

**FIRING/NONFIRING DATA**

*For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS*

<b>TO:</b> Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	<b>Date:</b> 22 August 2013      Log # <b>8-4-13</b> <b>Range:</b> Griswold Range <b>Title:</b> Team/ Squad Live Fire Exercise (Day & Night) <b>Problem No:</b>
<b>THRU:</b> Commander, 3HBCT, 3rd ID Fort Benning, GA 31905	<b>FROM:</b> S-3, 3ABCT, 3rd ID Fort Benning, GA 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CP/Controller Coordinates: GA 9773 7406

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges
See Attached Weapons and Ammo Enclosures	See Attached Weapons and Ammo Enclosures	See Attached Weapons and Ammo Enclosures	N/A

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Attached Weapon and Ammo Enclosures	See Attached Weapon and Ammo Enclosures	See Attached Weapon and Ammo Enclosures	See Attached Weapon and	See Attached Weapon and

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

**SECTION V, NON-LIVE FIRE TRAINING**

<input checked="" type="checkbox"/> Scenario of training to be conducted: <input checked="" type="checkbox"/> Sketch of area: <input checked="" type="checkbox"/> Risk Assessment: <input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	Training area(s) to be occupied:  <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
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Name/rank of requesting officer: Patrick K Smith, SFC, Master Gunner 	Name/rank of Major Unit S3/Commander: Alexis Rivera Espada, MAJ, S3 
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**SECTION VI, FOR RANGE DIVISION USE**      **DATE:** 29 August 2013

<b>TO:</b> S-3, 3ABCT, 3rd ID Fort Benning, GA 31905	<b>FROM:</b> Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed: b. Road(s) to be closed/road barrier locations: c. Remarks: d. This approval expires: <b>28 Aug 15</b>	All Lasers are considered eye safe for training. The PEQ-2A will be set to dual low or aim low at all times. Laser warning signs will be in place when PEQ-15 lasers are in use.
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Chief, Range Division  
Directorate of Plans, Training, Mobilization and Security



**DEPARTMENT OF THE ARMY**  
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE  
1 KARKER STREET  
FORT BENNING, GEORGIA 31905-5000

REPLY TO  
ATTENTION OF  
ATZB-SO

10 August 2011

MEMORANDUM FOR Commander, 1/15<sup>th</sup> IN Battalion, Attn: SSG S. Gayle, Fort Benning,  
GA 31905

SUBJECT: 1-15<sup>th</sup> IN Bn Tm/Sqd Live Fire (Griswold) Safety Review

1. References.

- a. 1-15<sup>th</sup> IN Bn Tm/Sqd Live Fire (Griswold) Concept, dated 08 August 2011
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007,
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- e. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- f. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- g. Field Manual 5-19, Composite Risk Management, August 2006

2. Concur with comments.

- a. Paragraph 7e. The lower of the targets is a targeting division mission, dictating or delegating to the target operator is outside his scope of responsibilities and holds him/her liable.
- b. Further establish duties and responsibilities for the OIC in accordance with DA Pam 385-63 and the use of Class III lasers.
- c. CRMW. Misfires Due to 40mm Round Malfunction. Recovery of M918 TP projectiles must be addressed in accordance with DA Pam 385-63, paragraph 7-2c(9). 0-mm M918 TP projectiles will follow the procedures outlined in TB 9-1310-251-10. The use of protective goggles or face shield, gloves, and tongs while handling M918 TP rounds is mandatory.
- d. CRMW. Heat Casualty/Cold Weather Injury. Initial risk assessed as "MODERATE" should reflect a "HIGH" due to the catastrophic effects of heat injuries.

ATZB-SO

SUBJECT: 1-15<sup>th</sup> IN Bn Tm/Sqd Live Fire (Griswold) Safety Review

e. CRMW. Heat Casualty/Cold Weather Injury. Residual risk assessed as “LOW” should reflect a “MODERATE” due to the catastrophic effects of heat injuries.

f. CRMW. Injury Due to a Negligent Discharge. Initial risk assessed as “MODERATE” should reflect a “HIGH” due to the catastrophic effects of the threat.

g. CRMW. Injury Due to a Negligent Discharge. Residual risk assessed as “LOW” should reflect a “MODERATE” due to the catastrophic effects of the threat.

3. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, [michael.w.risher@conus.army.mil](mailto:michael.w.risher@conus.army.mil)



JILL E. CARLSON

Director, MCoE/USAG Safety

**Griswold 1-15 Team/Squad LFX (Log #7-26-11) Weapons/Ammo List Enclosure**

<b>Firing Positions</b>	<b>Weapons</b>	<b>Ammunition</b>	<b>Left Limit Degrees, Grid Az</b>	<b>Right Limit Degrees, Grid Az</b>
OP: 9752 7426	M16/M4, M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP	340	30
SBF: 9752 7435 to 9754 7435	M16/M4, M249, M203 M240	5.56mm Blank/Ball/Tracer, 40mm TP 7.62mm Blank/Ball/Tracer	350	015
Assault Start: 9746 7440 to 9748 7438	M16/M4, M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP	020	050
Assault Stop: 9753 7446 to 9754 7445	M16/M4, M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP	010	050
LOA/Counter Attack: 9753 7446 to 9754 7445	M16/M4, M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP	010	050

The following lasers will be utilized: PEO-2, PAQ-15 ( Laser warning signs will be in place prior to training). See scenario paragraph 5 for a list of the various Pyrotechnics to be used.



DEPARTMENT OF THE ARMY  
1<sup>ST</sup> BATTALION, 15<sup>TH</sup> INFANTRY REGIMENT  
3<sup>RD</sup> HEAVY BRIGADE COMBAT TEAM  
FORT BENNING, GA 31905



AFZP-VIA

20 July 2011

MEMORANDUM FOR CHIEF, RANGE OPERATIONS, DPTMS, Fort Benning, Georgia  
31905

ATTN: MR. TESCH, FORT BENNING, GA 31905

SUBJECT: Scenario for Griswold Range Squad Attack Live Fire Exercise (Day & Night)

1. The purpose of this memorandum is to outline the scenario for the Squad Live Fire Exercise to be conducted at Griswold Range. The information is provided in accordance with MCOE Regulation 350-19.
2. PURPOSE OF EXERCISE: The purpose of the exercise is to gain a basic proficiency with Squad Battle Drill 1A Squad Attack and to gain confidence in maneuvering as a squad in a live fire environment.
3. TRAINING TASKS: The tasks to be trained include the following:
  - a. Individual Tasks
    - (1) Engage targets with an M4, M249 and M240B
    - (2) Move as a member of a fire Team and squad
    - (3) Engage targets with a M203 Grenade Launcher (TP rounds)
    - (4) Individual Movement Techniques (IMT)
    - (5) Use visual signaling techniques while dismounted
    - (6) Perform as a member of a patrol
    - (7) Perform aid for casualty
  - b. Leader Tasks
    - (1) Conduct Troop Leading Procedures
    - (2) Analyze terrain
    - (3) Conduct movement techniques by squad
    - (4) Consolidate/Reorganize following enemy contact while in the offense
    - (5) Develop and communicate a plan
    - (6) Issue an oral Operations Order
    - (7) Call for close air support (notional)
  - c. Collective tasks to be trained:
    - (1) Prepare for combat

- (2) Move tactically
  - (3) Execute an assault
  - (4) Perform consolidation and reorganization
  - (5) Occupy an Assembly Area
  - (6) Perform over watch/support by fire
  - (7) Knock out a bunker
  - (8) Take Action on Contact
4. AMMUNITION: 5.56mm Ball/Tracer, 5.56mm Ball/Tracer Link (4:1), 7.62mm Ball/Tracer, 40 mm (TP)
  5. PYROTECHNICS: Hand Smoke/ G930, G940, G945, G950, G955; Signal, Ilium Para L306, L307, L312, L314
  6. GENERAL CONCEPT OF OPERATION: The squad encounters an OP / lookout Vic target 1 (FA 9760 7427). The squad leader (SL) has to make a decision based on the contact to instruct the lead team to fight thru the contact or to begin to maneuver the squad. The Squad Leader will receive a FRAGO to move out on a Movement to Contact while the remainder of the Squad defends the assembly area. The squad will travel in a formation. All squads will conduct day/night blank rehearsal on the objective prior to day live fire execution. OIC and RSO ensure all Soldiers understand the range limits, sectors of fire, and direct fire control measures prior to execution. The OIC will conduct a terrain walk with all platoon leadership with the commander present. This walk will confirm all limits of the range. All leadership will have a lensatic compasses during this walk (Note Directions off fire listed on FB Form 350-19-1-E-R are Grid Azimuth. Add 4 degrees to Grid Azimuth to read Magnetic Azimuth).
  7. EXECUTION:
    - a) The squad files thru the ASP (FA 9753 7405) to receive ammunition.
    - b) The squad then moves to the AA (FA 9753 7412). In the AA squad will loads their weapons and lock their bolts forward. An exception to this is open bolt weapons, which will leave their bolts forward. From the AA the squad will travel north-west until they reach the line of departure (LD Vic FA 9747 7419). The squad moves from the line of departure in a squad-column, with teams in wedge formation, with a direction of attack of 035 degrees. They will move out approximately 80 meters until they make contact with the enemy OP (OP1). The elements will start firing at Vic grid FA 9752 7426. (Pneumatic gun will be emplaced and providing sound effects for enemy fires).
    - c) Engagement 1 OP: Target group 1 (two targets) will be located in vic of FA 9752 7431, the lead fire team makes contact with an enemy observation post. The lead fire team engages and assaults through the enemy OP. The fire team's sector of fire throughout this engagement is 340 degrees left to 030 degrees right. After the fire team assaults past the OP, the team establishes a limit of advance, conducts consolidation and reorganization, and reports its status to the squad leader, and then the team continues to travel due north, using bounding overwatch.

