

PROGRAMMING AND PLANNING GUIDES

RM. NO.	DESCRIPTION	NET AREA SQ. FT.	CLG. HT.	DESIGN TEMP. F		RELATIVE HUMIDITY	REMARKS
				WINTER	SUMMER	YEAR ROUND	
1	VAULTS - (6 SHOWN)	1,434	10'-0"	70°	78°	45 % MAX.	
2	ARMORER'S ROOMS - 6	376	8'-0"	70°	78°	45 % MAX.	
3	CORRIDOR	217	8'-0"	65°			
4	WEAPONS CLEANING AREAS	1,512	8'-0"	65°			PROVIDE FLOOR DRAINS
5	CREW WEAPONS CLEANING AREA	477	8'-0"	65°			PROVIDE FLOOR DRAIN
6	MECHANICAL ROOM	258	10'-0"	40°			
7	TOILET	93	8'-0"	70°			
8	JANITOR	32	8'-0"	40°			
9	CLEANING MATERIALS STORAGE	120	8'-0"	40°			
10	PANEL STORAGE	86	10'-0"	40°			

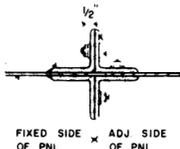
TOTAL NET SQ. FT. 4,605
TOTAL GROSS SQ. FT. 5,723

LOCATION	TYPE	HARDWARE *
EXTERIOR (EXCL. MAIN ENTRANCE AND MECH. RM.)	INDUSTRIAL, HOLLOW METAL	COMBINATION PANIC DEVICE, TYPE 822A, 3 SAFETY STUD HINGES
MAIN ENTRANCE	INDUSTRIAL, HOLLOW METAL	COMBINATION PANIC DEVICE, TYPE 822K, 3 SAFETY STUD HINGES
MECHANICAL ROOM	INDUSTRIAL, HOLLOW METAL	PER FACILITY ENGINEER REQUIREMENTS
ARMORER'S ROOM	SOLID WOOD DOOR 1 3/4" THICK W/ 12 GA. STL. ϕ ON OUTSIDE	MORTISE CYLINDER DEADLOCK WITH INSIDE RELEASE, TYPE 86P, 3 SAFETY STUD HINGES
ISSUE WINDOW / DOOR	SOLID WOOD DOOR 1 3/4" THICK W/ 12 GA. STL. ϕ ON OUTSIDE	MORTISE CYLINDER DEADLOCK INSIDE, NO HARDWARE OUTSIDE, TYPE 86S, 2 SAFETY STUD HINGES
VAULTS	WELDED STEEL BAR DOOR CONSTRUCTED OF 1 1/2" X 3/8" FLAT BARS HOR. AT 8" O.C. MAX. AND 1/2" DIA. BARS VERTICAL AT 4" O.C. MAX.	HIGH SECURITY HASP, MIL-P-43607, 3 SAFETY STUD HINGES
JANITOR	INDUSTRIAL, HOLLOW METAL	LATCH, TYPE 86N
CLEANING MATERIALS STORAGE	INDUSTRIAL, HOLLOW METAL	MORTISE CYLINDER DEADLOCK WITH LATCH, TYPE 86D
PANEL STORAGE	INDUSTRIAL, HOLLOW METAL	MORTISE CYLINDER DEADLOCK WITH LATCH, TYPE 86D
TOILET	INDUSTRIAL, HOLLOW METAL	PUSHPLATES, TYPE 450 & 460, AND CLOSER

* ALL LOCK AND LATCH SETS ARE REFERENCED TO FEDERAL SPECIFICATION FF-H-106.

MOVABLE STEEL VAULT PANEL DETAILS

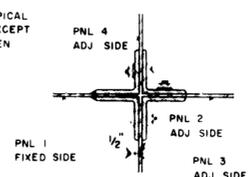
2 - 2 1/2" x 2 1/2" x 1/4" L S
WELDED TO ϕ - SLOTTED AT BOLTS



1 PLAN - TYP. PANEL CONNECTION
SCALE: 3" = 1'-0"

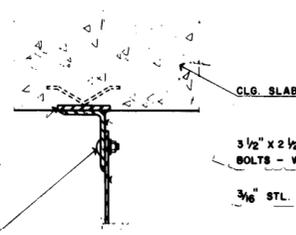
2 - 2 1/2" x 2 1/2" x 1/4" L S
SLOTTED AT BOLTS

