN THE OUTSIDE TEMPERATURE IS 50° D.B. OR LOWER. THE HEAT SHOULD BE SUFFICIENT TO ACHIEVE A MINIMUM TOWER AIR TEMPERATURE OF 50° D.B. AND A MAXIMUM OF 70% RELATIVE HUMIDITY.
- PROVISION FOR RECIRCULATION OF TOWER AIR SHOULD BE MADE IN AREAS WHERE THE OUTSIDE DESIGN TEMPERATURE IS ZERO° F. OR BELOW. WHERE USED, ALLOW FOR THE RETURN OF UP TO 90% OF THE SUPPLY AIR FOR RECIRCULATION. REHEAT AS REQUIRED TO MAINTAIN TEMPERATURE AND HUMIDITY LIMITS. PROVIDE RETURN AIR DUCTS FROM TOWER AS REQUIRED.
- INSULATED DUCTS AS REQUIRED.
- MAXIMUM ALLOWABLE VELOCITY OF AIR RISING FAST CHUTES TO BE 2 FT/SECOND.
- INFORMATION ON NUMBERS AND TYPES OF CHUTES TO BE DRIED AND THE WATER CAPACITY OF EACH WHEN WET MAY BE OBTAINED FROM THE LOCAL USAF ACTIVITY, FROM APPLICABLE TECH ORDERS, AND FROM PROGRAMMING DATA HEREIN.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES

- DRYING TOWER TO HAVE A FLUSH INTERIOR FINISH, SMOOTH AND FREE FROM ANY MATERIALS THAT SNAG CHUTES.
- DRYING TOWER TO BE INSULATED WHEN AIR RECIRCULATION IS JUSTIFIED.
- FLOOR FINISH IN PARACHUTE FOLDING AND SEWING ROOMS TO BE SMOOTH AND FREE FROM ALL MATERIALS THAT SNAG PARACHUTES OR GENERATE DUST.
- PROVIDE PULLEYS, CABLES, COTTON ROPES, ETC. CO/CO.
- THE REQUIREMENTS GIVEN IN THIS DEFINITIVE ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING POWER	
	CONNECTED LOAD	ESTIMATED DEMAND
	22.80	26.80
	14.30	22.73
WATER (GPM)		
HOT	13	
COLD	30	
TOTAL	30	
TOTAL (GPD)	1,700	
SEWAGE (GPD)	700	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/STU/HR 743

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F DB - 78° WB
TONS OF REFRIGERATION 14

AREA FOR PROGRAMMING GROSS AREA

BUILDING 4,400 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

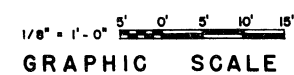
WHEN UTILIZING PRE-ENGINEERED STRUCTURES, THE DRYING TOWER MAY BE LOCATED OUTSIDE THE BUILDING RECTANGLE.

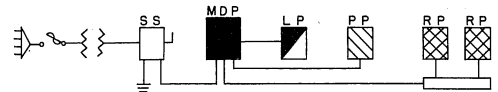
CATEGORY CODE NO. 218 - 852

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS * FALLS CHURCH, VIRGINIA
AIR RESERVE FORCES
PARACHUTE AND DINGHY SHOP
FLOOR PLAN & SECTION

APPROVED: *David H. Spector*
FOR CHIEF OF STAFF USAF
SCALE: AS SHOWN
DATE: 10 MARCH 1972
SHEET 1 OF 1



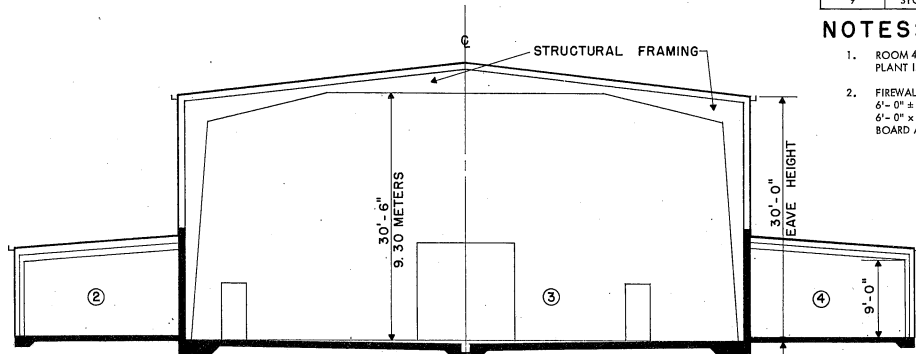


ELECTRICAL RISER DIAGRAM
NO SCALE:

ROOM NO.	DESCRIPTION	DIMENSIONS	AREAS
1	BLADDER MAINTENANCE	19'-6" x 24'-0"	468
2	MAINTENANCE	19'-6" x 74'-0"	1443
3	DOCK - WASHRACK	68'-6" x 98'-0"	6713
4	MECHANICAL EQUIPMENT	19'-6" x 24'-0"	468
5	UTILITIES CONTROL	19'-6" x 23'-0"	449
6	TOILET	19'-6" x 10'-0"	195
7	ADMINISTRATION TO/OJT	19'-6" x 14'-0"	273
8	CORRIDOR	19'-6" x 5'-6"	107
9	STORAGE TOOLS	19'-6" x 19'-6"	380

NOTES:

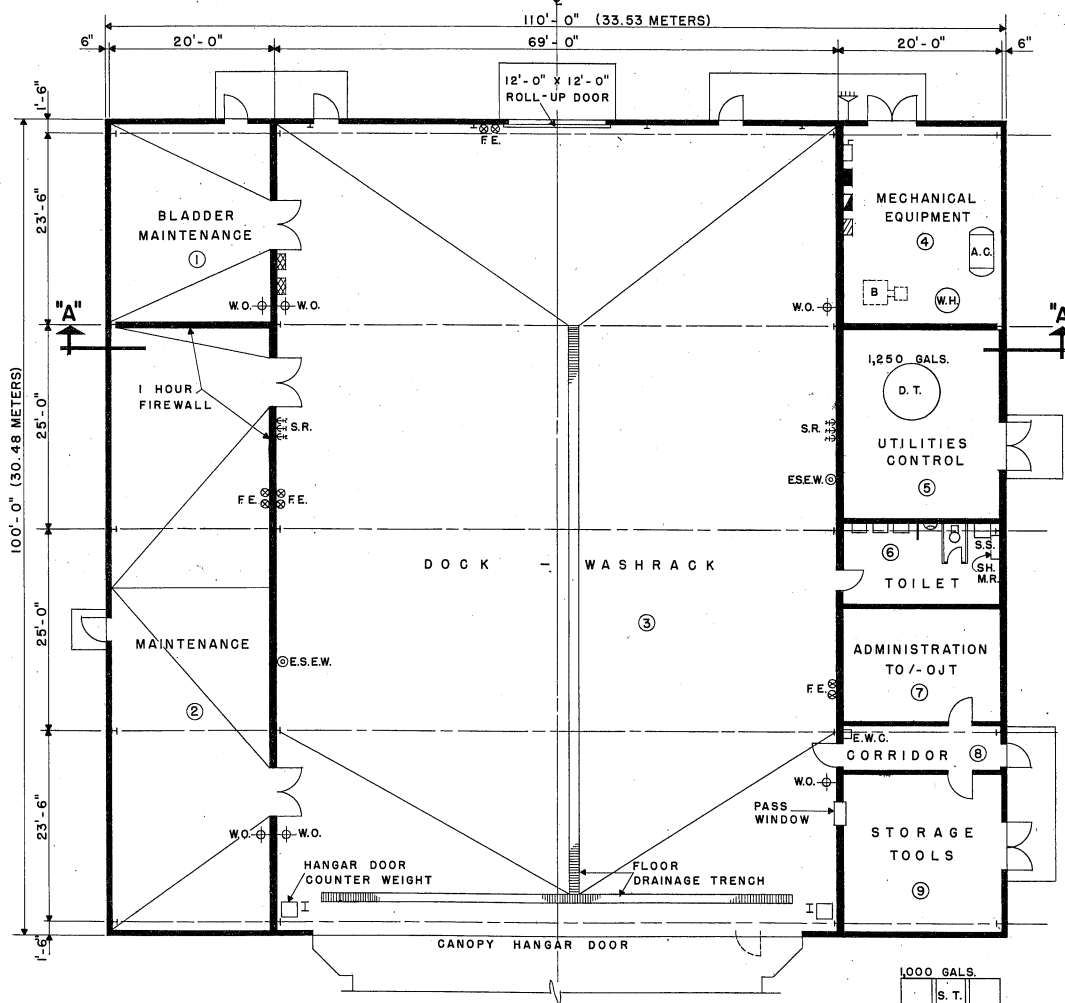
- ROOM 4 TO HAVE 1 HOUR RATED DROPPED CEILING, IF INTEGRAL HEATING PLANT IS USED.
- FIREWALLS WILL BE 1 HOUR RATED. USE MASONRY OR GYPSUM BOARD WITH 6'-0" ± HIGH CORRUGATED METAL WAINSCOT. EXTERIOR WALLS OF ROOMS 6'-0" x 7'-0" HAVE METAL WAINSCOT 6'-0" ± HIGH WITH NO GYPSUM BOARD ABOVE.