- d) Engagement 2: SBF is located at FA 9752 7435 to FA 9754 7435, the lead fire team is engaged by the enemy's main element (OBJ KORN) represented by a pneumatic gun and four targets (target group 2) in vic of FA 9753 7443. The lead fire team becomes the support-by-fire (SBF) element and engages the exposed targets with all weapons systems (The M240 will be able to engage at this position ONLY). The SBF's sector of fire throughout this engagement is 350 degrees left to 015 degrees right.
- e) The SL moves forward to the SBF team leader to assess the situation. He informs the team leader that he will be flanking to the west (left), and he tells the team leader the signal plan for the shift and lift fire from their SBF position (SBF1).
- f) At this point the trail team seeks cover and concealment and maintains a position where it is not decisively engaged by enemy fire, but can still make contact with the squad leader. After briefing the SBF team leader, the squad leader returns to the trail fire team and quickly gives the team leader the necessary information so they can begin their flank attack.
- g) Engagement 3 Assault: the squad leader then leads the trail team, moving in a wedge, west until they reach the assault position (FA 9746 7440 to FA 9748 7438). 1-15<sup>th</sup> IN evaluators will ensure that the assault element and SBF elements maintains a 40 degree separation at all times. The team engages target set three in vic of FA 9752 7445 with a right limit of 050 degrees and a left limit of 020 degrees. The fire team begins its assault of the objective after SBF ceases fire with a direction of attack from the assault position of 035 degrees. The squad leader's cease fire signal is confirmed by the SBF team leader using FM communications. 1-15<sup>th</sup> IN Cadre reports and confirms the signal over the radios. Once the SBF1's ceases fire their targets (target set two) will be lowered and remain in the down position. The assault element remains in the assault position until it receives confirmation that the SBF has ceased fire, with their weapons on safe, and oriented away from the objective.
- h) Engagement 4: as the assault element approaches main objective OBJ KORN (FA 9753 7446 to FA 9754 7445) target set three will be lowered. (Targets will be set to BOB to facilitate the SBF's means of fire distribution and control as well as the assault team's movement). Once the assault team arrives at OBJ KORN, they will ensure that the area has been secured prior to calling the SBF element forward to tie into their Over-watch/ Support-by-fire position. Once the SBF element makes link up with the assault team, they will establish their LOA, 9753 7446 to FA 9754 7445. At this point the squad will attempt to consolidate and reorganize, send all reports to higher on the status of his personnel (MWE), treat and evacuate casualties, conduct sensitive site exploitation, and prepare to maneuver his elements off the objective. Once the squad begins to assess casualties, the counter-attack (CATK) will begin. Target set four will be raised in vic FA 97536 74490 (x2 targets) and FA 97546 74485 (x1 target). These targets simulate enemy retrograding off the objective. The team engages targets with a right limit of 050 degrees and a left limit of 010 degrees. Once all targets have be destroyed, they will be lowered and remain in the down position. The squad leader will report his BDA and prepare for exfil.
- i) At this point there will be no further enemy contact or the necessity for the return of live fire beyond this point in the scenario. The squad leader will send the status' of his MWE to higher, treat and evacuate casualties, conduct sensitive site exploitation

(SSE) and prepare to maneuver his elements off the objective. After all weapons have been cleared, the squad leader will remain tactical and move back to the original assembly area (AA), moving in a travel technique with fire teams in a squad column.

8. SAFETY:

(1) The "Crawl-Walk-Run" method of training will be the standard for all LFX. A detailed leader's TEWT will outline all range fans, restrictions, and safety considerations. Squad rehearsals and day/night dry-blank fire exercises will be conducted prior to platoons getting the clearance to participate in any live fire exercise (LFX). The dry-fire, blank-fire exercise (BFX) and the live fire exercise (LFX) will have dedicated Observer/ Controller teams.

a. Signals

(1) Primary: means of signaling shift/cease fire will be FM communication. Alternate signal will be colored smoke/star cluster/VS-17

(2) Company Leadership will be with each Squad to confirm receipt of signals by tactical radios.

3) Emergency cease fire signal will be RED SMOKE/ Air-horn held by the SBF and Assault element's evaluators.

b. Medical

(1) Primary means of coverage will be an on-site FLA with 2 medics. A medic with aid bag will walk with each squad during live fires.

(2) In the event of a MEDEVAC, the unit will call up a 9-line MEDEVAC in accordance with MCOE 350-19. The medical personnel on site will administer medical care until the MEDEVAC assets arrive. Unit chain of command and Range Control will be notified.

(3) When an incident occurs, an immediate report will be made by the OIC/RSO of the units training to Range Control. The following information will be furnished by the OIC/RSO to Range Control:

- a. Designation of unit.
- b. Range and Location.
- c. Type of weapon involved.
- d. Type of ammunition involved.
- e. Brief summary of what happened.
- f. Personnel injuries and extent.
- g. Full Name, SS#, Rank and unit of injured personnel.
- h. Extent of property damage.
- i. Intentions regarding an AR 15-6 investigation.

(4) The Company 1SG will go through a daily MEDEVAC rehearsal with the Medics

c. Range Safety Officer will cover the following in his safety brief to all Soldiers:

- (1) All Soldiers are safety officers. Anyone observing an unsafe act will immediately call for a cease-fire.
- (2) All weapons will be discharged downrange and within the designated limits.
- (3) All weapons will remain on safe unless actively engaging a target.
- (4) All Soldiers must practice muzzle awareness and aim their weapon only at a target they intend to shoot.
- (5) If the Squad does not safely complete blank fire iteration they will be retrained on the task and will fire blank fire iteration in order to shoot the live fire.
- (6) All Soldiers will conduct a five-point safety check prior to moving from one position to the next. The Five-point Safety Check consists of the following:
  - (1) Place the Weapon on Safe.
  - (2) Close dust cover / ejection port cover.
  - (3) Identify next covered and concealed position.
  - (4) Look left.
  - (5) Look right.
- (7) Weapons will be on safe during all movements. Weapons will only be placed on fire when engaging a target within the range fan.
- (8) Soldiers will lock and load in the AA/ security halt. This is located Vic. FA 09753 7412. **Weapons will be cleared at the last engagement.** As the Squad exfils to the start point weapons will remain on safe when not engaging targets.
- (9) Soldiers will not engage target position boxes after they have fallen.
- (10) Soldiers will avoid all identified dud areas and report any UXO to Company Leadership if found.

d. Ammunition

- (1) The ammunition NCO will sign for all blank and live ammunition.
- (2) The blank and live ammunition will be physically separated within the ASP.
- (3) The ASP will issue Soldiers only enough ammunition for one iteration of the blank/live fire.
- (4) Delinking, re-linking, or use of delinked or re-linked ammunition is prohibited.
- (5) Each Soldier will return all unused ammunition to the ASP at the completion of their iteration on the range.
- (6) A weapon/ammunition check will be made before training to ensure no one has unauthorized ammunition in their possession.
- (7) Weapon/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC or Range Safety Officer will suspend all firing and immediately notify Range Control. **Retain the weapons and all components and ammunition involved in place.** An investigation is required and will be conducted by DOL.

e. Range Limits/Miscellaneous

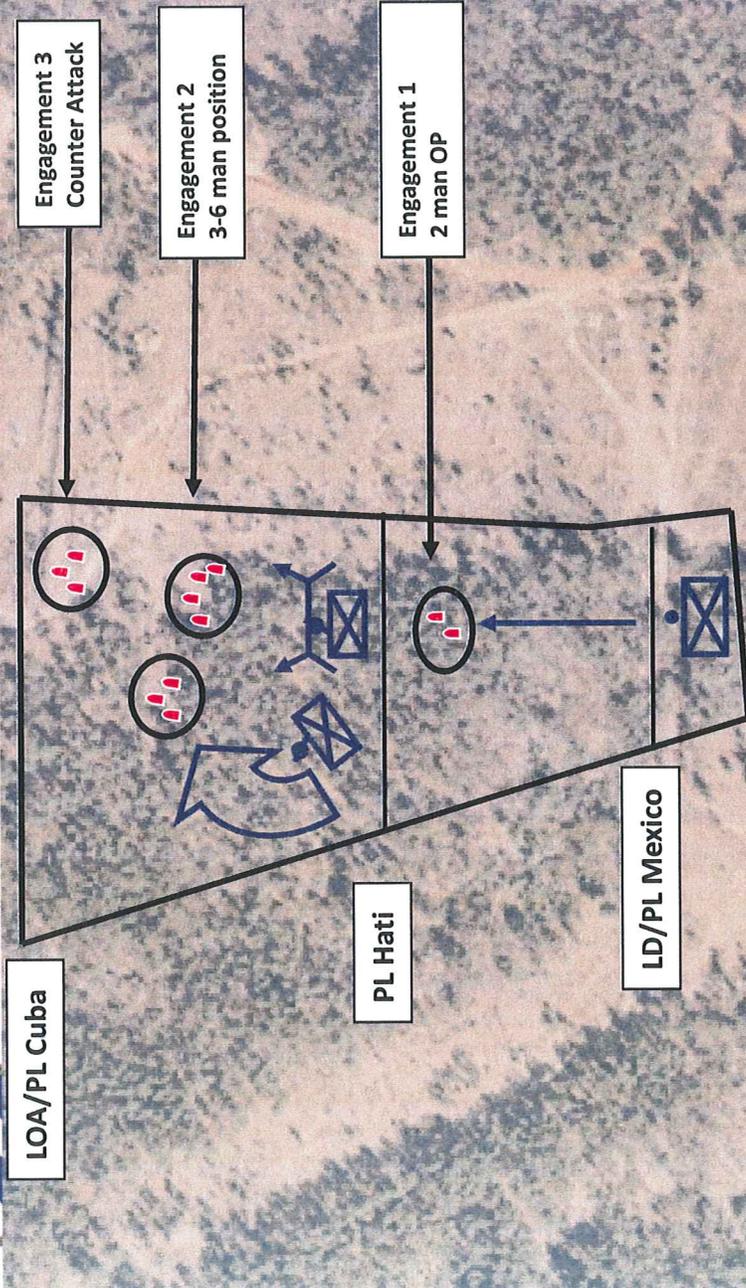
- (1) All Soldiers are safety officers. Anyone observing an unsafe act will immediately call for a cease fire.
- (2) All weapons will be discharged downrange and within the designated limits.

- (3) Company Leadership will ensure all weapons systems fire within range limits as specified in the FB 350-19-1-E-R.
  - (4) All Company Leadership will conduct a terrain walk with the OIC prior to execution of the range to verify understanding of the range limits.
  - (5) The Scenario will be the same for dry, blank, and live fire for all Squads. The Night scenario will stay the same as the day for the dry, blank, and live fire.
  - (6) All Soldiers must practice muzzle awareness and aim their weapon on a target they intend to shoot.
  - (7) If the squad does not safely complete a blank-fire iteration they will be retrained on the task and will fire another blank fire in order to shoot the live fire.
- f. Roadblock: Gates to be closed will be as shown on FB Form 350-19-1-E-R.
- g. Lasers:  
Class III lasers are not eye safe on dual low mode within 25 meters. PEM-1A is not a tactical laser and must be used within 25 meters. Laser warning signs will be in place prior to opening range. **Range safety Briefing will include hazards using Lasers and NVD's.**
9. The POC for this memorandum is SSG Gayle, BN Master Gunner at (706) 544-2817.

  
PATRICK A. DOUGLAS  
MAJ, IN  
Operations Officer



# 1-15th IN Squad LFX Griswold Range



LOA/PL Cuba

PL Hati

LD/PL Mexico

## Sequence of Events

Squad conducts SH vic of LD, conducts map check and moves towards known ENY LOC to conduct Deliberate attack.

