

5 Canadian Division Support Base



RANGE STANDING ORDERS

EDITION 2018

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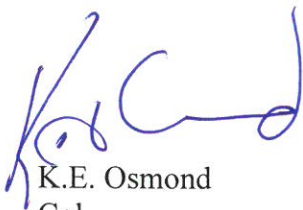
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5 CANADIAN DIVISION
SUPPORT BASE GAGETOWN RANGE
STANDING ORDERS VOLUME I & II

References: A. B-GL-381-001/TS-000 Training Safety
B. Gagetown Range and Training Area, CFB Gagetown, Series A702, Map MCE 24, TR 12
Edition 20, 1:50 000

1. This Range Standing Order constitutes the operating procedures and safety criteria governing all training in the 5 Canadian Division Support Base ranges and training area.
2. While this standing order is derived from the regulations contained in reference A, they must be complemented by other relevant safety instructions, training manuals and ammunition publications.
3. If there is a conflict between this document and any other safety regulation the most stringent regulation will apply until formal clarification is obtained.
4. The intent is to update this order on a regular basis, and as required. Suggestions for amendments are to be submitted to 5 Canadian Division Support Group, attention: Range Control Officer.



K.E. Osmond
Col
Commander

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

RANGE STANDING ORDERS

EDITION 2018

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5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME 1 - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 1 - GENERAL

1.101 AIM

The aim of this Range Standing Orders (RSO) is to detail the regulations governing the control and use of the 5 Canadian Division Support Base Ranges and Training Areas.

1.102 AUTHORITY

This publication is the authority for all aspects of land and air range practices and safety.

1.103 APPLICATION

1. These standing orders apply to all personnel, military or civilian, entering the training area for any purpose.
2. Under no circumstances shall exceptions be made to the regulations contained in these orders without prior written approval issued under authority of the Commander, 5 Canadian Division Support Group.

1.104 RELATED REFERENCES

These RSO's are to be read in conjunction with CFP B-GL-381-001/TS001 (short form CFP 381(1)) and related weapon manuals.

1.105 DISTRIBUTION

These RSO's will be kept amended, on the 5 Canadian Division Support Base local area network (LAN) and they're also available on ACIMs. Users must check the electronic copy for the latest changes prior to training. Should a user not have access to the LAN or ACIMs, Range Control can be contacted for an up-to-date version.

1.106 AMENDMENTS

1. Recommendations for amendments to these Instructions shall be submitted in writing to: 5 Canadian Division Support Base, Attention: RCO.
2. Amendments to these RSO's will be placed on the Range Control ACIMs site.

1.107 DEFINITIONS

1. **Dirty Fire.** The firing of any ammunition or explosive capable of producing a blind (dud producing ammunition).
2. **Clean Fire.** The firing of any ammunition or explosive that cannot produce a blind.
3. **Dry Training.** Non-live fire training. Dry training may include the use of authorized blank ammunition and/or pyrotechnics.
4. **Ground Target.** A target consisting of all surfaces except hard rocky ground and steel armour plate but

including water.

5. **Hard Target.** A target consisting of land, rock, frozen ground or steel armour plate.
6. All definitions can be found in the glossary of B-GL-381-001/TS-001.

1.108 AUTHORIZED MAPS

1. The current authorised map is:
 - a. Gagetown Range and Training Area, CFB Gagetown, Series A702, Map MCE 24, TR 12, Edition 20, 1:50,000.
 - b. No other map is authorised for training purposes without Range Control approval.
 - c. 5 Canadian Division Support Base maps are issued by Range Control.

1.109 Training Safety Waivers

1. Training safety waivers are the authority for a temporary change to the regulations and policy within B-GL-381-001/TS-001 (381-001) Training Safety, and apply only to the particular exercise or range practice for which they have been issued. Waivers shall be regarded as the exception, not the rule. The provisions contained within 381-001 can be waived only by an applicable delegated land command authority.
 - a. Comd CADTC (ATA) is the approving authority for all training safety waivers assessed as **extremely high residual risk. (high residual risk for civilians)** In circumstances where a waiver request supports pre-deployment training for a named operation, and where the ATA would otherwise deny the waiver on the basis of the risk deemed of such high degree or it's an **extremely high residual risk** for civilians, the CCA is the sole approving authority.
 - b. Level 2 Formation Commanders are responsible for approving all training safety waivers that are assessed as representing **high residual risk. (moderate residual risk for civilians)**. Level 2 Formation Commanders and CTC Commander are delegated approving authority of artillery danger-close missions that are conducted in accordance with Chapter 4 of 381-001.
 - c. Level 3 Formation Commanders, equivalents and CO CMTC, are responsible for approving training safety waivers that are assessed as representing **moderate or low residual risk; (low residual risk for civilians)**.
 - d. Base Commanders and CO 4 CDTC is responsible for approving training safety waivers that are assessed as representing low residual risk that involve civilian personnel participating in training events such as riding in CAF vehicles, using CAF weapons, Rappel Tower and Obstacle Courses.
2. Delegated commanders are responsible for ensuring that risk management is conducted in accordance with the protocol established in Annex C of 381-001 and for retaining records of risk assessments in case they are required for investigative purposes.
3. Unit commanding officers are responsible for ensuring that all requests for training safety waivers are received by the approving authority no later than 30 calendar days prior to the event. All requests for training safety waivers shall include the supporting risk assessment. Training safety waiver requests that are submitted late or that have not been fully analyzed may be returned.
4. The delegated approving authority is responsible for notifying the Real Property Authority who is directly responsible for the land where the waiver has been approved.

5. Prior to authorizing a safety waiver, delegated authorities shall give full consideration to the following principles and guidelines:

- a. the waiver for a change or changes to safety is essential for effective training;
- b. consultation has been conducted with subject matter experts (SME) to obtain expert opinion on the associated risk and mitigating factors (eg, Area Engineer representative, Area Ammunition Technical Officer, G3 Aviation);
- c. the residual risk has been assessed and is deemed acceptable;
- d. the request for the waiver is in writing and substantiated; and
- e. the delegated authority is confident that the training unit has the ability to safely conduct the activity to which the waiver shall apply.

6. If, after considering the above principles and guidelines, the Commander still deems the activity to pose an extremely high residual risk, a waiver request shall be forwarded through the appropriate Level 2 Formation Commander to the ATA.

7. Due to the inherent dangers and potential for catastrophic consequences, special consideration must be given when applying for a **training safety waiver involving explosives and ammunition**. Commanders at each level must exploit the expertise available to them prior to forwarding the request to the next higher level.