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- RECEPTACLE PANEL
- INCOMING ELECTRICAL SERVICE



FLOOR PLAN
SCALE: 1/8" = 1'-0"

PROVIDE FOR A RUNNING TRAP AND BACK FLOW VALVE BETWEEN TRENCH AND OIL INTERCEPTOR TO PREVENT VAPOR RE-ENTRY INTO TRENCH.

LEGEND

- A.C. AIR COMPRESSOR
- B. BOILER
- C. CENTER LINE OF BUILDING
- D.F.B. 4" DETERGENT FILL BOX
- D.T. DETERGENT TANK MIXING AND STORAGE
- E.S.E.W. EMERGENCY SHOWER AND EYE WASH
- E.W.C. ELECTRIC WATER COOLER
- F.E. FIRE EXTINGUISHERS W/75'-0" HOSE
- M.R. MOP RACK
- O.I. OIL INTERCEPTOR
- SH. SHELVES
- S.R. SERVICE RACK
- S.S. SERVICE SINK
- S.T. SETTLING TANK W/ BAFFLES
- U.D.T. UNDERGROUND DETERGENT TANK
- W.H. WATER HEATER
- W.O. 1-1/4" WATER OUTLET FOR FLUSHING FLOOR
- W.O.S.T. WASTE OIL STORAGE TANK

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

CRITERIA

- THIS CRITERIA WILL BE USED FOR ALL FIGHTER TYPE DOCKS BOTH NEW AND ALTERATION.
- THESE CRITERIA FOR ENVIRONMENTAL CONTROLS TO BE INSTALLED IN NEW OR ALTERED SMALL AIRCRAFT DOCKS MODIFIED FOR FUEL SYSTEM MAINTENANCE ON FIGHTER TYPE AIRCRAFT ARE CONTINGENT UPON FUEL SYSTEM OPERATION PROCEDURES AS FOLLOWS:
 - ONLY ONE AIRCRAFT WILL BE HOUSED AT A TIME IN A DOCK WHEN FUEL SYSTEM MAINTENANCE IS PERFORMED.
 - AIRCRAFT FUEL BLADDERS TO BE REPAIRED WILL BE DRAINED OF ALL USEABLE FUEL, PRIOR TO ENTRY OF THE AIRCRAFT INTO THE DOCK. RESIDUAL FUEL IN SUMPS WILL BE DRAINED INTO BARRELS OR OTHER SUITABLE CONTAINERS.
 - ALL FUEL SPILLED ON EITHER THE DOCK OR THE MAINTENANCE SHOP FLOOR WILL BE REMOVED BY FLUSHING WITH WATER. FUEL SYSTEM MAINTENANCE OPERATIONS WILL BE SUSPENDED IN THE INTERIM AND WILL NOT BE RESUMED UNTIL THE VAPOR DETECTORS INDICATE SAFE WORKING CONDITIONS.
 - PROVIDE EFFECTIVE FIRE CUT-OFF WALL IN MULTIPLE DOCKS ONLY. WALL SHALL BE LOCATED ON THE ADMINISTRATIVE SUPPORT SIDE OF THE 24" COLUMNS AS SHOWN ON THE ATTACHED SKETCH. FIRE RATING OF WALL MATERIAL SHALL BE NOT LESS THAN THOSE SHOWN ON PARAGRAPH 20 OF AFR 88-880-1, 15 JULY 1964.
 - NO OPENING EXCEPT FOR UTILITIES SHALL BE MADE THROUGH THE FIRE WALL OTHER THAN THE ONE TYPE B OPENING SHOWN IN THE CORRIDOR.
 - MECHANICAL
 - PROVIDE TWO-SPEED EXHAUST FAN (250 CFM AND 500 CFM) LOCATED ON END WALL IN CENTER LINE OF THE DOCK SPACE FOR DIRECT EXHAUSTING OF FUMES FROM FUEL CELLS OR BLADDERS. DISCHARGE TO BE DUCTED TO OUTSIDE OF BUILDING. PROVIDE RIGID DUCT WITH SOLDERED JOINTS FROM MID POINT OF HANGER OVER AIRCRAFT TO EXHAUST FAN. A FLEXIBLE DUCT WILL EXTEND FROM RIGID DUCT TO VICINITY OF DOCK FLOOR. PROVIDE FOR RAISING AND LOWERING OF FLEXIBLE DUCT INTO FUEL CELLS AND OUT OF DOCK WORKING ZONE. DUCT AND MOTORS WILL BE EFFECTIVELY GROUNDED.
 - SINCE VAPORS FROM THE FUEL CELLS WILL BE EXHAUST VENTILATED TO THE OUTSIDE OF THE DOCK, NO OTHER ENVIRONMENTAL VENTILATION IS REQUIRED.
 - FUEL BLADDER MAINTENANCE ROOM WILL BE AIR CONDITIONED. DESIGN CONTROLS WILL BE 80° PLUS OR MINUS 2° F AND 50 PER CENT PLUS 5 PER CENT RELATIVE HUMIDITY. A WINTER OPERATING INSIDE TEMPERATURE OF 70° IS ADEQUATE WITH NO MINIMUM RELATIVE HUMIDITY REQUIREMENT. PROVIDE OUTSIDE AIR MAKE-UP AT A RATE OF 2 AIR CHANGES PER HOUR.
 - MAINTENANCE SHOP WILL HAVE OUTSIDE AIR VENTILATION OF 2 AIR CHANGES PER HOUR IN WINTER AND 20 AIR CHANGES IN SUMMER. THE SUMMER VENTILATING CYCLE COULD BE USED FOR A QUICK PURGE OF THE SHOP, IF NEEDED. HEATING WILL NOT BE PROVIDED FOR THE 20 AIR CHANGES.
 - IN ACCORDANCE WITH CRITERIA, AUTOMATIC SPRINKLERS WILL NOT BE INSTALLED.
 - PROVIDE MANUAL FIRE ALARM SYSTEM WITH TRANSMITTER CONNECTED TO BASE FIRE ALARM SYSTEM FOR TRANSMISSION OF SIGNALS TO CENTRAL STATION.
 - PROVIDE 1-1/4" WATER OUTLETS AS SHOWN TO PERMIT CONNECTION WITH HOSES FOR FLUSHING THE DOCK AND THE MAINTENANCE SHOP FLOORS IN THE EVENT OF AN ACCIDENTAL FUEL SPILL. FLUSHING CONNECTOR SHOULD BE PROVIDED IN THE BOTTOM OF THE DOOR TRENCH TO REMOVE DEBRIS.
 - INITIALLY, 4 PORTABLE VAPOR (GAS) DETECTOR UNITS IN THE DOCK AND 2 UNITS IN THE MAINTENANCE SHOP WILL BE FURNISHED AND INSTALLED BY THE COMMAND. MORE UNITS MAY BE REQUIRED LATER DEPENDING UPON THE FUEL CELL MAINTENANCE OPERATING EXPERIENCE.