### Engagement 1

React to Contact

A-team: React to Contact (OP)

A-team: Assault through OP continue movement.

### Engagement 2

Deliberate Attack

A-team: Establish SBF, suppress OBJ

B-team: Flank left IOT assault OBJ. Assault OBJ, and establish LOA.

A-team: Push through OBJ and establish LOA.

### Engagement 3

Counter attack by superior force & React to indirect during status report/clearing OBJ

SQD: Return fire and react to indirect fire bounding off of the OBJ.

- 6 SQDs total for execution
- All iterations approx. 45 min
- Security Halt (SH) begins the lane
- Bradley Crews are in Range Support
- Medics with vehicle on range at all times.
- Squad will have safety for each team, Observer Controllers are CDR, 1SG, PL and PSG.



Assault Stop/LOA

Assault Start

SBF

OP

Start

AA

CP

### COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

1. MSN/TASK: Griswold Range Squad LFX	2a. DTG BEGIN 20131104	2b. DTG END 20141122	3. DATE PREPARED (YYYYMMDD) 20130822
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**4. PREPARED BY**

a. LAST NAME Smith, Patrick K	b. RANK SFC	c. POSITION Brigade Master Gunner, 3 ABCT, 3ID	12. WAS CONTROL EFFEC-TIVE?
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5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)
Squad LFX	1(A). Range/General Situational Awareness	Moderate	<p>THE RANGE OFFICER IN CHARGE (OIC) AND SAFETY OFFICER (RSO) WILL:</p> <ol style="list-style-type: none"> <li>1. READ AND REVIEW THE RISK ASSESSMENT.</li> <li>2. ENSURE CADRE COMBAT LIFESAVERS AND A DEDICATED EVACUATION VEHICLE IS AVAILABLE. INVENTORY THE COMBAT LIFESAVER'S FIRST AID BAG OF THE TRAINING UNIT. CONSULT WITH TRAINING COMPANY CADRE TO IDENTIFY PROBLEM SOLDIERS THAT HAVE (SUICIDAL OR HOMICIDAL INTENTIONS OR GESTURES, OR DEMONSTRATE SERIOUS EMOTIONAL PROBLEMS). EXCLUDE OR INDIVIDUALLY SUPERVISE HIGH RISK SOLDIERS.</li> <li>3. IDENTIFY SOLDIERS WITH MEDICAL PROBLEMS HAVING THE POTENTIAL TO IMPACT TRAINING TO INCLUDE MINOR ILLNESSES, ALLERGIES, PREVIOUS HEAT AND/OR COLD WEATHER INJURIES, OR ENVIRONMENTAL SENSITIVITIES.</li> <li>4. REVIEW EVACUATION PROCEDURES AND REPORTING PROCEDURES FOR SERIOUS INCIDENTS. PLAN TO EVACUATE SOLDIERS WITH ALLERGIC REACTIONS, ANYONE WITHIN 25 METERS OF A LIGHTNING STRIKE, COLD WEATHER/HEAT INJURIES, SNAKEBITE, OR ANYONE SHOWING SYMPTOMS BEYOND THE RANGE OIC'S EXPERIENCE AND THE COMBAT LIFESAVER'S &amp; MEDICS ABILITY TO TREAT.</li> <li>5. THE OIC/RSO WILL DIRECT AN AIR MEDEVAC WHEN THE DANGER OF LOSS OF LIFE, LIMB, OR EYESIGHT EXISTS</li> <li>6. CONDUCT DAILY RISK ASSESSMENT.</li> </ol>	Low	<ol style="list-style-type: none"> <li>1. IAW MCOE Range and Terrain Regulation 350-19</li> <li>3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat</li> <li>4. Range safety brief to leaders PM 350-6-2</li> </ol>	OIC / RSO  INDIVIDUAL

Additional space for entries in items 5 through 11 is provided on Page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)

LOW     
  MODERATE     
  HIGH     
  EXTREMELY HIGH

14. RISK DECISION AUTHORITY	b. RANK COL	c. DUTY POSITION Brigade Commander 3 ABCT, 3ID
a. LAST NAME Costanza, Charles D.	d. SIGNATURE 	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?																														
Squad LFX	1(B). Cold Weather Injury	Moderate	<p>1. ALL SOLDIERS WITH PREVIOUS COLD INJURIES WILL BE IDENTIFIED AND CLOSELY MONITORED THROUGH THE BUDDY SYSTEM, COMPANY CADRE, AND LEADER CHECKS.</p> <p>2. IMMERSION FOOT: CAUSE: PROLONGED IMMERSION IN COLD WATER, USUALLY IN EXCESS OF 12 HOURS AT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT.</p> <p>3. TRENCH FOOT: CAUSE: EXPOSURE TO WETNESS AND COLD BETWEEN FREEZING AND 50 DEGREES FAHRENHEIT, LASTING HOURS TO SEVERAL DAYS.</p> <p>4. FROST BITE: CAUSE: EXPOSURE TO COLD AT TEMPERATURES OF FREEZING OR BELOW, FOR MINUTES TO SEVERAL HOURS.</p> <p>5. HYPOTHERMIA: CAUSE: HEAT LOSS EXCEEDING BODY'S HEAT PRODUCTION RESULTING IN BODY TEMPERATURE OF 95 DEGREES FAHRENHEIT OR LOWER.</p> <p>6. FIRST AID MEASURES: REMOVE WET CLOTHING, REST AFFECTED PART AND REWARM IT PROMPTLY TO ROOM TEMPERATURE, EXCEPT IN THE CASE OF FROSTBITE WHEN THAWING SHOULD ONLY BE ATTEMPTED BY MEDICAL PERSONNEL. TREAT INJURIES AND EVACUATE TO MEDIC OR TROOP MEDICAL CLINIC.</p> <p>7. ENSURE ALL SOLDIERS HAVE PROPER COLD WEATHER CLOTHING.</p> <p>8. MONITOR WIND CHILL FACTOR:</p> <table border="0" data-bbox="779 968 1104 1430"> <tr> <td>DEGREE OF DRESS</td> <td>STATUS OF TRAINING</td> </tr> <tr> <td>CAT I</td> <td>STATIONARY</td> </tr> <tr> <td>DRESSED</td> <td>FULLY</td> </tr> <tr> <td>+32 to +1 F</td> <td>PHYSICALLY ACTIVE</td> </tr> <tr> <td>PARTIALLY DRESSED</td> <td>FULLY</td> </tr> <tr> <td>CAT II</td> <td>STATIONARY</td> </tr> <tr> <td>DRESSED</td> <td>FULLY</td> </tr> <tr> <td>0 to -5 F</td> <td>PHYSICALLY ACTIVE</td> </tr> <tr> <td>PARTIALLY DRESSED</td> <td>FULLY</td> </tr> <tr> <td>CAT III</td> <td>STATIONARY</td> </tr> <tr> <td>DRESSED</td> <td>FULLY</td> </tr> <tr> <td>-6 to -10 F</td> <td>PHYSICALLY ACTIVE</td> </tr> <tr> <td>DRESSED</td> <td>FULLY</td> </tr> <tr> <td>CAT IV</td> <td>DISCONTINUE OUTSIDE</td> </tr> <tr> <td>Below -10 F</td> <td></td> </tr> </table>	DEGREE OF DRESS	STATUS OF TRAINING	CAT I	STATIONARY	DRESSED	FULLY	+32 to +1 F	PHYSICALLY ACTIVE	PARTIALLY DRESSED	FULLY	CAT II	STATIONARY	DRESSED	FULLY	0 to -5 F	PHYSICALLY ACTIVE	PARTIALLY DRESSED	FULLY	CAT III	STATIONARY	DRESSED	FULLY	-6 to -10 F	PHYSICALLY ACTIVE	DRESSED	FULLY	CAT IV	DISCONTINUE OUTSIDE	Below -10 F		Low	<p>1. Range safety brief to leaders</p> <p>2. TRADOC 350-29</p> <p>3. MCOE PM 40-14</p>	<p>OIC / RSO</p> <p>INDIVIDUAL</p>	
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Squad LFX	1(C). Hot Weather Injury	Moderate	<p>1. THE TRAINING UNIT WILL MONITOR WET BULB FOR HEAT CATEGORY. PREVIOUS HEAT INJURIES WILL BE MONITORED THROUGH THE BUDDY SYSTEM AND LEADER CHECKS. DAILY RISK ASSESSMENTS WILL BE UPDATED. HEAT CATEGORIES WILL BE ENFORCED AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>HEAT CAT</th> <th>WBGT INDEX</th> <th>EASY WORK WK/H20</th> <th>MODERATE WORK WK/H20</th> <th>HARD WORK WK/H20</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>76-81.9</td> <td>NL ½</td> <td>NL ¾</td> <td>40/20</td> </tr> <tr> <td>2.</td> <td>82-84.9</td> <td>NL ¾</td> <td>50/10 ¾</td> <td></td> </tr> <tr> <td>3.</td> <td>85-87.9</td> <td>NL ¾</td> <td>40/20 ¾</td> <td>30/30</td> </tr> <tr> <td>4.</td> <td>88-89.9</td> <td>NL ¾</td> <td>30/30 ¾</td> <td>20/40</td> </tr> <tr> <td>5.</td> <td>&gt;90</td> <td>50/10 1</td> <td>20/40 1</td> <td>10/50</td> </tr> </tbody> </table> <p><b>EASY WORK</b></p> <ol style="list-style-type: none"> <li>WEAPON MAINTENANCE</li> <li>WALKING HARD SURFACE AT 2.5 MPH, 30 LBS LOAD</li> <li>MANUAL OF ARMS</li> <li>MARKSMANSHIP TRAINING</li> <li>DRILL AND CEREMONY</li> </ol> <p><b>MODERATE WORK</b></p> <ol style="list-style-type: none"> <li>WALKING LOOSE SAND AT 2.5 MPH, NO LOAD</li> <li>WALKING HARD SURFACE AT 3.5 MPH, LESS THAN 40 LB LOAD</li> <li>CALISTHENICS</li> <li>PATROLLING</li> <li>INDIVIDUAL MOVEMENT TECHNIQUES, I.E. LOW CRAWL, HIGH CRAWL</li> <li>DEFENSIVE POSITION CONSTRUCTION</li> <li>FIELD ASSAULTS</li> </ol> <p><b>HARD WORK</b></p> <ol style="list-style-type: none"> <li>WALKING HARD SURFACES AT 3.5 MPH, MORE THAN 40 LB LOAD</li> <li>WALKING LOOSE SAND AT 2.5 MPH, WITH LOAD</li> <li>DAILY WATER INTAKE SHOULD NOT EXCEED 12 QTS.</li> <li>EVACUATE HEAT CASUALTIES IAW SERIOUS INCIDENT GUIDELINE/POST REQUIREMENTS.</li> <li>IDENTIFY PREVIOUS HEAT INJURIES.</li> <li>MONITOR EATING OF MEALS AND RECORD WATER CONSUMPTION WITH CARD OR CORD SYSTEM.</li> <li>BRIEF ALL SOLDIERS ON SIGN OF HEAT INJURIES</li> </ol>	HEAT CAT	WBGT INDEX	EASY WORK WK/H20	MODERATE WORK WK/H20	HARD WORK WK/H20	1.	76-81.9	NL ½	NL ¾	40/20	2.	82-84.9	NL ¾	50/10 ¾		3.	85-87.9	NL ¾	40/20 ¾	30/30	4.	88-89.9	NL ¾	30/30 ¾	20/40	5.	>90	50/10 1	20/40 1	10/50	Low	<ol style="list-style-type: none"> <li>Range safety brief to leaders</li> <li>TRADOC 350-29</li> <li>MCOE PM 40-14</li> </ol>	OIC / RSO  INDIVIDUAL	
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ITEMS 5 THROUGH 12 CONTINUED