Note: The Range Control Officer will need to receive a copy of approved waivers prior to training under that waiver for the specified activity.

1.110 Exceptions to RSO`s

1. The RCO and CO Ops Svcs Br have been devolved the authority for approval of some temporary exceptions to regulations contained within the RSOs, which do not contravene those found within 381-1. To expedite requests for an exception regarding regulations contained in the RSOs, the matrix on the following page will apply:

Waiver/Requirement	Staffing	Approval
Blast and fragmentation within Argus Company Position to include ricochet of dud producing ammunition	e-mail to RCO confirming Unit CO`s concurrence	RCO - info CO Ops Svcs Br
Fire dud producing ammunition within the Anti Armoured Range AAR	e-mail to RCO confirming Unit CO`s concurrence	RCO - info CO Ops Svcs Br
Ricochet from dud producing ammunition within the AAR and Grenade Range	e-mail to RCO confirming Unit CO`s concurrence	RCO - info CO Ops Svcs Br
Sniper live fire stalk within the Enniskillen Range Complex	e-mail to RCO confirming Unit CO`s concurrence	RCO - info CO Ops Svcs Br
Dismounted manoeuvres within the Enniskillen Range Complex	e-mail to RCO confirming Unit CO`s concurrence	RCO – info CO Ops Svcs Br
Load but not arm weapons on tactical movement before entering assigned firing range (LAV/Coyote main armament, coaxial and pintle mounted MG)	e-mail to RCO confirming Unit CO`s concurrence	CO Ops Svcs Br
Fire 84 mm dud producing ammunition at FP 4	e-mail to RCO confirming Unit CO`s concurrence	RCO – info CO Ops Svcs Br
Off road movement Area 2	Request through RCO	RCO – info CO Ops Svcs Br
Deployment of Guns within Austere Village when no waiver required	Range Booking/CFSME	RCO
Digging within the SRIA	e-mail to RCO confirming Unit CO`s concurrence	CO Ops Svcs Br
Dismounted manoeuvres within the SRIA	e-mail to RCO confirming Unit CO`s concurrence	CO Ops Svcs Br
Waiver regarding FWI restrictions	Request through RCO	CO Ops Svcs Br

3. Unit Ops O`s should request guidance from the RCO on any exception requirements not indicated in the matrix relating to RSOs. For all waivers relating to Training Safety consult 381-001, Chapter 1 para 43 to 56.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 2 - COMMAND AND CONTROL

1.201 RESPONSIBILITIES

1. 5 Canadian Division Support Base

- a. 5 Canadian Division Support Group Ops Svcs Br is responsible for the provision of the best possible ranges, training areas and facilities; their safe and efficient use, control and management. Allocation of ranges are booked through Range Control and authorized by CO Ops Svcs Br.

2. User Units. Units are responsible for:

- a. the overall coordination of their training;
- b. the appointment and provision of safety supervisors, who are thoroughly familiar with all safety regulations and have the necessary qualifications and equipment;
- c. Issuing SOPs and/or local instructions necessary for the safe conduct of unit training. This also extends to protection of the environment; and
- d. Environmental assessment, and manoeuvre damage team (pending size of exercise).
- e. Weapons shall be inspected in accordance with the following schedule in accordance with CFTO (C71020001AG000):
 - (1) Every 6 months for weapons on issue to Regular Forces units by a qualified Weapons Technician on unit establishment; and
 - (2) Every twelve months for weapons on issues to units without Weapons Technicians on their establishments.

3. **All Ranks.** Safety must be the continual responsibility of every person participating in training. All ranks are responsible for ensuring that correct drills and procedures are followed, and for taking immediate steps to stop any action, which appears to be dangerous and likely to result in an accident. If necessary, anyone may order Check Firing or Stand Fast in the interest of safety.

1.202 EXERCISE APPOINTMENTS AND RESPONSIBILITIES

1. It is mandatory that an OIC Exercise, a Firing Point Officer and a Range Safety Officer be specifically appointed for every live fire exercise, although one individual may sometimes be embodied to act in all capacities for simple exercises or range practices. Exercise Range and Target Parties will be appointed as required.

2. **Officer in Charge of the Exercise (OIC Exercise)**. The OIC Exercise is an experienced officer, warrant officer or non-commissioned officer who is appointed by a unit Commanding Officer to be responsible for the conduct of all aspects of a specific exercise.

a. OIC Ex responsibilities include:

- (1) ensuring the required facility is properly booked and allocated and that all safety templates are approved by Range Control;
- (2) the issue of any detailed instructions necessary for the safe conduct of the exercise by participating troops and control staff; The OIC of a range practice must ensure that all participants understand the safety and firing orders being issued. The OIC is responsible in providing these orders in either of the official languages depending on the requirements.
- (3) controlling movement within the range and training areas allocated to him;
- (4) appointing, briefing, supervising and ensuring the qualification of assistant safety supervisors, Range Safety Officers, Dud Destruction Officers/NCOs as applicable (although appointed by OIC Ex, they must be brief by ATO);
- (5) the safety of all personnel in areas that have been allocated;
- (6) giving the order Check Fire immediately when a safety hazard is detected;
- (7) maintaining communications on the range safety net and with all elements involved in the exercise. If such communications fail, he will immediately check fire until they are restored;
- (8) strict compliance with Daily Range Safety Orders, Range Instructions, B-GL-381-001/TS-001, related weapons manuals and ammunition restrictions;
- (9) positioning of sentries within one hour before firing as detailed by DRSOs;
- (10) conduct a visual sweep of his training area within one hour prior to the commencement of live fire to ensure that the danger area is free of unauthorized users;
- (11) ensuring: ranges and training areas (including target system) are not damaged and are left clean. Maintain a track discipline. Any damages are to be reported to Range Control;
- (12) ensuring environmental protection as per SOP and the completion of an Environmental assessment when required;
- (13) reporting weapon/ammunition accidents, incidents, defects and malfunctions to Range Control (dud will be reported on the clearance sheet);
- (14) ensuring the provision of proper medical support in accordance with 381-1;
- (15) completing mandatory reports on the Range Control Net;
- (16) complying with Range Fire Orders, report all fires to Range Control;
- (17) inspecting the range for unsafe conditions paying particular attention to protruding metal objects; and
- (18) The OIC must make appropriate arrangements with Range Control to have their training areas inspected. Range inspections fall into two categories - fixed ranges must be inspected by Range Control staff prior to the unit leaving the range complex. Manoeuvre areas must be inspected ASAP on end of exercise. To accommodate this procedure the OIC will submit a manoeuvre trace along with his range clearance certificate to Range Control. Range Control

will inspect and advise the unit within 24 hrs regarding any deficiencies. – The range clearance certificate should also include range deficiencies and recommended maintenance issues.