1/8" = 1'-0" GRAPHIC SCALE

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD		33.1	410.2	444.3
ESTIMATED DEMAND				
WATER (GPM)				
HOT		5		
COLD		47		
TOTAL		50		
TOTAL (GPD)		5,250		
SEWAGE (GPD)		3,500		

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	0° F
M/BTU/HR	901

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE	95° F DB & 78° F WB
TONS OF REFRIGERATION	13

AREA FOR PROGRAMMING

GROSS AREA 11,000 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

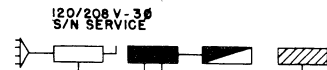
STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

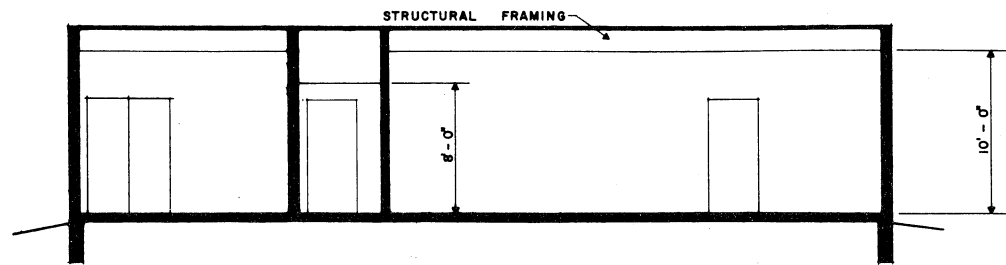
CATEGORY CODE NO. 211-179

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
FUEL SYSTEM MAINTENANCE DOCK			
CORROSION CONTROL FACILITY			
PLAN & SECTION			
APPROVED	SCALE: 1/8" = 1'-0"	DATE: 6 Nov 1972	SHEET 1 OF 1
<i>Henry J. Potts, Jr.</i>		AD 36-36-17	
FOR CHIEF OF STAFF		USAF	

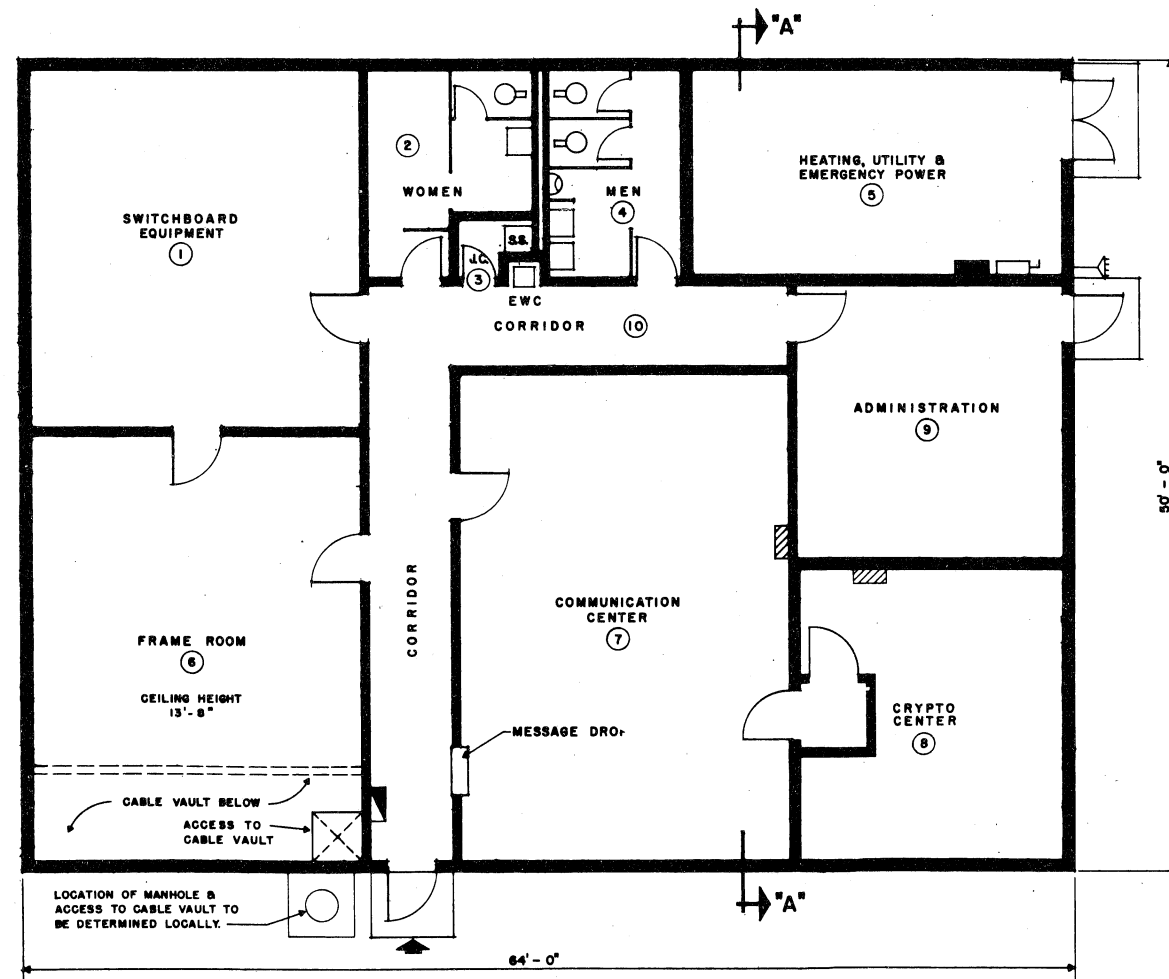
C2



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A"-A"
SCALE: 1/4" = 1' - 0"



FLOOR PLAN
SCALE: 1/4" = 1' - 0"

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1, "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C., SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.I.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

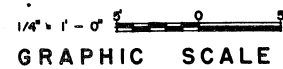
ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- R.M. ROOM

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	21'-0" x 23'-0"	483
2	10'-8" x 12'-0"	127
3	5'-3" x 4'-0"	21
4	8'-10" x 13'-9"	121
5	28'-6" x 13'-9"	323
6	21'-0" x 27'-0"	567
7	20'-6" x 30'-9"	630
8	17'-0" x 18'-9"	318
9	17'-0" x 17'-6"	297
10	5'-6" WIDE	313
TOTAL		3,200



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

	ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	16.0		34.0	50.0
ESTIMATED DEMAND	16.0		34.0	50.0

	WATER (GPM)
HOT	7
COLD	35
TOTAL	35
TOTAL (GPM) 2,880	
SEWAGE (GPM) 1,440	

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 47°
M/ BTU/HR 145

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE 95° DB 78° FWB
TONS OF REFRIGERATION 10.0

AREA FOR PROGRAMMING GROSS AREA

TOTAL: 3,200 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

DETAILS OF CABLE VAULT AND CLEAR HEIGHTS IN SWITCHBOARD AND FRAME ROOMS WILL BE CHECKED WITH USING ACTIVITY.

