

RANGE AND TRAINING REGULATIONS

Maximum of 5 POVs are authorized to park in parking lot area with or without a POV pass
Road & River Report Dependant

Range: R-104B	Lateral Limits: Sniper FFP		Allowable Wpns: Rifles - 7.62mm (Sniper FFP Only) Rifles - 5.56mm and below (No Tracer) Pistols - .45 cal. and below Service Shotgun – All Grenade - M68 Practice & M67 Frag Flash Bangs SESAMS	Assigned to: CO, MCB Date Revised: 19 April, 2012
Location: 65419 85083	PDF – 248 ° Mag MSL - 233 ° Mag			
Elevation: 065' MSL	Boundaries: NA			
Type: SACON	Min/max Engagement Distance: Min 1 meters Max 20 meters			
Troop Penetration: None	Impact Area: X-Ray	Range Phone #(s): None	Range Facilities: Bleachers; SACON; ammo table; port-a-johns; Parking Lot	



Scheduling

1. All scheduling requests for R-104B shall be submitted via their battalion. Unit will utilize RFMSS to schedule range.
2. All personnel conducting live fire must have completed the required live fire qualification (**NLT than 48 hours**) prior to shooting on this range.
3. When conducting Force-on-Force no shooting member shall have conducted live fire within 24 hours of this event.

Scheduling Conflicts	R104B	Conflict Notes
Alison Canyon	1	Note (1) – None.
R103	1	

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GENERAL INSTRUCTIONS

1. **A safety Brief will be conducted prior to each live fire event to all participants.**
2. **All personnel shall wear required PPE during all training events.**
3. **OIC & RSO Requirements -**
 - a. **Live Fire, SESAMS, Flash Bangs & BFX**
 - i. **OIC Requirement – GySgt or Above**
 - ii. **RSO Requirement - SSgt or Above**
 - b. **Blanks**
 - i. **OIC Requirement – SSgt or Above**
 - ii. **RSO Requirement - Sgt or Above**
 - c. **No Munitions**
 - i. **OIC Requirement – None**
 - ii. **RSO Requirement - Cpl or Above**
 - iii. **LASER (If Used) LSSO Requirement - Sgt or Above**
4. IOT **occupy** this range unit must have the following personnel/equipment:
 - a. RSO
 - b. Corpsman & Safety Vehicle
 - c. Positive Communication with LONGRIFLE
 - d. **An ORM reviewed and signed by the Command, RSO and OIC.**
5. IOT go into a **hot status** on range unit must have the following personnel/equipment:
 - a. OIC
 - b. RSO
 - c. **LSSO – If using Laser**
 - d. Corpsman & Safety Vehicle
 - e. Positive Communication with LONGRIFLE
6. The RSO & OIC will personally observe each event.
7. **A non-participating Corpsman will be stationed with safety vehicle.**
8. Ammunition will only be issued per event and accounted for on NAVMC 11381.
9. After each event, unit leaders will conduct a line out.
10. Each RSO/PSO will certify to the OIC that all weapons are in Condition 4 prior to exiting the range/facility and all ammunition is accounted for.
11. All weapon malfunctions shall be corrected per the appropriate TM/FM, and unit SOP.

SACON House

- a. **All personnel shall conduct a non live-fire rehearsal prior to conducting live-fire scenarios.**
- b. The OIC and RSO will accompany personnel as they execute both the rehearsal and the live -fire scenario.
- c. Inside House (**NO M855 BALL/TRACER AMMO NO BURST FIRE/M249s ARE ALLOWED.**)
- d. **No shots will be taken from outside to inside, a room to a room, hallway to a room or room to the hallway.**
- e. **The RSO will accompany personnel as they execute both the rehearsal and the live -fire scenario.**

Qualifications

1. **OIC and RSO certification & qualification to conduct shoot house training shall be indicated on the unit ORM.**
2. **Shooter Qualifications –**
3. All personnel conducting live fire must have completed the required live fire qualification prior to shooting on this range.
4. “Current” qualifications must meet the following criteria:
 - a. Qualification must be completed within 48 hours prior to conducting training.
 - b. Qualification must include both static and moving courses of fire.
 - c. Qualification **shall be indicated as completed on unit ORM.**