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Squad LFX	2. Eye/ Hearing Loss	Moderate	<p>RANGE OIC WILL:</p> <ol style="list-style-type: none"> <li>BRIEF SOLDIERS ON THE DANGERS OF LOW HANGING BRANCHES.</li> <li>ENSURE SOLDIERS WEAR HEARING PROTECTION DURING RANGE OPERATIONS.</li> <li>ENSURE EXTRA EARPLUGS ARE AVAILABLE</li> <li>LEADERS WILL: ENSURE THAT ALL PERSONAL ARE WEARING HEARING PROTECTION DURING THE LIVE FIRE. COMBAT LIVESAVER WILL:                             <ol style="list-style-type: none"> <li>ENSURE THAT THE COMBAT LIFESAVER BAG IS PRESENT AND HAS ALL REQUIRED EQUIPMENT REQUEST AND REPLENISH ANY DEFICIENCIES PRIOR TO THE START OF TRAINING</li> <li>HAVE EXTRA EARPLUGS ON HAND FOR THE UNIT.</li> </ol> </li> </ol>	Low	<ol style="list-style-type: none"> <li>IAW MCOE Range and Terrain Regulation 350-19</li> <li>DA PAM 40-501</li> <li>IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat</li> <li>Range safety brief to leaders</li> <li>Buddy-Teams</li> </ol>	OIC / RSO BUDDY TEAM INDIVIDUAL	
Squad LFX	3. Soldier Bitten/ Stung by snakes or insects	Moderate	<p>RANGE OIC OR SAFETY OFFICER WILL:</p> <ol style="list-style-type: none"> <li>DURING A SAFETY BRIEFING, INFORM THE SOLDIERS OF THE VARIOUS TYPES OF WILDLIFE THAT ARE HAZARDOUS AND WARN THEM NOT TO HANDLE OR HARASS THE WILDLIFE DURING TRAINING.</li> <li>ENSURE PERSONNEL WITH MEDICAL PROBLEMS SUCH AS ALLERGIC REACTIONS TO INSECT BITES ARE SUPERVISED.</li> <li>ENSURE STING (ANAPHYLACTIC) KITS ARE AVAILABLE</li> </ol>	Low	<ol style="list-style-type: none"> <li>MCOE Reg 40-2</li> <li>Range safety brief to leaders</li> <li>Buddy-Team</li> </ol>	OIC / RSO	
Squad LFX	4. Soldier struck by lightning	Moderate	<p>RANGE OIC OR SAFETY OFFICER WILL:</p> <ol style="list-style-type: none"> <li>MONITOR RADIO NET AT ALL TIMES FOR SEVERE WEATHER/LIGHTNING ADVISORY/WARNING</li> <li>SUSPEND ALL TRAINING DURING ELECTRICAL STORMS.</li> <li>NOTIFY RANGE CONTROL, BATTALION HEADQUARTERS (HQ) AND COMPANY HQ OF ANY INCIDENT.</li> <li>BRIEF THE TRAINING UNIT ON ELECTRICAL STORM PLAN, IDENTIFY DESIGNATED AREA TO GROUND GEAR AND THE DESIGNATED LIGHTNING PROTECTION AREA.</li> </ol> <p>UNIT LEADERS WILL:</p> <ol style="list-style-type: none"> <li>INFORM THE TRAINING UNIT TO IMPLEMENT THE SEVERE WEATHER PLAN.</li> <li>ENSURE SOLDIERS GROUND THEIR INDIVIDUAL EQUIPMENT AND DON THEIR WET-WEATHER GEAR.</li> <li>ENSURE ALL SOLDIERS ARE SPREAD 5 TO 10 METERS APART IN AN OPEN AREA OR INTO THE DESIGNATED LIGHTNING PROTECTION AREA UNTIL THE STORM CLEARS OR THE TRAINING UNIT DEPARTS.</li> </ol>	Low	<ol style="list-style-type: none"> <li>Range safety brief to leaders</li> <li>MCOE Reg 40-2</li> <li>MCOE Reg 420-1-2</li> </ol>	OIC / RSO	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Squad LFX	5. Minor Body Injury(Cuts or Falls)	Moderate	1. RANGE OIC OR SAFETY OFFICER WILL GIVE SAFETY BRIEFING ALERTING SOLDIERS OF TRIPPING HAZARDS: ROCKS, BRANCHES, FALLEN TREES, AND CREEK BEDS. LEADERS WILL MONITOR SOLDIER'S MOVEMENT AND ALERT SOLDIERS TO POSSIBLE HAZARDS.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders	OIC/ RSO INDIVIDUAL	
Squad LFX	6. Fire Hazard	Moderate	1. AMMO NCO WILL ENSURE THERE IS NO SMOKING WITHING 60' OF AMMUNITION/FLAMMABLES. 2. AMMO NCO WILL ENSURE THAT FIRE EXTINGUISHERS ARE AVAILABLE. 3. TRAINING UNIT WILL PROVIDE 1 NCO FOR AMMO POINT NCOIC RESPONSIBILITIES DURING ACTUAL FIRING. 4. RANGE SAFETY NCO AND THE TOWER OPERATOR WILL OBSERVE DOWN RANGE FOR ANY FIRES THAT STARTED DUE TO THE SOLDIERS FIRING. A CEASE FIRE WILL BE GIVEN IF THE FIRE IS GOING TO ENDANGER SOLDIERS OR POSSIBLY CAUSE TARGET MALFUNCTION.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders AR 420-1	OIC/ RSO	
Squad LFX	7. Lost Soldier	Moderate	1. SAFETY BRIEFING WILL INCLUDE MEASURES TO TAKE IF LOST OR SEPARATED. 2. A SITUATION REPORT WILL BE PROVIDED TO THE CHAIN OF COMMAND, BN, BDE, AND RANGE CONTROL. 3. A THOROUGH SEARCH WILL BE CONDUCTED FOR THE LOST SOLDIER USING ALL AVAILABLE MANPOWER.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders AR 420-1	OIC/RSO BUDDY TEAM INDIVIDUAL	
Squad LFX	8. Road conditions	Moderate	1. RSO GIVES DETAILED SAFETY BRIEFING. 2. 15 M.P.H. SPEED LIMIT SIGNS POSTED IN THE TRAINING AREA. 3. SAFETY BRIEFING INCLUDES CURRENT AND EXPECTED WEATHER CONDITIONS AND THE CURRENT ROAD CONDITIONS.	Low	1. AR 190-5 2. MCOE 190-5	OIC/RSO CONVOY CDR DRIVER T.C	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Squad LFX	9. Environmental Considerations	Moderate	<p>1. SOLDIERS WILL BE BRIEFED ON THE LOCATION OF THE LATRINES. THE RANGE WILL BE THOROUGHLY POLICED OF ALL GARBAGE, TRASH AND DUNGE PRIOR TO CLOSING. ALL VEHICLES ON THE RANGE WILL USE DRIP PANS AND CHALK BLOCKS WHEN PARKED AND A POL SPILL KIT WILL BE ON THE RANGE.</p>	Low	<p>1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders AR 420-1</p>	<p>OIC/RSO NCO supervision</p>	
Squad LFX	10. Fratricide	Moderate	<p>1. RANGE OIC WILL IDENTIFY PROBLEM SOLDIERS PRIOR TO START OF TRAINING. 2. RANGE RSO WILL READ A SAFETY BRIEFING TO ALL SOLDIERS ON RANGE OPERATION. MUZZLE AWARENESS WILL BE STRESSED WHILE KEEPING WEAPON SYSTEMS (OTHER THAN PISTOL) IN A 360 DEGREE LOW READY POSITION, ON SAFE, AND FINGER OUTSIDE TRIGGER WHEN NOT FIRING 3. SQUAD LEADERS AND VC WILL VERIFY THAT WEAPON SYSTEMS ARE CLEARED AT THE END OF EACH ITERATION. THE COMMANDERS IS RESPONSIBLE FOR ENSURING THE WEAPON IS SAFE. THE RODDING OF WEAPONS REMAINS A COMMANDER'S OPTION. 3. ALL NEGLIGENT WEAPON DISCHARGES INVOLVING BALL AMMO WILL BE REPORTED VIA A SERIOUS INCIDENT REPORT (SIR) BY THE USING UNIT THROUGH THE CHAIN OF COMMAND TO THE G-3/DIRECTOR OF OPERATIONS AND TRAINING.</p>	Low	<p>1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. IAW Policy Memorandum 350-1-10.</p>	<p>OIC/RSO BUDDY-TEAMS INDIVIDUAL</p>	
Squad LFX	11. Ammunition	Moderate	<p>1. ONCE LIVE AMMUNITION AMMUNITION IS ON SIGHT, IT WILL BE KEPT IN A SEPARATE AREA AT LEAST 50 METERS AWAY FROM BLANK AMMUNITION AND IN SIGHT OF THE AMMO NCO AT ALL TIMES.</p>	Low	<p>1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. IAW Policy Memorandum 350-1-10. 5. Continuous/ Direct Supervision</p>	<p>OIC/RSO NCO SUPERVISION RANGE SAFETIES</p>	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Squad LFX	12. Negligent Discharge	High	<p>1. PRIOR TO TRAINING SOLDIERS WILL RECEIVE A DETAILED SAFETY BRIEF OUTLINING WHEN THEY WILL BE ALLOWED TO LOAD AND UNLOAD WEAPONS, PROPER WEAPONS POSTURE WHILE HANDLING WEAPONS ON THE RANGE, AND WHEN THEY WILL TO RECEIVE AMMO.</p> <p>2. ALL LEADERS WILL ENSURE WEAPONS ARE TREATED AS IF THEY ARE LOADED AT ALL TIMES AND ENSURE SOLDIERS MAINTAIN PROPER MUZZLE AWARENESS.</p> <p>3. ALL LEADERS WILL ENSURE ALL WEAPONS ARE KEPT ON SAFE. WEAPONS WILL ONLY BE ON FIRE WHEN THE SOLDIER IS PREPARED TO ENGAGE A TARGET. LEADERS WILL SUPERVISE SOLDIERS WHILE THEY ARE FIRING TO ENSURE CORRECT WEAPONS POSTURE AND ORIENTATION.</p> <p>4. RANGE OIC WILL DIRECT A SELF IMPOSED CHECK-FIRE DURING ACCIDENTS OR INJURIES DUE TO WEAPONS FIRE.</p> <p>5. ANY SOLDIER IDENTIFIED AS A RISK WILL BE IMMEDIATELY REMOVED FROM TRAINING, RETRAINED AND REINSERTED INTO TRAINING.</p> <p>6. ANY SOLDIER WHO HAS A NEGLIGENT DISCHARGE WILL BE REMOVED FROM TRAINING, RETRAINED, AND REINSERTED INTO TRAINING.</p> <p>7. LEADERS WILL VISUALLY OBSERVE SOLDIERS PERFORM WEAPONS CLEARING PROCEDURES IN ACCORDANCE WITH MCOE REG 350-19.</p> <p>8. OIC WILL ENSURE MEDICS ARE ON SITE TO PERFORM IMMEDIATE AID IF NEEDED.</p>	Moderate	<p>1. IAW MCOE Range and Terrain Regulation 350-19</p> <p>2. Range safety brief to leaders</p> <p>3. IAW Policy Memorandum 350-1-10.</p> <p>4. Continuous/ Direct Supervision</p>	OIC/RSO NCO Supervision Range Safeties	
Squad LFX	13. Shooting Out of Range Fan	Moderate	<p>1. SOLDIERS WILL BE BRIEFED ON THEIR LEFT AND RIGHT RANGE LIMITS PRIOR TO THE START OF RANGE OPERATIONS. SOLDIERS WILL IDENTIFY LIMITS DURING BLANK AND LIVE ITERATIONS</p>	Low	<p>1. IAW MCOE Range and Terrain Regulation 350-19</p> <p>2. Range safety brief to leaders</p> <p>3. IAW Policy Memorandum 350-1-10.</p> <p>4. Continuous/ Direct Supervision</p>	OIC/RSO NCO Supervision Range Safeties	