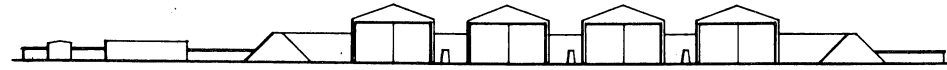
CONSIDERATION SHALL BE GIVEN TO PENETRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

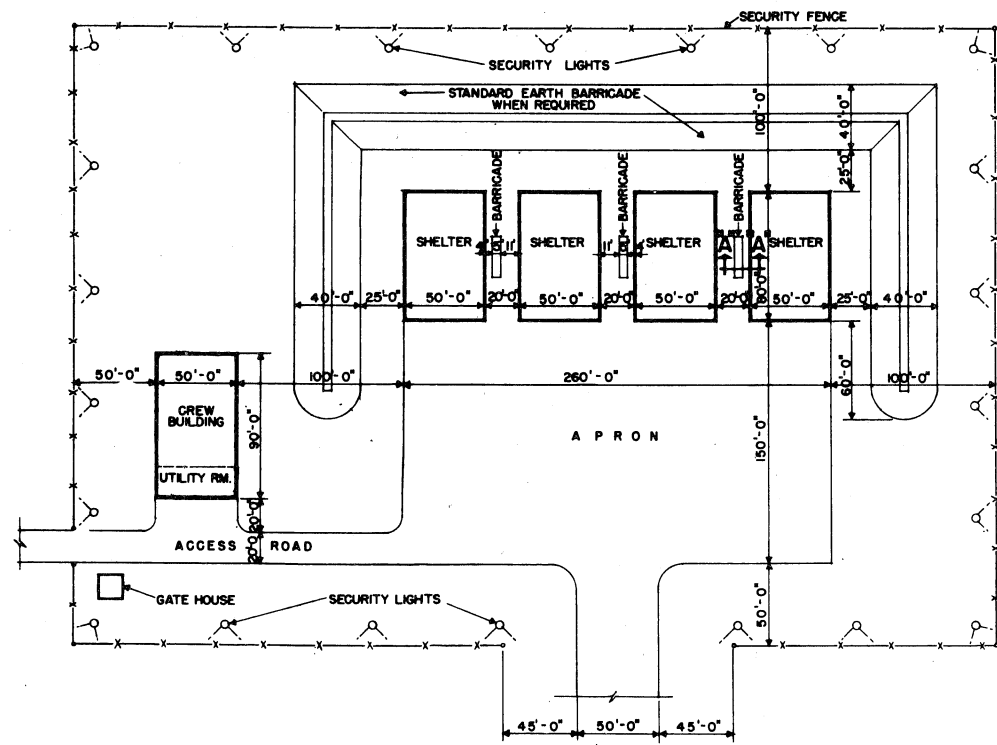
CATEGORY CODE NO. 131-112

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
VICTOR B. SPECTOR AND ASSOCIATES			
ARCHITECTS-ENGINEERS - FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
BASE, COMMUNICATIONS BUILDING			
PLAN & SECTION			

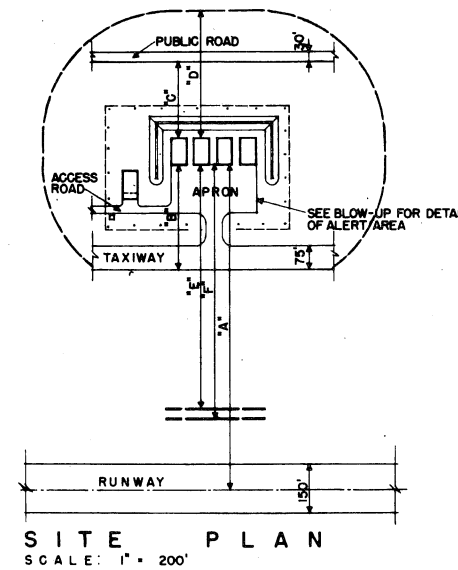
APPROVED: *David H. Spector, CE, PE*
DATE 10 MARCH 1972
SCALE AS SHOWN SHEET 1 OF 1



ELEVATION
SCALE: 1" = 40'



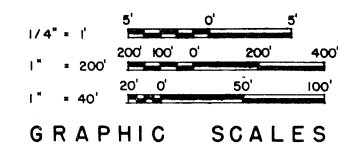
ALERT SHELTER COMPLEX DETAIL
SCALE: 1" = 40'



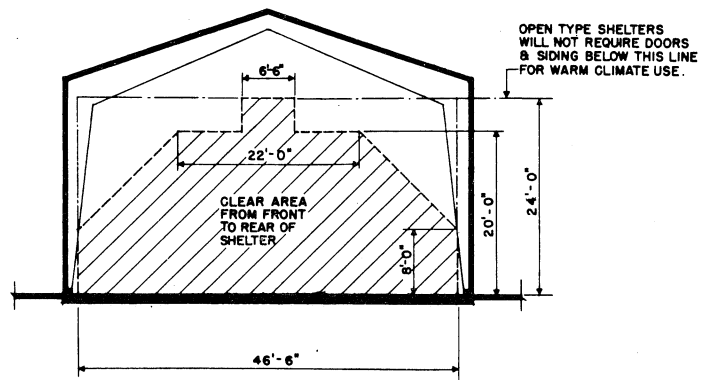
SITE PLAN
SCALE: 1" = 200'

NOTES:

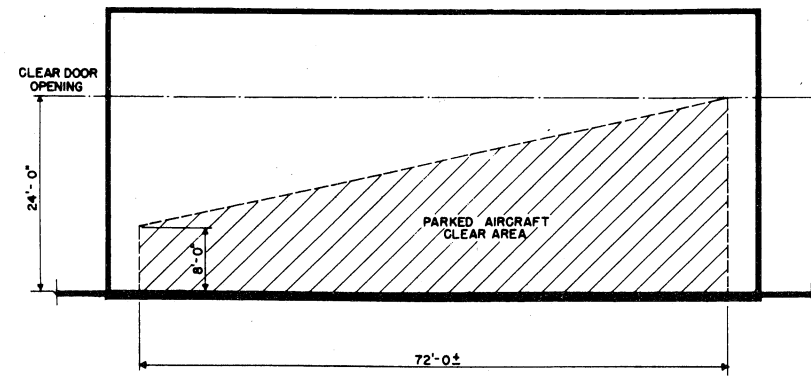
1. LIGHTING POSITIONS SHALL BE ACCOMPLISHED FROM SHELTERS AND/OR POLES AND SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
2. REFER TO DRAWING AD 30-11-17 FOR DETAILS ON READY CREW BUILDING.
3. REFER TO AFM 127-100 FOR QUANTITY - DISTANCE CRITERIA, AND AFM 207-1.



