

GENERAL INSTRUCTION BUILDING



Function: This building is an instruction area for troops before, during, and after range use.

Design Details: The configuration of the general instruction building shown in the ROCA Details in the Appendix of this document may be modified by the designer, based on the functional requirements of the building's designated use.

Size:	74.3 square m (800 square ft)
Occupancy:	40 personnel
Foundation:	Concrete slab on-grade with turned-down edges
Shell:	Structural steel frame with metal siding or reinforced split-faced CMU
Roof:	SSMR on wood trusses with batt insulation
Doors:	Insulated hollow metal
Windows:	Aluminum frame with polycarbonate glazing
Interior Finishes:	Painted sheetrock or CMU, sheetrock ceiling
HVAC:	Through wall heat pump - site adapt
Standard Lighting:	Fluorescent
Special Lighting:	Exit, Emergency, also see Night Operations Lighting paragraph
Lightning Protection:	None
Electrical Service:	120/240Vac, single phase, 3-wire secondary
Data Communication:	network cable from the Range Operations Center (ROC) (optional for future use)

Primary Power Distribution: The primary power distribution service may be overhead or underground. The ROC-Control Tower may also supply power to the building depending on the physical separation between the two structures.

Electrical Service: The General Instruction building will be supplied in the Appendix of this document with a main breaker power distribution panel that has separate circuits for the lighting, convenience outlets, control, and HVAC equipment.

Lighting: Exit and emergency lighting shall be provided in accordance with NFPA101 and NFPA70.

Night Operations Lighting. To prevent interference with specialized equipment used during night operations, red lenses or red lamps must be provided in addition to standard lighting if the following conditions exist.

- Night training will be performed
- ROCA buildings are near the firing positions
- ROCA building has windows that cannot be covered.

Separate switching for the standard and red lighting shall also be provided, located near points of egress.

Grounding: Grounding is required for safety. Building electrical system grounding will require one or more ground rods connected to the service panel in accordance with NFPA 70.