- (19) **All incidents/accidents/infractions of any sort will immediately be reported to Range Control.**
- b. **Range Safety Officer (RSO)**
- (1) The RSO is responsible to the OIC Exercise for all aspects of safety IAW B-GL-381-001/TS001, including weapon, ammunition and fire safety.
 - (a) The RSO will man a control point (preferably a tower) located at some vantage point outside the danger area which allows a good field of view over both the target area and the firing point.
 - (2) To be qualified for appointment as an RSO, an individual must:
 - (a) be qualified on the weapon(s) or weapon(s) system(s) being used in the exercise by virtue of either a formal CF course or a combination of unit on-job-training and experience which meets with the approval of his Commanding Officer;
 - (b) have a comprehensive and current knowledge of the orders and procedures for ranges and range practices; and
 - (3) Authorization for qualified personnel to act as RSOs shall be reflected in routine orders, specifying the type and/or calibre of weapons including laser as applicable. The authorization will be recorded in the member's Unit Employment Record (UER).
 - (4) Appointment of RSOs is governed by the type and intended use of the range as follows:
 - (a) **Small Arms Ranges - Military Training.** Is normally restricted to officers and NCMs of the rank of sergeant or above who are fully qualified as defined above. A unit CO may appoint a qualified master corporal as an RSO when an NCM of the rank of sergeant or above is not available for those duties. Written authorisation by the **current** CO will certify that he is satisfied that the individual is fully qualified to act as an RSO;
 - (b) **Small Arms Ranges - Recreational Shooting.** Restricted to military members of an authorised military rifle association, rifle club, pistol club or skeet club. Recreational use of 5 Canadian Division Support Base SA Ranges is also extended to members of the Dominion of Canada Rifle Association and its Provincial Rifle Association;
 - (c) **Small Arms Ranges - Civilian Police.** Civilian police may use their own range safety personnel who have been qualified by virtue of a formal course, the Training Plan of which must be booked by Range Control. The Base Security Officer will coordinate all civilian police requirements in conjunction with CO Ops Svcs Br;
 - (d) **Small Arms Ranges - Weapon Testing.** A Weapons Tech (L) or (A) in the rank of master corporal or above may be appointed by the unit to be the RSO for the testing of weapons. Qualification by personnel of these trades is obtained by attendance on a formal Weapons Tech course;
 - (e) **Land Force Direct and Indirect Fire Support Ranges.** Restricted to commissioned officers and NCMs of the rank of sergeant or above. For artillery firing, the RSO must be either an artillery officer, an artillery warrant officer or an artillery senior NCO

(6A) who is qualified artillery technician. He/she must also have taken the unit artillery safety officers course and be certified as having qualified to perform the duties of a safety officer in that unit by the Commanding Officer; and

- (f) **Demolition Ranges (Land)**. Restricted to officers and NCMs of the rank of Sergeant or above who are currently qualified for that appointment as defined at para 1.207.
- c. **Firing Point Officer (FPO)**. An experienced officer or non-commissioned member (NCM) in charge of a firing point. Synonymous with OIC Ex/Practice. Duties in accordance with B-GL-381-001/TS-001.
- d. **Assistant Range Safety Officers**
 - (1) On field firing and other ranges when firing points and arcs of fire are not clearly marked, or when several firing points are being used concurrently; it will be necessary to have an additional Safety Officer with each small body of troops or individual crew-served weapon which may manoeuvre and fire independently. An example of this would be the rifle group of an infantry section or an artillery section when a battery is "stepping up".
 - (2) Personnel appointed as Assistant Range Safety Officers will hold the rank of Cpl and qualified PLQ.
 - (3) They must be qualified on the weapons or weapons systems being used in the exercise by virtue of either a formal course or a combination of unit training and experience that meets with the approval of their unit CO
 - (4) Assistant Range Safety Officers will work under the direction of the RSO. While firing is actually being conducted, they must have no responsibility other than that of safety
- e. **Firing Point Assistants**. The Firing Point Officer may have an assistant to:
 - (1) control the red and green warning flags;
 - (2) lay out the Back Blast Danger Area (BBDA), if applicable;
 - (3) count rounds fired and plot the position of any duds;
 - (4) score the firing, if required; and
 - (5) otherwise assist the Firing Point Officer.
- f. **Weapon Safety Officer (WSO)**. For each air defence weapon firing detachment, a weapon Safety Officer will be appointed. The WSO must be an experienced air defence officer or an NCO qualified air defence QL6B.
- g. **Laser Safety Supervisor (LSS)**. For each weapon equipped with a laser, a LSS will be appointed. The LSS can be the WSO.
- h. **Crew/Detachment Commander**. The crew commander or the detachment commander of each AFV, gun or missile to be fired must:
 - (1) ensure, before firing begins, that they know the limits of the arc of fire, and has identified the arc markers for their weapons;
 - (2) ensure that their weapons, when loaded or armed, are never traversed outside the safe arc of fire; and
 - (3) order "STOP"/"CHECK FIRING" when this order is received from the Firing Point Officer.

1.203 RANGE CONTROL AUTHORITY

1. All members of the Range Control Staff are appointed security guards and are empowered to take such action as deemed necessary to enforce these orders, the DND trespass regulations, and any other orders applicable to the safe and efficient operation of 5 Canadian Division Support Base Ranges and Training Areas. All fish and game laws, environmental legislation, regulations pertaining to wood cutting operations will be reported to the appropriate agency.

2. The Range Control Officer or the following NCOs: I/C Range Operations (I/C Rge Ops), Coordinator Range Safety, and Booking NCO are appointed "issuing authorities" for the purpose of issuing passes in accordance with the DND Trespass Regulations.

1.204 DAILY RANGE SAFETY ORDERS (DRSOs)

1. DRSO's are published weekly by RC indicating all ground and airspace bookings for the RTA and are the sole authority for management of the RTA and associated airspace. DRSOs are distributed approximately six working days in advance of the training date. All requesting units are to represent their ground and airspace requirements to RC at the weekly Deconfliction meeting which takes place at 1300 hrs every Thursday:

- a. the allocation and use of all range and training areas for activities by military and civilian personnel;
- b. control of airspace in CYR 724, CYD 722 and CYR 725, as well as CYRs 721 and 722 when active. For further details, refer to 5 CDSB Flying Orders;
- c. authorizing weapons and ammunition;
- d. authorizing impact areas and gun deployment areas;
- e. issuing of areas available for non-military use; and
- f. access and movement control measures including directing the positioning of sentries and barriers, and notification of roads closed to traffic.