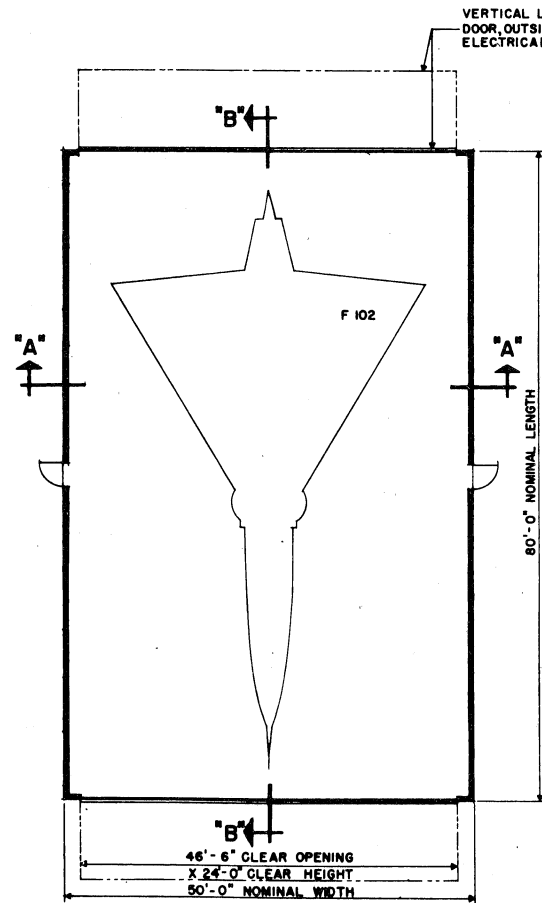
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
<small>HEADQUARTERS UNITED STATES AIR FORCE</small>			
VICTOR B. SPECTOR AND ASSOCIATES <small>ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA</small>			
AIR RESERVE FORCES ALERT SHELTER COMPLEX TYPICAL SITE SITE PLAN & DETAIL			
APPROVED <i>David J. G. CLINE</i> FOR CHIEF OF STAFF USAF		AD 39-01-88 SCALE AS SHOWN SHEET 1 OF 2 DATE: 10 MARCH 1972	



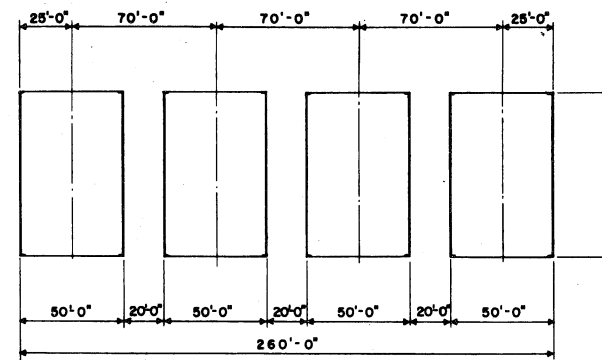
SECTION "A-A"
SCALE: 1/8" = 1'-0"



SECTION "B-B"
SCALE: 1/8" = 1'-0"



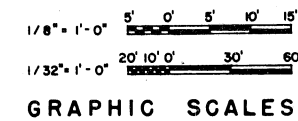
FLOOR PLAN
SCALE: 1/8" = 1'-0"



SUGGESTED PLAN
SCALE: 1/32" = 1'-0"

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREA TO BE IN ACCORDANCE WITH N.E.C.
CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.
PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.
PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.
PROVIDE STAND BY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.



PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	12.0	6.0	18.0
ESTIMATED DEMAND	12.0	4.5	16.5

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F
M/8TU/HR 122,000 BTU/HR

AREA FOR PROGRAMMING
GROSS AREA
AREA PER UNIT 4,000 SQ.FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

DOORS SHALL BE PROVIDED FRONT AND REAR WITH CLEAR DIMENSIONS AS INDICATED. THEY SHALL BE ELECTRICALLY OPERATED, VERTICAL LIFT BI-FOLD DOORS, OUTSIDE MOUNTED. DOORS WILL BE DESIGNED TO PROVIDE A WEATHERTIGHT INSTALLATION. ALL DOOR HARDWARE, OPERATORS AND/OR DETAILS WILL BE DESIGNED FOR TROUBLE FREE OPERATION SUBJECT TO APPROVAL OF THE CONTRACTING OFFICER. DOORS MAY BE MANUAL HORIZONTAL SLIDING WHERE OPERATION PERMITS. DOORS SHALL BE TROUBLE FREE AND OF PROVEN DESIGN.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15. STRUCTURE WILL BE INSULATED AND WILL HAVE METAL WAJNSCOT WHEN HEATING IS AUTHORIZED.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

WHEN SHELTERS ARE LOCATED ON EXISTING PAVEMENT, THEY WILL BE ERECTED ON CONCRETE CURBS WITH DUE CONSIDERATION TO RAMP DRAINAGE.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1. "LOAD ASSUMPTIONS FOR BUILDINGS".

CATEGORY CODE NO. 141-183

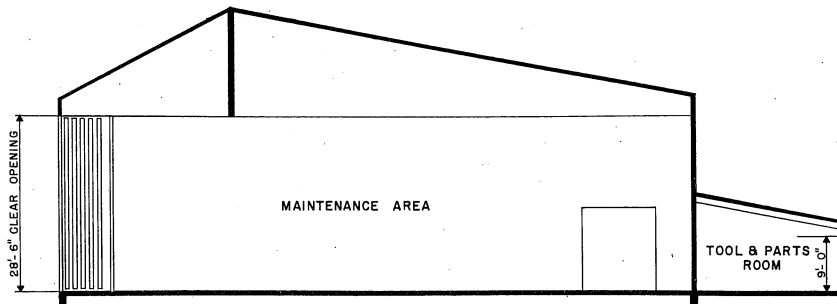
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES
AIRCRAFT ALERT SHELTER
FLOOR PLAN & SECTIONS

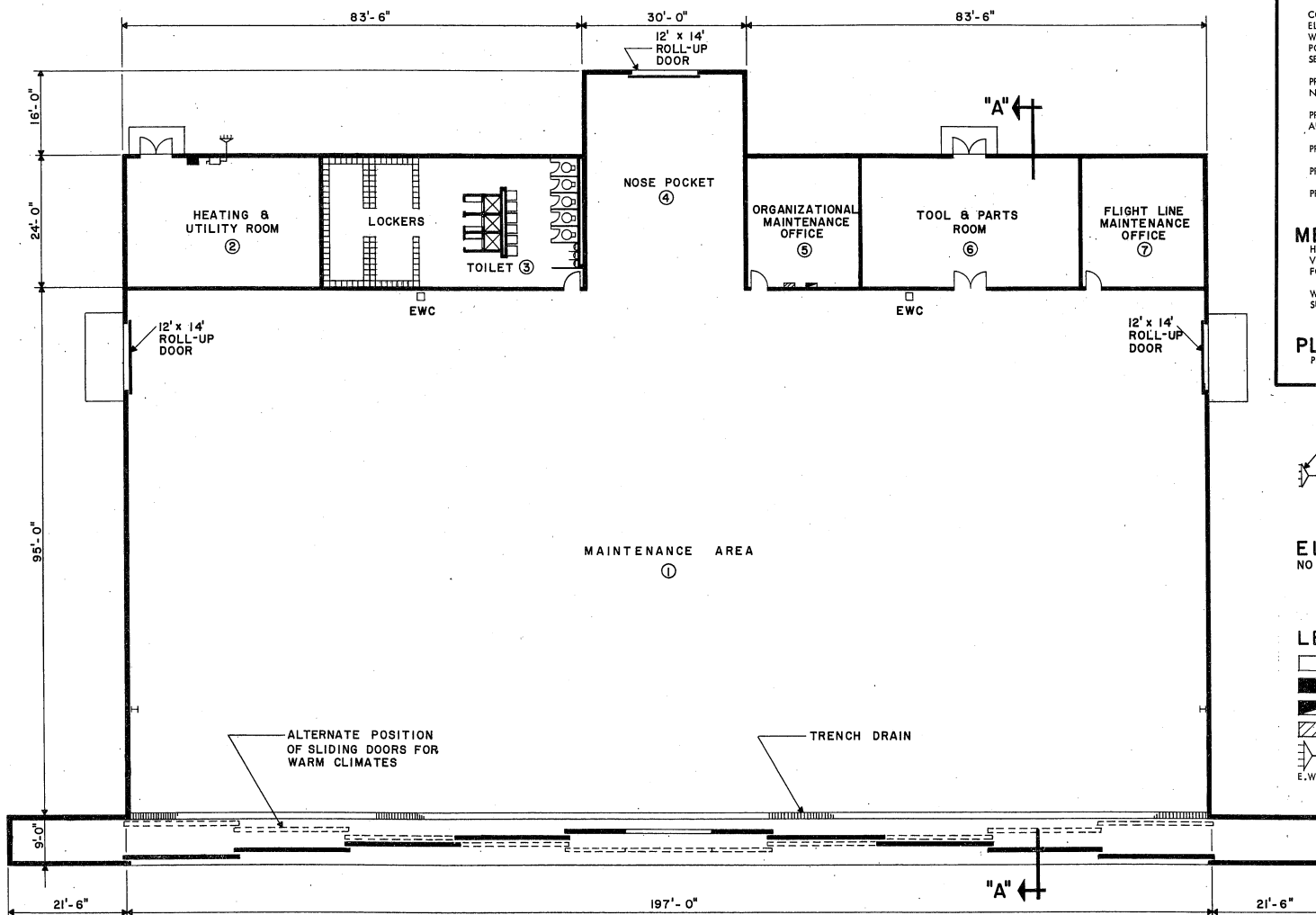
APPROVED: *David J. P. Collier*
FOR CHIEF OF STAFF USAF
AD 39-01-88
SCALE AS SHOWN
DATE 10 MARCH 1972
SHEET 2 OF 2