Sectors of Fire

- a. No shots will be taken from outside to inside, a room to a room, hallway to a room or room to the hallway.
- b. No shots will be taken outside the authorized lateral limits of each room.
- c. **Square Room Center Door**
 - #1 Man – Primary Sector:
 - Corner to corner to Center wall – 1 meter overlap
 - #1 Man – Secondary Sector:
 - Corner to Center wall
 - #2 Man - Corner to corner to Center wall – 1 meter overlap
 - # 3 Man – Center wall to center wall
 - # 4 Man – Center wall to center wall
 - # 5 Man – Center wall to corner
- d. **Square Room Corner Door**
 - #1 Man – Primary Sector:
 - Corner to corner – 1 meter overlap
 - #1 Man – Secondary Sector:
 - Corner to Center wall
 - #2 Man - Corner to center wall
 - # 3 Man – Center wall to center wall
 - # 4 Man – Center wall to center wall
 - # 5 Man - Center wall to center wall

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Grenades

- 1. While conducting rehearsals and live fire with hand grenades, the RSO will ensure:**
 - a. Only the OIC, RSO, and a maximum of two squads are permitted within the Grenade SDZ.**
 - b. The RSO will directly supervise and control the throwing of fragmentation grenades.
 - c. Hand grenades will be carried in accordance with FM 23-30. No individuals will be transported by vehicle while carrying grenades attached to web equipment.
 - d. Live Fire signs will be posted all times when the SACON House is hot as depicted in the graphics.**
 - i. If signs are not available, then unit will utilize range guards.**
 - e. Fragmentation grenades shall be thrown IN THE LARGE ROOM ONLY, and only to the opposite corner of the stack position. (Refer to figure).
 - f. RSO will ensure at least one layer of sand bags are placed forming an outer edge of a 9-foot square "grenade pit" where grenades are authorized to be thrown. (Refer to figure) Sand bags will be removed prior to departing range.**
 - g. No grenade will be thrown if there is any standing water or mud in the target area (grenade pit).**
 - h. Only one grenade will be thrown at a time.
 - i. Only five personnel (RSO & maximum of four shooters) will be allowed in SACON while grenade is being thrown.**
 - j. Thrower will step out into the door way and identify the target area.
 - k. Grenade will be thrown with outboard hand only.
 - l. Once a pin is pulled on a fragmentation grenade, it will not be reinserted into the grenade.
 - m. Once a grenade is thrown, all personnel executing the scenario and the RSO shall be against the protective walls, **inside the designated grenade safety area**, with no portion of their bodies exposed to the room into which the grenade was thrown.
 - n. No personnel will be stacked against the opposite wall, forward of the front door.**
 - o. Grenades will be thrown during daylight hours only. At no time will a grenade be thrown any later than 1 hour before sunset.**
 - p. If a dud grenade is experienced, all activities within the structure or danger area will stop, personnel will remain within a safe area for a minimum of 5 minutes and then evacuate the structure or area until EOD clears the dud.
 - q. A dud fragmentation grenade will be reported immediately to LONGRIFLE and the RCO. A ceasefire will go into effect immediately. Accurately note the time of the dud, as Explosive Ordnance Disposal personnel must wait thirty minutes prior to clearing the dud.
 - r. EOD personnel will destroy dud grenades in place or safe and remove before troops enter the grenade impact area. If EOD personnel are unable to locate or destroy any dud grenades, troop maneuver through the impact area is not authorized.
 - s. At no time is a second grenade to be thrown in an effort to dispose of a dud grenade.
 - t. After throwing four fragmentation grenades, the sand floors will be restored by replacing sand and raking the floor. **Rakes will be provided by the using unit.**
 - u. All personnel will conduct a non live-fire rehearsal prior to conducting live-fire scenarios.
 - v. If that live fire scenario includes HG fragmentation grenades, than all personnel who will be throwing M67s will have thrown at least one practice (Blue Body) grenade with fuze during rehearsals.**

Sniper Supported Attack Option	Sniper FP
<ol style="list-style-type: none"> 1. Marines shall not engage any targets until they are inside the SACON. 2. At no time shall anyone cross the MSL until verification that the Snipers are all in Condition 4. 	<ol style="list-style-type: none"> 1. Sniper FP - 65609 85121 LLL: 248° mag MSL: 233° mag 2. 15° rule in effect 3. Min Safe Line shall be identified to all participants. 4. At no time will be entry team be forward of the Sniper MSL

