March Air Force Base, Strategic Air Command
Combat Operations Center
(Building 2605)
5220 Riverside Drive
Moreno Valley
Riverside County
California

March A[illegible]

HABS No. CA-2788-A

HABS
CA-2788-A

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Buildings Survey
National Park Service
Department of the Interior
Oakland, California

HISTORIC AMERICAN BUILDINGS SURVEY
MARCH AIR FORCE BASE, STRATEGIC AIR COMMAND
COMBAT OPERATIONS CENTER
(BUILDING 2605)

HABS No. CA-2788-A

Location: Located within March Air Force Base, 5220 Riverside Drive, Moreno Valley, Riverside County, California

U.S.G.S.: Riverside East and Sunnymead, CA, 7.5' Topographic Quadrangle, 1967, photoinspected 1973, photorevised 1980.
UTM Coordinates (NAD 27): Zone 11 477384 E, 3752253 N

Present Owner: United States Department of the Air Force, AFBCA/DB March, 3430 Bundy Avenue, Building 3408, March Air Force Base, CA 92518-1504

Present Occupant: United States Department of the Army, United States Army Reserve, 63D United States Regional Readiness Command, 4235 Yorktown Avenue, Los Alamitos, CA 90720-5002

Present Use: 63D Regional Readiness Command (RRC) Army Reserve Training Facility (administrative offices and classrooms)

Significance: Building 2605 was determined eligible for inclusion in the National Register of Historic Places on November 27, 1995 under Criterion Consideration G as a significant Cold War-era structure. The Combat Operations Center building has strong associations with the Cold War-era Strategic Air Command (SAC) operations as the command center for 10 SAC bases and controller of assets constituting 80 percent of the nation's Intercontinental Ballistic Missile (ICBM) force. In addition, the Center also controlled all of SAC's reconnaissance aircraft (U-2, RC-15, SR-71) and 30 percent of the SAC's bombers and tankers. The structure's architecture reflects the designer's intention to provide a secure environment against attack or surveillance from the nation's Cold War-era enemies and is literally "self-contained" with its own supplies of water and air purification systems housed in adjacent facility Building 2606 (HABS No. CA-2788-B) and the Cooling Tower for Utility Building 2606 (HABS No. CA-2788-C).

PART I. HISTORICAL INFORMATION

A. Physical History:

1. Date of erection: 1962-1963

2. Architect: United States Army Corps on Engineers, Los Angles District/Moffatt & Nichol, Engineers, Long Beach, CA.

3. Original and subsequent owners: United States Department of the Air Force

4. Builder, contractor, suppliers: Unknown

5. Original plans and construction: US Army Corps of Engineers

6. Alterations and additions: Numerous alterations have occurred to the interior of the building, including reconfiguration of space, replacement of some lights, floors, ceilings and hardware, electrical and air conditioning updates. These are described in detail below.

B. Historical Context:

March Air Force Base was established in 1918 as a World War I army airfield. The base was substantially expanded after the war under the United States Air Corps Act of 1926, becoming the key air base in California. Between 1928 and 1943, the base became the primary aviation post on the West Coast. The base more than doubled in size during this period with the acquisition of 920 acres of land and the construction of major runways and numerous buildings. It became the largest field in the western United States and home to its largest air fleet (JRP 1992:64-65).

With the onset of World War II and America's entry into the war, the 15th Air Force was created in October 1943. This strategic air force was heavily involved with bombardment during these war years. With the end of the war and the evolution of a new world order, the American military restructured its forces, creating three new commands based on function. The new Strategic Air Command (SAC) was created to conduct long-range offensive operations and reconnaissance. The command's headquarters were established at March Air Force Base. The 15th grew with reorganizations and continued activities and by the start of the Korean conflict in 1950 could count more than 20,000 personnel, chiefly when the command became largely involved with bombardment and refueling (Harley 1980:9-11).

By the mid-1950s, new thermonuclear technology, the creation of the B-52 bomber, the development of aerial refueling, and yet another new world strategic order led the Eisenhower administration to create the "New Look" defense policy that used SAC bombers loaded with

nuclear weapons to create a threat and deterrence to the Russian conventional ground forces (Harley 1980:16).

Aerial refueling allowed jet bombers stationed in the United States to carry out nuclear strikes anywhere in the world. This new nuclear deterrent allowed the military response to be faster and lighter since it was then less reliant on overseas unit-size deployments (Harley 1980:16).

By the late 1950s and early 1960s, the United States feared the Soviet Union had developed long-range bombardment and missile capabilities that created a real and present danger to homeland defense. This new quiet conflict had been dubbed the constant state of eminent threat of destruction between the world's two superpowers as the "Cold War." To enhance long-range deterrence, American military contractors had developed Atlas and Titan, intercontinental ballistic missiles (ICBM) capable of striking the Soviet Union from missile silos in the United States (Harley 1980:16-19; Manley and Earth Tech 1995: 4-2).

As a further deterrence, the 15th Air Force kept one-third of its bombers on "alert," loaded with nuclear weapons and ready to fly at any time as a means of avoiding destruction on the runway by sudden enemy attack. To further reduce their vulnerability, the force was dispersed to numerous bases throughout the United States. To keep their resources organized, March Air Force Base became increasingly important as the Strategic Air Command center. Its mission focused on nuclear deterrence, dispersal, centralized initial combat crew training, and strategic alert (Harley 1980:16). By the end of 1965, the 15th Air Force was responsible for over 600 Atlas, Titan and Minuteman ICBMs, nearly all the missile units located in the western United States. Its jurisdiction included both armed planes and missiles (Manley and Earth Tech: 1995:4-2).

Building 2605 was constructed in 1962-1963 at the peak of the Cold War to serve as the Combat Operations Center (COC). This building became the control center for air force bases throughout the United States. These included Lamar, Altus, McConnell, March, Beale, Minot, Dyess, Castle, McClellan, Kadena, Eielson, Offutt, Fairchild, Mather, Malstrom, and FE Warren. These bases reported their status to March, which was capable of providing them with direction. In other words, it became the nerve center of the SAC, aware of its functional condition and able to provide orders. Because the center was clearly a strategic target for the enemy, it was constructed with features that could sustain an operational crew in case of even nuclear attack (Gricius 2003). The COC controlled 80 percent of America's ICBM force, all of Strategic Air Command (SAC) reconnaissance aircraft (U-2, RC-135, and SR-71), and 30 percent of SAC's bombers and tankers.

The building was designed jointly by Moffatt & Nichol, Engineers, Long Beach, and the Los Angeles District of the Army Corps of Engineers. This uniquely conceived building utilized engineering techniques intended to protect and ensure the operation of the COC, even during intensive attack. The windowless exterior walls consist of a two-foot thickness of reinforced concrete. The building was designed to be virtually self-contained, with

independent air-purification systems, food, and water. Half of the building is underground for protection from nuclear attack. To provide constant communication with its command bases, the command room was manned twenty-four hours a day, seven days a week by specially trained personnel. One wall was covered with video screens that provided detailed data such as the status of SAC forces, reconnaissance information, global weather reports, and political updates to the command staff who worked in a glass-walled balcony above the main floor. The SAC Automated Command Control System managed data from around the world and transmitted it onto the large screens on the wall. Because of this, the building and its mission have been recognized as one of the most important military centers in the nation (*The Beacon* 1/23/1976; Manley and Earth Tech 1995:4-2).

PART II. ARCHITECTURAL INFORMATION

A. General Statement

Building 2605 is a two-story reinforced concrete building of functional design. It is located within March Air Force Base (Figures 1 and 2). Building 2605 was constructed in 1962-1963 at the peak of the Cold War to serve as the Combat Operations Center for the Strategic Air Command. The building was designed as a self-contained unit with an air purification, electrical, sewer and water systems independent from the rest of the base. Much of the facility was built underground to improve survivability in case of an attack.

The design of the facility clearly reflects the intention of the military to provide a highly secured environment. Exterior walls are of thick reinforced concrete. There are no windows and doors are solid. The specialized nature of the building is reflected in the original interior design as well. The basement includes two computer areas with special raised floors, a darkroom, vaults, programmer's area and a presentation design room. The first floor contained a data display area, controllers and administration areas, crypto maintenance, classified storage, a communications room and other areas identified on plans only in code. The second floor includes a commander's area with bath and bedroom space, a senior battle staff room, executive officer's room, reconnaissance secured room, communication center and other secured and coded rooms. The display area at the eastern end of the building, also known as the war room or combat command operations center, is a two and one-half story space that served as the hub of SAC operations.

Building 2606, the support facility for Building 2605, is adjacent to the main building and is linked through underground utilities. This small support facility housed the electrical, water and cooling systems for the main building. It was connected to an Air Conditioning Cooling Tower. These support structures have been recorded separately as HABS No. CA-2788-B (Building 2606) and HABS No. CA-2788-C (Cooling Tower).

2. Condition of the Fabric:

The building's exterior is in good condition, with few modifications. The interior has been substantially altered, except for the Command Operations Center data display area (eastern one-third of the building). Alterations include installation of drop acoustical ceilings, replacement of floors, rearrangement of space, replacement of most hardware and fixtures, removal of computer and communications equipment, upgrades to electrical and air conditioning systems, and removal of all display room equipment.

B. Description of Exterior:

1. Overall Dimensions:

Building 2605 is a solid rectangular two-story building with thick walls of reinforced concrete. It measures 90' north-south x 210' east-west x 31' high above ground and has an underground floor of 170' east-west by 90' north-south.

2. Foundations:

The building rests on a concrete basement foundation, most of which extends about 15' below the typical first floor level. The 90' north-south x 37'6" east-west display area section at the east end of the building has a sunken floor that extends approximately 4' below grade; there is no basement below this portion of the building.

3. Walls:

The exterior walls of Building 2605 are reinforced concrete, being one foot, two inches or one foot, four inches thick at the eastern data display area section and eight inches thick for the rest of the building. The north (front), south and east elevations of Building 2605 are divided into bays that have exposed concrete wall portions measuring 14'-wide (east side) or 17'-wide (north and south sides) with evenly spaced, full height brick-faced pilaster-like panels that each measure 6' wide x 8" thick (CA-2788-A-3-5, CA-2788-A-7-9). The north and south elevations are nine bays long and the east elevation is four bays long. The west elevation is six bays long and has small exposed concrete sections (1'4" wide and inset 5") with wider full-height brick-faced panels that are about 14' wide (CA-2788-A-10, CA-2788-A-11). The brick facing for the panels is laid in a stacked stretcher bond with raked mortar joints that are 3/8" thick. The brick panels are set so as to hide the concrete walls' vertical construction joints. All exterior walls have 1'3" parapets with metal copings.

Exterior lighting is supplied by 1500-watt quartz-iodine floodlights mounted on the building 17' above the ground level and 500-watt flood lights mounted on each corner of the building at the roof parapet.

4. Structural System:

The floor framing for the first and second floors (west of the display area) is similar to the concrete roof framing system of the western portion of the building, with 2'2" x approximately 1'6"-wide concrete girders spaced at 30' on center east-west. Between the girders are concrete bridging joists that measure about 1'2" vertically by about 6" wide spaced at 2' on center in the north-south direction and at about 10' on center east-west. The base flooring above the framing is 6"-thick reinforced concrete slab.

Eighteen-inch-square concrete columns (on footings) provide further structural support between floors, as do the north-south aligned concrete walls between the building's central portion and the display area to the east and the building section to the west. Three and five-eighth-inch steel studs, 2" x 4" wood framing and concrete provide additional support for interior walls.

5. Porches and Stoops:

There are concrete walkways and pads (for utility equipment) along the north side of building. The north side doors are accessed from concrete ramps. A concrete pad at the south end of the west side of the building creates a cover over an extension of the basement level's telephone cable vault. The south side of the building includes a sub-grade basement-level pedestrian access and equipment well.

The north elevation includes two entries – a main entrance and a personnel door. The main entrance (CA-2788-A-3, CA-2788-A-6) is centrally set between the two brick panels/pilasters of the westernmost bay and is accessed from a concrete ramp with metal pipe railings.

6. Chimneys: None.

7. Openings:

The doorway of the main entrance includes an aluminum-framed glass double door and a sidelight to the east side, and is shaded by a concrete canopy (awning) that is about 14' long and overhangs the entry for 2' (CA-2788-A-6). Originally, the numbers "2605" were set to the west side of the main entry doors; the numbers were made of 6"-high aluminum designed in a condensed Gothic lettering style. These numbers have been removed and replaced with the existing plaque/plate that reads "5220/Defense Learning Ctr./Memorial Honors/Retention." A modern wall-mounted light fixture flanks each side of the main entry doorway. The hollow metal personnel door (CA-2788-A-4, CA-2788-A-5) is located within the third bay from the east side of the building and is entered from a concrete ramp with pipe metal railings; the door includes single light glazing (10"-square with wire glass).

Two double-door-sized knock-out panels (one at first floor and one at second floor level) were installed on the north elevation behind the third brick panel/pilaster from the west side of the building. The knock-out panels were installed in relation to a proposed headquarters addition that was never built. There are no other door or window openings on the north elevation.

There are no door or window openings at the south elevation; however, there is a below grade concrete walled area (for the concrete stairway and equipment well to the basement) that is surrounded above by pipe metal railings. The east and west side of the building have no window or door openings.

8. Roof:

The building's concrete roof is very slightly pitched (for drainage) with an east-west aligning ridge; the slope ratio to each side of the ridge is 1/8" down per one horizontal foot. Six-inch-high drainage crickets are installed along the north and south sides of the roof. The crickets direct water to 3"-diameter metal drain pipes (three pipes along the north and three along the south sides of the roof). The roof has multiple-ply built-up surfacing (asphalt with gravel) and includes vents, vent pipes, and antenna footings. Wooden 2'6" wide catwalks are set atop the roof and are accessed from at least two scuttle entries; each scuttle entry is 4'8" square and has a metal door.

The roof consists of two types of structural framing. The data display area at the east end of the building has east-west aligned open web steel joists. The joists include 2'4" webs and are spaced 6'8" on center. Between the joists is north-west aligned cross-braced steel bridging constructed of 1 and 1/4" L-shaped sections. There is a north-west aligned concrete girder that separates the roof framing method over the display area from the roof framing method over the remainder of the building to the west; the section measurement of the girder is 4' x 1'4". The roof framing over the west portion of the building includes two east-west aligned concrete girders that have 2' x approximately 1'6" sectional measurements and are spaced 30' on center along with concrete bridging joists that have 1' x 6" sectional measurements and are spaced 2' on center in the north-south direction and at approximately 10' on center in the east-west direction.

C. Description of the Interior

1. Floor Plans

a. Basement:

The perimeter basement walls are 1' thick with 5'-wide continuous concrete footings for the north, west and south walls and a 3'6"-wide continuous footing for the east wall. The west perimeter wall includes two interior pilasters that measure 1'6" wide x 4" thick and rest

on 7" square footings. The east wall includes two pilasters, each 1'6"-wide x six inches thick, that rest on 10'-square footings. Approximately 70' inward from the west basement wall is a north-south aligned concrete wall that is 8" thick with a 1'6"-wide continuous footing; this wall includes an approximately 5'-wide opening between the central and west room. The basement includes two east-west aligned rows of interior concrete support columns. The columns are each 1'6" square with square footings, the majority of which measure between nine and 10' square; the columns extend upward through the first and second floors.

The basement is accessed from the eastern interior stairwell or an exterior entry at the south side of the building. The exterior entry includes 1'-thick concrete retaining walls, a 4'-wide concrete stairway to a hollow metal door, and a 12'-square equipment well that provides access to an approximately 12'-wide metal roll-up loading bay door.

The basement is divided into at least nineteen spaces. Originally the basement included the following spaces/areas: east and west stairwells, air conditioning fan room with adjoining equipment well/stairway, telephone cable vault, console and computer areas, tape vault, two dark rooms, small storage room adjacent to the darkrooms, two programmers rooms, restroom, presentation design room, a large unoccupied space, a hallway, maintenance, stock room, and office (Figure 3). The floor plan of the basement has not changed much to the present (Figure 4). Sometime after 1968, the larger of the two programmers' rooms was divided at the east end in order to alter the space into a hallway extension and a supply room. The presentation design room was divided to become a three-room decoding area (CA-2788-A-47, CA-2788-A-48). The northeast corner of the basement interior was altered around 1966. All changes were done within the period of significance established for the building.

Air Conditioning Fan Room. The western area of the basement measures 66' x 88' and primarily includes utility space and an air conditioning fan room. The main walls and the floors of this area are unfinished concrete and the ceiling is open to the floor framing above. Within the westernmost portion of this area (west of the west interior stairwell) is an approximately 19' east-west x 75' north-south unoccupied space that is partitioned off from the rest with gypsum wallboard-surfaced walls. The northeast corner of this room has been bricked in (date of modification is unknown).

