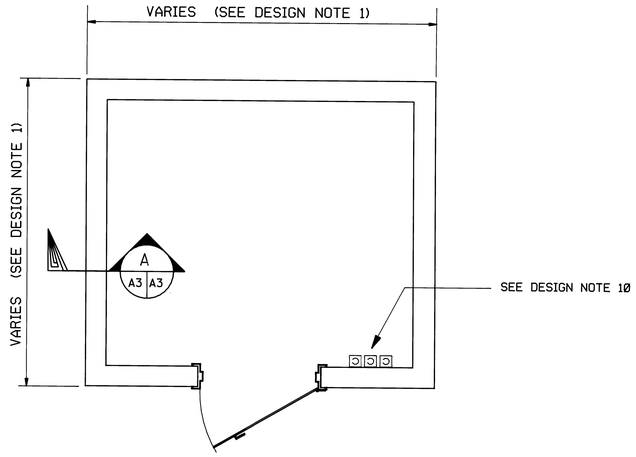
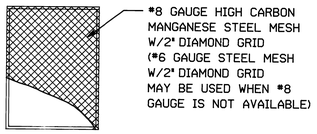


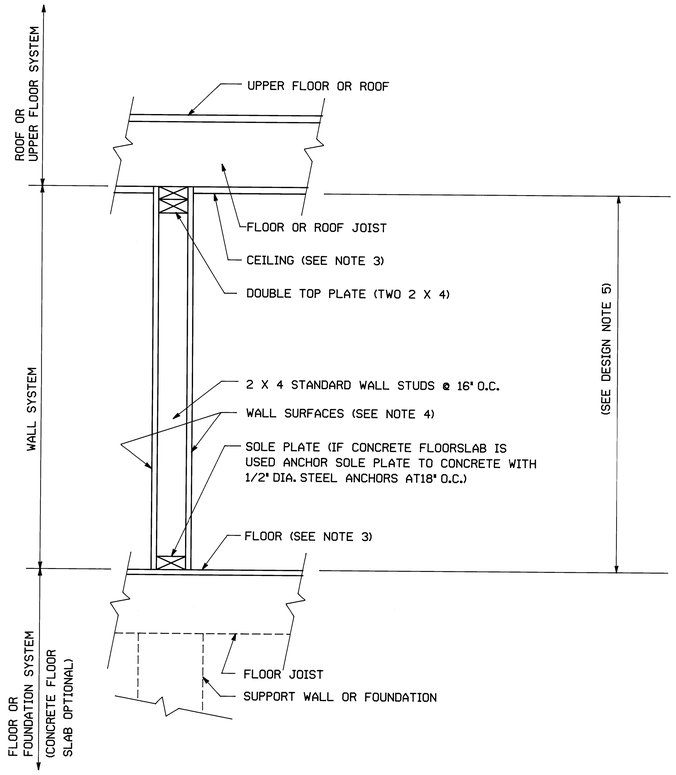
TYPICAL PLAN

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



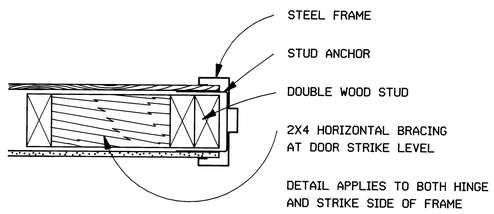
PROTECTION FOR WINDOWS AND OTHER OPENINGS

SCALE: NONE

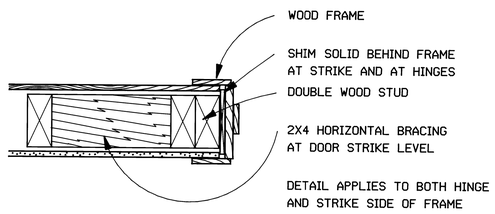


A SECTION

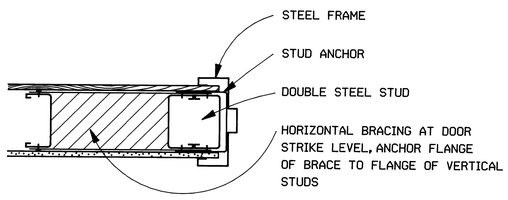
A-3 | A-3 SCALE: 1" = 1'-0"



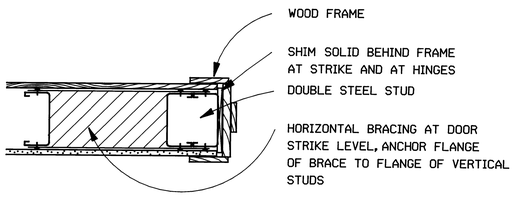
STEEL FRAME/WOOD STUD WALL



WOOD FRAME/WOOD STUD WALL



STEEL FRAME/METAL STUD WALL



WOOD FRAME/METAL STUD WALL

DESIGN NOTES

1. THIS DRAWING IS INTENDED TO BE USED IN CONJUNCTION WITH AR 190-11, PHYSICAL SECURITY OF ARMS, AMMUNITION, AND EXPLOSIVES. THIS DRAWING DEPICTS ARMS ROOM DETAILS THAT CONFORM STRUCTURALLY TO THE REQUIREMENTS OF AR 190-11. ROOM DIMENSIONS, INCLUDING HEIGHT, TO BE DETERMINED BY THE DESIGNER. HVAC AND LIGHTING REQUIREMENTS ARE TOO SITE SPECIFIC TO BE COVERED ON A GENERAL DRAWING OF THIS TYPE.