SESAMS

- 1. A "SESAMS training In Progress" Sign shall be posted at each entrance outside the building by the unit.**
1. All participating Marines will be required to wear flak, Kevlar, throat/groin protector, contact gloves, utilities, hearing protection, and approved masks.
2. All personnel will wear the specified gear when inside the safety perimeter.
3. You shall have a minimum of two NCOs or higher to act as safety controllers.
 - a. These Marines will ensure that there are no intentional headshots.
 - b. No engagements closer than 7 feet for the 9mm.**
 - c. No engagements closer than 14 feet for the 5.56mm.**
4. All Marines will be lined out before any SESAMS rounds are distributed.
5. All SESAMS magazines will be clearly marked, as will the barrels.
6. Following the completion of the training, all Marines will be lined out again
- 7. Ensure all training is conducted IAW SOUM 2-10**

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Flash Bangs

1. While conducting rehearsals and live fire with flash bangs, the RSO shall ensure:
 - a. Flash Bangs shall be carried in pouches.
 - b. No flash bang shall be thrown if there is any standing water or mud.
 - c. **Only one flash bang shall be thrown at a time.**
 - d. The maximum number of grenades to be throw by an individual thrower are:
 - i. 2 with single hearing protection and 41 with double hearing protection.
 - ii. **No one shall be closer than 5 meters (16.5 feet) of detonation.**
 - e. Human target participation is not authorized.
Once a pin is pulled on a flash bang, it shall not be reinserted into the flash bang.

Breaching Operations

1. **Mechanical Breaching**
 - a. All mechanical breaching will be conducted utilizing tools from issued breaching kits.
2. **Ballistics Breaching**
 - a. Ammunition will only be issued per event.
 - b. Only commercial breaching rounds shall be used.
 - c. **Wooden uprights and targets are to be supplied by the using unit.**
 - i. Dow rods for shotgun breaching should be no larger than 3/4 "
3. **Explosive Breaching – A breaching Brief will be conducted with the RCO NLT 14 days prior to event.**
 1. All breaches will be set on doors and frames provided by the by the using unit that are mounted to reduce any hazards to the building.
 - i. Approved framing will consists of:
 1. 1/2 inch plywood covering entire threshold, sides and overhead of doorway.
 2. 2x4 placed to form a frame on plywood covering.
 3. Only use plywood 1/4 inch to construct "doorway".
 4. If using actual doors, only hollow core wooden doors shall be used.
 - b. The breach will consist of a field expedient urban breaches (duel primed) at no more than .18 lbs NEW (Any Requests for waivers for this requirement **shall not be approved**).
 - c. Max Ord is 185 feet AGL for vertical or fragmentation hazard at .18 lbs NEW.
 - d. A maximum K – Factor of 18 (3.5 PSI) will be utilized and all personnel are to follow the below unshielded safety standoffs.
 - e. **If shielded, RSO may reduce standoff by 50%.**
 - f. Double hearing protection required for all PSIs at or above 1.68.
 - g. All personnel will be set in position prior to initiating the breach.
 - h. All exposed building material must be covered/framed IOT prevent any damage to the structure.
 - i. A safety Brief will be conducted prior to each live fire event to all participants.
 - j. The RSO & OIC will personally observe each live fire event.
 - k. Each breach will be inspected and approved by the RSO.
 - l. Time fuse will be cut and tested by RSO (30 Sec. Min. Time).
 - m. Any Electrical Systems will be tested by RSO.
 4. There will be additional safety personnel assigned as follows:
 - a. A PSO will travel with each breaching team.
 - b. Each PSO will have positive communication with the RSO.
 5. Live Fire signs will be posted all times when the SACON House is hot as depicted in the graphics.
 6. The OIC is responsible for all charges, and ensuring all misfire procedures is in compliance with current directives.

K FACTOR

	40	30	24	18	11	9	6
NEW OF CHARGE (TNT EQUIVALENT)	1.2 -.9 PSI	1.7 PSI	2.3 PSI	3.5 PSI	8 PSI	12 PSI	27 PSI

Distance in Feet From Detonation

0.05	14.73612599	11.0520945	8.841675597	6.631256698	4.052434649	3.315628349	2.210418899
0.1	18.56635533	13.9247665	11.1398132	8.354859901	5.105747717	4.17742995	2.7849533
0.125	20	15	12	9	5.5	4.5	3
0.15	21.25317138	15.93987854	12.75190283	9.563927123	5.844622131	4.781963561	3.187975708
0.155	21.48674142	16.11505606	12.89204485	9.669033639	5.90885389	4.834516819	3.223011213
0.18	22.58486469	16.93864852	13.55091882	10.16318911	6.210837791	5.081594556	3.387729704

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**Medevac Planning Information
All Medevacs Go Through LONGRIFLE**