Telephone Cable Vault and Utility Area. There is a concrete-walled telephone cable vault and an area of unknown function labeled "MCCB" on original plans at the southwest corner. The MCCB area currently is used as a supply dispersal area. The remaining utility section (CA-2788-A-49, CA-2788-A-50, CA-2788-A-51, CA-2788-A-52) includes a concrete-walled telephone cable vault (southwest corner of area), a walk-in metal vault air filter (behind the interior stairwell), and four fan systems. The vaults have secured small square steel doors with metal mesh safety glass windows.

The basement utility area contains equipment for four air conditioning systems. Each has a barometric damper, large exhaust fan, humidifier, condensation drain, filters, and

temperature controls. System 1 cooled the computer areas, System 2, the TCC and Telephone system areas, System 3, the Quad equipment and System 4 cooled general administration and office areas. The air conditioning fan systems include one with a large Spencer-Turbo compressor (manufactured for the Glover Co./Transitubes/Detroit, Michigan).

Other equipment in the utility area includes an air handling unit (Banson Co., Winston-Salem, NC), surge tank, a "Filtron Interference"-brand compressor, a hot water tank (Advance Tank Mfg. Co., Gardena, CA) with gauges on wall behind, air supply and compression gauges (Honeywell–Brown Instruments) (CA-2788-A-53), two pumps, a locked box, and a raised concrete area along the east wall with new water heaters and a new compressor. Other elements in this section of the basement include a Westinghouse-brand panel board for hot water pump, photo decoder, sewer ejectors, a mounted air conditioner output/input (Motor Generator Skid Mounted/Type AC) and a massive telephone circuit board. There is a ladder on the north wall, near the northeast corner of the room leading down to a concrete-lined sump with two pumps on the north wall in the air conditioning fan room.

Console and Computer Areas. The eastern portion of the basement is divided into the workspaces, offices and a restroom. Partition walls in this area are wood-stud with gypsum wallboard surfacing, except for the stairwell and tape vault room that have concrete walls. The console and computer areas along the south side have pedestal floors and the rest of the offices/workspaces have linoleum asphalt tile floors. An L-shaped open space is present in the computer area at the west end and the console area at the east end. The console area has a raised pedestal floor and the access between the computer and console areas is by way of a ramp between the two spaces. The pedestal floor is raised one foot, three inches above the concrete slab.

Originally the computer area was one large space; it was divided into three spaces and a corridor was added in 1983. The computer area originally contained core storage units (four), a tape control unit, disc control unit and disc drive, tape drives (twelve), drums, an operator console, keypunch area, printer processing unit, frequency converter (two) and typewriters (two). All equipment has been removed.

Tape Vault, Dark Rooms, Storage Room. The Tape Vault, used to store computer data tapes, is accessed by a 6"-thick steel, three-foot-wide vault door on the west wall with a code/combination box (Mosler). The tape vault measures approximately nine feet north-south by 14' east-west, is within the central portion of the basement and is constructed of concrete (6" walls, 1'2" -thick footings). It is currently used for storage. Three small rooms are located north and east of the vault room. Two of these served as darkrooms; the third contains shelving and appears to have been a film storage room. These rooms are now vacant.

Programmer's Rooms. The Programmer's Room is in the northeast corner of the building on the east side of the stairwell. It has concrete walls and a locked door. Another programmer's

room was present on the west side of the staircase. This space has been divided into several corridors and a small room now used as a supply room.

Maintenance, Stock Room, Offices. The original maintenance, stock room and office are in an east-west line down the center of the basement space. These areas now have steel mesh walls and are used as supply rooms and storage. The Maintenance Room has been divided and a corridor created between the Maintenance Room and Stock Room.

Restroom. The restroom is also in the center of the basement. It has two Standard-brand wall-mounted sinks, a wall-mounted urinal with a one-half length metal screen divider separating it from the sinks, and two Standard-brand toilets with metal partitions and doors. The floors are brown and yellow ceramic 1"-square tiles and the walls have 4"-square ceramic tile wainscoting with plaster above. Chrome shelves are hung with brackets above each sink at the top of the ceramic wainscoting and mirrors are above each sink. A chrome soap dispenser originally hung under each shelf centered above the sink. A janitor closet with a stainless steel sink and concrete floor is next to the restroom.

Presentation Design Rooms. The original Presentation Design Room has been modified into a three-room decoder area (CA-2788-A-47, CA-2788-A-48). It currently has a raised pedestal floor (seven inches above the concrete floor) with vinyl tile. The decoding area is divided into three rooms (stud walls); the two smaller rooms have acoustical tile wall and ceiling surfacing (with two-tube recessed florescent light panels). The larger room has gypsum wallboard and acoustical tile and recessed fluorescent light panels. A pneumatic vacuum tube message center is located in the largest decoding room (CA-2788-A-48).

b: First Floor:

The first floor originally had at least thirty-one spaces including a corridor, east lobby and two sentry counter areas, two men's restrooms, women's lounge and toilet, quads, crypto maintenance area, maintenance and line equipment area, T.C.C. and fault facility control area, projection area administration, utility room, other rooms, logistics, off limits area and controllers office (Figure 5). Original floor surfaces are asphalt tile, concrete (janitor and utility areas), ceramic tile (restrooms – toilet areas), rubber tile (hallways) or pedestal style (display area, quads, fault facility control area). Original wall surfacing includes plaster, gypsum wall board, moveable partition, ceramic tile wainscot walls (restroom areas); many walls have rubber or ceramic tile baseboards. Original ceilings are surfaced with gypsum wallboard, exposed, plaster or acoustical tile ceilings or may be exposed to the framing above. Today there are over fifty spaces on this floor; many original spaces have had walls removed or have been further divided by new partition walls (Figure 6). Most rooms, including surface finishes, have been completely modified, except for the occasional original circuit breaker panel on a wall.

Corridor. The main corridor originally had asphalt tile floors but is now carpeted. It has an acoustic tile with recessed light ceiling and rubber wall baseboards (CA-2788-A-12). None of these finishes are original. There is a metal double door frame (door removed) in the hall just outside of the women's lounge/toilet that is an alteration to the original design.

Lobby Area. The former Lobby area with Sentry Counter (at the east end of the corridor near the Display Area) (CA-2788-A-13) is now carpeted and has new recessed florescent lights and an acoustical tile ceiling. It has original metal double doors that lead to "DPCX" (Data Display Area), an original "TOP SECRET" sign, and an "ANNOUNCE S&G" alarm code box-like vault door upstairs with a bell and red signal light. Two original Westinghouse panel boards are in the hall opposite the sentry area. There is a Bryant box on the south wall of the administrative office to the west of controller's office. This office and others nearby have hanging two-tube florescent lights. The rooms are carpeted and have original acoustic tile ceilings and sheet rocked walls with newer wood paneling on the bottom third of their height. Hallway flooring outside these rooms is grey tile with rubber baseboards.

Restrooms/Utility Rooms. The former 1963 unisex bathroom (now used for storage, Room 116) has two sinks, a urinal and two toilets and is similar in design and brands to the basement facility with shelves, sinks, mirrors and soap dispensers. The floor is covered with yellow and brown one-inch-square tiles. Walls have 4"-square yellow ceramic tile wainscoting and plaster above. There is a small space at the southeast corner (actually entered from a hallway) that holds a water cooler (Sunroc Corp., Glen Riddle, PA.).

Women's Lounge and Toilet. The Women's bathroom is located in the center of the first floor and is identical to its counterpart on the second floor. The Lounge is accessed by a swinging metal door with a louver. The Lounge floor is clad with grey and cream nine-inch squares of linoleum. This floor appears original. The bathroom floor has a base of 1"-square tiles with random occurrences of one-inch-square yellow, green, blue, pink and grey tiles. Walls have light blue 4"-square ceramic tile wainscoting with plaster above. This bathroom contains a Standard-brand toilet, sink with a mirror, shelf and soap dispenser and wall-mounted paper towels holder and garbage container.

Men's Room. The Men's Room is next door to the women's facility. The Men's Room is also similar in color and design to the basement and second floor facilities and has three toilets and two urinals on one wall and three sinks on the opposite wall. The floor is covered with yellow and brown 1"-square tiles. Walls have 4"-square tile wainscoting and plaster above.

Janitor's Closet and Utility Room. The Janitor's closet and the all-concrete Utility Room are also identical to those on the second floor and have concrete walls and floors. The Janitor's Closet contains a cast iron sink.

Quad Area. The Quad Area originally supported the Data Display Area and had raised pedestal floors. The 1963 Quad Area (originally Room 110) has been significantly altered with

the addition of partition walls to create rooms (112a and 110). The current Room 110 is a small area with original raised pedestal floors. At one time, Room 110 was accessed by a steel door with an 8"-square safety glass plate and a code entry box. Room 112a is now used for storage and is carpeted with new fluorescent lights and acoustical tile ceilings. It has been divided in half using moveable walls.

Crypto Maintenance. The former Crypto Maintenance area (123) is now a closed-off administrative support room (104) with an exposed ceiling, two new AC units (Carrier) and an original wood telephone panel labeled "Key System." There is an original fire alarm remnant extant, along with the original tele/computer/circuit box and a Square D. Company Q.O. load center box (Cat. QO 6-12 series L5).

Maintenance and Line Equipment. The Maintenance and Line Equipment Areas, once a large room, is partitioned into seven smaller spaces. The newer T-shaped hallway that leads to the former crypto area includes a Westinghouse panel board next to a Square D Company safety switch on the south wall. The southwest room partitioned from the maintenance area includes a Westinghouse panel board next to a Square D Company safety switch on the north wall and retains original 9"-square asphalt linoleum tile flooring. The 1963 Maintenance Area (Room 109) has been portioned into four rooms, using wood frame and sheetrock to create walls. These new rooms included Rooms 110a, 110b, and two areas labeled 110c on the 2004 plan. These rooms all have new carpet and new acoustical tile ceilings. They do not retain any original fabric. The Maintenance Area originally had storage cabinets along the walls and several work benches on the floor. These have been removed.

The Line Equipment Area once contained rows of crypto and modem line equipment, main and intermediate distribution frames, benches and storage cabinets. Today this space has been divided into Rooms 104, 104a, 104b and 104c. All original equipment and fabric have been removed and replaced with acoustical tile ceiling, new carpet, sheet rock walls and fluorescent lighting.

T.C.C. Area, Fault Facility Control Area, Offices. In 1963 the west one-third of the first floor contained a large space labeled T.C.C. (Room 111), Fault Facility Control Area (Room 124) and several offices (1963 plans, Rooms 125, and 126). This area was accessed by a ramp leading up from the main Lobby (Room 127). A guard was stationed at a Sentry Counter in the lobby. The T.C.C. (meaning of abbreviation is unknown) housed rows of tape transport equipment, distribution frames and cabinets. The Fault Facility Control Area is now the Distance Learning Center. The original doors have been walled in, the raised floor removed and new doors installed. The office (1963 plans, Room 125) has been expanded to include a part of the 1963 T.C.C. Area and is also a Learning Center. The T.C.C. space has been divided into classrooms (Rooms 102, 102a, 102b, 100a, 100b, 100c, 1b and 1c on the 2004 plan). Office 126 (1963) is now Room 1a. All these rooms have new sheetrock walls, acoustical tile ceilings, carpet and fluorescent lights. No original fabric remains.

Stairways and Rooms. There are two interior stairwells; one on the west near the main lobby and one on the east near the DM Logistics Area (1963). These have concrete risers, pipe rails and concrete walls. In 1963 a series of rooms was laid out between the two stairwells along the north wall of the first floor. These included the D.O.O.C. (Room 135), D.O.O.T. (Room 132), and six spaces labeled Communications (Room 129). Today this space has been reconfigured into eight classrooms (Rooms 101, 103, 105, 106, 107, 111 113a and 113b). They are carpeted have acoustical tile ceilings, sheetrock walls and fluorescent lighting. No original fabric or equipment remain.

Projection and DM Logistics. The projection area (depicted on 1963 plans) includes a newer wall between it and the Data Display Area. The floor is original, pedestalled and is elevated three feet. The DM Logistics Area (1963 plan, Room 137) has been divided into three offices (all labeled 112b on 2004 plans) (CA-2788-A-27). This area has glass on the south wall, an angled wall, and a built-in wooden supply cabinet. The north office of "DM Logistics" (Room 112b) has a pneumatic tube apparatus and acoustical tile ceiling. At one time a map rack was present on the north wall of the DM Logistics room. It has been removed and the space has been divided into three offices (Rooms 112b). The Quads (1963 plan, Room 110) includes circuit breaker panel boards at the northeast and southeast corners of the room. The easternmost workroom on the first floor includes a Klaxon at the north wall and has a glass wall on the east side.

Off Limits Area. In 1963 the east side of the building contained the Data Display Area and several offices (1963 plan, Rooms 102, 103, 104, 105, 106 and 107). This area represents the war operations room and support and is marked "off limits" on the 2004 plan. The Data Display Area is described below following the second floor discussion.

Rooms 102 to 107 on the 1963 plans originally contained the Controllers Office (Room 102) (10' x 16'), Administration (Room 103) (12' x 16'), the D.O.C.C. (Room 104) (10' x 8'), the N.C.O.I.C (Room 106 (10' x 8'), the D.O.C. (Room 105) (10' x 8') and a second D.O.C.C. (Room 107) (10' x 8'). Data regarding meaning of the abbreviations used on the plan are not available. These rooms are all carpeted with sound-proof acoustical tile ceilings and gypsum wall board. They all have original wood veneer panel wainscoting. Mail slots are present between rooms 102 and 103. The east wall of Room 102 is glass covered with security curtains and looks out at the Data Display Area (CA-2788-A-28). A Klaxon alarm is on the north wall of this room. A Bryant Box is on the south wall of Room 104.

c. Second floor

The second floor originally had about forty-three spaces including the Senior Battlestaff area (overlooking the Display area), Conference Room, Projection Room, Commander's quarters, eight offices, three secured rooms, women's toilet and lounge, janitor's closet, men's toilet, utility room, telephone equipment area, Telco Maintenance, lounge, communication center, stenographer's room, executive director's office, corridors and vestibules (Figure 7).

Today there are about 45 spaces due to the removal or addition of partition walls to enlarge or further divide some areas (Figure 8).

Around 1966, a metal partition wall and door were installed in the Reconnaissance Secured Room (236) at the central north portion of the second floor to separate the Reconnaissance Vault from the main room. Sometime after 1966, other alterations were made, including the division of the Telco maintenance room (228) into two rooms. The west half of the Reconnaissance Vault (now room 205) was further divided to create a small room (now 205a) within the southwest corner. New east walls were added to the former D.D.O. and D.O. rooms (242 and 243 on the 1963 plans) that closed them off from the angle window wall that overlooks the display area. A hallway was created between the former conference room (1963 plan, Room 211) and the adjacent office space (1963 plan, Room 212). This office space, along with an adjacent small office (1963 plan, Room 213) and vestibule to the west were reconfigured to create three new rooms. The walls of the two small offices between the two central south-secured areas (1963 plan, Rooms 215 and 216) have been removed, leaving one large space. This space was divided in 2004 into four rooms (215, 217, 219 and 221 on the 2004 plan).

Many walls on the second floor are reinforced concrete; however, there are wood-framed walls and moveable partitions dividing some of the spaces (such as the 1963 plan, rooms 215 and 216). Wall finishes include plaster, gypsum wallboard, acoustical tile, and ceramic tile (in bathroom areas). Ceiling finishes include acoustical tile, plaster, or exposed roof framing. Floor surfaces are asphalt tiled, ceramic tiled (restroom areas) or are unfinished concrete (Janitor's closet and Utility room). Many areas include rubber tile baseboards; however, ceramic tile bases are in the restroom areas and janitor's closet. Doors are metal or wood.

Senior Battlestaff Area. The Senior Battlestaff Area (1963 plan, Room 202) measures 32' north-south by approximately 6' east-west. The space has a 10' ceiling height with acoustical tiles and has a finished floor set 2'6" lower that the rest of the second floor. It is accessed by five concrete stairs with double metal railings leading down on both the south and north. Twisted metal spindles between the west railing and floor provide a decorative element. The door at the top of the stairs on the north side has been replaced with gypsum wall board. This area is centrally set at the east end of the second floor, overlooks the Display Area, and is located directly above the first floor's 1963 Projection Area (CA-2788-A-19, CA-2788-A-26). The space is now carpeted but originally had asphalt floor tile, exposed concrete walls, angled metal-framed glass observation windows along the full length of east side of room, window walls to the north and south (each with a metal-framed glass sliding door that has a 15th Air Force emblem affixed to it), rubber tile baseboards and an acoustical tile ceiling with six recessed florescent lights and four air conditioning vents. There is a dimmer switch for the five recessed ceiling lights. The east wall has switches below the glass window with a green start and red stop buttons to control briefings. Four air/heat vents are present in the room.