3/8" DIA. ROUND HEAD BOLTS -
INSTALL 2'-0" O.C. FROM ALT. SIDES



2 PLAN - 4 WAY PANEL CONNECTION
SCALE: 3" = 1'-0"

1/4" x 3" CONT. STL. ANCHOR
 ϕ - SET 3'-0" O.C. IN
CONC. CLG. SLAB

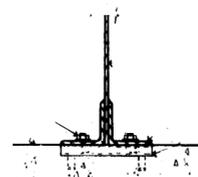


3 SECTION - CLG. CONNECTION
SCALE: 3" = 1'-0"

3/8" DIA. ROUND HEAD BOLT
2 PER PNL. W/ BOLT HEADS
ON OPP. SIDES

3/8" DIA. ANCHOR BOLTS 4
PER PNL. - 2 PER SIDE

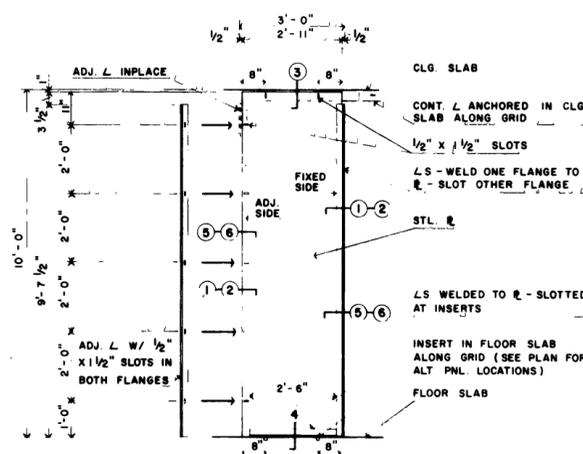
FLOOR SLAB AT 4
WALL LINE AT 5



4 SECTION - FLOOR CONNECTION
SCALE: 3" = 1'-0"

3/16" STL. ϕ - WELDED TO L S

5 PLAN - WALL CONNECTION AT
FIXED SIDE OF PANEL
SCALE: 3" = 1'-0"



7 ELEVATION - TYP. PANEL
SCALE: 1/2" = 1'-0"

2 - 2 1/2" x 2 1/2" x 1/4" L S
SLOTTED AT BOLTS

6 PLAN - WALL CONNECTION AT
ADJ. SIDE OF PANEL
SCALE: 3" = 1'-0"

(CONTINUED)

11. WATER	
TOTAL WATER DEMAND	39 GPM
HOT WATER DEMAND	8 GPM
HOT WATER STORAGE	10 GALLONS
MINIMUM WATER PRESSURE	40 PSIG
12. SEWAGE	
	240 GPD

SITING

THE PROPOSED SITE FOR THE CONSOLIDATED ARMS STORAGE BUILDING, WHEN THE BUILDING IS TO BE LOCATED WITHIN A BARRACKS COMPLEX, SHALL BE NEAR OR ADJACENT TO THE COMPANY ADMINISTRATION / STORAGE BUILDING SO THAT COMPANY TROOP FLOW DURING EQUIPMENT ISSUE MAY PROCEED DIRECTLY FROM THE ADMINISTRATION / STORAGE BUILDING TO EACH COMPANY'S ISSUE ENTRANCE IN THE CONSOLIDATED ARMS STORAGE BUILDING.

SECURITY

1 TO PROHIBIT DIRECT PENETRATIONS INTO ARMS STORAGE VAULTS FROM NON-SECURE AREAS, DUCTS SUPPLYING THE ARMS STORAGE VAULTS SHALL BE RUN FIRST THROUGH ARMORER'S ROOMS. WHERE THESE DUCTS ARE OVER 96 SQUARE INCHES IN AREA AND THEIR LEAST DIMENSION IS GREATER THAN 6 INCHES, SECURITY SCREENS IN ACCORDANCE WITH OCE DRAWING DEF 40-28-01 SHALL BE INSTALLED IN THE DUCTS WHERE THEY PENETRATE THE WALLS BETWEEN THE ARMORER'S ROOMS AND VAULT SHALL BE PROTECTED BY 3/4" INCH DIAMETER STEEL BARS SPACED 4 INCHES MAXIMUM ON CENTER AND SECURELY EMBEDDED IN THE WALL.

2 SECURITY GRILLES SECURELY ANCHORED TO THE CONCRETE ROOF DECK SHALL BE PLACED IN ALL ROOF OPENINGS BENEATH SKYLIGHTS. GRILLES SHALL BE CONSTRUCTED OF 3/4" INCH DIAMETER STEEL BARS SPACED 4 INCHES ON CENTER.