2. Range requests for live firing "write ins" in the Static Range Impact Area (SRIA) may only be authorised by the Range Control Officer, IC Range Operations, the IC Range Safety or the I/C Rge Booking once DRSOs are printed. Small Arms Range Complex (SARC) Ranges may be booked at any time prior to use by the I/C Rge Booking. Live "write ins" outside the SRIA may only be granted by the RCO, as well as all airspace write-ins.

3. The OIC Exercise, RSO and/or the person in charge of military or civilian parties engaged in a military task shall have a copy of the current DRSO in his possession at all times when in the 5 Canadian Division Support Base Ranges and Training Areas. This includes Range Development and Maintenance Staff, Forestry, Fisheries, and CE.

4. The instructions contained in DRSOs will be strictly adhered to.

1.205 RANGE AND TRAINING AREA COMMUNICATIONS

1. Range Safety Net 49.90 (NEW SQUELCH)

a. The Range Safety Net is operated by Range Control on a 24/7 basis. All users of the 5 Canadian Division Support Base ranges and training areas (live and dry) will be a working sub-station on the range safety net with the following exceptions:

- (1) units while in field camps or bivouac sites providing:
 - (a) a telephone is operating efficiently and manned continually;
 - (b) a backup radio is readily available; and

- (c) the Range Safety Net is joined by any unit/party prior to leaving the camp or bivouac.
- (2) in exceptional circumstances when radios are not available individuals or small parties, not conducting training, (MRTs, snow removal, line repairmen, RPOU and recce parties) may be authorized, by the parent unit, but with the approval of Range Control to enter the training area without a radio. The parent unit will be responsible for:
- (a) briefing the individual/party as to a safe route and safe area in which to conduct the assigned task and if necessary issue a marked map;
 - (b) when contact with another unit is necessary, arrange a contact point and a guide;
 - (c) ensuring the individual/party has a training area map and a copy of DRSOs and one member is a competent navigator and understands the contents of the DRSO;
 - (d) monitoring time out and expected time of return. Any delays must be reported to Range Control; and
 - (e) the party must not bypass or move a closed barrier;
- (3) users of the Obstacle Course, the FIBUA Building, and the Gas chamber, rappel towers, within the Base area;
- (4) aircraft on dry training controlled by the Gagetown Tower; and
- (5) when approved by Range Control, dry training, when under the control of, and in radio contact with a central HQ, which in turn is a working station on the Range Control Net.
- b. Units are to initiate **hourly** checks to ensure that they are in contact with Range Control and/or all separated elements/firing points involved in the exercise. If communications on the safety net, or on the unit working net is lost, the OIC Ex will immediately stop training and place his unit in "check fire" until such time as communications are restored.
- c. Range Control will initiate regular checks to ensure that user units are in contact. During the hours of darkness these checks will be conducted every 30 minutes.

2. **Administrative Net 48.9**

- a. This net is operated by Range Control on a 24/7 basis. All administrative traffic will be passed on this net.

3. **Base Services Net 149.8**

- a. A Camp Services Net incorporating Range Control, Base Transport, the Fire Hall, and Military Police is in existence at 5 Canadian Division Support Base.
- b. All vehicles from these units operating in the training area will be equipped with a radio on this net.
- c. Vehicles from other government agencies, ie, Fish and Wildlife, Natural resources will also use this net to stay in contact with Range Control.
- d. Units will use their unit identity code, ie, Range Control or Snowplough CFR, etc as a callsign.
- f. In the event of an emergency, this net will be used as a "base" to keep all agencies in contact.

4. **Meteorological Net 42.15 (NEW SQUELCH)**

- a. This net is operated by the Base Meteorological (Met) Section located in Bldg L-37. All Met messages are passed on this net.
- b. The net operates only during periods that Met information has been requested.

5. **Telephones**

- a. Telephones are located throughout the training area as shown on the training area map. These are dial telephones but do not have a bell. Range telephones cannot receive calls.
- b. A list of important telephone numbers and location is attached at Annex B. Additional telephones can be installed at bivouac sites and field camps if a minimum of 10 days notice is given.

6. **Ground to Air Nets**

- a. The following Ground to Air Nets are available through the 5 CDSB Gagetown Tower located at GR 990 791:
 - (1) VHF - 126.4 – “Gagetown Advisory”;
 - (2) VHF - 120.2 – “Gagetown Advisory” (back-up freq);
 - (3) UHF - 263.3 – “Gagetown Advisory” (UHF);
 - (4) FM – 46.8 – “Flight Following” (FM); and
- b. The following frequencies are also available:
 - (1) VHF – 131.4 “Range Control”
 - (2) 43.0 or 121.5 MHz – Emergency Frequencies
- c. These Gagetown Tower Nets are monitored whenever a 403 Sqn aircraft is in the training area and the Tower is manned. When the Tower is not operating, all aircraft will contact Range Control directly on 131.40. All aircraft intending to enter within CYR 724, CYD 722 and CYR 725 must first obtain permission to enter and then monitor one of the frequencies listed. Aircraft conducting live fire training or participating in live fire exercises must be a working station on the Range Safety Net (49.90).

7. **Radio Tower.** The Range Control Radio Tower is located at GR 044 501. The site is out of bounds to all except Range Control and authorized repairmen.

8. **Monitor.** All transmissions on the Range Safety net and telephone conversations of key personnel (RSO, I/C Range Ops, I/C Range Safety, I/C Range booking and the Range Control CP) are recorded on tape.

9. **Call Signs (C/S).** A list of fixed call signs is attached at Annex A. Call signs are reflected in Daily Range Safety Orders.

10. **Frequencies.** The Signal Squadron on request will allocate additional range and training area user frequencies.