The Senior Battlestaff Area was initially separated from the Conference Room (originally Room 211, now Room 218) to the west by a railing. The railing was eventually replaced with a full height gypsum board wall with windows and security curtains were installed along the wall; the glass windows were removed in more recent years and the openings infilled with sheetrock/gypsum wallboard. The curtains remain along the west wall and are controlled by an automatic "Open Sesame Drapery Controller" made by Automatic Drapery Controls, Santa Monica, CA.

Conference Room. The Conference Room (Room 211 in 1963; Room 218 on 2004 Plans) (CA-2788-A-34) measures about 28' east-west x 31' north-south and has 9'-high ceilings. This room is also referred to as the Senior Staff Briefing Room. The room once had asphalt tile-surfaced flooring but is now carpeted. It has gypsum wallboard-surfaced walls with modern (ca. 1981) wood panel wainscoting on the west wall, rubber baseboards, and a modern acoustical tile suspended ceiling with recessed florescent lighting. Originally the north portions of the west wall were gypsum covered with corkboard. This space includes a projection room and the former area used as a corridor. The room originally had an accordion partition that separated the Conference Room from the Senior Battlestaff Area, forming an approximately 5'-wide corridor (see 1963 plans). The accordion partition has been removed. The small Projection Room is on the south side of the Conference Room and is described below.

Doors associated with the Conference Room are a newer hollow metal door at the south and the north side and a original fire insulated steel vault door with a combination lock at the west side of the room. There is a plaque on the door that reads "THE MOSLER SAFE CO./FACTORIES Hamilton, Ohio/Underwriters./Laboratories, Inc./Inspected Vault Door/Fire Classification 2 HR/With Relocking Device/No 1022." There is a track light island on the east wall. On the north wall is a mounted 8" x 5" metal box that is labeled "COMMAND POST BRIEFING SYSTEM" and has a volume knob; a Klaxon light signal, two dimmer switches (for lighting); and a protruding concrete beam with a communicator board mounted to it. A "BRYANT" electrical panelboard is attached to the exterior north wall of the Conference Room.

Projection Room. The second floor's Projection Room is within the Conference Room and measures about 5' north-south x 18' east-west (CA-2788-A-34). The room has asphalt tile surfaced floors, wood-framed wall with gypsum wallboard surfacing, and a suspended acoustical tile ceiling with recessed florescent lighting. The room is accessed through a wood door at the east wall and a two-riser-high-wood stair just inside of the doorway. The north wall includes an approximately 10'-long x 4'-high frosted glass screen that is covered at the exterior (Conference Room-facing side) by fabric curtains operated by "Action/Drapery Control/Model DAIR/115 VAC 60 cycle lamp." Furnishings and equipment inside the room include a built-in table (with a mirror, briefing amplifier and external speaker) and parts for a pneumatic "Transitube" (by Glover); the original location of the pneumatic tube system within

the Conference or Projection Room is unknown. The Projection Room used a 45-degree angled mirror to reflect the image onto the frosted screen.

Commander's Quarters. The Commander's Quarters' are located adjacent to the south side of the Conference Room and overlook the Data Display Area to the east (CA-2788-A-35, CA-2788-A-36). This area is labeled "Off Limits Area" on the 2004 plans. The space measures approximately 15' east-west by 20' north-south overall with a 9'-high ceiling height. The space includes a small hall, a bedroom (1963, Room 205 [north end]), a bathroom (central), and an office/private conference room (1963, Room 202 [south end]). The hall, approximately 10'-square bedroom and 15' x 13' office have original asphalt-tiled flooring, original gypsum wallboard-surfaced walls, and newer suspended acoustical tile ceilings with recessed florescent light panels. The east wall of the hall and office area includes two large glass observation windows. The office area includes an original closet at the north wall with a door in north wall, a wooden shelf and an original light pine-veneered back wall (CA-2788-A-35).

The approximately 7'6"-square bathroom (CA-2788-A-36) includes plaster walls and ceiling and ceramic tile wainscoting and flooring. All are original. The main wainscoting is approximately 4' high, while the inside of the built-in shower stall has ceramic tile walls to 6'4". Wall tiles, including for the shower stall, are 4"-square ceramic tiles glazed in a cream color with brown speckles. The floors, including the shower stall, have 1"-square ceramic tiles glazed in brown and cream colors. There is a metal drain centered in the bathroom floor. The shower stall includes a Speckman-Kent-brand turn-valve for the shower head and a inset soap holder. There is a square porcelain wall-mounted sink on the north wall with associated wall-mounted chrome shelf, toothbrush holder, soap dish and towel rack and a mirrored medicine cabinet. A porcelain Standard-brand toilet is set at the south wall. A mirror is mounted on wall above the toilet. The bathroom ceiling includes hanging two-tube florescent light fixtures and a heat vent on the ceiling.

The entryway (CA-2788-A-36) into the bathroom has floor, wall and ceiling finishes like the hall, bedroom and office. It includes an original built-in wooden linen storage unit at the south wall that shares the light pine back wall of the office closet. The storage unit has a formica counter top, two drawers and two cabinet doors beneath the counter and three wooden shelves above the counter. Near the linen closet is a light switch with a red Klaxon light signal.

Secured Rooms. The "DOP" and "DI" Secured Room (1963 Room 215) and westernmost Secured Room (1963 plan, Room 216) (CA-2788-A-31) together take up a space along the south side of the building plan that measures about 105' east-west x 30' north-south and has a 12' ceiling height. The meaning of DOP and DI is not known. The area is adjacent to the west side of the Commander's Quarters. Originally, the 68' x 30' DOP and DI Secured Room and 37' x 30' westernmost Secured Room were divided by a wood-framed wall (north) and an accordion partition (south); to the east of the framed wall, the DOP/DI Secured Room included a small office created by moveable partition walls. The partition wall, accordion door and two

offices were removed from the space in more recent years. Two north-south aligned wood-framed partitions covered with sheetrock within this open secured area were added very recently as part of a renovation project (CA-2788-A-31). As evident on the 2004 plans, this space now includes four rooms used for classrooms (Rooms 215, 221) and administration (Rooms 217, 219).

The original space included asphalt tile flooring (9" grey and cream tiles), acoustical tile-surfaced walls to the east and north, gypsum wallboard to the west and south, and the remaining metal framing from an original acoustical tile drop ceiling. The area is now carpeted and new acoustical tiles installed. There are three original tracks of east-west aligned hanging florescent tube lights; each track includes at least twenty-four pairs of light fixtures. Original plans show sliding map racks along the entire south wall. There were 10 tracks for sliding map racks. Each rack had rubber bumper and pull handles on the leading edge. A typical rack is 17' long and 12' high. Each end of the rack row had a 17' x 6" security drape track. The racks are mounted vertically and have one-inch nylon wheels that roll them in guide tracks, a "Richard Wilcox" brand trolley. Floor and ceiling track guides are made of aluminum. Ceiling tracks remain in place across the length of the room; however only three map panels remain in the DOP room (current room 215 and a portion of 217).

There are three murals painted on the south wall of the room (within the original DOP and DI secured area (CA-2788-A-31). The date of the murals and artist are unknown. It is also unknown why the murals are in these secured rooms. Original function of these rooms was classified and is still unknown.

The east mural (CA-2788-A-32) is black and white, appears to date to the 1960s, and includes a pilot's face at the lower east corner, airplanes (including a large bomber) in the upper portion, and a world map at the lower west corner within a painted outlined box. The center mural (Figure 9) is smaller than the east and west murals and includes a circular area with a nuclear missile, a yellow "bolt" and "15 AIR FORCE" within/over; two airplanes are depicted above the circular area and "OPERATIONS PLANS" is printed below. This mural is in color and appears to post-date the other two. The west mural (CA-2788-A-33) is also black and white, dates to the 1960s and is within a painted box. It depicts a pilot with oxygen mask in the lower west corner, Air Force wings in the lower east corner, and airplanes above.

There is a 4' x 3' x approximately 4"-deep (typical measurement) Bryant Electric Company-brand telephone communicator cable box on the east wall. The north wall includes a similar Bryant box as well as a Westinghouse-brand circuit breaker box with auto trip panel board #AF852825.

D.D.O. Area. Immediately north of the Conference Room are a vestibule (to the east) and a small corridor (to the west). Finishes in these areas include original gypsum wallboard and suspended acoustical tile ceilings. The vestibule includes a circuit breaker and a typical Bryant Electric Company-brand telephone box. The eastern portion of the original vestibule space

was partitioned in more recent years to become a closet for the DDO to the north; this section of the vestibule originally provided access to the north entry of the Senior Battlestaff Area. In 2004 the doors between the vestibule and corridor were removed, creating an open hallway.

Four offices are located north of the corridor/vestibule in an irregularly-shaped large space. The 1963 plans uses initials to characterize functions of these spaces. Data are not available to translate these initials (DDO, DO) into use. The space is approximately 38' east-west x 23' north-south with a diagonal east wall and is divided into four smaller rooms (DDO [1963 plan, Room 242] DO 1963 plan, Room 243, Stenographer [1963 plan, Room 241] and Executive Director [1963 plan, Room 241]) with moveable partition walls and hollow metal doors. Original finishes in the spaces included asphalt floor tile, gypsum wallboard and moveable partitions, rubber tile bases, and acoustical tile ceilings. The two eastern offices – DDO and DO – originally included windows on the diagonal eastern wall that overlooked the Data Display Room. These spaces have been renovated and today include carpeted floors, wallpaper and wooden chair rails, and suspended acoustical tile ceilings with recessed florescent lights. The diagonal east wall (with windows) of the DDO and DO still exists; however, modern partition walls have closed off access to the observation windows and the DDO and DO are now rectangular rooms. Today the original rooms are offices and are numbered 213 (originally DDO), 211b (originally DO), 211 (originally Stenographer) and 211a (originally Executive Director).

The corridor outside the DDO and DO offices once contained a sentry counter. The wall between the corridor and stenographer space has a two-way mirror, mail slot, doorbell to allow the sentry or other visitors to buzz the workers and pass documents through the slot (CA-2788-A-29). A pneumatic tube message carrier was once present in the room. Apparently, these four rooms were top secret, guarded 24/7 and involved cryptography and language translations.

Telco Maintenance (portion of). This space (1963 plans, Room 228) has original acoustical tile ceiling, two-tube suspended florescent lights, metal doors (with metal kick plate), and nine-inch-square grey with white speckle asphalt tile linoleum flooring (CA-2788-A-38). An air handling duct traverses the center of the ceiling. The exterior wall is concrete and the top third has 1'-square acoustical tiles. The other walls are partitions. This space includes the entry to the telephone equipment room. There is a panel board made by Square D Company on the north wall (Type NQD dated May 1964 with six breakers that are all labeled Western Union). A small office space (2004, "Off Limits Area") partitioned from the original Telco Maintenance has hanging florescent two-tube light fixtures, gray 9"-square asphalt tile flooring and acoustical tile ceiling. The 1963 Room 230 has been expanded south and west to form the 2004 Office 202. The southern expansion incorporated a portion of the original Telco Maintenance Area.

Telephone Equipment. This space is labeled Room 227 on the 1963 plans and as "Off Limits Area" in 2004. It housed the communication equipment necessary for the operation of the

SAC. This space has a combination of original acoustical tile and open ceiling, single tube florescent lighting (three rows), metal doors, and 9"-square grey asphalt tile flooring (CA-2788-A-39 through A-44). All work spaces equipment, furnishings and fabric are original. The west side of the room includes a cabinet at the north end that creates a small workspace, three and four-drawer file cabinets that contain circuit drawings, a work table, and wood ladders with wheels that connect to and roll along a ceiling track (Putnam Rolling Ladder Co., NY.) (CA-2788-A-40). All are original features of the room. There is also a box mounted on a ceiling-mounted I-beam that is 2' long x 1' wide x 6" deep with three rows of seven protruding warning lights for system failures, fuses, alarm failure, microwave, etc. There is a wiring repair area with a two-sided, long communication tool with rows of wires connected to pin boards, a humidifier/air dryer labeled "PUREGAS EQUIP. CORP./COPIAGUE, NY 14 AMP 115/1/60. GENERAL ELECTRIC CONTROL ON/OFF SWITCH. THREE GAUGES FOR TANK TEMP, OUTLET PRESSURE AND TANK PRESSURE," and three spools with wire mounted on the ceiling to service the communications system (CA-2788-A-43). On the west wall there is a Westinghouse "Lifeline" Circuit Breaker Type ABI and a Square D Company panel board (Type NQOB).

The east side of the room on the north wall includes original wall-mounted above waist-high work tables, one with a locked pull out drawer under it and with slots for paperwork (CA-2788-A-39). There is a switchboard operator workspace that contains hundreds of jack holes for communications connections. There is also a circular three-shelf "Lazy Susan" that is shoulder high and 4' in diameter between two worktables along the wall that has eight panels. The two panels to the east contain circuits for "Operation Looking Glass" (CA-2788-A-44); the six panels to the west include switchboards and work station desks (two with drawers). There are nine free-standing panel boards forming channel terminal aisles with vacuum tubes (CA-2788-A-42); a row of five to the west and a row of four to the east. Of the west panels, the northernmost has a Crypto/Teletype low-level keying, Loop pad panel, 43A1 Carrichan Term panels (Channel terminals), circuits, Sub-cycle Static Frequency Converter and Control panel by Lorain Product Corp. The next panel has Tellabs line amplifiers, signally set, terminating set modules and Altec telephone repeater panels with amplifiers, terminals, signal converters. The next panel includes Altec and primary alert systems and next panel has primary alert systems, UNI, QUINBAR receivers, amp and trans panel and CRZ Tranceiver panel and Western Electric Line Distribution amplifier.

The southernmost panel contains circuits and some empty panels. East panels: the northernmost east panel has a Hotline circuit board and transformer, 1988 installed "Music on Hold" line cards and power box, a dial signal board, Fondex Adaptor panel, Altec telephone repeater panel. The next panel has 1988 GTE power distribution, switched access system boxes, power supply box for SAC equipment (Elgin Electronics Model ER 15620-23R, and a Touchtone Dial panel). The next panel has a S.T.N. I.B.M. switch panel, two Battlestaff phone amplifiers, trans., etc. The southernmost panel has a Lorain Power Board Model 1243A Serial 292 (Lorain Products Corporation, Lorain, Ohio USA" - board has gauges,

battery, amp volt indicators, load indicators. Along the east wall are two Bryant telephone boxes.

The southeast corner of the room is separated by a wood wall partition and contains a clock, corkboard, desk, bookshelves and a table (CA-2788-A-41). This area contains over fifty reference manuals.

Former offices, Communications Center Utility Rooms. The 1963 plan depict a series of offices on the second floor lining the main corridor on the north side of the building. These have been renumbered and are used primarily for classrooms. They include original Communications Center Room 231 (now Rooms 200, 200a), Offices 223, 234 238, 212, 213, 226 and 226a (now [in order listed above] Rooms 201, 203, 209, 220, 206, 222, 225 and 223) and Utility Room 223, (now Telecom Room 210). These have new acoustical tile ceilings, sheetrock walls and two-tube fluorescent lights. The office walls are now covered with wallpaper. Original linoleum floors have been carpeted. Current Room 200a has a Bryant-brand telephone box. Current Room 225 has new two-tube hanging lights, while the wallpaper, carpet and baseboards have all been removed. There is no door. Current Room 223 has a ceiling-mounted hung two-tube florescent light fixture and has been stripped down like Room 225. Room 201 – south wall door – there is no doorknob from the hall; exit is only from a push bar inside of the room.

A small east wall adjacent to west end stairwell landing near Room 201 has a steel ladder that leads to a rooftop scuttle entryway.

There is a wood door between offices 201 and 203 (2004 plans) just east of the west end stairwell. Both rooms have recessed roof vents. Room 203 once had a double door entry to the hall. The doors are gone and the space infilled, but the metal door frame is still there. The north wall of Room 207 has a metal door frame, but no door.

Room 220/222 was the former south half of a large office (1963 plan, Room 212) adjacent to the Conference Room. This space now has an acoustical tile ceiling with recessed fluorescent lighting. The doors have been removed but the door frames are metal. The floor is an original pedestal floor raised eight to nine inches above main floor. The south wall of 220 has a Square D Company circuit breaker box and a QO Load Center used for clocks, TV, SACDIN.

Room 208 – This space is the south half of the original 1963 office spaces 212 and Room 213. It has its original acoustical tile ceiling, rectangular two-tube recessed fluorescent lights, air conditioning vents and floor covering of 9" grey/cream asphalt tiles.

