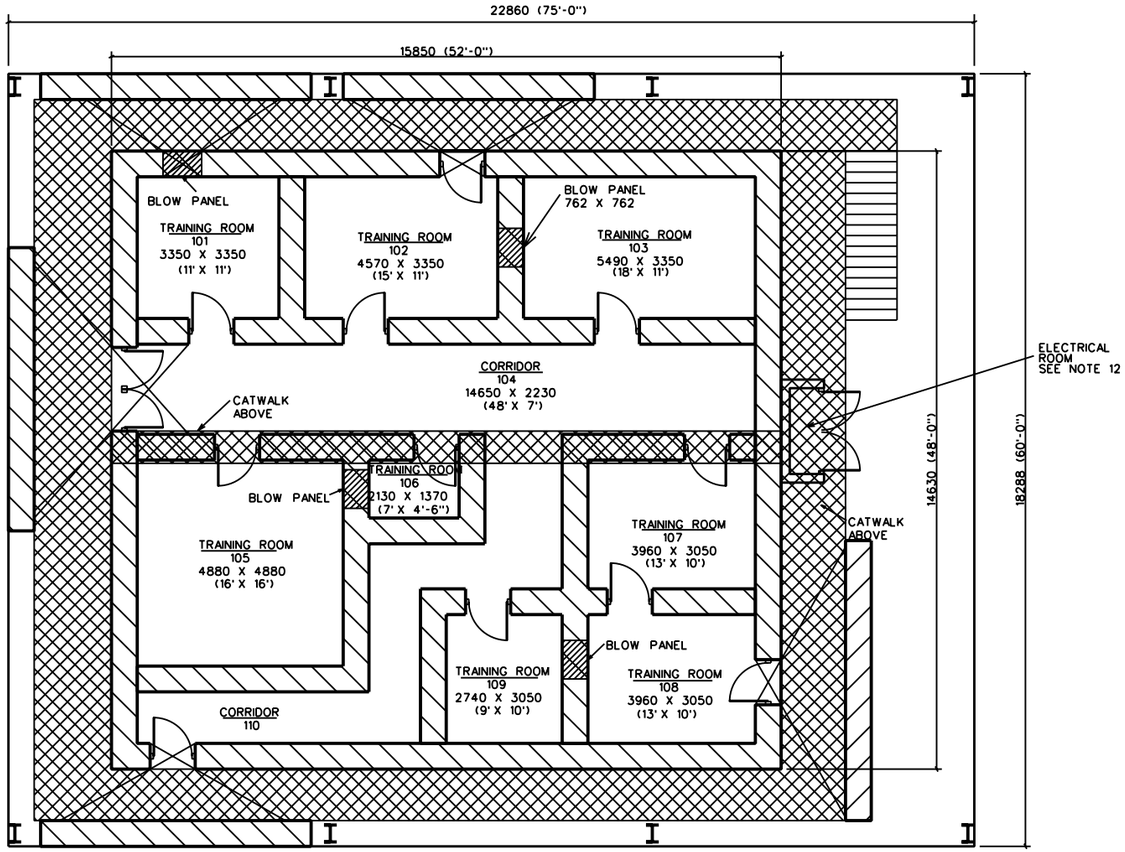
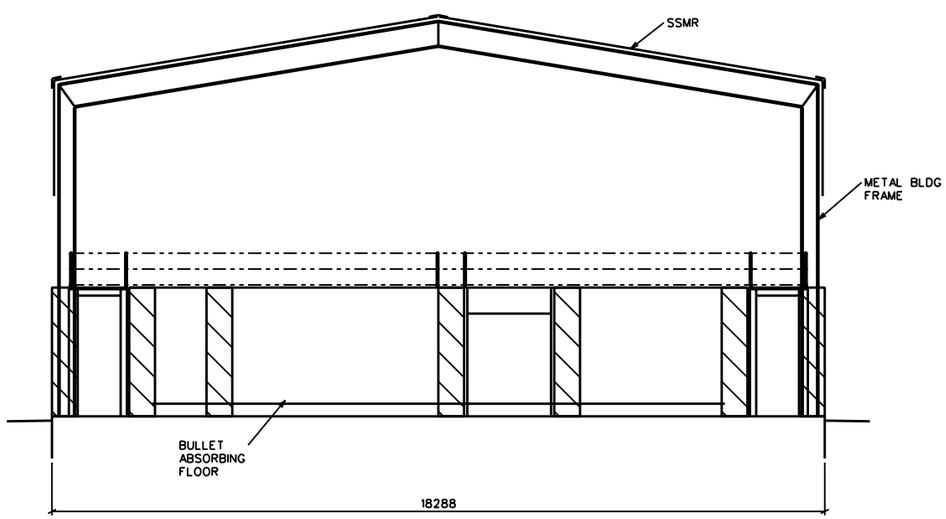


SHOOT HOUSE - FLOOR PLAN



BUILDING SECTION

NOTES

1. The standard shoothouse includes a minimum net training space of approximately 158 square meters (1700sf). The actual size of the facility depends on the thickness of the bullet absorbing material chosen. The standard depicts 610mm (24") thick walls.
The gross area of the shoothouse should be kept to a maximum of 232 square meters (2500sf).
The shoothouse cover should be kept to a maximum of 418 square meters (4500sf).
2. Bullet absorbing wall may be SACON, sand filled wall section or other commercial product designed to stop and contain rounds and ricochets.
3. Seperate bullet traps should be used behind targets to reduce the number of rounds impacting the walls.
4. Bullet absorbing wall system must be designed to be replaceable or repairable.
5. The shoot house is not designed for live fragmentation/concussion grenades.
6. The shoot house must be designed to accommodate the types of mechanical and explosive breaching techniques that will be used.
7. The SDZ of the facility is based on the locations of the firing points and targets, the weapon systems used and the ricochet characteristics of the bullet absorbing walls, a deviation is normally required.
8. The shoothouse must provide a means of stopping and containing rounds exiting through the exterior doors and blow holes in the shoothouse. This may be done using additional bullet absorbing wall material, earth berms, or other method.
9. The layout of the rooms may be changed from the standard in order to support a units particular training tasks.
10. The electrical room and catwalk should be designed so they are not supported by the shoothouse walls to allow panel replacement.
11. The catwalk may be extended over other areas of the shoothouse if needed.
12. The electrical room is 2.032m (6'-8") wide and 0.8128m (2'-8") deep with a 1.8288m (6'-0") wide doors on the front to provide required access to data enclosure and panel board.

MECHANICAL

Ventilation cooling shall be provided for the electrical room. Provide exhaust fan with interlock to motorized louver/damper. Thermostat setpoint for activation of exhaust fan shall be 100 degrees F. Exhaust fan control sequence and thermostat setpoint of 100 degrees F shall be shown on design drawings. Locate fan and louver to optimize cross ventilation in the room.

FIRE PROTECTION

Fire Protection is NOT required per fire codes for this building. Consult local Fire Marshall for compliance with local laws.

BULLET ABSORBING WALL PANEL
SEE NOTE 1

CATWALK

US Army Corps of Engineers

Rev.	Description	Date	Approved

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | Design file no.
Reviewed by: | Drawing code:
Submitted by: | File name: | Plot date: | Plot scale:

U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

15 MAY 2007

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

SHOOT HOUSE
FLOOR PLAN

Sheet reference number:
SHH-A-1