C2



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ. FT.
1	197'-0" x 95'-0"	18,715
2	36'-0" x 24'-0"	864
3	47'-6" x 24'-0"	1,140
4	30'-0" x 40'-0"	1,200
5	20'-6" x 24'-0"	492
6	40'-0" x 24'-0"	960
7	23'-0" x 24'-0"	552
8	9'-0" x 240'-0"	2,160
TOTAL		26,083



FLOOR PLAN
SCALE 3/32" = 1'-0"

DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.

PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15. MATERIAL STORAGE AND SHOP BUILDINGS WILL HAVE AUTOMATIC SPRINKLER, CLOSED HEAD SYSTEMS.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

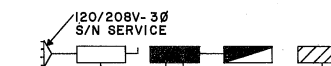
MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.



ELECTRICAL RISER DIAGRAM
NO SCALE

LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	122.0	97.6	219.6
ESTIMATED DEMAND	116.0	78.0	194.0

WATER (GPM)	TOTAL
HOT	16
COLD	64
TOTAL	68
TOTAL (GPD)	11,250
SEWAGE (GPD)	7,500

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
M/BTU/HR 1,548

AIR CONDITIONING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
TONS OF REFRIGERATION NONE

AREA FOR PROGRAMMING

GROSS AREA
26,083 SQ. FT.

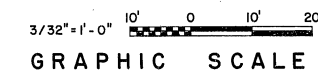
CATEGORY CODE NO. 211-173

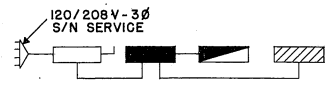
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
SPECTOR, PEAKE AND HOWELL
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

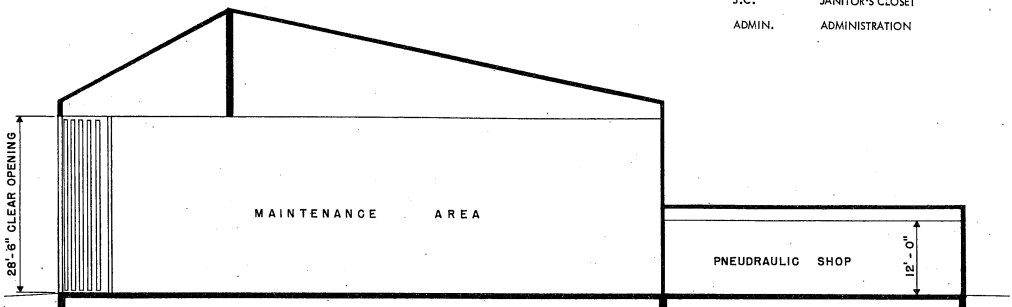
AIR RESERVE FORCES
MAINTENANCE DOCK
LARGE AIRCRAFT
TYPE A
PLAN & SECTION

APPROVED
Henry J. Rutherford
FOR CHIEF OF STAFF USAF
AD 39-05-26
SCALE: 3/32" = 1'-0"
DATE: 6 Nov. 1974 SHEET 1 OF 2





ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE 3/32" = 1'-0"

LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE
- E.W.C. ELECTRIC WATER COOLER
- S.S. SERVICE SINK
- J.C. JANITOR'S CLOSET
- ADMIN. ADMINISTRATION

ROOM SCHEDULE		
ROOM NO.	DIMENSIONS	GROSS AREA, SQ.FT.
1	198'-0" x 90'-6"	17,919
2	49'-3" x 47'-3"	2,327
3	49'-3" x 38'-0"	1,871
4	49'-3" x 26'-9"	1,317
5	39'-0" x 28'-0"	1,092
6	22'-6" x 9'-0"	214
7	8'-0" WIDE	395
8	26'-0" x 24'-0"	624
9	28'-0" x 25'-6"	663
10	22'-0" x 49'-6"	1,089
11	27'-3" x 34'-6"	940
12	27'-3" x 15'-0"	409
13	30'-0" x 49'-6"	1,485
14	33'-0" x 49'-6"	1,634
15	23'-9" x 49'-6"	1,176
16	27'-6" x 49'-6"	1,361
17	21'-0" x 49'-6"	1,039
18	21'-0" x 23'-6"	511
19	21'-0" x 13'-0"	273
20	21'-0" x 30'-6"	663
21	8'-0" x 7'-0"	61
22	21'-0" x 15'-6"	337
23	12'-3" x 7'-0"	86
24	21'-0" x 10'-6"	228
25	21'-0" x 22'-6"	473
26	21'-0" x 27'-3"	593
27	21'-0" x 20'-9"	436
28	21'-0" x 26'-3"	571
29	21'-0" x 20'-9"	436
30	6'-0" WIDE	1,136
31	8'-4" x 240'-0"	2,000
TOTAL		43,360

ELECTRICAL
LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.
CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.
PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.
PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS. PROVIDE MANUAL FIRE ALARM SYSTEM FOR ALL BUILDINGS.
PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.
PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.
PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

MECHANICAL
HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.
WHEN A COMPLETE MECHANICAL EQUIPMENT ROOM IS NOT REQUIRED, THE SURPLUS SPACE MAY BE ABSORBED BY OTHER FUNCTIONS OF THE FACILITY.

PLUMBING
PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS
FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTE
THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

UTILITY REQUIREMENTS

ELECTRICITY (KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	212.2	191.7	403.9
ESTIMATED DEMAND	201.6	157.7	359.3

WATER (GPM)	TOTAL
HOT	21
COLD	90
TOTAL	95

TOTAL (GPD)	SEWAGE (GPD)
39,000	26,000

HEATING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE °F
M/8TU/HR = 3,241.0

AIR CONDITIONING REQUIREMENTS
OUTSIDE DESIGN TEMPERATURE 95° F, D.B. & 78° F, W.B.
TONS OF REFRIGERATION 22

AREA FOR PROGRAMMING GROSS AREA
43,360 SQ. FT.