Lounge and Standard Bedroom. In 1963 a bedroom and lounge (then Rooms 229 and 230) were located immediately across from the west stairwell. These are now Rooms 202 and 204. The bedroom (now 202) was enlarged to the west (taking a part of the Telephone Equipment

Room) and south (incorporating a section of the Telco Maintenance Room). Room 202 has an original metal door on the east wall that once connected it to the lounge (now Room 204) (if the door is opened it reveals that the door opening has been infilled with gypsum wallboard). These rooms have new carpet, lighting and ceilings and have been converted into office space.

Rooms 205, 205a. These are in the Former west half of Recon Secured Room 236 (1963). This space has original acoustical tile ceiling, recessed two-tube florescent lighting and a newly carpeted floor. There is a wood door that is four and a half by three feet that opens to electrical communications equipment and a box labeled "Bell System/Made by Western Electric." There is a secured wood door with a two-way peephole. An instruction sign on the exterior reads, "ANNOUNCE//S&G" and has a push button doorbell and coded push button entry. The bell and code are hooked to a Sargent & Greenleaf Inc. Alarm Box wired with electricity for code sequence operation. It is equipped with a Condor Plug In Class 2 Transformer. There is a fire vault door (Mosler) with a combination lock for entry into Room 205 from the hall and a push handle to exit the room. The security features are original.

In this space (now Room 205a) is a protruding panel/equipment box with a wood panel door. The left side has two vertical square tubes labeled "Filtron/RF Interference Filter" (Filtron Co., Inc., Flushing NY, Culver City, California). The middle includes a Circuit Breaker Panel board by Square D. Co. with lock. There are also briefing room outlets and lights. A recessed shelf has a speaker connected to Room 205.

Room 207. Room 207 is in the former east half of Recon Secured Room (1963 plans, Room 236)- This room has a new acoustical tile ceiling with recessed fluorescent lights, original metal doors, and a carpeted floor over the original gray/cream nine-inch tiles, which are visible under the sliding doors. There are large recessed vents in the ceiling. There are four track lights mounted to a slide bar on the ceiling. The southeast side of room looks like a wall but is hollow with an interior ceiling and floor tracks to allow for sliding panels. The southwest side has a ceiling and floor tracks for ten original sliding framed cork-covered panels - each has a handle for pulling (CA-2788-A-37). The main wall behind the sliding panels is surfaced with a wood-framed cork board. Exterior doors are missing but were probably vault-type keyed secure doors. The ceiling above the sliding doors slants up and is lighted to shine on the sliding panels. On the wall is a bank of dimmer switches.

Utility/Telecom Duct Room. This room was originally Room 223, is now Room 210 and contained cooling equipment for the telephone communications room. All lights have been removed from this room and there are metal double doors with a metal threshold. This room has concrete walls and steel barred openings on top that appear to be large air conditioning vents and may have been designed to keep the communications room equipment cool. It originally had huge AC ducts coming up through the holes in the floor and air was forced through the holes on top (CA-2788-A-46).

Men's Room. This room (now Room 212) has a plaster ceiling with suspended two-tube fluorescent lights, a 1"-square yellow and cream ceramic tile floor and yellow painted plaster walls with 4"-square yellow ceramic tile surfacing wainscoting on the lower half of wall. There are five toilet stalls with metal partitions along the east wall with Standard-brand porcelain toilets, three porcelain Standard wall-hung urinals, five porcelain wall-mounted sinks with a mirror, bracket-mounted shelf, and central soap dish arrangement above. The soap dispensers are American Dispenser Co., Inc./POWDURN/New York Pat 2358913 and there are two paper towel dispensers at the southwest corner. The bathroom entry doors are metal swing-type with louvered vents at the bottom. All doors, fixtures and fabric are original.

Inside of the entry to the Men's Room is a switch with a red light indicator. Just outside the men's bathroom is a Sunroc-brand freestanding drinking fountain and just east of the fountain is a double-door-sized electric communications panel with wiring. The janitor's closet has a concrete floor, original cast iron sink and original three shelves above the sink.

Women's Room. The entry/lounge area of current Room 216 walls are plastered and the floor is 9"-square grey/cream asphalt tile flooring (CA-2788-A-45). The lounge includes a twin-size bed. The toilet area flooring is 1"-square ceramic tiles in white, yellow, green, blue, pink and grey. The toilet area includes a wall-mounted garbage container on the east wall, a paper towel dispenser on the south wall, a wall-mounted sink with mirror, a soap dish and shelf and a Standard toilet. There is 4"-square light blue ceramic tile wainscoting in the bath, while the upper half of the wall is sheetrock painted yellow to match the stall. Lighting throughout is suspended two-tube fluorescent light fixtures. All fabric doors and fixtures appear original.

In the hall just outside Office 211 is a circuit box (Westinghouse/panel board by Westinghouse Electric Corp., Sunnyvale, CA) for the west end rooms. The corridor to the east side of the south secured area (near Room 218) includes two Westinghouse-brand circuit breakers that are for rooms in that area of the building (CA-2788-A-30).

d. Data Display Area:

The Data Display Area is the most distinctive room of Building 2605, being the major 2 and 1/2-story height space within the eastern portion of the building (CA-2788-A-16). This space differs from the rest of the building in that it has a sunken floor that extends approximately 4' below grade and does not include a basement below. The east wall of the display area is 1'4" thick and is founded on a 5'6"-wide footings and the north and south walls that are 1'2" thick with 3'6"-wide footings. The 1'-thick west wall is the same as the east basement wall that is described below; the west edge of the display area's concrete slab base floor includes a footing that is approximately 1'-wide.

The interior measurements of the display area are 19'10" north-south x 36'9" east-west with a ceiling height of 26' (from finished floor to finished ceiling). There is an approximately 4'-high space between the roof framing and finished ceiling of this space that includes

catwalks. The suspended ceiling is surfaced with acoustical tile and includes recessed and hanging (two-tube) florescent light fixtures and four vents (near the Senior Battlestaff area). The walls are surfaced with gypsum wallboard and include rubber tile bases. The finished floor is a typical raised pedestal floor (described above) that is raised one foot above the 6"-thick concrete slab below. Rectangular openings in the floor allowed for mechanical/electrical equipment connections beneath the floor (CA-2788-A-17).

The west wall includes two levels of windowed observation areas associated with the DM Logistics Room and Controller's Room at the first floor and the central Senior Battlestaff Area, Commander's Quarters and DDO/DO areas at the second floor (CA-2788-A-17-20). The first floor projection area (below the Senior Battlestaff area) has four large and several smaller rectangular openings that were for film and transparency projection (CA-2788-A-19). The large openings have wooden doors (with projection holes) that slide on tracks and bracketed wooden shelves.

The west wall includes two entryways (with five-riser stairs) leading to the rest of the first floor and two metal doors (entered from stairways) to the second floor. The entryways/doors are located to the north and south of the Senior Battlestaff/projection area. The door to the north side of mezzanine has been removed and sheet-rocked, but the stair is still there. Original plans do not depict the extant second story doors, only hallway entries. The southern second story door is accessed from the display area by a concrete stairway (CA-2788-A-17) that includes 2"-diameter metal pipe railings; there is an initial six-riser stair up to a half-turn landing, then an 18-riser stair along the south wall that extends up to a 16' landing (along the west wall), then a 5-riser stair up to a 3'-square landing (entry to door at west wall), and finally a 5-riser stair that extends downward to the side entry to the Senior Battlestaff Area that projects into the display area. The northern second floor door and five-riser stairway (with 3'-square landing) provides access between the Senior Battlestaff Area and typical second floor level only (CA-2788-A-20). The stairway railings at the second story level include twisted metal spindles at their lower halves; the spindles were installed in 1966 (CA-2788-A-17, CA-2788-A-18, CA-2788-A-20).

There are four single-story partitioned rooms within the Display Area. Video Input Room/TV Controller Room at the southeast corner is an original space that measures 9'10" north-south x 12'6" east-west (CA-2788-A-14). It has wood-framed, gypsum wallboard-surfaced walls (with rubber tile bases) and ceiling and a one-foot-high pedestal floor. There is a doorway on the west wall of this space; original plans depict the opening as having a hollow metal door with glazing at its upper portion. There is an Executone volume control box on the north exterior wall of this space.

At the north end of the display area is an original Classified Storage Area with an added Electrical Equipment Room to the south (CA-2788-A-15). The Classified Storage Area is at the northeast corner of the display area and measures 9'10" north-south x 12'6" east-west. It has wood-framed, gypsum wallboard-surfaced walls (with rubber tile bases) and ceiling and a

carpeted floor (originally asphalt tile-surfaced); this space does not have pedestal flooring and was entered from the display area through a hollow metal door and an interior two-riser stair. The Electrical Equipment Room (with linoleum flooring) was added in 1971 and is entered through a modern accordion door in the Classified Storage Area, which is entered from a doorway accessed from the Display Area (CA-2788-A-25).

Extant furnishings/equipment within the main display area space include metal consoles (CA-2788-A-21, CA-2788-A-23, CA-2788-A-24) with drawers, cabinets (doors removed), wood veneered top portions, original primary and secondary alert panels for all SAC posts, control buttons and knobs, including those for a Klaxon signal system; a Simplex time recorder clock, pneumatic transit tube equipment, a closet, and an angled mirror (to view control panels from anywhere in the room) (CA-2788A-22) located beneath the projection area openings; a Square D Company main breaker box and a TV Room on/off switch affixed to the east wall; a Fil-Coil Co. breaker box on south wall (actually on the stairway wall; and a ceiling-mounted status board located centrally along the east wall (CA-2788-A-16). The metal consoles are labeled on original plans at "Controller Console Battle Staff." A second row of consoles was situated east of the main console and was used as the Support Battle Staff Console.

Originally there were four display projector screens placed in an arch arrangement along the east wall of the display area, two on either side of the status board. Images would be projected onto the screens from the projection area. The screens have been removed from the building. The status board dominates the ceiling and is the primary object viewed from the Senior Battlestaff Observation area. The status board relates DEFCON status, Local and Zulu time, Posture and CD and SAC ratings. Numbers and clock boards lit up as appropriate.

2. Stairways:

The north side of the building has two concrete-walled stairwells, one at the east end (No. 1 on 2004 plan) and one at the west end, (No. 2 on 2004 plan) that each extend from the basement level to the second floor. The stairwells have eight-inch-thick walls and are designed to accept two sets of half-turn concrete stairs, one between the basement and first floor and one between the first and second floors. However, the west end stairwell (No. 2) only includes one half-turn stair that provides access between the first and second floors; the basement level of the west stairwell space does not include stairs and includes two doorways, the east doorway is infilled with brick and the west doorway at present is open.

The staircase that connects the Data Display Area to the Senior Battlestaff and Commander's area (No. 3 on 2004 plans) consists of cantilevered concrete stairs with rubber tile base, cut to fit treads and a two-inch-diameter welded aluminum pipe handrail and posts (CA-2788-A-14, A-17).

3: Flooring:

Typical original elements of the Building 2605's interior include concrete floor framing (including approximately 6"-thick reinforced concrete slab base flooring); flooring surfaces of exposed concrete (closet/utility areas), asphalt tile (most offices and secured areas), ceramic tile (restroom areas), rubber tile or raised pedestal floors (Data Display Area, Communications Area). Much of the asphalt tile has been covered with carpet within the last 20 years.

Raised pedestal flooring (sometimes called an access flooring system) is located in the display area and some rooms in the basement level and first floor. The space under the raised floor apparently was used to cover installation of electrical conduit, junction boxes, computer cables and communications systems. The floors are raised to differing levels, depending on the room, between 7" and 3'. The floors are raised on adjustable pedestals, each having a metal plate base that is glued to the concrete slab floor below. The pedestals support aluminum channel framing onto which removable aluminum panels are set. Each aluminum panel is approximately 2' square and 1/2" thick.

4. Wall and Ceiling Finishes:

The walls are concrete, wood-framed, or moveable partitions, many surfaced with acoustical tile, plaster, gypsum wallboard or ceramic tile (mainly restroom areas). The stairways are plaster on concrete. Some rooms have soundproof movable partitions and others have standard partitions. Secured rooms, such as the communications center and reconnaissance secured room were given an acoustical wall treatment.

Ceilings have exposed framing or are surfaced with gypsum wallboard, plaster or acoustical tile. Utility and work rooms (such as telephone equipment) have exposed ceilings. Bathrooms, vestibule stairs and closets are all plaster ceilings. The remainder of the rooms have a suspended acoustical treatment.

5: Openings:

a. Doorways: Original doors include hollow metal doors and solid core wood doors. Metal doors may include single light glazing, louvers (restrooms), or metal kick plates and a peephole. Wood doors may include single light glazing and/or metal kick plates.

Most doors are hollow metal. Doors with a 100-square-inch vision glass with wire are used in stairwells and secured areas. Restroom doors are hollow metal with a louver at the bottom. Other doors are hollow metal with the upper half of the door consisting of 1/4" thick plate glass, solid double doors or hollow core wood covered with sheet metal. The front door was aluminum with a panic bar and side light. The record and tape vault room had solid steel vault door with a two-hour times. The basement has a roll-up chain operated door. Most doors are 7' to 8'-feet high and 2.5' to 3.5' wide.

6. Decorative Trim: The building has black rubber tile baseboards and a few rooms have wood paneled wainscoting.

7. Hardware: Interior door hardware consists of standard metal knobs.

8. Mechanical Equipment:

a. Heating: The building had a central heating system.

b. Kitchen Appliances: None.

c. Ventilation: Self-contained air conditioning fan systems provided ventilation.
d. Lighting: Florescent light fixtures are typical and are recessed within an acoustical tile ceiling system or are hanging fixtures. The display room had incandescent 150-watt bulbs on tracks. The Battlestaff Room had the same but with several fifteen watt emergency lights on a separate power circuit.

e. Plumbing: The bathrooms all contain original wall-mounted sinks with chrome fauctets and urinals and floor mounted toilets. Additional bathroom fixtures include chrome towel bars, toothbrush and soap holders, shelves, mirrors, wall-mounted garbage cans, and chrome toilet paper holders.

9. Original Furnishings:

Original furnishings are few but include shelves, work benches in the telephone room, file cabinets, consoles, built-in linen closet in the Commander's quarters, and cabinets.

D. Site:

Building 2605 – also known as the Combat Operations Center (COC) – is located on the east side of palm tree-lined Riverside Drive (CA-2788-A-1), approximately 500 feet north of the Riverside Drive/Escholtzia Avenue intersection within March Air Force Base. The building is accessed from an asphalt-paved arched driveway; the west side of the driveway includes an alignment of palm trees (CA-2788-A-1, A-2).

a. General Setting and Orientation: The building is oriented east/west with a front entry on the north façade. It is within a military base but is surrounded by trees and lawn.

b. Historical Landscape Design: The building is surrounded by grass lawn, small ornamental trees, and three Italian cypress trees at the north side (CA-2788-A-3-11). Ornamental trees flank the main entry at the north side of the building. The grassy area between the south side of Building 2605 and Escholtzia Avenue is enclosed with chain-link fencing. Building 2606

(COC Utility Building), along with associated diesel and chilled water tanks, is located east of Building 2605 (CA-2788-A-8).

c. Accessory Buildings:

The utility building 2606 contains the generators and equipment needed to keep Building 2605 operating as a self-sustained unit and has an attached transformer station. It is recorded as HABS No. CA-2788-B. An air conditioning cooling tower is also an accessory building associated with 2605 and has been assigned HABS No. CA-2788-C.

PART III. Sources:

A. Architectural Drawings:

Over 200 original architectural drawings, either ink on linen or pencil on paper are available for Building 2605 and 2606. These include floor plans, mechanical, electrical and plumbing detail, landscaping, equipment locations, and other data. Plans reflect the early design of the building and subsequent modifications. They are on file at the 63D RRC Los Alamitos facility map room and at the Air Force BRAC office at the former McClellan Air Force Base, Sacramento. A catalog of the plans has been submitted as supplemental data with this HABS form.

B. Historic Maps and Views:

Not Applicable

C. Interviews

George Gricius, conference call phone interview, May 14, 2003, with Mary L. Maniery and Cindy Baker, PAR Environmental Services, Inc.

D. Bibliography

Harley, R. *The Heritage of Fifteenth Air Force: 1943-1980,* 1980. Directorate of Public Affairs, Headquarters Fifteenth Air Force, March Air Force Base, California.

Mikesell, Stephen, and Stephen Wee (JRP Historical Consulting) *National Register of Historic Places Registration Form for March Field Historic District,* 1992. JRP Historical Consulting Services. On file, United States Department of the Interior, National Park Service, Washington, D. C.