11. **Mandatory Reports.** The following reports on the range safety net are mandatory:

a. **Joining Safety Net**

- (1) "Range Control, this is (C/S) _____, permission to join net, radio check, over".
- (2) Upon receiving signal strength and permission to join the safety net from Range Control the unit must provide location or destination where activities will take place in the RTA.

b. **Radio Checks**

- (1) Units are to monitor the safety net 49.90 continuously and initiate hourly radio checks with Range Control using the format below;
- (2) "Range Control, this is (C/S) _____, radio check, over";
- (3) Range control will acknowledge the transmission and reply with a confirmation of signal strength i.e. loud and clear / weak with interference.
- (4) Radio checks are also requested following every major move of the unit.

c. **"Leaving Base/Bivouac/Field Camp** for Area/Range _____, OIC Exercise is _____ anticipate firing to commence at _____ hrs."

d. **Upon arrival to the Range**, report to Range Control as soon as comms are established: "Range/training area/firing point/impact area is clean/dirty and suitable/unsuitable";

e. **Request Permission to Go Live**

- (1) "Range Control, this is (C/S) _____, request permission to go live, over".
- (2) Upon receiving acknowledgement from Range Control the unit will provide to following information:
- (3) "Range Control, this is (C/S) _____, request permission to go live in accordance with serial# _____ of the DRSO's, OIC Practice is _____, and the Range Safety Officer is _____ (note, can be same as OIC Prac for simple ranges), Ammo _____, Flags _____, Sentries and/or Barriers are in place, First Aider with Vehicle and/or Medic with Ambulance on location, I have all documents and equipment required IAW RSO's para 2.102. Trace Code to be used _____ (if applicable), Gun Location and OP Location (if applicable - six figure grids) _____ Condition of the Range is _____ (suitable / not suitable), over".
- (4) Range Control will read back the request and give permission to go live only when all information has been confirmed.

f. **"range safe"**, indicates live fire has ceased. Units will provide a SITREP such as "completed firing for the day, stopping for lunch, or we are temporarily finished and will recommence our activities at approximately xxxx hrs;"

g. **"range clear, range clean"** indicates user is leaving the range and it is safe and clean to include firing point, impact area and all buildings for another user to enter and use. If returning, state time of estimated return; and

h. **"back on base/bivouac/field camp**, request permission to close down". Certifies that all troops, vehicles and equipment are accounted for. To be sent only after Range Clearance Certificate has been completed.

1.206 CONTROL OF AIRSPACE/AIRCRAFT

1. **CYR 724**. The airspace within the boundaries of CYR 724 up to an elevation of 25,000' ASL (FL250) is protected for DND use and control. At no time will a round be fired when the trajectory exceeds 25,000' minus the positive safe distance for rounds with timed fuses. Units requiring additional airspace above CYR 724 must submit a request in writing to the RCO 21 days in advance.

2. **CYR 725.** Requests to use airspace over CYR 725 above 2200' AGL, must be submitted to RCO 21 days in advance.
3. **CYD 722.** DND has priority use of airspace in CYD 722 below 1200' AGL. Units requiring airspace over CYD 722 will submit request to RCO 21 days in advance.
4. **CYR 720 and 721.** These CYRs are outside the base, on the Western and Eastern edge. They are normally booked when Fast Air is being employed and can be activated by NOTAM when required. CYR 720 is to the West of base and extends from the surface up to 25,000' ASL. CYR 721 is on the Eastern edge of the RTA and has a floor of 6,000' and extends up to 14,000' ASL. Units requiring airspace over CYR 720 or 721 will submit request to RCO 21 days in advance.
5. **Pilot Briefings.** All pilots wishing to fly in the 5 Canadian Division Support Base air space must receive a briefing on procedures and restrictions prior to entry into Gagetown airspace. Briefings are to be requested through 5 CDSB Ops or 403 Sqn Ops.
6. **Air Weapons.** Regulations for the conduct of air to ground weapons exercises are contained in Chapter 2, Annex R.
7. **UAS.** Before any Launch and recovery a 60 minute warning will be provided to Range Control to allow them to advise all other airspace users.
8. **Flying Orders.** Flying orders are found in 5 Canadian Division Support Base Standing Orders.
9. **No Flying Areas.** Aircraft shall not fly in the "Flight Hazard Areas" as indicated in DRSOs unless the pilot is authorized to do so for specific purposes as published in DRSOs or has permission from Range Control.
10. **Air Obstructions.** All prominent air obstructions such as RRB Towers, lookout towers, etc, are shown by standard NATO map symbols and are indicated on CFB Gagetown Map Edition 20 TR 14.
11. **Military Parachuting.** Training areas and airspace shall be requested as per Chapter 1, Section 6 before parachuting takes place in CYR 724. Overflight authority will be published in DRSOs.
12. **Overflying Personnel and Vehicles.** Overflying areas where personnel are engaged in training exercises, care must be taken not to fly low enough to interfere with the training exercise.
13. Caution must be exercised when overflying personnel who are using pyrotechnics particularly when hand-held para flares and signal pistols are being used.
14. **Model Aircraft and Recreational Drone Flight.** Training areas and airspace shall be requested through Range Control and shall be published in DRSOs.
15. Control and safety regulations are found at Chapter 2, Annex A.

1.207 DEMOLITION SAFETY QUALIFICATIONS

1. **General.** It is the responsibility of Unit Commanding Officers to ensure that the safety personnel required to conduct or supervise training possesses the required qualifications. Demolition training is mandatory for anyone who is to use explosives during the course of his normal duties whether for destroying duds or for formal all arms tasks (see ref B-GL-381-001/TS-001 Chap 7, sect 2).
2. **Demolition Instructor Qualifications.** To use demolitions, personnel must be qualified as follows:
 - a. Officers or NCOs who instruct demolition must be qualified with at least one of the following:
 - (1) Fd Engr 041 QL5B or higher;

- (2) ENGR 24A;
 - (3) Advanced Assault Pioneer;
 - (4) AHMH, UH/HA-EOD Basic;
 - (5) AGRP, HB EOD Advanced; and
 - (6) AGRS, Demolition Instructor All Arms.
3. **Dud Destruction**. Except for the destruction of blinds on the Grenade Range, the responsibility for control of duds within the Range and Training Areas rests with the Range Control Officer and the Ammunition Technical Officer. Destruction of duds in the Grenade Range is the responsibility of the OIC Exercise. Where a training unit has personnel qualified for ordnance disposal, authority for destruction of duds in the area is granted provided the proper procedures are followed and Range Control is notified of the intention and results. All duds must be reported to the ASA by using a CF 410. These reports are filled IAW A-GG-040-006/AG-000 DND Accident/Incident/Defects and Malfunction Reports and Disposal Request and CGSO 3-31.
4. **Demolition training**. Training in the handling and use of demolition is a unit responsibility, and must be taught by an AGRS qualified person.
5. **Access to Demolition Stores**
- a. Authorised personnel whose names are on an access list may only draw demolitions, like all munitions, from the ASA.
 - b. Due to the nature of these stores, additional controls are required. The procedures required are outlined in 5 Canadian Division Support Base SO 6-2-4.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 3 - TRAINING AREA GENERAL

1.301 GENERAL

1. This section details the common regulations governing the use maintenance and the restrictions applicable to the general use of the training area.
2. The training area is divided into specific categories based on the type of activity each is designed for. These areas are found on the Map: **CFB Gagetown, Range and Training Area, Ed 20 TR 12**.