DESIGN GUIDES

ARCHITECTURAL
THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

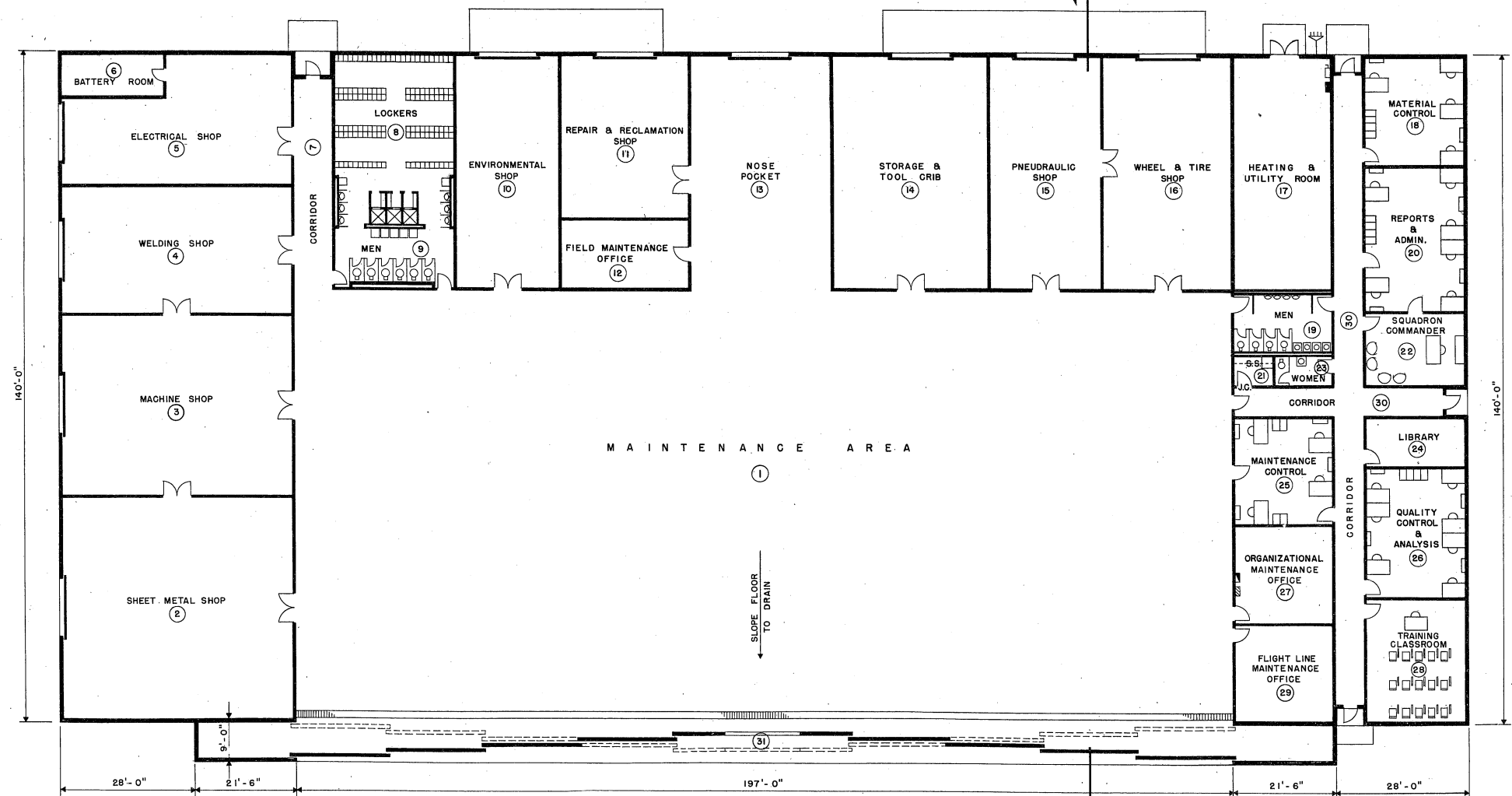
CONSIDERATION SHALL BE GIVEN TO FENESTRATION BASED ON GEOGRAPHIC LOCATION AND ORIENTATION OF THE FACILITY.
PRE-ENGINEERED STRUCTURES MAY BE USED AS PROVIDED IN STANDARD OUTLINE SPECIFICATIONS FOR AIR FORCE FACILITIES, AFM 88-15.

PLAN DIMENSIONS ARE NOMINAL AND MAY BE ADJUSTED TO CONFORM TO THE STOCK DIMENSIONS AND DETAILING OF AVAILABLE PRE-ENGINEERED STRUCTURES, AND TO ACCOMMODATE THE THICKNESS OF MATERIALS SELECTED FOR THE FINAL DESIGN.

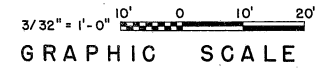
FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

STRUCTURAL
LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1.

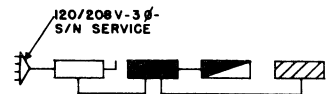
CATEGORY CODE NO. 211-173, 211-152, 610-129



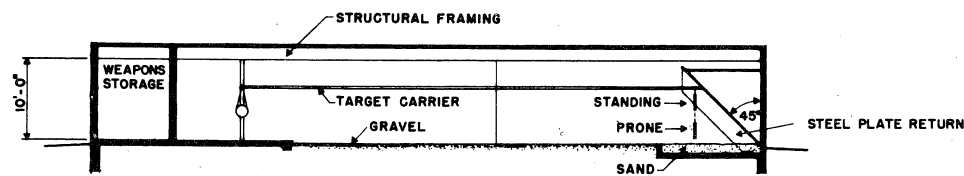
FLOOR PLAN
SCALE 3/32" = 1'-0"



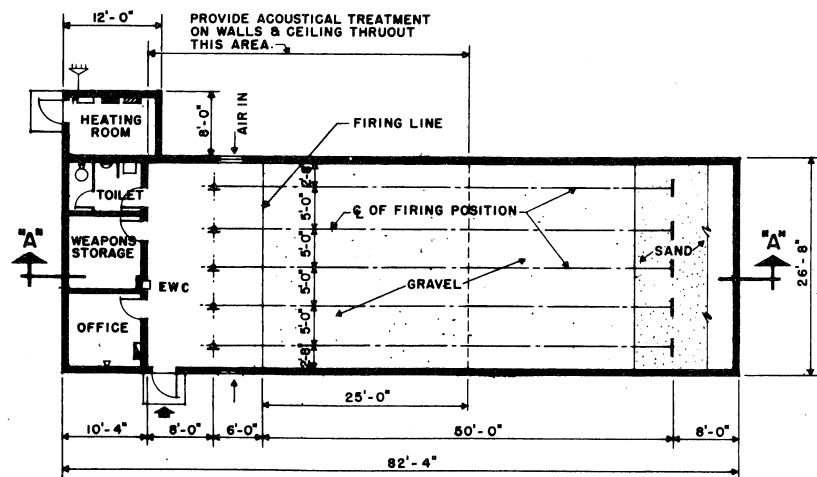
SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED
DEPARTMENT OF THE AIR FORCE			
HEADQUARTERS UNITED STATES AIR FORCE			
SPECTOR, PEAKE AND HOWELL			
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA			
AIR RESERVE FORCES			
MAINTENANCE DOCK			
LARGE AIRCRAFT			
TYPE B			
PLAN & SECTION			
APPROVED	AD 39-05-26		
<i>Henry J. Peake</i>	SCALE: 3/32" = 1'-0"		SHEET 2 OF 2
FOR CHIEF OF STAFF USAF	DATE: 6 Nov. 1974		