Manley, Wm. Consulting, and Earth Tech. Historic Building Inventory and Evaluation: March Air Force Base, Riverside County, California, 1995. On file, United

States Department of the Air Force, Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas.

PART IV. PROJECT INFORMATION:

The 63D RRC is leasing this facility from the United States Air Force and is the responsible agency for Section 106 compliance. Prior to remodeling non-significant portions of the building for use as a training center, the 63D RRC developed a Finding of No Adverse Effect pursuant to 36 CFR Part 800, and regulations implementing Section 106 of the National Historic Preservation Act (16 U.S.C. 470f). The State Historic Preservation Officer in 2001, Dr. Knox Mellon, concurred with the Finding of No Adverse Effect (FNAE) in a letter dated October 3, 2001. While the FNAE did not require a HABS recordation of the building, the 63D RRC has voluntarily prepared this HABS as a means of documenting the condition of the building prior to remodeling efforts and prior to blocking access to the significant Combat Operations Center portion of the building.

Prepared By: This report was prepared by Mary L. Maniery, Cultural Resources Specialist, and Cindy Baker, Senior Historian, both with PAR Environmental Services, Inc., Sacramento, California. Photography and the associated photographic index were prepared by David DeVries, Mesa Technical, Berkeley, California.

Submitted By: 63D RRC U.S. Army Regional Readiness Command Headquarters, 4235 Yorktown Avenue, Los Alamitos, CA 90720-5002

Inventory Date: March 2004 (updated October 2006)

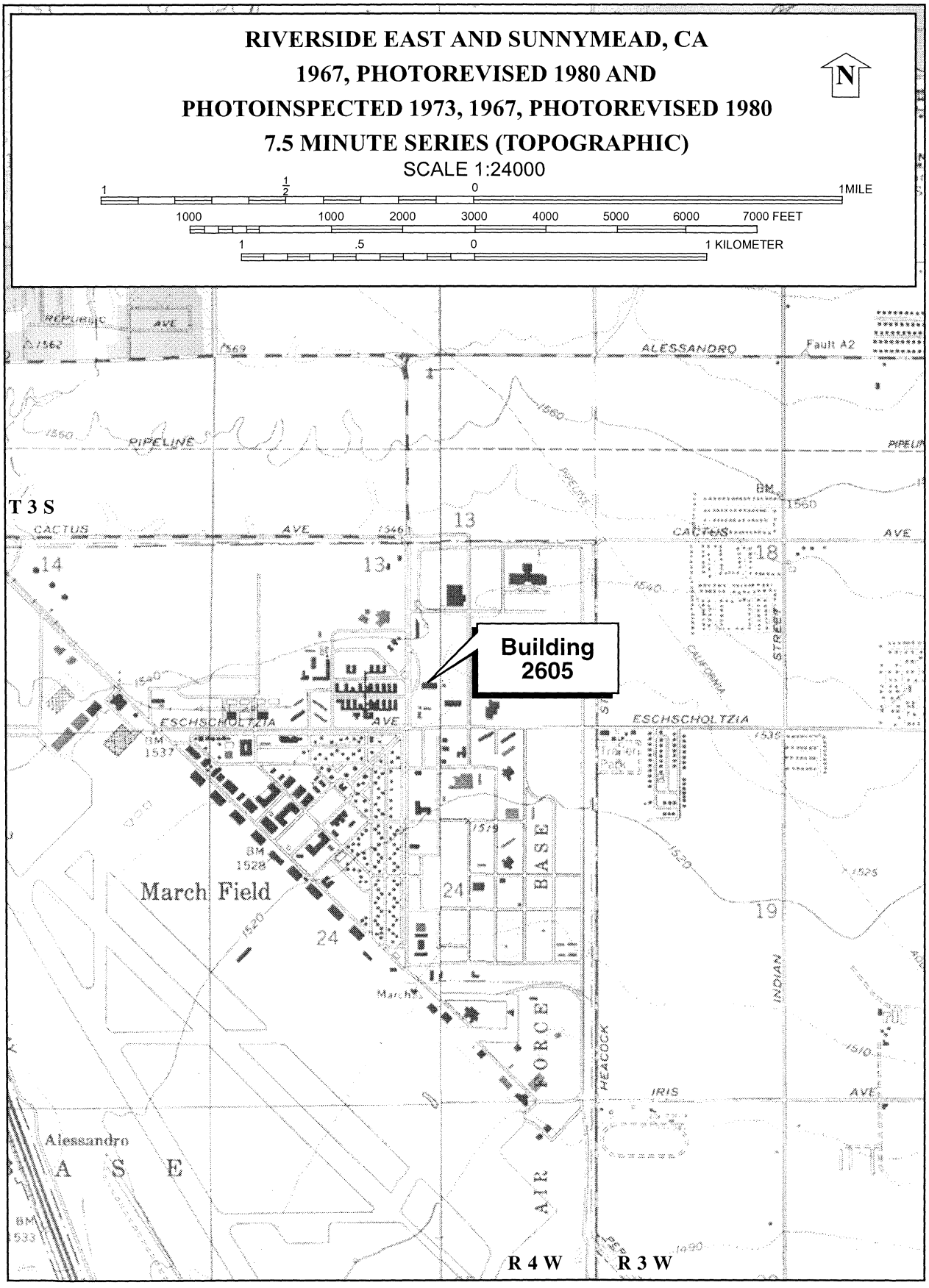


Figure 1. United States Army Reserve, March Air Force Base, Building 2605 Location Map

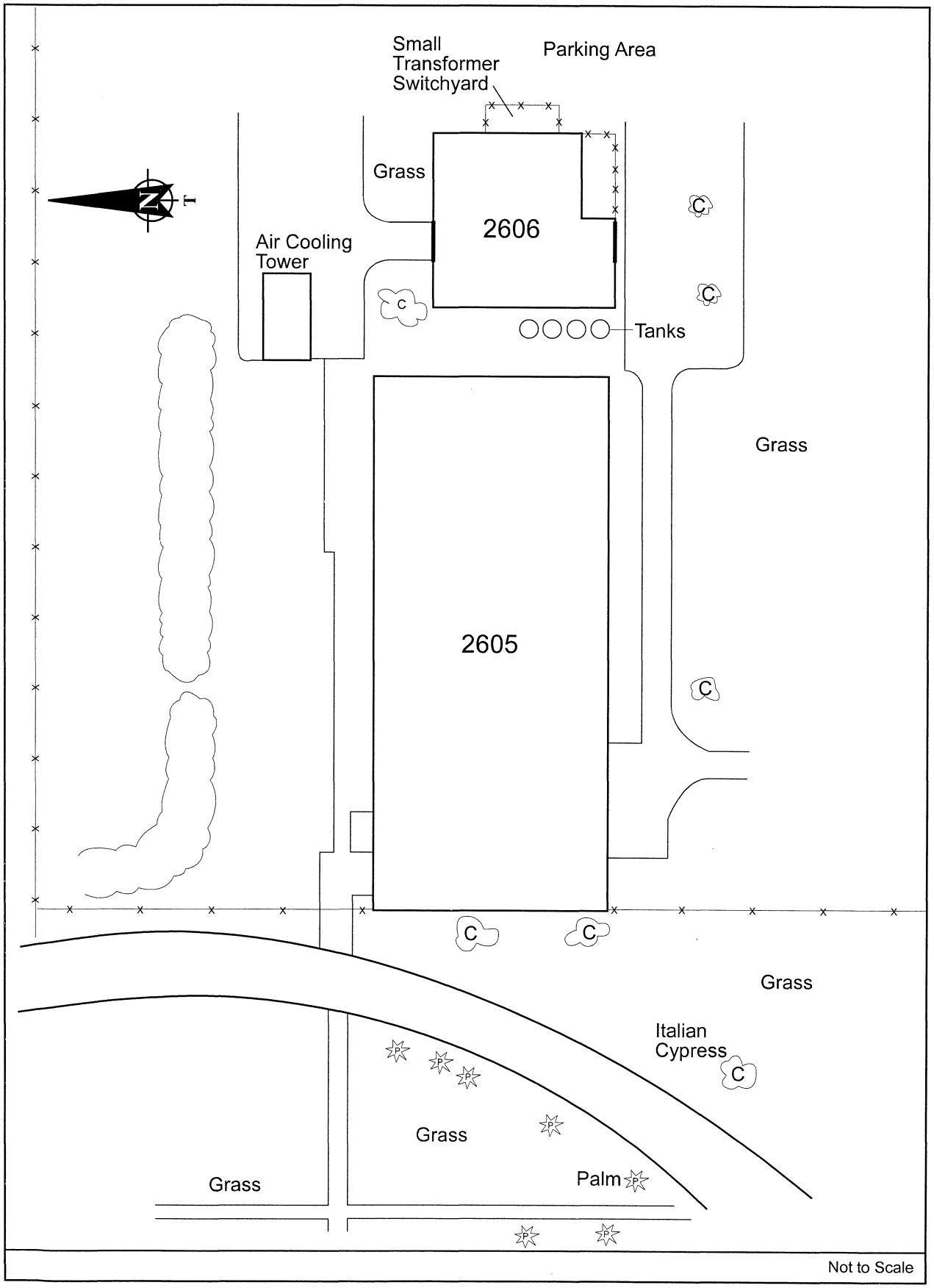


Figure 2. United States Army Reserve, March Air Force Base Site Plan, Building 2605