ITEMS 5 THROUGH 12 CONTINUED

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Squad LFX	14. Misfire	Moderate	<p>1. SAFETY MISFIRE DRILLS WILL PREPARE EVERY SOLDIER FOR THIS EVENT.</p> <p>2. SOLDIERS WILL EXECUTE PML ALL ROUNDS WILL BE INSPECTED BEFORE FIRING.</p> <p>3. PROPER M203 TUBE MAINTENANCE CONDUCTED. MISFIRES HANDLED IAW FM 23-90.</p> <p>4. IN THE CASE WHERE THERE IS A 40MM ROUND MALFUNCTION THE M918 TP PROJECTILES WILL BE HANDLED IAW THE PROCEDURES OUTLINED IN TB 9-1310-251-10 AND DA PAM 385-63. THE USE OF PROTECTIVE GOGGLES OR FACE SHIELDS, GLOVES, AND TONGS WILL BE WORN WHILE HANDLING M918.</p>	Low	<p>1. IAW MCOE Range and Terrain Regulation 350-19</p> <p>2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat</p> <p>3. Range safety brief to leaders</p> <p>4. IAW Policy Memorandum 350-1-10.</p> <p>5. Continuous/ Direct Supervision</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>Buddy teams</p> <p>Individuals</p>	

# Risk Assessment Matrix

		HAZARD PROBABILITY				
		FREQUENT	LIKELY	OCCASIONAL	SELDOM	UNLIKELY
<b>S E V E R I T Y</b>	CATASTROPHIC	<b>I</b> EH	<b>B</b> EH	<b>C</b> H	<b>D</b> H	<b>E</b> M
	CRITICAL	<b>II</b> EH	<b>H</b> H	<b>H</b> H	<b>M</b> M	<b>L</b> L
	MODERATE	<b>III</b> H	<b>M</b> M	<b>M</b> M	<b>L</b> L	<b>L</b> L
	NEGLECTIBLE	<b>IV</b> M	<b>L</b> L	<b>L</b> L	<b>L</b> L	<b>L</b> L

## EFFECT

1. CATASTROPHIC - Death or permanent total disability, system loss, major property damage.
2. CRITICAL - Permanent partial disability, temporary total disability, major system damage, major property damage.
3. MODERATE - Minor injury, lost workdays, compensable injury/illness, minor system damage, minor property damage.
4. NEGLECTIBLE - First aid or minor supportive medical treatment, minor system impairment.

## PROBABILITY

- A. FREQUENT - Occurs often - resources are continuously exposed.
- B. LIKELY - Occurs frequently - resources are exposed frequently and/or several times.
- C. OCCASIONAL - Occurs sometimes - resources are exposed sporadically.
- D. SELDOM - Remote occurrence - resources are possibly exposed.
- E. UNLIKELY - Rare occurrence of exposure

## RISK LEVELS

**Extremely High** - Loss of ability to accomplish the mission.  
**High** - Significantly degrades mission capability.  
**Medium** - Degrades mission capability.  
**Low** - Little or no impact to mission capability.

## Examples

I/A = Extremely High  
 II/B = High  
 III/C = Medium  
 IV/D = Low

**Griswold Range 1-15 Team/Squad LFX (Log #7-26-11) Roadblock List , 15 March 2011**

BLOCK	GRID	LOCATION	TYPE
A-1	911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable
A-2	910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate
A-4	925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate
A-5	936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate
A-6	939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm
A-8	968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate
A-10	018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate
A-11	019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate
A-11A	032 729	Rd guard pos # 2 for Garnsey Rng Obj 'E' (intersection Jamestown/Sunshine Rd's	Rd Grd # 2
A-12	033 742	Across Garnsey Rd 50m W. of its intersection with Jamestown Rd.	Gate
A-12A	029 744	Across Garnsey Rd 400m W. of A-12 Roadblock.	Gate
A-12B	028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate
A-12C	036 746	Road guard position # 3 for Garnsey Rng Objective 'E' (Jamestown at Lightning Rd)	Road Guard # 3
A-13	936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range. (Road guard location)	Gate
A-14	974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate
A-15	021 799	Across entrance road to Buchanan Range.	Gate
A-15A	021 798	Gate Across Good Luck Rd	Gate
A-15B	022 796	Road guard position # 1 for Garnsey Rng Objective 'E' (Jamestown road SW corner of Engineer building)	Road Guard # 1
A-18	993 828	Across Buckeye Rd 225m S. of its intersection with 1st Div Rd. and 50m E. of entrance to Duke Range	Gate
A-19	973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate
A-20	974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate
A-22	015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate
A23	983 756	Across Lumpkin Trail 200m E. of Griswold Range	Gate
A-23A	005 748	On Lumpkin trail 50m NW of Objective 'E' on Garnsey Range.	Gate
A-23B	005 747	Adjacent to A-23A gate on trail near intersection of Lumpkin trail	Install Gate
A-24	015 811	10m inside entrance gate of Brinson Rng south of entrance road.	Gate
A-25	016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate
A-26	013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable
A-27	018 805	Across unnamed trl 175m N of intersection of Hourglass and Jamestown roads	Gate

BLOCK	GRID	LOCATION	TYPE
A-28	012 774	20 meters off Yankee road on south side of Galloway range.	Gate
A-28A	011 776	30 meters south of Range Tower	Gate
A-30	026 758	Across fire break leading to Garnsey Range. 140m SW of Brann Flat Range.	Gate
A-30A	027 758	Across trail leading to Garnsey Range 50m E. of A-30 Roadblock	Gate
A-31	020 745	Across fire break leading to Brann	Cable
A-32	989 724	Across entrance road to Kunzig Range.	Gate
A-33	974 734	Across entrance to Griswold Range.	Gate
A-33A	979 739	150 meters west of Target Systems bldg on trail leading to move to contact site	Gate
A-33B	982 739	20m N of Target Sys bldg on trail running on west side of bldg.	Install Gate
A-34	947 760	Across entrance to Minter Hill 700m E. of Oswichee Creek.	Gate
A-38	952 816	Across fire break 300m down range of firing line on Red Cloud Range on L. side of range.	Cable
A-39	956 822	Across unnamed trail 100m S. of bldgs on Buckner Range on L. side of range	Cable
A-40	967 823	Across fire break 50m down range on the left side of Pierce Range.	Gate
A-41	972 820	Across fire break located on the right side of the firing line on Patton Range.	Cable
A-42	978 820	Across fire break located on the left side of the firing line on Patton Range.	Cable
A-43	983 823	Across fire break located on the right side	Cable
A-44	986 823	Across fire break 100m E. of the 25m flat	Gate
A-45	990 827	Across fire break located on the right side of the firing line on Duke Range.	Gate
A-45A	991 829	Across Booker Breach site entrance road 200m past Duke Rng entrance gate	Gate
A-46	984 832	Across unnamed trail 100m W. of the intersection of 1st Div Rd and Ivy Rd.	Gate
A-47	990 833	Across unnamed trail 500m W. of the intersection with 1st Div & Buckeye Rd's	Gate
A-48	995 827	Across fire break located on the right side of the firing line on Porter Range.	Cable
A-49	998 827	Across fire break located on the left side of the firing line on Porter Range.	Cable
A-50	000 830	Across unnamed trail 200m W. of entrance to Maertens Range.	Gate
A-51	031 791	Barrier on Furman Rd	Barrier 1
A-52	034 776	Barrier on Yankee Rd	Barrier 2
A-53	035 776	Gate to Cole Range	Barrier 3
A-54	046 749	Barrier off Lightning Rd on unnamed trail	Barrier 5
A-55	057 759	Barrier off Lightning Rd on unnamed trail	Barrier 4



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 5/21/2013

**EMD Number:** 1314107      **Project#:** Unknown      **Project Title:** Dismounted Non Network Enabled Squad (DNNE)

**Description of proposed action:**

Squad Live Fire Exercise and Known Distance Exercise from Fixed Positions as well as Fire and Maneuver Lanes. Weapons being used are M4, M249, LSAT, CSASS, M14EBR, M320,

**Project Location:**

Griswold Range

**Amount, Description, Location of Disturbance/Digging:**

None

**Number of Personnel:**

75

**Type of Ammunition:**

5.56, 7.62, 40MM TP  
Live and Blank

**Number/Types of Trees:**

None

**Size of Project Area:**

**Duration of Action:** Start: 8/1/2013      Stop: 9/30/2013

**Proponent:** Eric R Webb      706-545-8164

**Organization/Unit:** Maneuver Battle Lab

**Number/Types of Vehicles:**

Number of vehicles: 10  
Types of vehicles: GSA  
No-Vehicles will be going off road.