ELECTRICAL RISER DIAGRAM
NO SCALE



SECTION "A" - "A"
SCALE: 1/8" = 1'-0"



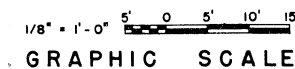
FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

- SERVICE SWITCH
- MAIN DISTRIBUTION PANEL
- LIGHTING PANEL
- POWER PANEL
- INCOMING ELECTRICAL SERVICE

LEGEND

- ENTRY
- E.W.C. ELECTRIC WATER COOLER
- CENTER LINE



DESIGN GUIDES

ARCHITECTURAL

THE SECTION INDICATED IN THIS DEFINITIVE DRAWING IS NOT INTENDED TO ESTABLISH AN ARCHITECTURAL DESIGN TREATMENT NOR USE OF SPECIFIC MATERIALS. CAREFUL USE OF MATERIALS AND COLOR CAN ENHANCE THE APPEARANCE OF THIS FACILITY WITHOUT INVOLVING ADDITIONAL COST. IT IS NOT INTENDED THAT EXTREME DESIGN OR UNTRIED MATERIALS BE INCORPORATED. MATERIALS USED WILL BE IN ACCORDANCE WITH APPLICABLE CRITERIA FOR THIS FACILITY.

FIRE PROTECTION SHALL BE IN ACCORDANCE WITH AFM 88-15.

ALL WALLS OF RANGE AREA SHALL BE CONCRETE MASONRY, MINIMUM 12" THICKNESS. ROOF RANGE SHALL BE CONCRETE MATERIAL, 8" MINIMUM THICKNESS.

UNDERSIDE OF ROOF DECK SHALL BE PROTECTED WITH MINIMUM 1" (T AND G) WOOD SURFACE TO A DISTANCE OF APPROXIMATELY 25' UP FROM REAR OF RANGE.

PROJECTING SURFACES IN FRONT OF FIRING LINE SHALL BE PROTECTED WITH A MINIMUM 1-1/2" WOOD FACING TO PREVENT RICOCHETS.

USE AND OPERATIONS OF THIS FACILITY SHALL BE IN ACCORDANCE WITH CURRENT SAFETY REGULATIONS.

STRUCTURAL

LIVE LOADS WILL BE IN ACCORDANCE WITH AFM 88-3, CHAPTER 1. "LOAD ASSUMPTIONS FOR BUILDINGS".

ELECTRICAL

LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH AFM 88-15 FOR EACH AREA SERVED. CONVENIENCE OUTLETS FOR CONVENTIONAL USE IN OFFICE OR SIMILAR AREAS TO BE IN ACCORDANCE WITH N.E.C.

CONVENIENCE OUTLETS IN OTHER AREAS TO BE LOCATED BY USING AGENCY. ELECTRICAL PANELS WILL BE LOCATED AS INDICATED. OUTLETS FOR EQUIPMENT WILL BE LOCATED BY THE DESIGN AGENCY IN ACCORDANCE WITH THE EQUIPMENT POSITIONS. PROVIDE DISCONNECT DEVICES IN ACCORDANCE WITH THE N.E.C. SECTION 422-20 THRU 430-113.

PROVIDE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH AFM 88-15 AND N.F.P.A. BUILDING EXITS CODE NO. 101.

PROVIDE FIRE ALARM SYSTEM IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE PUBLIC ADDRESS SYSTEM AS REQUIRED BY USING AGENCY.

PROVIDE POWER OUTLETS AS REQUIRED FOR ALL PORTABLE EQUIPMENT.

PROVIDE STANDBY ELECTRICAL POWER IN ACCORDANCE WITH AFR 91-4 AS REQUIRED.

LIGHTING AT FIRING LINE SHALL BE INDIRECT, APPROXIMATE INTENSITY OF 20 FOOT CANDLES. LIGHTING IN RANGE AREA SHOULD BE DIRECT, SHIELDED FROM STRAY BULLETS, APPROXIMATE INTENSITY 10-15 FOOT CANDLES.

TARGET AREA LIGHTED BY FLOODLIGHTS PROVIDING 70-75 FOOT CANDLES.

MECHANICAL

HEATING, AIR CONDITIONING, EVAPORATIVE COOLING AND MECHANICAL VENTILATION SHALL BE IN ACCORDANCE WITH AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

PROVIDE MECHANICAL EXHAUST AT BACKSTOP WITH TEMPERED MAKE-UP AIR SUPPLIED UPSTREAM OF THE FIRING LINE TO PRODUCE A 50 F.P.M. AIR VELOCITY ACROSS THE PERSONNEL FIRING STATIONS TO EFFECTIVELY REMOVE THE GASEOUS COMBUSTION PRODUCTS.

EXHAUST OPENINGS TO BE PROVIDED WITH BULLET DEFLECTING LOUVERS.

PLUMBING

PLUMBING WILL BE IN ACCORDANCE WITH AFM 88-8, CHAPTER 4 AND AFM 88-15.

PROGRAMMING AND PLANNING GUIDES

SPECIFICATIONS

FOR ACCEPTABLE CONSTRUCTION MATERIALS AND DESIGN CRITERIA SEE CURRENT AFM 88-15 AND APPLICABLE AIR FORCE PAMPHLETS.

GENERAL NOTES

THE REQUIREMENTS GIVEN BELOW ARE FOR ESTIMATING PURPOSES AND APPLY TO THIS SIZE FACILITY ONLY.

BULLET BACKSTOP TO BE DESIGNED FOR .38 AND .45 CAL. AMMUNITION; 3/4" ARMOR PLATE OR STRUCTURAL STEEL EQUIVALENT. THE FIRING OF HIGH VELOCITY OR MAGNUM AMMUNITION SHALL NOT BE PERMITTED.

MANUAL TARGET CARRIERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

WEAPONS STORAGE ROOM TO HAVE METAL CLAD DOOR AND LOCK.

UTILITY REQUIREMENTS

ELECTRICITY	(KW)	LIGHTING	POWER	TOTAL
CONNECTED LOAD	6.6	10.4	17.0	
ESTIMATED DEMAND	6.6	8.9	15.5	
WATER (GPM)				
HOT	3			
COLD	35			
TOTAL	37			
TOTAL	798 (GPD)			
SEWAGE	300 (GPD)			

HEATING REQUIREMENTS

OUTSIDE DESIGN TEMPERATURE °F
H/STU/HR 40

MECHANICAL VENTILATION

90% PERCENT TEMPERATUR/AIR SUPPLY - 7000 C.F.M.

AREA FOR PROGRAMMING

GROSS AREA	SQ. FT.
ACTUAL AREA SHOWN	2,196
HEATING ROOM	096
TOTAL AREA	2,292

CATEGORY CODE NO. 171-475

SYMBOL	REVISION - DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

VICTOR B. SPECTOR AND ASSOCIATES
ARCHITECTS-ENGINEERS FALLS CHURCH, VIRGINIA

AIR RESERVE FORCES

RANGE, SMALL ARMS, INDOOR
5 POSITIONS

FLOOR PLAN & SECTION

APPROVED <i>David G. Collier</i>	AD 84-06-07
FOR CHIEF OF STAFF USAF	SCALE AS SHOWN SHEET 1 OF 1
	DATE 10 MARCH 1972

PART 1

PART 1
DEFINITIVE DRAWINGS FOR STANDARD FACILITIES

PART 1

PART 1

PART II

PART II
DEFINITIVE DRAWINGS FOR ANG/USAER FACILITIES

PART III

PART II