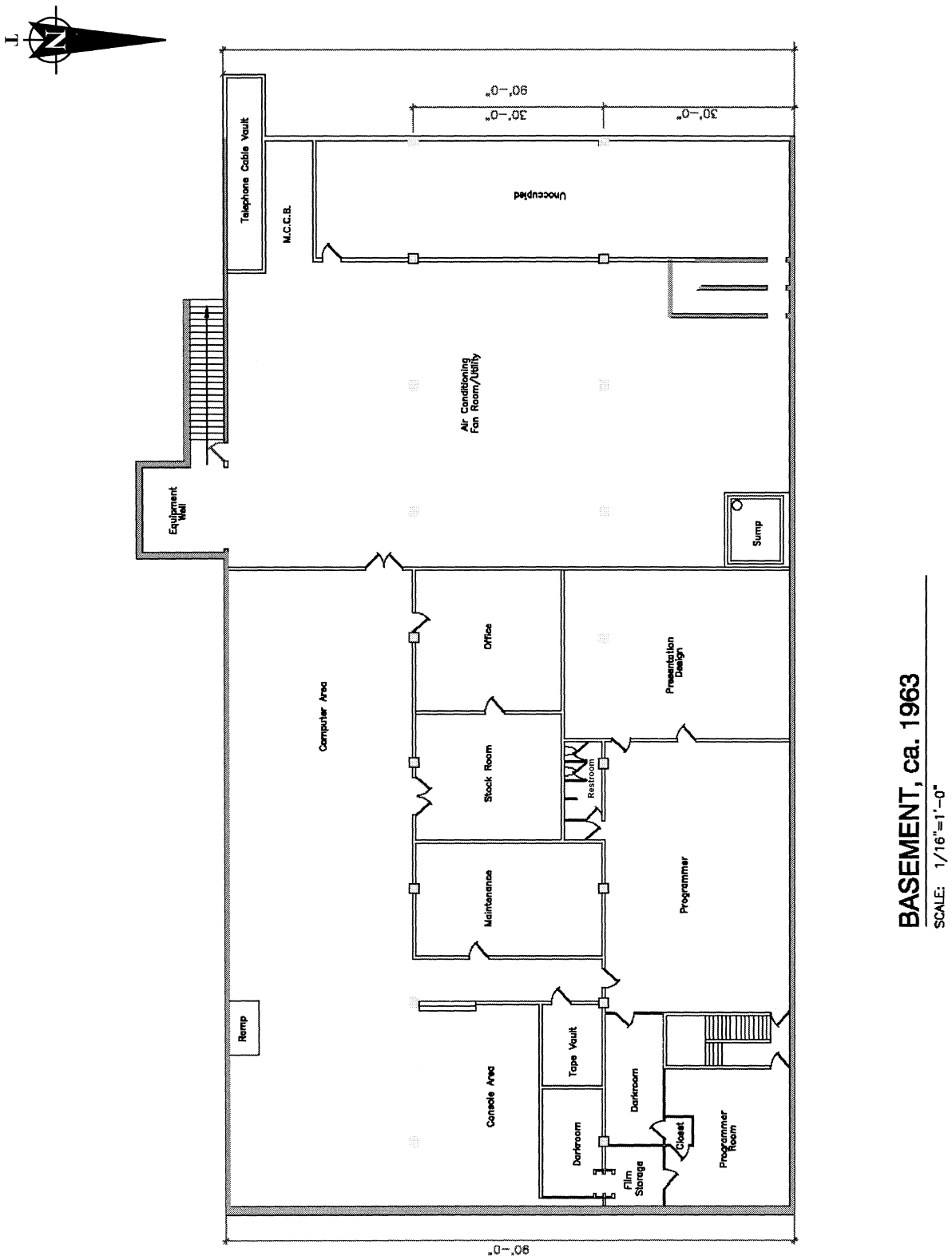


Figure 3. Building 2605, Floor Plan of Basement, circa 1963

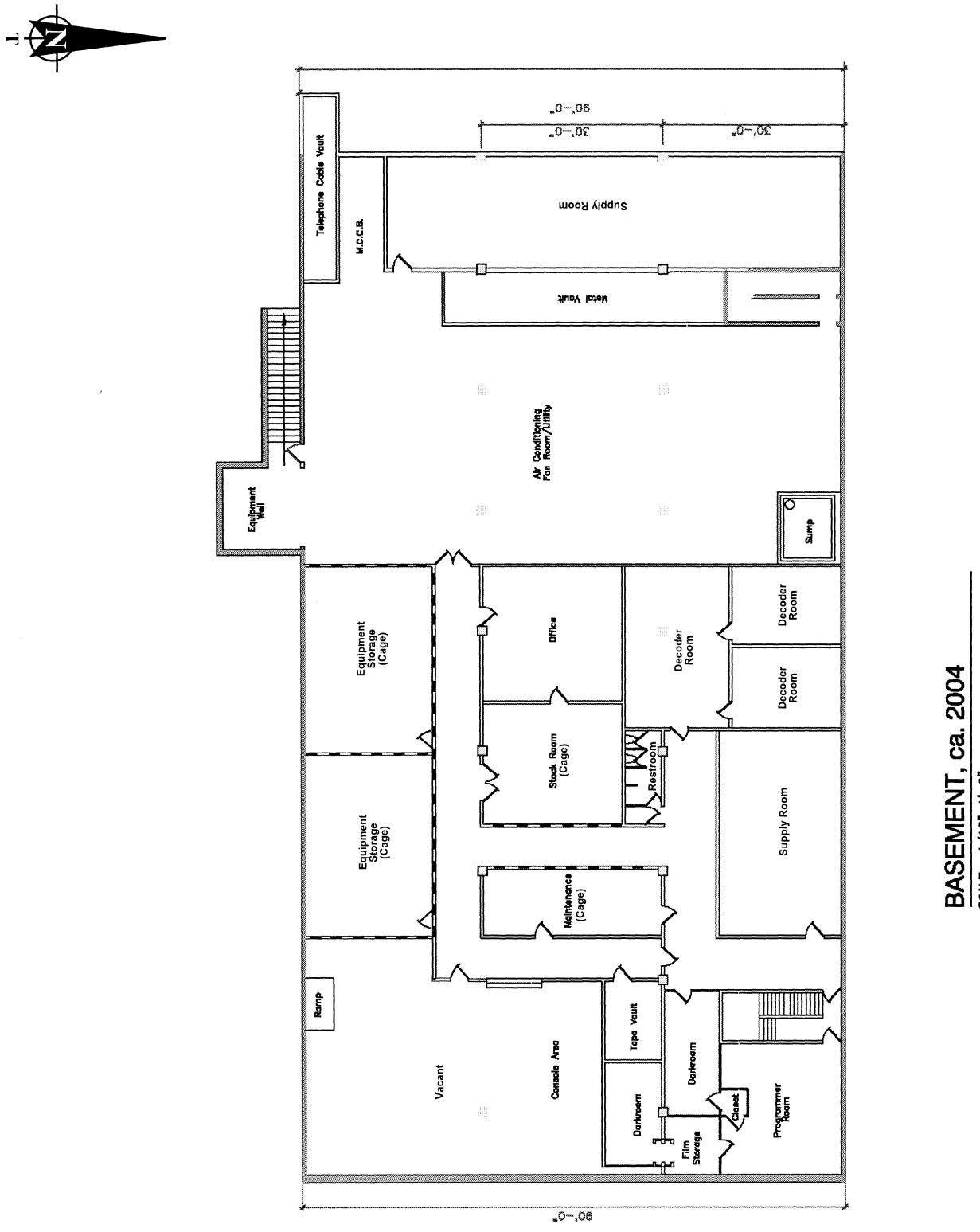


Figure 4. Building 2605, Floor Plan of Basement, circa 2004

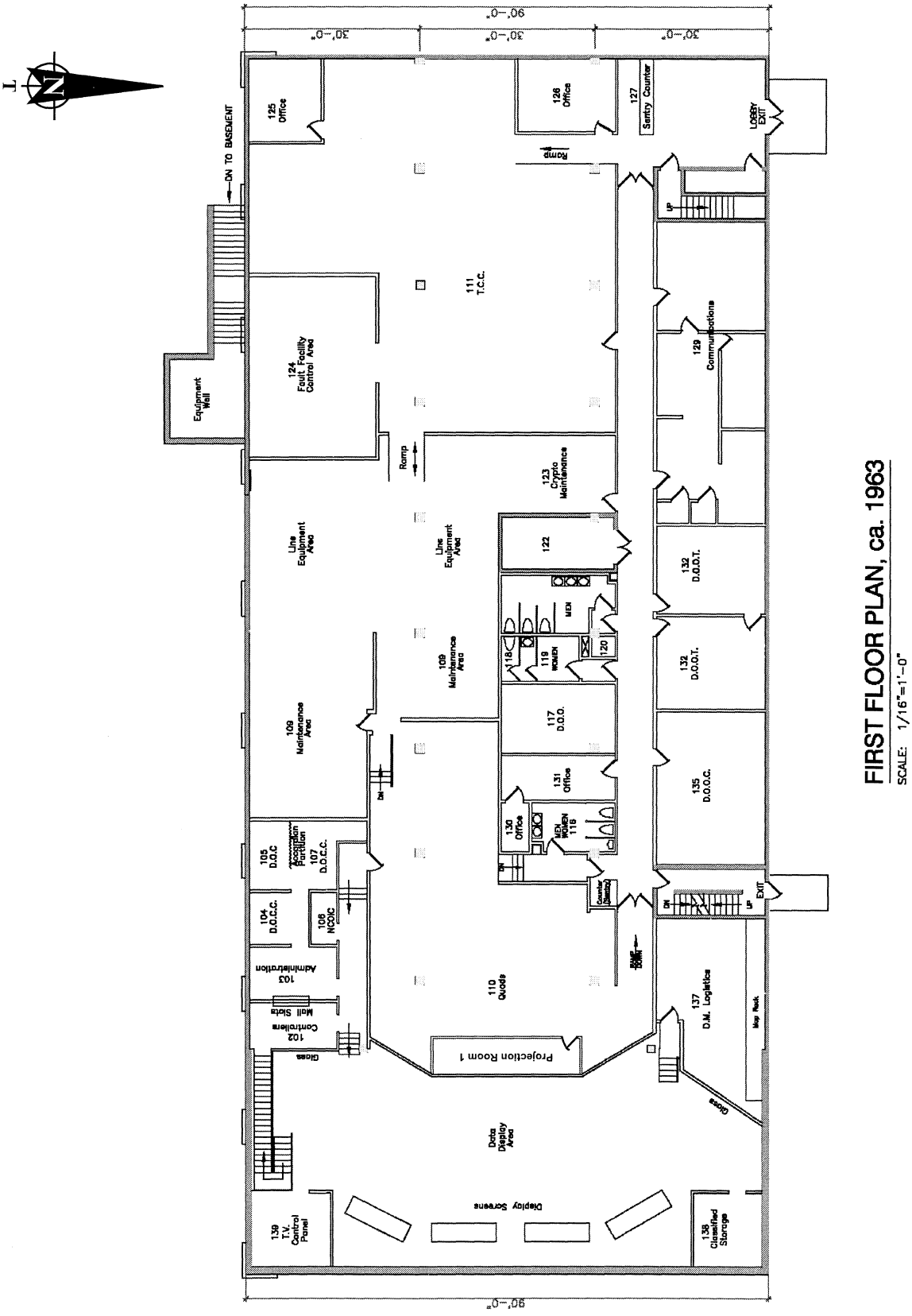
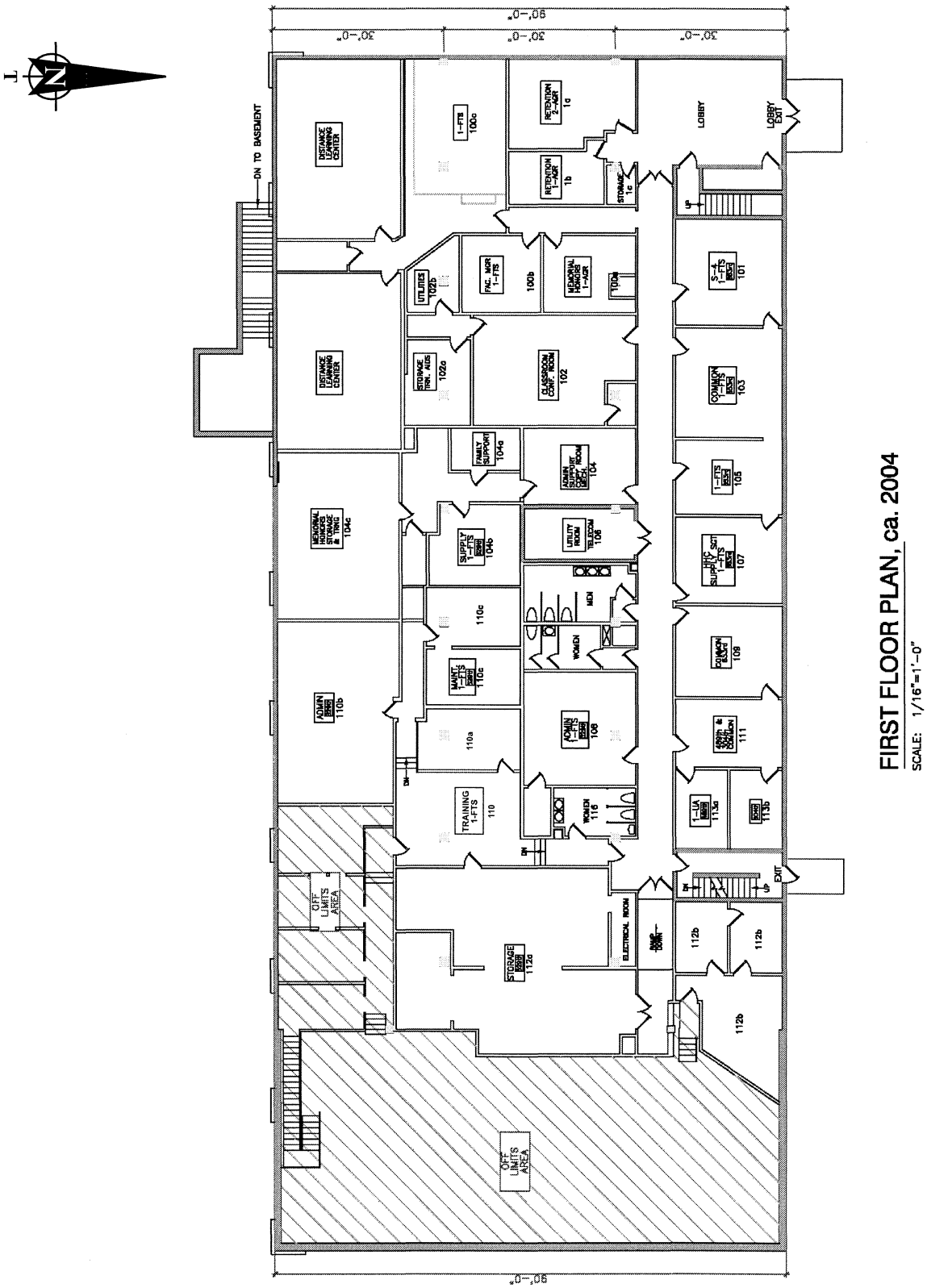


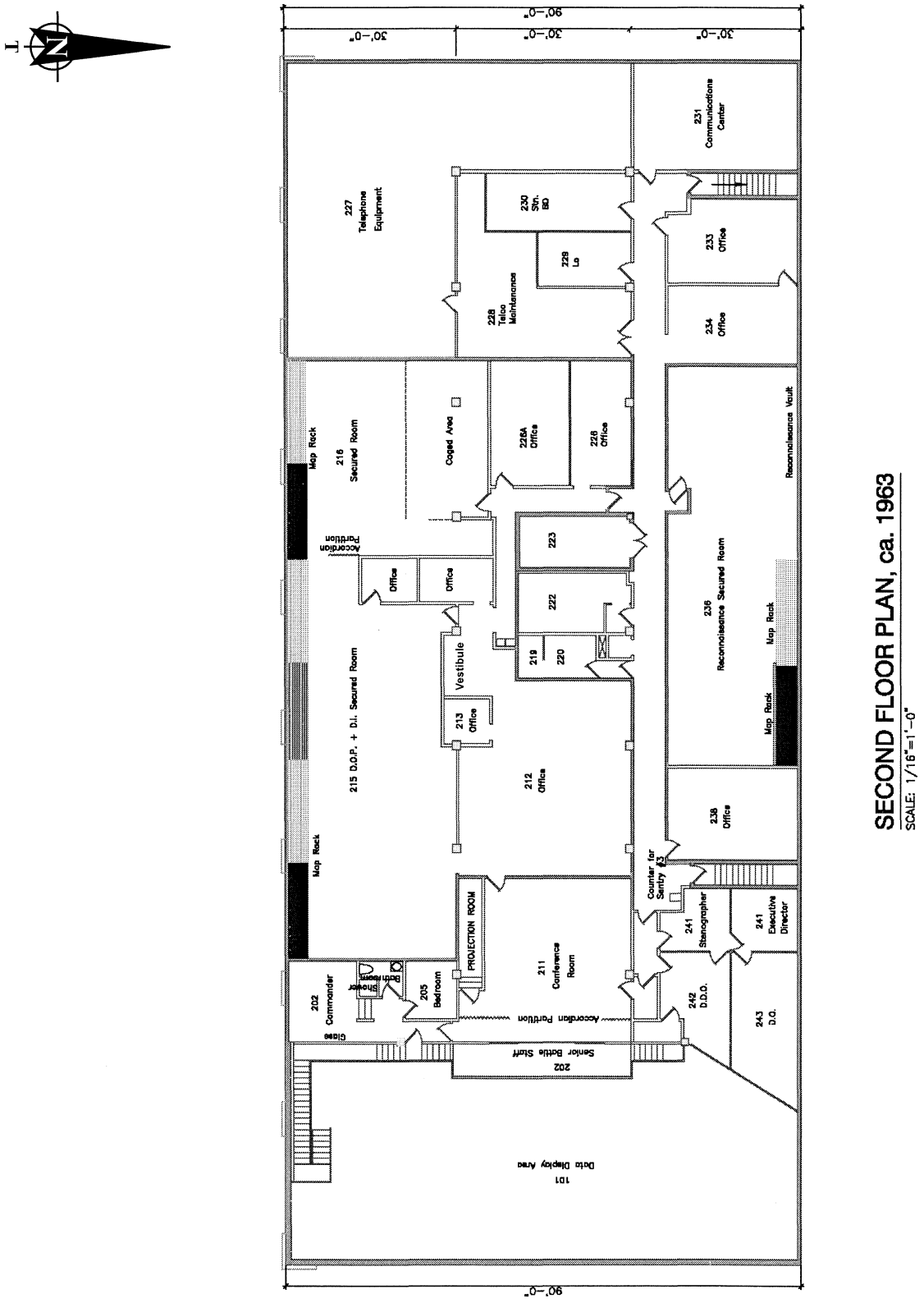
Figure 5. Building 2605, Plan of First Floor, circa 1963



FIRST FLOOR PLAN, ca. 2004

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

Figure 6. Building 2605, Plan of First Floor, circa 2004



SECOND FLOOR PLAN, ca. 1963

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

Figure 7. Building 2605, Plan of Second Floor, circa 1963

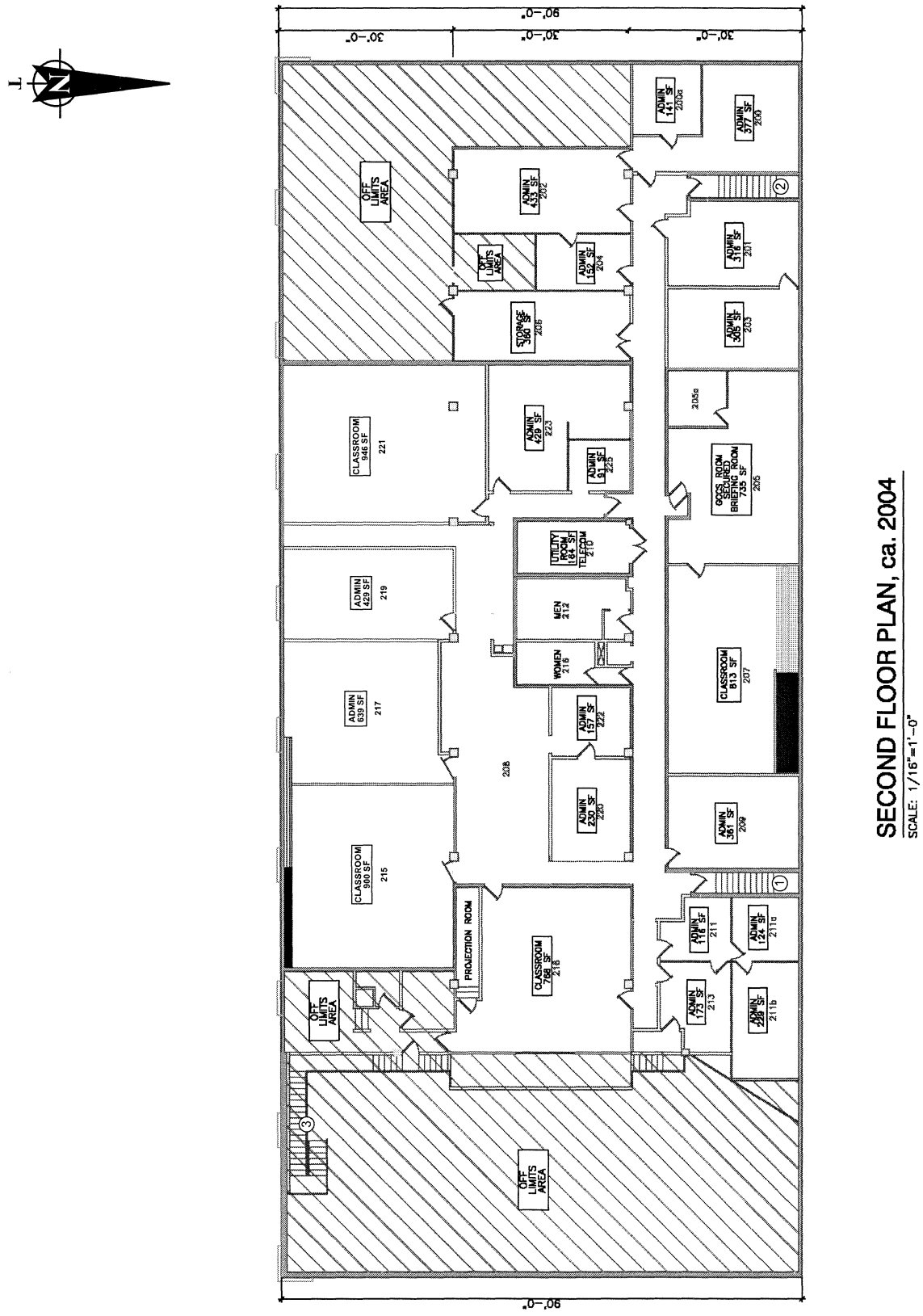


Figure 8. Building 2605, Plan of Second Floor, circa 2004

Figure 9. Central Mural in 1963 Room 215, D.O.P. and D.I. Secured Room, View East. Rocket background, "15" and rocket emblems are painted sky blue, lightning bolt is yellow, rocket and exhaust are painted white and the remainder of the mural is painted black