1.302 ACCESS CONTROL

1. Access to the 5 Canadian Division Support Base ranges and training areas is controlled through two authorized entry points located at:
 - a. Range Control GR 975 783 open 24/7;
 - b. Petersville Camp GR 046 494 open 24/7; and
2. Additional access points are available through a series of locked barriers, the locations of which are marked on the map and are found at Annex C. Keys to these barriers are available from Range Control.
3. Access to the **Static Range Impact Area** and other fixed ranges are controlled through a series of locked gates. Keys are available from Range Control.
4. Access to the 5 Canadian Division Support Base Ranges and Training Area by any unauthorized method is an offense punishable under Defense Trespass Regulations. Locked barriers will not be bypassed nor will new access routes be created.
5. Anyone locating a broken barrier, gate or finding an unauthorized access route will report the finding immediately to Range Control.

1.303 UNEXPLODED HAZARDS (Blinds)

1. Blinds found or occurring throughout the training area are treated differently depending upon their location as follows:
 - a. **Static Range Impact Area (SRIA)**. Blinds occurring in the SRIA and Mountain Impact Area need not be located and marked but must be reported on the Range Clearance Certificate with, if possible, an eight figure Grid reference. If a blind occurs on a road or other area that would constitute a hazard it must be immediately reported to Range Control;
 - b. **Grenade Range**. Blinds must be dealt with as detailed in Chapter 2, Annex H; and
 - c. **Manoeuvre Area**. Blinds are to be marked, recorded, and immediately reported to Range Control with eight figure grid.

2. **Misfires** are not blinds. Misfires will be dealt with, as detailed in the appropriate weapons manual.
3. **Pyrotechnics** that do not function properly are considered blinds and will be treated as such.
4. The destruction of blinds other than on the Grenade Range is a Range Control responsibility.

1.304 ZONES OF CONTAMINATION

1. The Ranges and Training Area is divided into zones based on the assessment of blinds hazard in various parts of the area. A trace showing these zones is available at Range Control. The zones of contamination are subject to change based on use and reported blinds. User units should update zone boundaries with Range Control prior to deployment.

2. Types of Contamination.

- a. **Type 1.** HIGH RISK/EXTREMELY DANGEROUS. Areas that have a high degree of contamination from dud producing ammunition and where the probability of encountering duds is extremely high (Impact areas dedicated to artillery, armour, anti-armour and air to ground live fire practices and where manoeuvre training is very restricted);
- b. **Type 2.** MEDIUM RISK/DANGEROUS. Areas that have some degree of contamination from dud producing ammunition and where the probability of encountering duds is high. (Impact areas where the primary purpose is manoeuvre training but where dud producing ammunition is or was previously fired);
- c. **TYPE 3.** MODERATE RISK. Areas contiguous to types 1 & 2 for which there is no assurance that they are free of dud contamination;
- d. **TYPE 4.** LOW RISK/LIMITED RISK DANGER. Areas in which it is extremely unlikely dud producing ammunition may have landed during range practices or exercises. These areas should be free of dud contamination.

3. **Danger Trace.** This trace displays all the areas contaminated within 5 Canadian Division Support Base, by types of contamination. These traces are located at Range Control and updated annually. They must be reviewed by the user units prior to the commencement of training.

4. No open fires of any kind will be deliberately ignited in blinds contaminated areas, unless the ground has been positively proven and guaranteed dud-free without authority from the CO Ops Svcs Br.

1.305 RANGE CLEARANCES

1. Range areas must be periodically cleared to render them safe for manoeuvres. Range Clearance does not include Post Firing Range Sweeps.

2. Making part of a Zone of Contamination safe for a specific operation or maintenance task will be conducted to meet the following criteria:

- a. **Post Firing Sweeps.** Sweeps are not to be confused with Range Clearance Operations, which are more involved and are detailed in B-GL-304-003/TS-003, Range Clearance Handbook. Post Firing Sweeps do not include the removed of duds of any types including pyrotechnics which will be marked and reported to Range Control for disposal.
- b. **Dud disposal.** A detailed visual inspection of the ground, marking, and destroying duds;

- c. **Surface Clearance (Formerly Level 1).** The removal of all foreign materials through demolition or physically removing the items;
 - d. **Subsurface (Formerly a Level 2 or 3 clearance).** Using Metal Detectors the site is cleared to a depth that is deemed safe for its intended use (the norm for military manoeuvre areas is usually 45 cm. Subsurface clearance procedures are detailed in B-GL-381-003/TS000 Range and Unexploded Explosive Ordnance (UXO) Clearance Handbook.
3. The decision on the type of clearance required will be made by CO Ops Svcs Br with advice from the ATO and Range Control and will depend on the Danger Trace and the type of activity to be conducted. The following general guidelines will be used.
- a. **Surface Clearance.** For activity where the surface will be traveled on by any vehicle but the surface will not be dug up including pounding tent pegs or stakes/pickets into the ground.. This includes grading of target and battle runs and all activity in Zone 3 areas of contamination.
 - b. **Subsurface Clearance.** For activity where the surface is to be dug up.
4. Dud disposal of a minor nature will be conducted by Range Control. **Clearances** which require more than Range Control resources will be coordinated and conducted under the direction of the ATO, IAW B-GL-304-003/TS-003 Range Clearance Handbook.

1.306 THE STATIC RANGE IMPACT AREA (SRIA)

- 1. **Description.** The SRIA is bordered in **red** on the map and encompasses the following:
 - a. **Impact Areas:** Argus, Greenfield, Hersey, Rockwell, Lawfield, Mountain;
 - b. **Ricochet Areas** Argus Wood, Dingee Wood, Rockwell Wood North, Rockwell Wood South, and Hamilton Wood; and
 - c. **Ranges:** Small Arms Range Complex, Field Firing, Wellington, Tow Tracking, Anti-Armour, Company Defensive Position, Enniskillen Range Complex, Demolition Ranges: Drummond, South Boundary and Small Charge (GR 050 634). The Basic Charge Range is not use for demolition and can be used for impact and ricochet.
- 2. **Authorized Use.** The SRIA is designed as a common impact area authorized for clean and dirty fire by authorized types of munitions and weapons. Use of each area and range is described in detail in Chapter 2.
- 3. **Manoeuvre in the SRIA.** Authorization for manoeuvre within the SRIA is categorized as follows:
 - a. Routine deployments into the following areas may be authorized by either the IC Range Ops, Coordinator Range Safety or the Range Booking NCO:
 - (1) Small Arms Range Complex;
 - (2) 50 m Range Complex;
 - (3) Argus Coy Defensive Position;
 - (4) Drummond Demolition Range;
 - (5) Small Charge Range;
 - (6) Underwater Demolition Range;
 - (7) South Boundary Demolition Range;
 - (8) Anti Armour Range North of Greenfield;