Name	Address	Travel Time		Phone	Helipad		Burn/Trauma	
		Air	Grd		Yes	No	Yes	No
US Navy Hospital–NHCP	Bldg H-100 CPend	3	10	760-725-1611	X			X
Tri City Medical Center	4002 Vista Way, OSide	8	20	760-940-3507	X			X
Mission Viejo Medical Cntr	27700 Medical Center Rd.	10	30	949-364-1181	X		X	
Scripps, La Jolla	9888 Genesee Avenue	10	40	858-626-6151	X		X	
Palomar Medical Center	555 E. Valley Parkway, Esc.	10	40	760-739-3301	X		X	
UCSD Medical Center	200 W. Arbor Drive, SD	20	60	619-543-2154	X		X	

RANGE 104B

ROAD GUARD POSITIONS

- #1: 65607 85108
- #2: 65611 85054
- #3: 65609 85034
- #4: 65321 84929

SAGON

Sniper Target

Sniper FP

AST

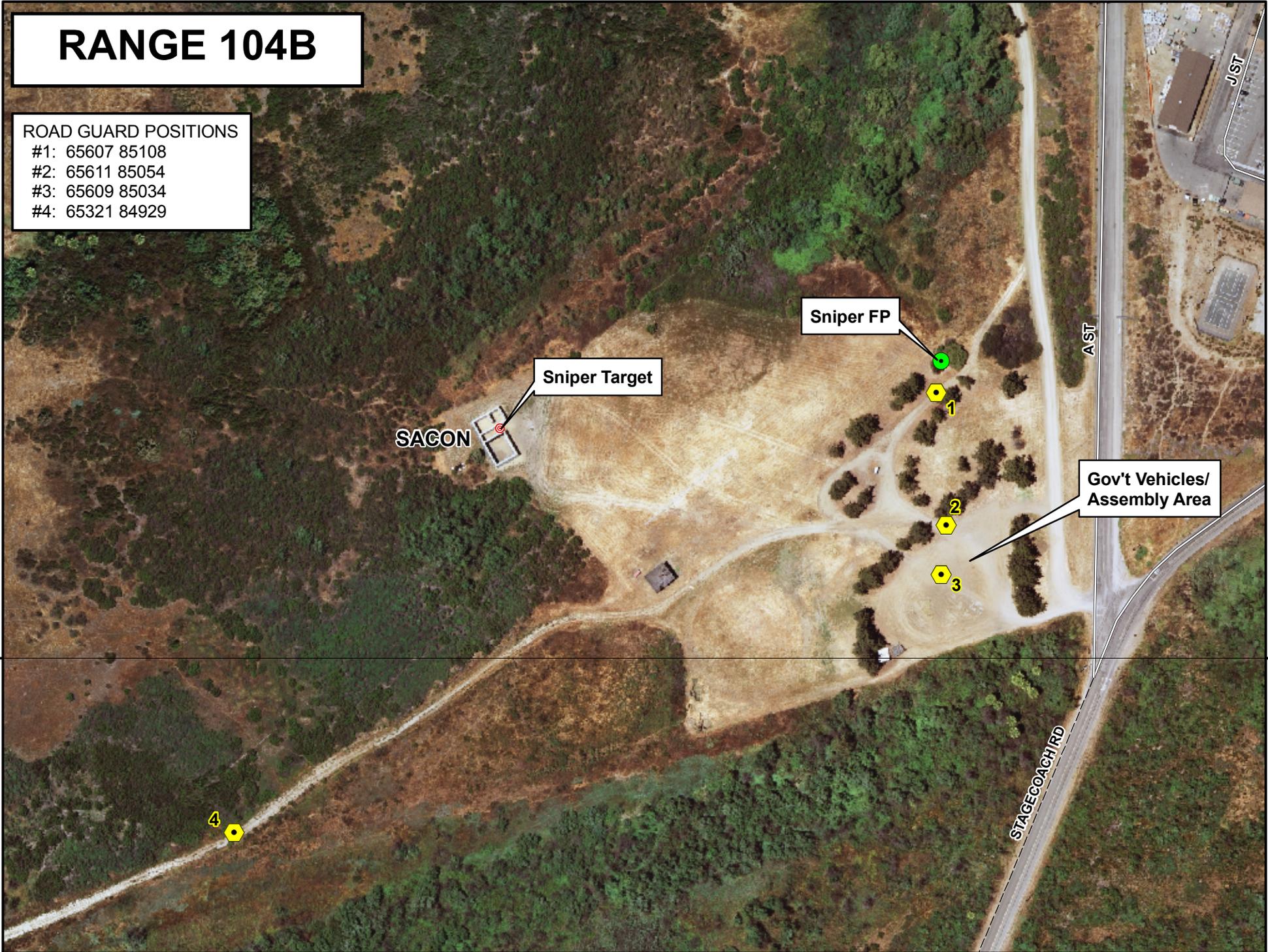
Gov't Vehicles/
Assembly Area

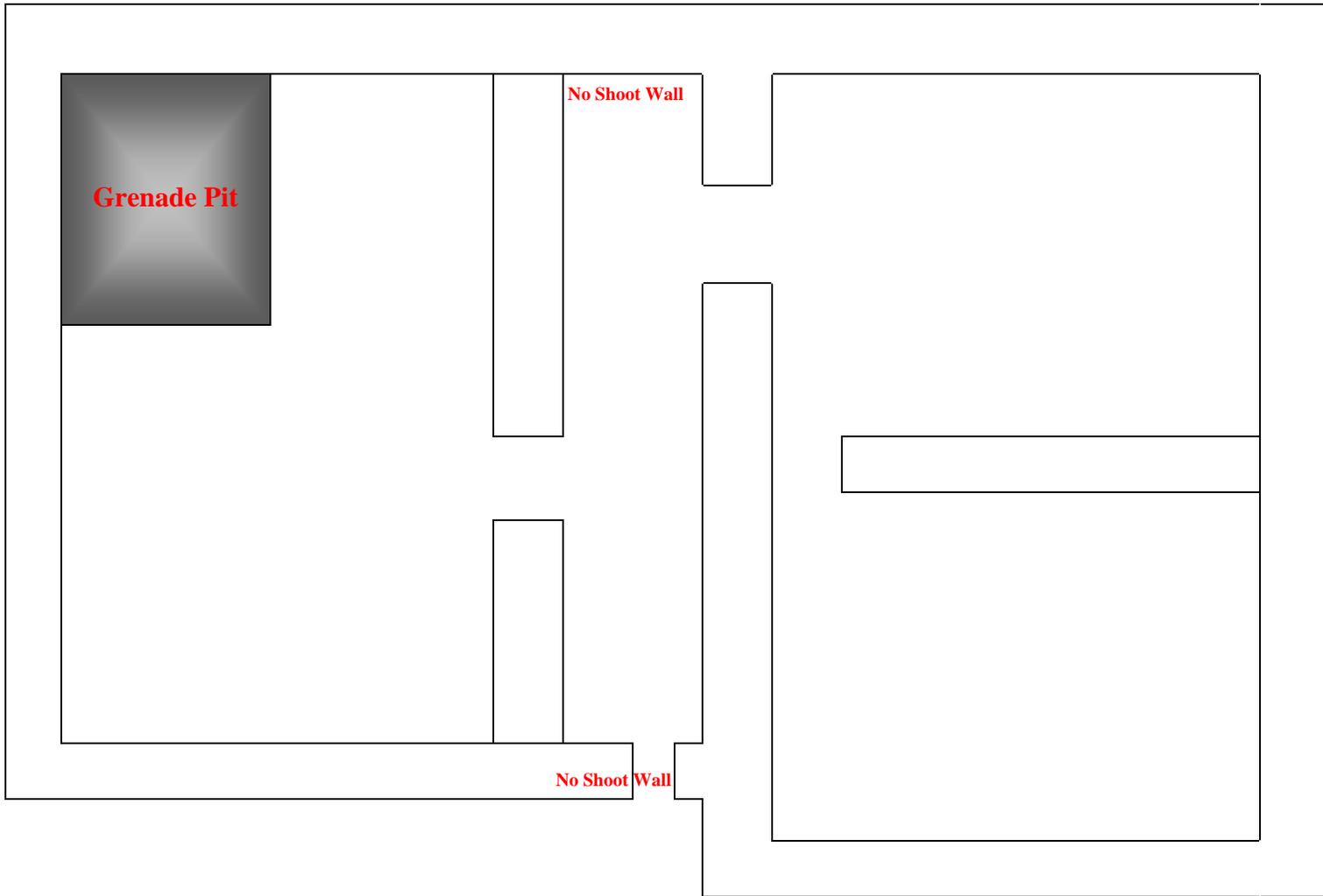
JST

STAGECOACH RD

36 85 000m N

85





Grenade Pit

No Shoot Wall

No Shoot Wall