Date	Name	Drawing Number	Revision	
			Date	Description
06/00/1951	Communications Building Elevation and Sections Architectural	38-04-02	04/25/1952	Added security windows and exhaust fan louvers as constructed
--	Combat Operations Center Elevation Drawings	--	10/03/1966	Drawings updated
02/00/1962	Combat Operations Center Site Plan and Vicinity Map	AW-60-02-03	04/02/1962	Indicated Borrow and Disposal Area
12/16/1982	Combat Operations Center; Front Entrance Building 2605	--	--	--
03/00/1962	Combat Operations Center Combat Operations Building Toilet Room Plans and Elevation	AW-60-02-03	04/02/1962 01/28/1964 10/03/1966	General revisions, add shelf details and notes Added dimensions to plan at basement, Note to El. M, revised El. on mirror and shelf Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Stair Plans and Details	AW-60-02-03	04/02/1962 07/16/1962 01/28/1964 10/03/1966	General revisions Added knock-out panels at stairway #1 - basement Revised notes in stair down deleted note sect. C and stair up Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Stair Plans & Details	AW-60-02-03	04/02/1962 07/16/1962 01/28/1964 10/03/1966	General Revisions Stair width redrawn to scale- added chain & catch @ equipment well Revised notes sect. A & E, deleted notes sect. C, E, F, F, G & stair trends Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Map Rack Plans & Details	AW-60-02-03	04/02/1962 07/16/1962 10/03/1966	General revisions Changed 3/8" S.A.E. bolts to 3/8" steel sex bolts at gusset PL's, revised ¼" R.H.M.B. @ handle detail Drawings updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Map Rack Plans	AW-60-02-03	04/02/1962 01/28/1964 10/03/1966	Added room title Revised elevation, plan room and note on det. B Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Door Details	AW-60-02-03	04/02/1962 07/16/1962 10/03/1966	General revisions Added det. "M," deleted acoustical treatment references at det. "C" Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Window and Miscellaneous Details	AW-60-02-03	04/02/1962 01/28/1964 10/03/1966	Indicated gasket at edge of glass, indicated base and wd. blocking Revised note on el. and det. E, F Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Cabinets and Miscellaneous Details	AW-60-02-03	04/02/1962 01/29/1964 02/17/1964 10/03/1966	Movable partition-soundproof and full height Added note to bottom edge on wall covering details Add lights to consoles (Project No. Mar. 43-4) Drawings updated
01/00/1962	Combat Operations Center Main Base Foundation Exploration	AW-60-02-03	10/03/1966	Drawings updated
3/00/1962	Combat Operations Center Combat Operations Building Foundation Plan and Details	AW-60-02-03	04/02/1962 07/16/1962 01/29/1964 10/03/1966	General revisions Added knock-out panels, rev. stair to scale @ equipment well Revised A/C fan room conc. pads and bases on plan Drawings updated
09/24/1964	Alter 2605 Ops. of Combat Operations Center for Dark Rooms Architectural	MAR-B-905	06/00/1966	Revised per W/O
09/24/1964	Alter 2605 Combat Operations Center for Dark Rooms Mechanical	MAR-B-905	11/18/1964 12/23/1964	Duct Plumbing revision Cont. valves at sinks

Date	Name	Drawing Number	Revision	
			Date	Description
02/17/1964	Alterations of Combat Operations Center Building 2605 Basement Architectural and Electrical	MAR-B-884	--	--
03/00/1962	Combat Operations Center Combat Operations Building Piping Plan Utility Room	AW-60-02-03	04/02/1962 -- 07/16/1962 10/03/1966	Changed C.A., omitted gas piping and CWS CWR Changed DCW piping, added back pressure regulators Identified Section A Drawing updated
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Plan Utility Room	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 02/26/1964 10/03/1966	Changed duct dimension Changed Duct Size and air quantities, added V.C. dampers Changed supply duct size and motor HP for Systems #1 and #3 Revised A/C fan room layout Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Basement Conduit Plan Sheet 1	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 11/10/1962 02/26/1964 07/12/1966 10/03/1966	Delete switch and change conduits Revised underfloor conduits and added filter and fan Added Feeder #MPP-C-2, concrete pull boxed stub-outs Revised feeder sizes and designations Revised pull box, conduit, plan, and telephone cable Revised conduits and added motors and wire sizes Drawings updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Basement Conduit Plan Sheet 2	AW-60-02-03	04/06/1962 07/12/1962 07/16/1962 10/03/1966 02/23/1971	Mount. Heights and 1 symbol added; five alarm stations added Added basement detail and wiring diagram and revised reception, diagrams of fire station circuits Revised telephone and electrical service and underfloor ducts; added single line, intercom, telephone, home runs and duct HTRS Drawings updated Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Basement Lighting Plan	AW-60-02-03	04/0/1962 07/16/1962 07/12/1966 10/03/1966 12/18/1975	Det's "2" and "3" and Notes 5, 6, 7 added Relocated doors and Panel "B" Relocated Ltg. Pn1, PP2b, 3A, E3 Drawings updated Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Plan Basement	AW-60-02-03	04/07/1962 07/16/1962 04/02/1966 02/06/1964 10/03/1966	Revised ductwork for display generators and System #1 Revised ductwork rooms: 16 and 17 Add partitions and note Revised entire ductwork basement and deleted two notes Drawings updated
03/00/1962	Combat Operations Center; Combat Operations Building Piping Plan Basement	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 10/03/1966	Delete DWS and DWR and gas pipe as shown, extend CA Changed DCW service to east side of Combat Operations Center Building Changed size of "CA" line Drawings updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Plumbing Plan Basement	AW-60-02-03	04/02/1962 07/16/1962 01/31/1964	Added drains to piping lowpoints Changed DCW sizes Relocated 3" and 4" waterline and added note to basement plan
02/25/1966	Alter Combat Operations Center Building 2605 Electrical	MAR-B-973	--	--
02/25/1966	Alter Combat Operations Center Building 2605 Basement Plan and Architectural Details	MAR-B-973	--	--
--	Alter 15th A.F. Command Post Building 2605 Demolition Plan and Finish Schedule	--	10/10/1979	Addendum 2 (note 7 and Finish Schedule)
--	Combat Operations Center Building No. 2605 Basement Demolition Plan	--	--	--
--	Combat Operations Center Building No. 2605 Basement Construction Plan	--	--	--
02/17/1964	Alterations of Combat Operations Center Building 2605 Console and Raised Floor Details	MAR-B-884	--	--
11/00/1962	Combat Operations Center 465-LDDC Equipment Location Plan	AW-60-02-03	10/03/1966	Drawings updated
11/00/1962	Combat Operations Center 465 - LDDC Removable Raised Floor Plan	AW-60-02-03	10/03/1966	Drawings updated
03/00/1962	Combat Operations Center 465 - LEDTCC/EDLCC Removable Raised Floor Plan	AW-60-02-03	07/28/1964	Added floor panel cut-outs; X01-A and X01-B, X02 and X03 and T01 through T06
03/00/1962	Combat Operations Center 465 - LEDTCC/EDLCC Pedestal Location Plan	AW-60-02-03	10/03/1966	Drawings updated
03/00/1962	Combat Operations Center 465-LEDTCC/EDLCC Special Air and Compressed Air Dist. System Plan	AW-60-02-03	07/16/1962	Change duct sizes and air quantity

Date	Name	Drawing Number	Revision	
			Date	Description
04/14/1966	Alter Combat Operations Center Building 2605 First Floor Plan and Architectural Details	MAR-B-973	--	--
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Plan First Floor	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 02/02/1964 10/03/1966	Removed exhaust grilles Added return grilles, dampers and removed duct Changed duct sizes from display general and quad areas Revised entire floor plan Drawings updated
02/25/1966	Alter Combat Operations Center Building 2605 Electrical	MAR-B-673	--	--
03/00/1962	Combat Operations Center Combat Operations Building Plumbing Plan First Floor	AW-60-02-03	04/02/1962 09/07/1962 02/03/1964 10/03/1966	Revised roof drain detail Added DCW, drain and vent at platform Add F.D. lines to plan rooms Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building First Floor Framing Plan	AW-60-02-03	04/02/1962 09/7/1962 01/30/1964 10/03/1966	General revisions Revised cantilevered slab and indicated openings Deleted duct frame, first floor and section K, max and taper Drawings updated
01/29/1971	Floor Plan and Equipment Layout Building 2605 First Floor	PCZPB0260 5FP000	--	--
02/17/1964	Alterations of Combat Operations Center Building 2605 First and Second Floor Electrical	MAR-B-884	06/04/1965 07/08/1974	Per W/O 6409 WO 3181-4

Date	Name	Drawing Number	Revision	
			Date	Description
07/06/1981	Rehab 15AF Combat Operations Center Battle Staff Building 2605 Rooms 129 and 209, Floor Plan Demolition Notes and Scope of Work Room 209	2553	--	--
07/06/1981	Rehab 15AF Combat Operations Center Battle Staff Building 2605 Rooms 129 and 209 Sections and Details	2553	--	--
07/06/1981	Rehab 15AFCombat Operations Center, Battle Staff Building 2605 Rooms 129 and 209 A.C. Demolition and Modification Plans	2553	--	--
07/06/1981	Rehab 15AF Combat Operations Center, Battle Staff Building 2605 Rooms 129 and 209 Electrical Plans	2553	--	--
--	Combat Operations Center Building 2605 First Floor, Demolition Plan	--	--	--
03/25/1975	Extension of Reconnaissance Center Volt	--	12/30/1975	As Built
--	Alter 15th A.F. Command Post Building Plans and Sections	--	--	--
07/06/1981	Rehab 15AF Combat Operations Center Battle Staff Building 2605 Rooms 129 and 209 Floor Plan, Demolition Notes and Scope of Work Room 129	2553	--	--
--	Combat Operations Center Building 2605 First Floor Construction Plan	--	04/04/1983	Add furniture to lobby
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Plan Second Floor	AW-60-02-03	04/02/1962 09/07/1962 02/28/1964	Delete return air registers in Rooms 227 and 228 Changed duct sizes and grilles in display area, duct from gen., add fan F-18 Revisited entire second floor plan and roof plan

Date	Name	Drawing Number	Revision	
			Date	Description
04/14/1966	Alter Combat Operations Center Building 2605 Air Conditioning Plans and Details	MAR-B-973	05/15/1966	General revisions
04/14/1966	Alter Combat Operations Center Building 2605 Second Floor and Architectural Details	MAR-B-973	05/13/1966	Deleted safe door work, altered stuffing of ducts
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Plan Second Floor	AW-60-02-03	04/02/1962 09/07/1962 02/28/1964 10/03/1966	Delete return air registers in Rooms 227 and 228 Changed duct sizes and grilles in display area, duct from gen., add fan F-18 Revisited entire second floor plan and roof plan Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Plumbing Plan Second Floor	AW-60-02-03	04/02/1962 01/04/1964 10/03/1966	Revised roof drain and door locations Added F.D. lines to plan rooms, second floor plan and note Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Second Floor Framing Plan	AW-60-02-03	04/02/1962 07/16/1962 03/02/1964 10/03/1966	General revisions Deleted door Revised second floor framing plan Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Second Floor Plan	AW-60-02-03	04/02/1962 07/16/1962 01/27/1964 08/17/1964	General Revisions to Plans & Fin. Sched, changed roof drains Deleted Door (9) @ Rm. 236, Changed Door between Rms. 210 & 212, Added door (42) @ Rms. 236 & 225, Added pipe sleeve Revised Steno and Exec. Office, Deleted security drapes on second floor plan Per Work Order 2748

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Second Floor Plan	AW-60-02-03	04/02/1962 07/16/0962 01/27/1964 08/17/1964	General Revisions to Plans & Fin. Sched, changed roof drains Deleted Door (9) @ Rm. 236, changed door between Rms. 210 & 212, Added door (42) @ Rms. 236 & 225, Added pipe sleeve Revised Steno and Exec. Office, deleted security drape on second floor plan Per work order 2748
02/23/1966	Alter Combat Operations Center Building 2605 Second Floor Plan & Arch Details	MAR-13-973	--	--
03/00/1962	Combat Operations Center Combat Operations Building Wall Details	AW-60-02-03	04/02/1962 10/03/1966	General Revisions Drawings Updated
--	Combat Operations Center, Building No. 2605, Second Floor Plan, Battle Staff Room	--	--	--
09/29/1992	Renovate Rooms for Command Post Building 2605 Existing Layout	--	--	--
09/29/1992	Renovate Rooms for Command Post Building 2605 Demo Plan	--	--	--
09/29/1992	Renovate Rooms for Command Post Lighting Demo Plan Building 2605	--	--	--
10/20/1992	Renovate Rooms for Command Post Building 2605 Reflective Ceiling Plan	--	--	--
10/20/1992	Renovate Rooms for Command Post Building 2605 Lighting Plan	--	--	--
09/29/1992	Renovate Rooms for Command Post Building 2605 Plumbing Plan	--	--	--
10/20/1992	Renovate Rooms for Command Post Building 2605 Electrical Plan	--	--	--

Date	Name	Drawing Number	Revision	
			Date	Description
10/20/1992	Renovate Rooms for Command Post Building 2605 Lighting Circuit Plan	--	--	--
10/29/1992	Renovate Rooms for Command Post Building 2605 Second Floor Plan	--	--	--
04/21/1967	Custodial Services Location & Plan Building 2605	MAR-M-155	--	--
02/00/1964	Combat Operations Center Combat Operations Building Air Conditioning Sections	AW-60-02-03	10/03/1966	Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Sections	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 03/09/1964 10/03/1966	Changed Roof Flashing Detail Changed Air Distribution Device Schedule & Duct Sizes Changed Air Distribution Device Schedule & Duct Sizes Rev. 1st and 2nd Floor Duct Chase, Added 1st and 2nd Floor Utility Shaft Plan Details, Fire DMP Shaft & West Elev. Shaft Details and notes Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Air Conditioning Flow & Control Diagram	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 02/05/1964 10/03/1966	Omitted DWS, DWR to TCC & Quad Area Changed Valving, Zoning & Air Quantities Changed CA line size, add Exh. Fan F-8, increased air quant. for system 1 & 3 Added air relay and dry bulb temp. controller to System No. 1, 2 & 3 Drawings Updated
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Special Air & Compressed Air Dist. Sys. Section & Details	AW-60-02-03	10/03/1966	Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
09/02/1966	Electrical Power & Control Revisions Buildings #2605 & 2606	MAR-E-327	11/16/1966 12/7/1966 02/16/1967 03/10/1967	MISC. L.DWG Clarifications Changes in plot plan As Built Revision
09/22/1966	Air Conditioning Partial First & Second Floor Plans and Chemical Feeder and Bypass Details Buildings #2605 & 2606	MAR-E-327	11/16/1966 12/07/1966	Added Partition in Room 226A, Added note on Rom 230A Added Elec. to 1 & 2 Fl. Plans
09/22/1966	Air Conditioning Installation of Barometric Dampers in Existing Fan Room Building #2605 & 2606	MAR-E-327	--	--
02/25/1966	Alter. Combat Operations Center Building 2605 Air Condition Plan and Details	MAR-B-973	--	--
04/14/1966	Alter. Combat Operations Center Building 2605 Electrical	MAR-B-973	--	--
04/14/1966	Alter. Combat Operations Center Building 2605 Electrical	MAR-B-973	05/13/1966 08/21/1966	Altered Ltg. & Buzzer Sys Grd. Sec. Neutral Transf.
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Raceways for Signal System	AW-60-02-03	07/16/1962 10/03/1966	Conn'ed Ducts with 2" Conduit. Relocated cable through deleted equipment. Added telephone, cable, and connect to raceway Drawings Updated
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Raceways for AC Power System	AW-60-02-03	07/16/1962 10/03/1966	Relocated A/C power trough removed & added elect. filters, changed rating, filters Drawings Updated
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Raceways for DC Power System	AW-60-02-03	07/16/1962 10/03/1966	Addition to D/C power, removed cabinets Drawings Updated
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Electrical Sections	AW-60-02-03	07/16/1962 10/03/1966	Relocate cable & A/C power troughs Updated Drawings

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Electrical Details	AW-60-02-03	07/16/1966 01/28/1964 10/3/1966	Changed No. of ground busses required, added note #3 Revised cable description, added note no. 4 Drawings Updated
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Miscellaneous Electrical Services	AW-60-02-03	07/16/1962 10/03/1966	Revised note #10, added ¾" conduit Drawings Updated
03/00/1962	Combat Operation Center Combat Operations Building Electrical Single Line Diagram	AW-60-02-03	04/05/1962 07/16/1962 09/07/1962	Added conductor count, amperages; breakers; note 4 Revised single line diagram Revised single line diagram & restored support equipment to "UPS" supply Revised single line diagram as per authority Revised UPSA, UPSB, UPSC, panel loads & UPS load tabulations Revised panels & notes General Revision Drawings Updated Drawings Updated Added inverter
07/09/1968	Alter Combat Operations Center Bldg 2605 Weather Support Area Electrical	B-1081	--	--
08/12/1971	Alter Electrical Facilities Bldg 2605 Plans & Details	E-364	--	--