\*\*\*\*\*  
**DECISION:** Concur with conditions

**This Action is adequately covered in the Existing EA titled: 'Ongoing Mission and siting Activities, USAIC, FT. Benning, GA.'**

**(NA): Training involving LIVE FIRE and tracked vehicles has NO CATEX -- "Ongoing Mission and Siting Activities, USAIC, Ft. Benning, GA."**

**REC APPROVED THROUGH 30 SEPTEMBER, 2013**

**Natural Resources - RCW**

**Conditions:**

Michael Barron (706 544 7080), 6/5/2013

**See attached conditions. Note locations of red-cockaded woodpeckers (RCW) on attached maps. Training restrictions apply. Unit commanders must make sure that all troops know the locations of restricted areas and understand these training restrictions. This is imperative since night training may occur. Boundaries are often hard to see at night, but this is no excuse for violations to occur. Two hour time restriction is for 2 hours once every 24 hour period. Note where digging may not occur. All trenches, fighting positions, etc must be filled in prior to leaving an area. There must be no cutting down or intentional destruction of any pine trees throughout the requested area(s).**

**Cultural Resources - Archeological**

**Conditions:**

Edward Howard (706 545 1898), 5/30/2013

**See attached JPEG maps for reference. The project area contains federally protected sensitive sites. These sites may or may not be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Resubmittal is required if submitted project is modified in any way.**

TRAINING ACTIVITY WITHIN 200' BUFFER ZONE	
Maneuver and Bivouac:	
Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheel/Track Vehicle Transit	yes (1)
Cutting Hardwood Camouflage	yes
Vehicle Maintenance, 2 hrs max	yes
Hasty defense, Mechanized Infantry/Armor	no
Deliberate Defense, Light Infantry	no
Deliberate Defense, Mechanized Infantry/Armor	no
Established Command Post, Light Infantry	no
Assembly Area Operations, Light Infantry, Mech Infantry/Armor	no
Established CS/CSS Sites	no
Weapons Firing:	
7.62mm and Below Blank Firing	yes
.50 Cal Blank Firing	yes
Artillery Firing Position	no
MLRS Firing Position	no
All Others	no
Noise:	
Artillery/Hand Grenade Simulators	yes
Hoffman Type Devices	yes
Generators	no
Pyrotechnics/Smoke:	
Smoke, Haze Operations, Generators or Pots	yes (2)
Smoke Grenades	yes
Star Cluster/Parachute Flares	yes
Incendiary Device to Include Trip Flares	no
CS/Riot Gas	no
HC smoke of Any Type	no
Digging:	
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

Note: Yes means that the activity may be conducted within 200 feet of a marked cavity tree

- (1) Vehicles (wheel and track) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail
- (2) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift inside the 200 foot buffer



DEPARTMENT OF THE ARMY  
STRYKER BRADLEY INSTRUCTIONAL COMPANY, 1<sup>ST</sup> BATTALION, 29<sup>TH</sup> INFANTRY REGIMENT  
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE  
6708 BRADLEY DRIVE  
FORT BENNING GEORGIA 31905-5594

REPLY TO  
ATTENTION OF

ATSH-INA-S

31 JULY 2013

MEMORANDUM FOR RANGE CONTROL

SUBJECT: 1-29<sup>th</sup> IN SBIC Bradley Leaders Course

1. PURPOSE: This memorandum is to promulgate multiple scenarios firing simultaneously, that incorporates the M2A3 Bradley Fighting Vehicles. Training is to be conducted on Ware Range in support Bradley Leaders Course (BLC).

2. TRAINING OBJECTIVES: Each course has planned and implemented prerequisite training prior to firing on Ware Range; accompanied thereafter by individual POI training objectives.

A. BLC:

- a. Prior to gunnery; the students conduct classroom training, BATS exercises up to the MPL 309. GST is conducted with both students and POI support. GT I, GT II, are also conducted prior to shooting gunnery.
- b. The primary objective of this training exercise is to increase the Student's ability to setup and operate a Bradley Fighting Vehicle gunnery range operations.

3. TASKS TO BE TRAINED:

A. BFV Gunnery

4. LASER SAFETY: All Training with the use of lasers will comply with MCoE Reg. 350-19. The BFV, Precision Gunnery and MILES system are equipped with eye-safe lasers. Class IIIA lasers are not eye safe on dual low mode within 25 meters. PEM-1A is not a tactical laser and must be used within 25 meters. Laser Warning Signs will be in place prior to opening the range. **Range safety briefing will include hazards using Lasers.**

5. MEDICAL: In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through Range Control.

6. INCIDENT: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the using unit's higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. If the incident results

in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:

- A. Designation of unit.
- B. Range and location
- C. Type of weapon involved.
- D. Type of ammunition involved.
- E. Brief summary of what happened.
- F. Personnel injuries and extent.
- G. Full Name, SS#, Rank and unit of injured personnel.
- H. Extent of property damage.
- I. Intentions regarding an AR 15-6 investigation

7. AMMUNITION: There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de-or re-linked is considered nonstandard and is prohibited from the range.

8. WEAPONS/AMMUNITION MALFUNCTION REPORTS: When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Control. The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Control. An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

9. COMMUNICATIONS: Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

10. RANGE CONSIDERATIONS: The following will be employed while conducting training.

- A. The range OIC and RSO will be present for all training.
- B. CONTROL MEASURES: The cadre will ensure all personnel are clear of the SDZ prior to engagement. BFV Crews will load and will have weapons oriented up/down range at all times. Weapons will remain on safe at all times while moving and when all engagements are completed. At no time will any weapons be allowed to engage unauthorized targets. The cease-fire signal for emergencies will be communications and flags. A detailed risk assessment will be conducted before training, and all measures identified will be enforced. The Battalion Commander, or his designated representative, will certify all live fire scenarios. All training will be in accordance with the appropriate FM's, Battalion standards and SOP's, and Fort Benning regulations.
- C. All VEHICLE CREWS participating in the Gunnery will adhere to MCOE 350-19, and proper display of colored flags to signal weapons/ammunition status.
- C. All weapons will remain on safe unless actively engaging targets. Only authorized targets will be used.
- D. All ammunition will be discharged down range and within the designated limits. All unused ammunition will be turned in to the Ammo Supply Point, to the Ammunition NCO.
- E. All Soldiers will be briefed that any Soldier observing an unsafe act can immediately call a check/cease fire. Emergency cease fire signal will be briefed

F. At no time will ammunition be fired over the heads of Soldiers.

G. Any UXO discovered will be reported to Range Control and EOD, and will be cleared prior to allowing maneuver through the area in which the UXO was found. All vehicles and personnel may have to leave the firing line.

H. Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

I. Personnel movement from the bleachers to the vehicles and back to the bleachers will be handled by the range NCOIC. Soldiers will proceed in a straight line from the rear of the vehicle on and off the firing line.

J. No personnel are authorized forward of the firing line at any time during the conduct of the range.

K. All Soldiers will be in proper range uniform; MICH/ACH, Eye protection, Ear protection, Gloves and LBE/MOLLE/kit.

L. Communications will be maintained at all times, by all participating elements on the range. Proper codes from range control will be received for each 24-hour period.

M. All BFV crews participating in the Gunnery will adhere to MCoE Reg 350-19, proper display of colored flag to signal weapons/ammunition status.

N. The medical/CLS assets will be located at the command post vicinity GB 1145 0101. A CASEVAC vehicle will be on hand during all live fire training.

O. Unit will use the standard 9 line MEDEVAC in case of illness or injury.

The OIC and RSO will ensure that medics/CLS know the lane and the ground routes to and from the lanes to the hospital in case ground evacuation must be conducted. If a Soldier needs to be aerial evacuated it will occur from the point of injury (911). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately.

P. Each crew must be certified dry before being allowed to conduct the live fire.

Q. The range OIC and RSO will ensure that all Soldiers receive a detailed safety brief and that all training is conducted to standard.

R. M242 ammunition and M240C ammunition will be kept separate at all times. All Soldiers will be checked for brass and ammunition before the ASP issues ammunition to the section, and the Ammunition NCO, OIC and RSO will ensure the proper ammunition is being issued. The RSO or safety will also ensure everyone is properly cleared on and off the maneuver lane.

S. All misfire procedures will be rehearsed prior to starting the exercise. The RSO will ensure that the students fully understand the proper misfire procedures and safety checks before allowing them to start the exercise.

T. Any issues/incidents during training will immediately be reported to Range Control and /or the chain of command.

U. All environmental considerations will be enforced.

V. The left and right limits of the FB 350-19-1-E-R will be enforced at all times during dry and live fire training.

11. CONCEPT OF TRAINING: The operation for each POI will be conducted in three phases.

Phase I - PREPARATIONS: See 2. Training Objectives; for the compiled list of prerequisite training for the individual POIs. All equipment will be inspected for serviceability and safety prior to training. All vehicles will be properly dispatched, and support requests will be completed

and confirmed. Coordination will also be made with range control to ensure all issues are addressed before the training is conducted.

OCCUPATION - The POI will conduct movement to Ware Range, and move to their designated assembly areas. The POI will occupy Ware Range as per FB 350-19-1-E-R. The exercise command post will be located in the vicinity GB 1145 0101 (Vic Control Tower). The BN S-3 will ensure the targets are in working order. The OIC will coordinate with target systems to inspect all targets and insure that they are protected from any engagement. The OIC, RSO, Master Gunner/Trainer will ensure that there is good communications with the target operator, and that he fully understands the desired scenario. Medical assets will also be pre-positioned at that command post and a field ASP will be established and ammunition types confirmed.

Phase II — GUNNERY: Each POI will have a different emphasis for training as such their respective is outlined below.

BLC - Each BFV crew will conduct an abbreviated Day and Night Gunnery IAW FM 3-20.21 Heavy Brigade Combat Team, Dec 2009. The Gunnery will start and finish on the Baseline, IAW approved target sheet. BFVs may fire and/or qualify from the left, right or center of the baseline. If a BFV is firing on the right side no other vehicles may occupy the two Battle Positions to the right of the base line. The BFV will not maneuver while firing. No offensive engagements will be conducted. All BFV firing will be conducted on the base line; while BFV is stationary. Battle position 1 and 2 can be used only if there is not a BFV on the right side Base line.

Phase III – CLEARING: A detailed clean up of the range will be conducted once all training is completed. All equipment and trash brought to the range will be removed, and the proper closing codes will be obtained from Range Control. Any unexploded ordinance that is found will be marked and immediately reported to EOD and Range Control. A 100% sensitive items check will be done prior to leaving the Range.