- (9) TOW Tracking Range to include the 14.5 mm Range;
 - (10) Wellington Range; and
 - (11) Grenade Range Complex (Marnes/Verdun).
- b. The RCO may authorize mounted and dismounted activities as follows:
- (1) Within the 1000 m safety boundary of SRIA which borders all MSR's;
 - (2) Within 620 m safety boundary of the SRIA which does not border MSR's;
 - (3) Deployment and Static Ops within a radius of 100 m of the Hersey Bunker (without EOD support)(see note 1);
 - (4) Deployment into Rockwell Bunker (with EOD support);
 - (5) Mobile Ops in armoured vehicles within the entire SRIA (see note 1);
 - (6) Established Gun Positions;
 - (7) Entrance from gates 15 or 17 and travel to George Lake through Mountain Impact Area (with EOD support);
 - (8) Target placement vehicles within the SRIA (with EOD support);
 - (9) Maintenance vehicles including Forestry (with EOD support);
 - (10) Emergency/Fire vehicles;
 - (11) Care will be taken when crossing or using roads, lanes, firebreaks, or developed infrastructures within the SRIA, Any damage is to be reported to Range Control on the Range Clearance Form.
- c. Mounted, Dismounted Manoeuvres, Mobile Ops both dismounted or in soft skin vehicles outside the areas mentioned above are prohibited without the authority of the co Ops SVCS Br info RCO. **Digging anywhere** within the SRIA is prohibited without permission from the CO Ops Svcs Br info RCO.

Note 1 – Mobile Ops throughout the entire SRIA will require the user to have exclusive use of the Impact Area, normally only one Impact Area per user will be allotted as exclusive use. Static Ops in locations authorized above (in para b.) will not require exclusive use of the Impact Area; however, it is the **users responsibility to coordinate its location with all other users and keep Range Control informed at all times of their location.**

1.307 THE TRAINING AREA

1. **Description.** The Training Area is bound and numbered in **Green** on the map.
2. **Authorized Use.** Although somewhat contaminated from previous use, the Training Areas will be treated as dud free. All types of weapons and ammunition less those capable of producing blinds are authorized for use in **Green** areas. Use of each area and range is described in detail in Chapter 2.
 - a. **Field Firing.** Upon Range Control approval of a field firing template, field firing of non-blind producing ammunition may be conducted anywhere within the training area. The following restrictions apply:

- (1) firing Near Range Boundaries - weapons are not to be fired from a position, nor is ammunition to impact, closer to Non-DND property than the Positive Safe Distance for that weapon and ammunition;
 - (2) normally, only one MSR will be closed at a time; and
 - (3) for aircraft target marking purposes Smoke BE (not WP) may be used with the written authority of the Commander 5 Canadian Division Support Group. Smoke will be directed so as to impact in either a Type 1 or Type 2 area of blind contamination.
3. The Training Area includes the following facilities:
- a. **Urban Operation Training.** Urban Operation training may take place within various locations such as the Groningen Urban Operation Village located in Areas 13/14, The Courcelette Urban Operations Individual Training Site located within Area 2 at gr NE^{1/4} of 00/78. Limited Urban operation training may be carried out within the Austere Village booked through Range Control. The FIBUA site located at gr 984 787 may also be used for Urban Ops.
 - b. **Bivouac Areas.**
 - (1) Use of named bivouac areas is encouraged although units may bivouac anywhere in the training area. Environmental considerations for use of bivouac sites are contained in section 8 and in the 5 Canadian Division Support Base SO 6-10.
 - (2) Training exercises may be conducted from these sites as may field firing exercises. Artillery guns and mortar base plates may use the sites for live firing into authorized Impact Areas. On approval by Range Control of a manoeuvre box/field firing trace no targets will be placed or engaged inside the boundaries of designated bivouac sites. Pyrotechnics may be authorized within the boundaries of a bivouac site, when the site is not being used for bivouac.
 - c. **Swim Sites.**
 - (1) The training area designed swim sites are at:
 - (a) Fast Water - GR 975 816 - Area 55;
 - (b) Still Water - Engineer Skills Training Area (ESTA) - GR 098 805; and
 - (c) Swim Site (ESTA) - GR 106 802.
 - (2) Swimming, boating, rafting of all natures may take place anywhere in the Training Area. Special provisions are at Chapter 2 Annex O.
 - (3) When personnel swimming is to be conducted, the Fitness Sport Instructor must be contacted and current regulations obtained.
 - d. **Indirect Fire Gun Positions.** Gun deployments are authorized throughout the Training Area.
 - e. **Infantry Dry Training Area.** Use of this area will be restricted to activities for which the area has been designed. The area is designated a "No Vehicle" sector. No tracked vehicles are permitted and wheeled vehicles are restricted to existing roads. This area provides for the following types of training:
 - (1) Observation Range;

- (2) Target Detection Range;
 - (3) Section Battle Drills Area;
 - (4) Stalking Range; and
 - (5) Pioneer Skills Area;
- f. **Troop Shelters.** Troops Shelters are available throughout the RTA Annex R. Booking and keys through Range Control.
 - g. **Construction of Buildings and Fixed Facilities.** Construction of buildings or fixed facilities in the training area without full staffing and approval by the 5 Canadian Division Support Base RTAM Section is strictly forbidden.
 - h. **Ford Sites.** No watercourses shall be crossed or otherwise entered by either tracked or wheeled vehicles except at approved constructed crossing Annex Q.

1.308 LINDSAY VALLEY AND CAMP ARGONAUT

1. Military Use

- a. Vehicle movement is prohibited.
- b. All types of ammunition including blank and pyrotechnic are prohibited.
- c. Digging, tree cutting and obstacle erection of any type is prohibited. This includes the laying of communication line.
- d. Prepared ski tracks will be used for movement on skis only.
- e. The lodge at GR 998 809 is out of bounds.
- f. Camp Argonaut is out of bounds. Requests for its use must be directed to the Ops Svcs Br Ops O.
- g. The roads leading to and within Camp Argonaut will not be used for driver training.
- h. Tracked vehicles are prohibited in Camp Argonaut.