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operation Center 465-L EDTCC/EDLCC Electrical Single Line Diagram	AW-60-02-03	04/06/1962	Added conductor count, amperages; breakers; note 4
			07/16/1962	Revised single line diagram
			09/07/1962	Revised single line diagram & restored support equipment to "UPS" supply
			10/31/1962	Revised single line diagram as per authority
			11/10/1962	Revised UPSA, UPSB, UPSC, panel loads & UPS load tabulations
			02/26/1964	Revised panels & notes
			07/12/1966	General Revision
			10/03/1966	Drawings Updated
			02/25/1971	Drawings Updated
			04/23/1971	Added inverter
--	Alter 15th AF Command Post Platform & Display Panel	--	10/10/1979	Addendum #2 (Add note 4)
08/12/1971	Alter Electrical Facilities Building 2605 Plans and Details	E-364	02/08/1986	As Built
			01/18/1985	ASR & SMR red conduit system & electrical power required
--	Alter 15th AF Command Post Building 2605 Mechanical Plan & Details	--	--	--
--	Alter 15th AF Command Post Building 2605 Partial Electrical Plan	--	--	--
07/21/1980	Alter Basement of Combat Operations Center Electrical Mechanical Plan	--	--	--
07/21/1980	Alter Basement of Combat Operations Center Electrical-Architectural Plan	ME-2	--	--

Date	Name	Drawing Number	Revision	
			Date	Description
--	Electrical Duplex Receptacles and Telephone Outlets for Room 215 Combat Operations Center Building 2605	2753	03/26/1985	As Built
07/06/1981	Rehab 15 AF Combat Operations Center Battle Staff Building 2605- Rooms 129 and 209 Electrical Plans, Diagrams, and Details	2553	--	--
05/17/1982	Combat Operations Center Building 2605 Electrical Demolition Plans	D-1	--	--
05/17/1982	Combat Operations Center Building 2605 Electrical Lighting Plan	E-1	--	--
05/17/1982	Combat Operations Center Building 2605 Electrical Power Plan	E-2	07/19/1982	Install two 20 amp, 1P, circuit breakers 6#12s
05/17/1982	Combat Operations Center Building 2605 Electrical Schedule	--	--	--
05/12/1983	Rigid Conduit for Secure Telephone Circuit AF SATCOM to Command Post Building 2605	--	--	--
03/05/1976	Alter Noise Level Building 2605	--	--	--
07/06/1981	Rehab 15 AF Combat Operations Center, Battle Staff Building 2605- Rooms 129 and 209 Reflective Ceiling Plans & Details	2553	--	--
--	Combat Operations Center Building No. 2605 Reflected Ceiling Plan	--	--	--
05/17/1982	Combat Operations Center Building 2605 Mechanical Demolition Plans	D-2	--	--
05/17/1982	Combat Operations Center Building 2605 Mechanical Floor Plan	M-1	--	--

Date	Name	Drawing Number	Revision	
			Date	Description
05/17/1982	Combat Operations Center Building 2605 Mechanical Legend, Schedule, and Control Diagrams	M-2	--	--
03/00/1962	Combat Operations Center Combat Operations Building Roof Framing Plan	AW-60-02-03	04/02/1962 01/30/1964 10/03/1966	General Revisions Added note to roof framing plan Drawings Updated
08/15/1968	Repair Air Conditioning Combat Operations Center, Building 2605 Roof Plan	R-156	--	--
03/28/1981	Alter A/C- Command Post Building 2605	2491	--	--
03/00/1962	Combat Operations Center Combat Operations Building Plumbing Details	AW-60-02-03	04/02/1962 07/16/1962 10/03/1966	Changed FS to FD Changed DCW Size Drawings Updated
03/00/1962	Combat Operations Center Utility Building Mechanical Roof Plan	AW-60-02-03	04/06/1962 10/03/1966	Added insulation to boiler stack, added details for stack support Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Piping Sections & Details	AW-60-02-03	04/02/1962 07/16/1962 10/03/1966	Added Orifices Added bypass valve @ control valves, revised valve types Drawings Updated
--	Combat Operations Center Panel Schedule	AW-60-02-03	10/03/1966 02/25/1971	Drawings Updated Drawings Updated
--	Combat Operations Center Panel Schedule	AW-60-02-03	10/03/1966 02/25/1971	Drawings Updated Drawings Updated
--	Combat Operations Center Panel Schedule	AW-60-02-03	10/03/1966 02/25/1971	Drawings Updated Drawings Updated
--	Combat Operations Center Panel Schedule	AW-60-02-03	10/03/1966 02/25/1971	Drawings Updated Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
--	Combat Operations Center Panel Schedule	AW-60-02-03	10/03/1966 02/25/1971	Drawings Updated Drawings Updated
02/23/1966	Construct Pneumatic Tube Sys Building 2605 Change in Power Supply	MAR-B-917	--	--
12/21/1978	Consolidated Communication Center Pneumatic Tube Site Plan	--	--	--
11/20/1968	Alter Combat Operation Center Building 2605	B-1088	--	--
03/14/1966	Combat Operations Center Building 2605 Facility 487-L Floor Plan & Conduit Details Anchoring Details	MAR-B-978	06/21/1966	Delete Work on Stairs
03/14/1966	Combat Operations Center Building 2605 Facility 487-L Floor Plans & Equip. Layout Electrical	MAR-B-978	--	--
03/00/1962	Combat Operations Center Paving & Utility Details	AW-60-02-03	04/02/1962 04/09/1962 07/16/1962 01/24/1964 12/16/1963 10/03/1966	General Revisions Rev. Section A, Surfacing Sections and Curb & Gutter Rev. road curve radius, added water line in profile Deleted plan- headwall, Sect. E-E, F-F; Added #4 bars to sect. C-C; Revised Dimension on sewer profile Construct driveway COC Bldg. 2605 (Project No. MAR 305-4) Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Wall, Column & Misc. Detail	AW-60-02-03	04/02/1962 01/31/1964 10/03/1966	Revised canopy, general revisions Added keyway to typ. wall sect. and stairs. Nosings to sect.-P, and dimensions on tel. cable vault dets. Drawings updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Wall Elevations & Misc. Details	AW-60-02-03	04/02/1962 09/07/1962 01/31/1964 10/03/1966	Add temp, reinf. in ramp; changed size typ. op'ng reinf. Added flr. & wall opening dets; changed duct opening sizes Revised ext. elevations, utility shaft walls and elevation looking at east Drawings updated
03/00/1962	Combat Operations Center Combat Operations Building Catwalk & Misc. Details	AW-60-02-03	04/02/1962 09/07/1962 02/04/1964 09/24/1964 10/03/1966	General Revisions Changed framed opening sizes Revised first and second shaft framing Dark room partition (Project No. MAR 239-5) Drawings Updated
03/00/1962	Combat Operations Center Combat Operations Building Mechanical & Electric Symbols	AW-60-02-03	04/06/1962 10/03/1966	General Revisions Drawings updated
03/00/1962	Combat Operations Center Substation Plan & Details	AW-60-02-03	04/02/1962 01/24/1961 10/03/1966	General Revisions Added note to det. #1, revised plan Drawings updated
03/00/1962	Combat Operations Center Foundation, Manhole & Misc. Details	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 01/24/1964 10/03/1966	General Revisions- added telephone manhole details Changed north arrow and note Revised diameter of tank T-3 Revised tank T3-T9, north arrow on tel. manhole, plan sect at tank access and sect H Drawings updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Combat Operations Building Grounding Plan	AW-60-02-03	04/02/1962 07/16/1962 02/05/1964 10/03/1966	General Revisions Rerouted ground cables and changed ground bus. Added note to grounding plan, revised sect A and deleted det. 1 Drawings updated
03/00/1962	Combat Operations Center Pole Line & Electrical Details	AW-60-02-03	04/02/1962 01/27/1964 10/03/1966	Poles, braces, insulators & bonding detail Revised partial plan, branch pole line profile, framing plan- pole #5 and deleted framing plan- pole #4, notes on pole #2 Drawings updated
09/00/1962	Combat Operations Center 465-L DDC Special Air & Compressed Air Distribution Systems	AW-60-02-03	10/03/1966	Drawings updated
11/00/1962	Combat Operations Center 465-L DDC Electrical Raceways for Power Systems	AW-60-02-03	10/03/1966 07/18/1977	Drawings Updated Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Miscellaneous Electrical Services PAX & Interphone Systems	AW-60-02-03	07/16/1962 10/03/1966	Deleted symbol, relocated equipment, added conduit Drawings updated
11/00/1962	Combat Operations Center 465-L DDC Electrical Raceways for Signal Systems	AW-60-02-03	10/03/1966	Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Equipment Support Channels Plan	AW-60-02-03	07/16/1962 10/03/1966	Relocation of equipment, dim. corr. Change bolt size Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Removable Raised Floor Plan	AW-60-02-03	07/16/1962 01/28/1962 10/03/1966	Corr. bldg dim., changed equipt, dim added, dim changed Revised underfloor cable trays Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center 465-L DPC Cable Gallery & Details	AW-60-02-03	07/16/1962 10/03/1966	Corrected dimensions to align cable gallery dropouts to match equipment location Drawings updated
03/00/1962	Combat Operations Center 465-L DPC Liquid Coolant & Compressed Air Systems-Plan	AW-60-02-03	07/16/1962 10/03/1966	Added min. elev. dimension on comp. air line. Corrected distance between equipment fittings Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Liquid Coolant & Compressed Air Systems-Sections & Details	AW-60-02-03	07/16/1962	Revised liquid coolant piping, corrected hose adapter dimensions
03/00/1962	Combat Operations Center 465-L DPC Special Conditioned Air Distribution Systems	AW-60-02-03	07/16/1962 10/03/1966	Deleted note Drawings updated
03/00/1962	Combat Operations Center 465-L DPC Raceways for Signal System	AW-60-02-03	07/16/1962 01/28/1964 10/03/1966	Changed, relocated & deleted, corrected dimensions, reworded note #4 Revised floor panel layout Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Raceways for Power Systems	AW-60-02-03	07/16/1962 01/28/1964 10/03/1966	Changed ductwork and dimensions Revised floor panel layout Drawings updated
03/00/1962	Combat Operations Center 465-L DPC AC Power Distribution Single Line Diagram	AW-60-02-03	07/19/1962 10/03/1966	Change in equipment & remove shunt trip Drawings updated
03/00/1962	Combat Operations Center 465-L DPC Cable Schedule I	AW-60-02-03	07/16/1962 10/03/1966	Update cable schedule & notes Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Cable Schedule II	AW-60-02-03	07/19/1962 10/03/1966	Corrected term. designation, corrected note Drawings Updated
03/00/1962	Combat Operations Center 465-L DPC Cable Schedule III	AW-60-02-03	07/19/1962 10/03/1966	Added equipment Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center 465-L DPC Electrical Sections & Details	AW-60-02-03	07/16/1962 10/03/1966	Corrected error, apron added Drawings Updated
03/09/1971	Combat Operations Center Utility Building Mezzanine Addition	ST-150	--	--
03/00/1962	Combat Operations Center Utility Building Framing Plan & Details	AW-60-02-03	04/06/1962 02/03/1964 10/03/1966	General Revisions Relocated mezzanine framing plan & added ext., moved north arrow Drawings Updated
03/00/1962	Combat Operations Center Utility Building Foundation Plan & Details	AW-60-02-03	04/06/1962 09/07/1962 02/05/1964 10/03/1966	General Revisions Revised compressor & chiller foundations Added footings Drawings Updated
03/00/1962	Combat Operations Center Utility Building Flow & Control Diagram	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 10/03/1966	Added filters & valves at T-9 Added bypasses, DWS make-up tank & pump, changed T-4 Change air & water line sizes Drawings Updated
03/00/1962	Combat Operations Center Utility Building Mechanical Plan	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 01/27/1964 10/03/1966	Revised gas main, added detail Added bypasses, pump P-14, tank T-11, water service Changed size of air compressors, air line & boiler stack Relocated pipe lines & changed dimensions of them "as built" Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Utility Building Mechanical Sections	AW-60-02-03	04/02/1962 07/16/1962 09/07/1962 02/11/1964 10/03/1966	Added valves on expansion tank lines Added bypasses, corrections, clarifications Changed size of air compressors & air lines Added note to Section B Drawings Updated
--	Combat Operations Building 2605 Mechanical Section and	MAR-AW-60-	10/03/1966	Drawings Updated
03/00/1962	Combat Operations Center Utility Building Heat, Vent, & Air Conditioning Plan & Details	AW-60-02-03	04/06/1962 01/28/1964 10/03/1966	Added section indication Revised mezzanine floor plan & section B "as built" Drawings Updated
03/00/1962	Combat Operations Center Utility Building Power Switchgear Sheet 1	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 10/31/1962 11/10/1962 10/03/1966	General Revisions Revised main switchboard General revisions as noted General revisions as noted Revised main switchboard Drawings Updated
03/00/1962	Combat Operations Center Utility Building Power Switchgear Sheet 2	AW-60-02-03	07/16/1962 09/07/1962 10/31/1962 02/03/1964 10/03/1966	Removed breakers 1A1, 1B1, 1C1, clarified conduit runs General revisions as noted Revise feeders & remove tie breaker system Revised motor control center and added note #3 Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Utility Building Power Switchgear Sheet 3	AW-60-02-03	04/06/1962	General Revisions
			07/16/1962	Changed MPP-B1 to MPP-C1, corrected "LP-M"
			09/07/1962	Changed panel "PPG" feeder size & added alarms - CKT #6
			01/24/1964	Revised panel PP-7
			10/03/1966	Drawings Updated
03/00/1962	Combat Operations Center Utility Building Power Plan No. 1	AW-60-02-03	04/06/1962	Instrumentation wiring & notes added
			07/16/1962	Revised UPS distribution & switchgear, changed conduit runs
			09/07/1962	Revised UPS distribution & switchgear, changed conduit runs
			10/31/1962	Revised UPS distribution & switchgear & added feeders
03/00/1962	Combat Operations Center Utility Building Power Plan No. 2	AW-60-02-03	04/02/1962	Revise duct bank
			07/16/1962	Revised duct bank & conduit runs
			09/07/1962	Revised duct bank & conduit runs as noted
			10/31/1962	Revised feeder size
			11/10/1962	Revised feeder sizes & duct bank
			01/24/1964	Relocated control power panel, emergency generator & UPS control panels on floor plan, revised feeder sizes
			10/03/1966	Drawings Updated

Date	Name	Drawing Number	Revision	
			Date	Description
03/00/1962	Combat Operations Center Utility Building Alarm & Communications Plan	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 10/31/1962 11/10/1962 01/27/1964 10/03/1966	Added: note & legend of symbols Revised alarm system as per power revisions Restored alarms as per power revision requirements Revised alarms as per power revision requirement Revised power panel MPP-A & MPP-B Revised power panel, alarms, emergency generator, power supply & legend of symbols Drawings Updated
03/00/1962	Combat Operations Center Utility Building Lighting Plan	AW-60-02-03	04/02/1962 01/27/1964 10/03/1966	Fixture Description Revised lighting plan Drawings Updated
03/00/1962	Combat Operations Center Utility Building System Monitoring Panel	AW-60-02-03	04/06/1962 01/27/1964 10/03/1966	Revised power unit names Revised electrical panel, monitoring panel & name plate schedule Drawings Updated
03/00/1962	Combat Operations Center Utility Building Instrument Schedules Sheet 1	AW-60-02-03	01/27/1964 10/03/1966	Revised receiver instrument schedule, added set points Drawings Updated
03/00/1962	Combat Operations Center Utility Building Instrument Schedules Sheet 2	AW-60-02-03	07/16/1962 10/03/1966	Added PI's, PRV's & press switch Drawings Updated
03/00/1962	Combat Operations Center Utility Building Wiring Diagrams	AW-60-02-03	01/27/1964 10/03/1966	Deleted as shown Drawings Updated
03/00/1962	Combat Operations Center Utility Building Panel Schedules	AW-60-02-03	04/06/1962 09/07/1962	General Revisions Changed panel schedule "LP-H"

Date	Name	Drawing Number	Revision	
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03/00/1962	Combat Operations Center Utility Building Mechanical Sections & Details	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 02/11/1964	Revised pipe support Added bypasses, identifications, tank T-11, pump P-14 Change size of air compressor & air lines Added note to section K
03/00/1962	Combat Operations Center Utility Building Mechanical Schedules	AW-60-02-03	04/06/1962 07/16/1962 09/07/1962 01/27/1964 10/03/1966	General Revisions Changed pumps, PSV, filter, fan, electrical duct htr. schedule General revisions Revised pumps, press. safety valve & pneumatic spray schedules "as built" Drawings Updated
03/00/1962	Combat Operations Center Utility Building Tank Details	AW-60-02-03	07/16/1962 09/07/1962 01/24/1964	Revised tank T-4, added tank T-11 Revised tank T-3 Revised diesel fuel storage and nozzle schedule
05/07/1971	Combat Operations Center Utility Building Paralleling Control Console for U.P.S Units	E-363	--	--