RECOVERY: Once the unit has been cleared from the range, the unit will return to the battalion area. A closing report must be submitted at the completion of training. A detailed recovery will be conducted as per the SOP. A detailed after actions review will be conducted as well.

## 12. MEMORANDUM CONSIDERATIONS:

A. ALL POI MANAGERS have read and understands the scenario(s) for this training packet.

B. ALL POI MANAGERS will execute all training with safety constraints as identified in this packet.

C. ALL POI MANAGERS acknowledges they cannot deviate from this approved packet in any way and must use the identified firing positions and target arrays as defined therein.

D. ALL POI MANAGERS will ensure the OIC/RSO are briefed on use of this packet prior to execution of this packet.

E. ALL POI MANAGERS acknowledge they are required to provide an updated Commander's Composite Risk Management Worksheet (BN level or higher) for this event included with this memorandum that must be approved by Post Safety prior to approval and execution.

F. ALL POI MANAGERS acknowledge they are required to have a copy of this packet on the range while executing this training.

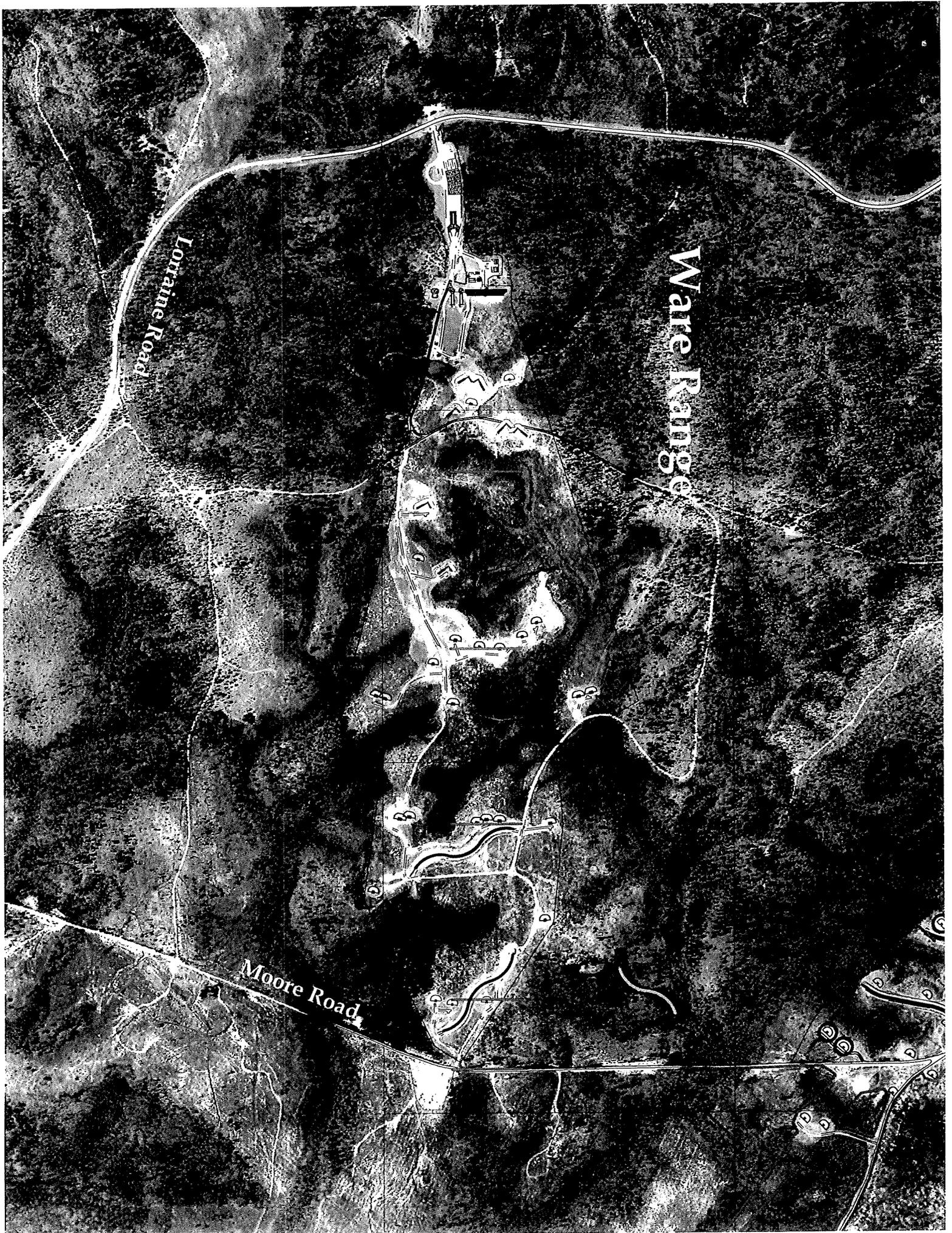
G. ALL POI MANAGERS will ensure they have an updated 144R (Environmental Form), if required, with this memorandum.

H. ALL POI MANAGERS understand that any accidents resulting from use of this packet will freeze this packet for all users, and may, depending on severity of the incident, have the packet revoked for further use by all.