2. ALL REQUIREMENTS SPECIFIED ON THIS DRAWING ARE THE MINIMUM ACCEPTABLE FOR CONSTRUCTION OF AN ARMS STORAGE ROOM FOR STORAGE OF CATEGORY III & IV ARMS, AS LISTED IN APPENDIX A OF AR 190-11. THE SPECIFIED WALL, CEILING & FLOOR DETAILS ARE FOR SECURITY ONLY. THESE REQUIREMENTS WILL BE MODIFIED, AS REQUIRED, TO INSURE THAT THE WALLS, CEILING AND FLOOR MEET THE DEAD LOAD, LIVE LOAD, AND SEISMIC REQUIREMENTS OF THE SITE.

3. AT A MINIMUM, MATERIALS FOR CEILINGS AND FLOORS SHALL BE 1-INCH (NOMINAL) DOUBLE NAILED TONGUE-AND-GROOVE WOOD SHEATHING OR SIMILAR MATERIAL, SUCH AS, 3/4 INCH PLYWOOD, WHICH PROVIDES A SIMILAR DEGREE OF SECURITY.

4. AT LEAST ONE SIDE OF EACH WALL SHALL BE COVERED WITH 1-INCH (NOMINAL) DOUBLE NAILED TONGUE-AND-GROOVE WOOD SHEATHING OR SIMILAR MATERIAL SUCH AS 3/4 INCH PLYWOOD, WHICH PROVIDES A SIMILAR DEGREE OF SECURITY, THE OTHER WALL SURFACE MAY BE GYPSUM BOARD OR PLASTER SURFACE.

5. AT A MINIMUM, DOORS SHALL BE EITHER (1) 1-3/4" THICK SOLID OR LAMINATED WOOD OR (2) 1-3/4" THICK HOLLOW METAL INDUSTRIAL TYPE CONSTRUCTION WITH A MINIMUM 16 GAUGE STEEL SKIN PLATE.

6. DOOR FRAMES AND THRESHOLDS SHALL BE AS EXACTING AS THE DOORS USED. FOR EXAMPLE, WHEN A METAL DOOR IS USED, THE FRAME AND THRESHOLD SHALL BE METAL.

7. DOOR FRAMES, AND KEEPERS SHALL BE RIGIDLY ANCHORED AND PROVIDED WITH ANTISPREAD SPACE FILLER REINFORCED TO PREVENT DISENGAGEMENT OF THE LOCK BOLT BY PRYING OR JACKING OF THE DOOR FRAME.(SEE DETAILS THIS SHEET). THE FRAMES AND LOCKS FOR BOTH INTERIOR AND EXTERIOR DOORS SHALL BE SO DESIGNED AND INSTALLED TO PREVENT REMOVAL OF THE FRAME FACING OR THE BUILT-IN LOCKING MECHANISM TO ALLOW DISENGAGEMENT OF THE LOCK BOLT FROM OUTSIDE A SECURED ROOM WHEN THE DOOR IS CLOSED AND LOCKED.

8. HINGES FOR ARMS STORAGE ROOM DOORS, HINGES SHALL BE OF FIXED PIN SECURITY HINGE TYPE OR EQUIVALENT; EXPOSED HINGE PINS SHALL BE PEENED, SPOT WELDED, OR OTHERWISE SECURED TO PREVENT REMOVAL; AND HINGE MOUNTING SCREWS MAY NOT BE EXPOSED TO THE OUTSIDE OF THE ARMS ROOM.

9. WINDOWS, DUCTS, VENTS, OR SIMILAR OPENINGS OF 96 SQ. INCHES OR MORE WITH THE LEAST DIMENSION GREATER THAN 6 INCHES SHALL BE COVERED WITH STEEL MESH SECURELY EMBEDDED IN THE STRUCTURE OF THE BUILDING OR WELDED TO A STEEL FRAME THAT SHALL BE SECURELY ATTACHED TO THE WALL WITH FASTENERS INACCESSIBLE FROM THE EXTERIOR OF THE ARMS STORAGE FACILITY.

10. PROVIDE 3-6" X 6" WALL MOUNTED BOXES. BOXES SHALL BE FOR (1) INTRUSION DETECTION SYSTEM [IDS] COMMUNICATIONS TO TELEPHONE BACKBOARD, (2) TELEPHONE COMMUNICATIONS TO TELEPHONE BACKBOARD, AND (3) DEDICATED IDS POWER PANEL. CONDUITS SHALL BE SIZED ACCORDING TO REQUIRED LENGTH OF RUN.

11. ARMS ROOM DOORS SHALL BE LOCKED WITH DA OR DOD APPROVED HIGH SECURITY SECURITY LOCKING DEVICES OR HIGH SECURITY PADLOCKS AND HASPS PROVIDING COMPARABLE PROTECTION TO THE LOCKS IN ACCORDANCE WITH AR 190-11.

1" = 1'-0" 12" 9" 6" 3" 0" 6" 1' 2'

1/2" = 1'-0" 12" 6" 0" 1' 2' 3' 4' 5'

Symbol	Description	Date	Approved

Revisions

U S ARMY ENGINEER DIVISION, HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

ROOM,ARMS STORAGE
(CATEGORY III & IV ARMS)
ARCHITECTURAL

PLAN-SECTIONS-DETAILS & SPEC.

Dwn. by : | Ckd. by :

Reviewed by : | Date : | Sheet reference number : | Design file no.: | Rev.

Approved by : | Drawing code : 141-90-04 | A-3 | Sheet of