INTRUSION DETECTION SYSTEM

A. PROVIDE EMPTY CONDUIT FOR INTRUSION DETECTION SYSTEM, WITH ALL CONDUIT RUNS ENCASED IN CONCRETE OR MASONRY WALLS OR CEILINGS. TWO INDEPENDENT CONDUIT RUNS SHALL BE PROVIDED. ONE CONDUIT RUN SHALL EXTEND FROM A TERMINAL CABINET LOCATED ON THE WALL BETWEEN THE CORRIDOR AND MECHANICAL ROOM TO A JUNCTION BOX 6 INCHES ABOVE THE DOOR INSIDE EACH ARMORER'S ROOM; ANOTHER RUN SHALL EXTEND FROM THE TERMINAL CABINET TO THE INSIDE SURFACE 6 INCHES ABOVE MAIN ENTRANCE DOOR TERMINATING WITH CONDUIT THREAD EXPOSED AND CAPPED. ADJACENT TO THIS TERMINAL POINT AN ADDITIONAL RUN OF CONDUIT SHALL BE EXTENDED TO EACH EXTERIOR DOOR (EXCLUDING THE MECHANICAL ROOM DOOR) TERMINATING WITH CONDUIT THREAD EXPOSED AND CAPPED. CONDUIT SIZE SHALL BE SUFFICIENT TO ACCOMMODATE ONE 5-CONDUCTOR CABLE (MIN 22 AWG) FROM EACH WALL CABLE TO TERMINAL CABINET BY THE TERMINAL CABINET.

B. ADDITIONAL JUNCTION BOXES, CONNECTED BY THROUGH WALL SLEEVES, SHALL BE PLACED 6 INCHES ABOVE THE VAULT DOORS ON EACH SIDE OF THE WALL AND 6 INCHES BELOW THE SUSPENDED CEILING ON EACH SIDE OF THE REMAINING SIDE WALLS OF THE ARMORER'S MODULES (EXCLUDING THE PERIMETER WALL OF THE VAULT CORE). TWO OTHER THRU WALL SLEEVES WITH JUNCTION BOXES SHALL BE PROVIDED 6 INCHES BELOW THE SUSPENDED CEILING AT THE EXTERIOR WALL NEAR THE MAIN ENTRANCE FOR AN EXTERIOR AUDIBLE ALARM. THESE ADDITIONAL JUNCTION BOXES WILL BE CONNECTED BY EXPOSED CONDUIT WHEN THE INTRUSION DETECTION SYSTEM IS INSTALLED.

C. A JUNCTION BOX FOR 120 V AC POWER SHALL BE MOUNTED ON THE WALL APPROXIMATELY 50 INCHES ABOVE THE FLOOR OVER THE ARMORER'S DESK INSIDE THE ARMORER'S ROOM. ANOTHER SHALL BE MOUNTED ON THE INSIDE WALL NEAR THE MAIN ENTRANCE. THESE JUNCTION BOXES ARE FOR AN INTRUSION DETECTION CONTROL CABINET, APPROXIMATELY 22 INCHES HIGH, 14 INCHES WIDE, AND 8 INCHES DEEP.

D. REFER TO THE DIAGRAM ON THIS SHEET FOR EQUIPMENT LOCATIONS.

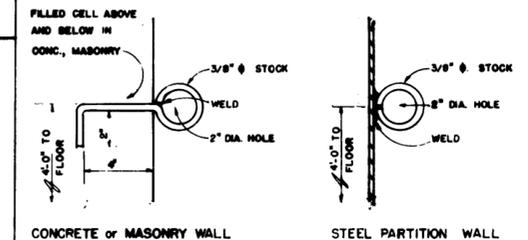


LEGEND

- Terminal Cabinet
- Junction Box Above Door Frame
- Junction Boxes Connected by Thru Wall Sleeves
- Wall Mounted Junction Box - 4'-2" Above Fin. Fl.
- Conduit Terminating w/ Exposed Threads and Capped

DIAGRAM - INTRUSION DETECTION SYSTEM

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



8 ANCHOR RING DETAILS
SCALE: 3" = 1'-0"

SYMBOL	DESCRIPTION	DATE	APPROVAL
▲	ANCHOR RINGS ADDED	3-12-78	

REVISIONS

CHAPMAN & MILLER, ARCHITECTS	DEPARTMENT OF THE ARMY
1840 WISCONSIN AVENUE, N.W. WASHINGTON, D.C. 20007	OFFICE OF THE CHIEF OF ENGINEERS MILITARY CONSTRUCTION ENGINEERING DIVISION WASHINGTON, D.C.

DRAWN BY: L.S.
TRACED BY: _____
CHECKED BY: K.L.
SUBMITTED BY: _____
APPROVED: _____ DATE: _____

CHIEF OF ENGINEERS, BRANCH CHIEF, ENGINEERING DIVISION MIL. CONSTR. D.C.E.
APPROVED FOR THE PROJECT: _____ SCALE AS SHOWN SPEC NO. N/A
DRAWING NUMBER: DEF 33-33-18
DATE: 4 MAY 74 SHEET 2 OF 2