13. POC for this memorandum is the undersigned at (706)-544-6950.



MATHEW EASTWOOD  
SFC/ USA  
BLC Branch Chief  
706-544-6950

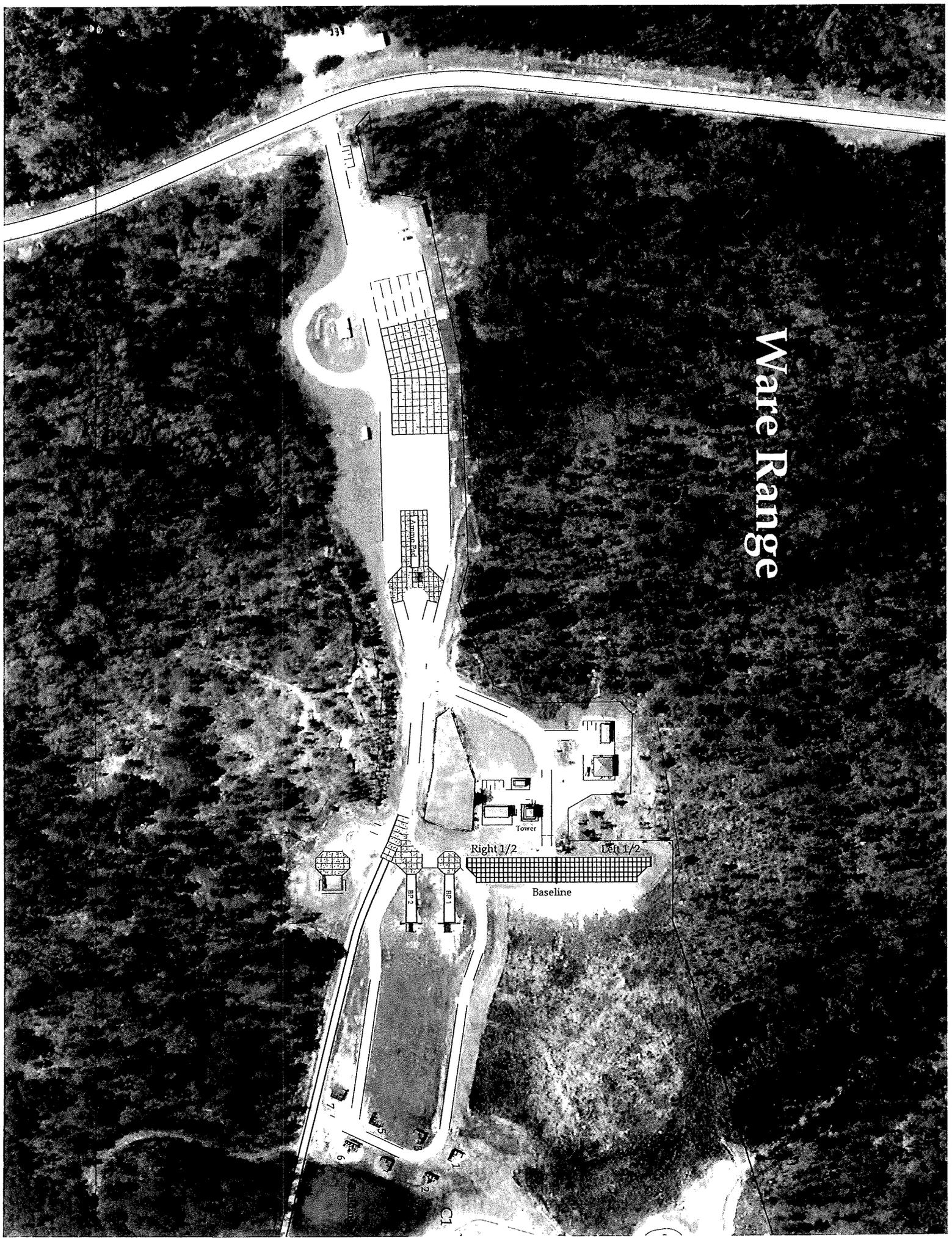


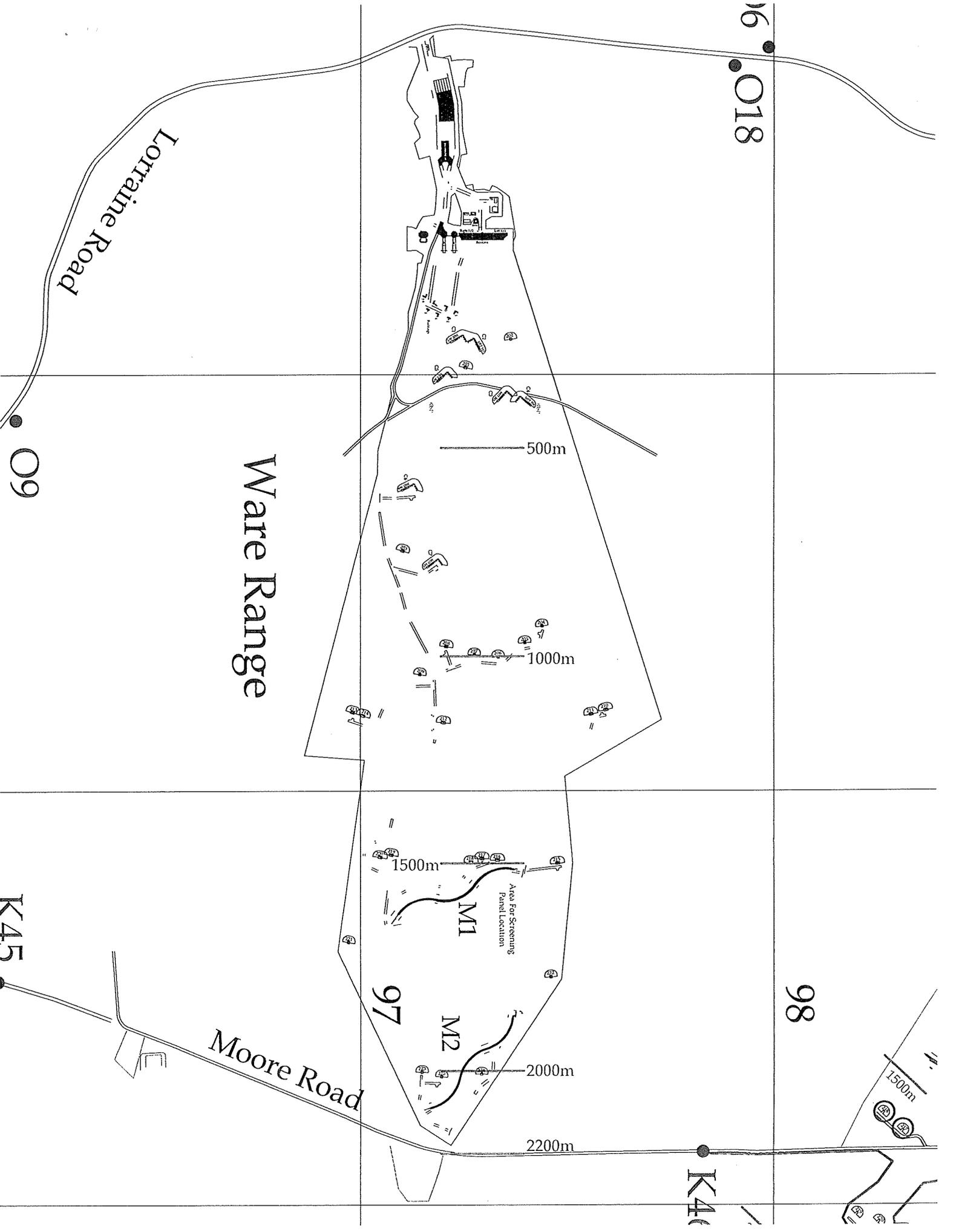
Lorraine Road

Ware Range

Moore Road

# Ware Range





018

Lorraine Road

Ware Range

09

500m

1000m

1500m

Area For Screening Panel Location

M1

97

M2

2000m

2200m

98

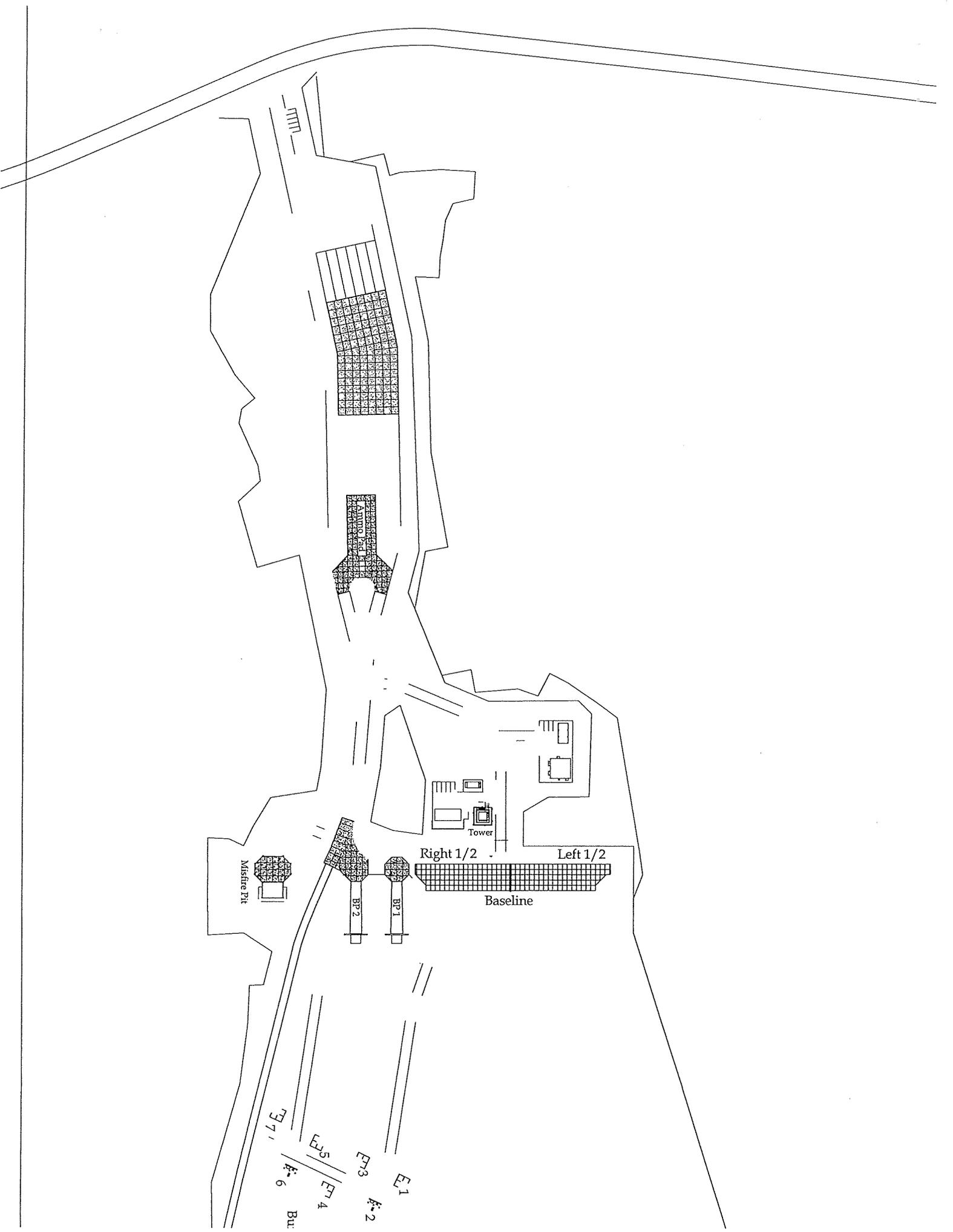
Moore Road

K45

K4

1500m





Mistfire Pt

BP 2

BP 1

Tower

Right 1/2

Left 1/2

Baseline

E-6

E-5

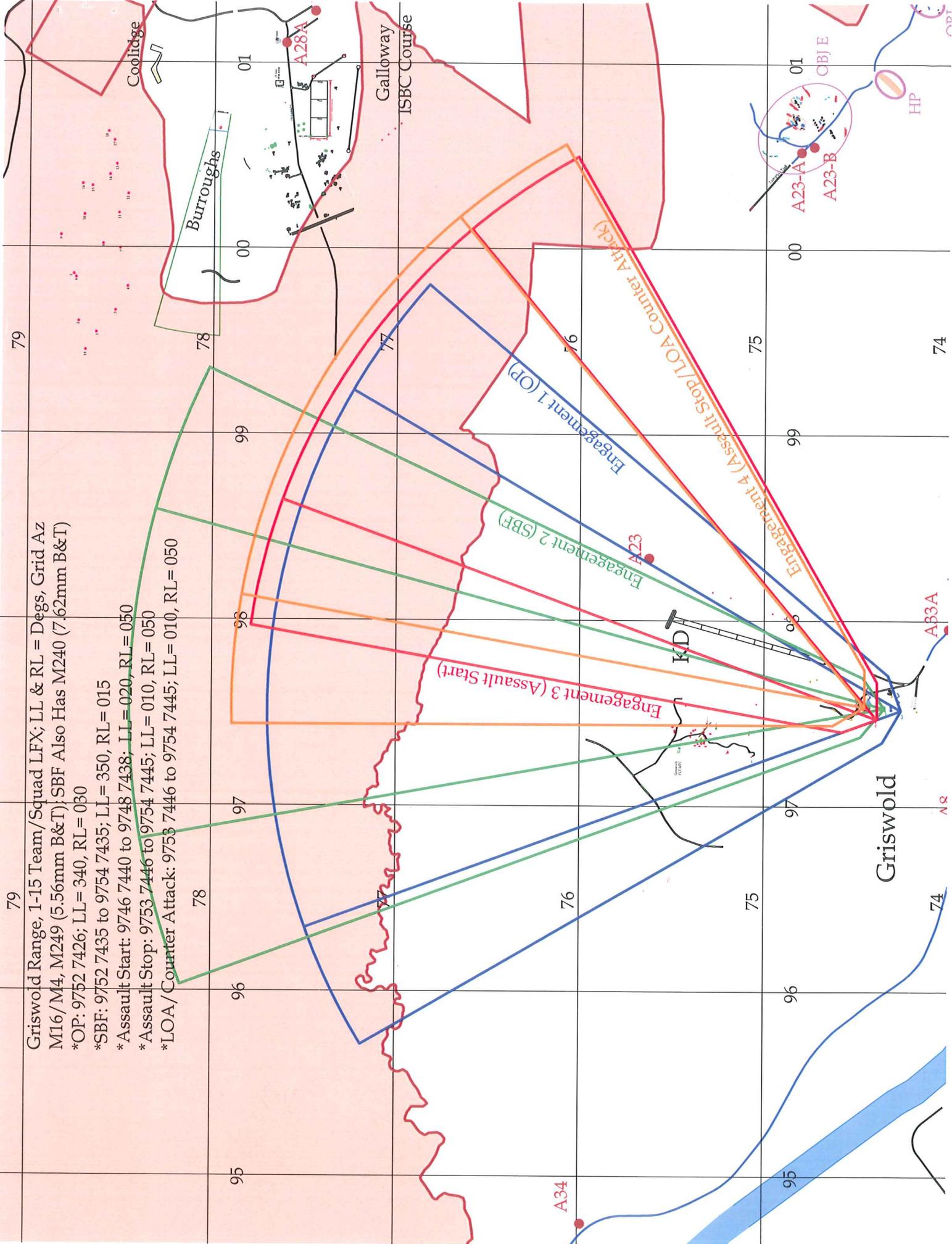
E-4

E-3

E-2

E-1

Bu



Griswold Range, 1-15 Team/Squad LFX; LL & RL = Degs, Grid Az  
 M16/M4, M249 (5.56mm B&T); SBF Also Has M240 (7.62mm B&T)  
 \*OP: 9752 7426; LL= 340, RL= 030  
 \*SBF: 9752 7435 to 9754 7435; LL= 350, RL= 015  
 \*Assault Start: 9746 7440 to 9748 7438; LL= 020, RL= 050  
 \*Assault Stop: 9753 7446 to 9754 7445; LL= 010, RL= 050  
 \*LOA/Counter Attack: 9753 7446 to 9754 7445; LL= 010, RL= 050

Griswold

Coolidge

Burroughs

Galloway  
ISBC Course

A28A

A34

KD

95

96

97

98

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01

A23-A  
A23-B

HP

CBJE

74

98

A33A

99

00

01

02