2. **Recreational Use.** The Base Sports and Recreation council controls the use of Lindsay Valley for recreational purposes. Use of the area for training purposes is controlled by Range Control and shall take priority over recreational users. The following regulations apply to recreational users:

- a. recreational users shall not interfere with military training activities;
- b. off road movement by any type vehicle is prohibited with the exception of the track setter towing vehicle without prior approval;
- c. oversnow vehicles are permitted only on designated routes;
- d. major construction/destruction projects including forest clearance shall be submitted to the 5 Canadian Division Support Base through Range Control for approval;
- e. the Lindsay Valley Lodge is booked through the Base Recreation Centre M-2; and

f. the regulations applicable to military use also apply to non-military users.

1.309 FIELD CAMPS

1. There is one permanent field camp in the training area. Camp Petersville, GS 0449. Summer capacity is approximately 1,000 using tented accommodation and restricting water usage. Winter capacity is approximately 400.

2. Field Camp Regulations are found in Chapter 1, section 6 para 1.604.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 4 - MILITARY USE REGULATIONS

1.401 GENERAL

This section applies to all types of military use of the 5 Canadian Division Support Base Ranges and Training Areas.

1.402 GENERAL RESTRICTIONS / OUT OF BOUNDS

1. Activities shall not be conducted, and weapons, ammunition and explosives shall not be intentionally aimed or directed in a manner such that damage to the following features/installations may occur:

- a. cemeteries;
- b. buildings;
- c. main roads;
- d. airstrips;
- e. telephone cables;
- f. fixed ranges, training facilities and structures;
- g. all radio, communications and met towers (300m radius);
- h. bridges and culverts will not be tampered with or altered in any way. Any cost related to the damages to the bridges or culverts will be charged to the unit;
- i. watercourses, wetlands or waterbodies; and
- j. Mount Champlain GR 1639 is **OUT OF BOUNDS to all military activities** (600m radius). All those who require access to Mount Champlain must go through Range Control for access. All persons granted access will sign a waiver provided by the RCO which will be held on file, and persons are required to wear a 'Radman' or equivalent when on site, due to the high threat of RF Radiation. Once granted access, it is your responsibility to ensure no-one else enters the site without permission. If required, call Range Control if trespassing occurs, who will in turn call the Military Police.

2. Cemeteries and historic buildings (all ruins in the training area) as well as Airstrips are **Out of Bounds** to wheeled vehicles.

3. **Sewage treatment plants at GS 9981 and GS 2145, and the Water Tower GS 9878 are out of bounds.**

4. Ammunition of any type shall not be fired in or from the following areas (includes blanks and pyrotechnic):

- a. Lindsay Valley area;
- b. permanent bivouac sites (when used as a bivouac site);

- c. field camp;
- d. Blissville airstrip;
- e. on main roads (such that empty casings either blank or live are left on the road); and
- f. flares will not be fired outside CYR 724 without prior approval of Range Control.

1.403 **VEHICLE MOVEMENT**

1. **Road Classification.** Detailed information on the roads classified below is available from CE - Roads and Grounds.

a. **Main Supply Routes (MSR)**

- (1) There are two North-South MSRs:
 - i. Drummond MSR; includes Maidstone, Drummond, McCutcheon, Clones and Worthington roads;
 - ii. Lawfield MSR; includes Shirley and Lawfield Road.
- (2) East-West MSRs are:
 - i. Olinville Road MSR;
 - ii. Enniskillen Road MSR; and
 - iii. South Boundary Road.
- (3) Normally only one of the North-South MSRs may be closed at one time.
- (4) Vehicles shall not enter, exit or cross MSRs in a manner that would cause damage to the surface and/or the verges of the roads.
- (5) **A safety boundary of 1000 meters or positive safety which ever is greater shall be applied to all MSRs that have not been closed with sentries; and**
- (6) MSRs will not be cratered for route denial exercises.

b. **Secondary Roads.** Secondary roads are all weather graded two-way road suitable for use by two-wheel drive and all light vehicles in all seasons. Class E roads lead off MSRs.

c. **Seasonal Roads.** Seasonal roads are single lane dry season only suitable for use by high clearance vehicles. These roads will be maintained only as required. A Class F road is a fair weather one lane graded road suitable for use by high clearance vehicles. Class F roads lead off MSRs and Class E roads.

d. **Firebreaks.** Firebreaks are roads, trails or other passage ways designed and constructed solely for the purpose of wildfire suppression.

2. **Speed Limits**

- a. Routes are restricted to a maximum of 55 km/h or as otherwise posted;
- b. Within the boundaries of Petersville camp, the maximum is 30 km/h, unless otherwise posted;

- c. When approaching or passing dismounted troop(s), occupied bivouac or maintenance crews (including graders) the maximum is 15 km/h; and
 - d. On bridges for all vehicles is 15 km/h.
 - e. Blackout Drive 15 km/h.
3. **Blackout Driving.** Blackout driving on MSRs is prohibited unless the road is closed and sentries are deployed at both ends and at all roads excluding black tracks leading into Blackout Routes/Trace. Traces must be submitted to Range Control.
4. **Seat Belts.** The use of seat belts in all vehicles is mandatory. They will be used in all vehicles so equipped at all times, except during those training periods when their use has been waived IAW CFAO 36-6.
5. **Out of Bounds.** The following areas/installations are out of bounds to all types of vehicles, less those required for maintenance, fire fighting, emergencies and essential use, i.e., positioning targets:
- a. Airstrips;
 - b. Lindsay Valley Area;
 - c. Grenade Range Impact Areas GS 9976 and GS 0076;
 - d. moving target lanes off Firing Points 3, 4, 5 and Argus Impact;
 - e. 14.5 Range GS 0278 and GS 0378;
 - f. Area 2 the Infantry Dry Training Area to tracked vehicles. Wheeled vehicles are permitted on existing roads only; and
 - g. the SRIA (Requires Range Control authorization).
6. **Headlights.** All vehicles shall drive with headlights on at all times unless on an approved blackout driving exercise as published in DRSOs.
7. **Route Denial.** Selected trails and tracks in the training area may be authorized for cratering for route denial exercises. Authority will appear in DRSOs. Roads will be returned to their original state after the exercise. Authority for each detonation will be requested on the Range Control Net.
8. **High Speed Test Route.** A high-speed vehicle route (between GR 041 798 and GR 053 804) has been designated for test driving purposes only. Its use is as designated in 5 Canadian Division Support Base SO 3-24.
9. **Civilian Vehicles**
- a. When military transport is not available, unit Commanding Officer may authorize the use of civilian vehicles in the training area subject to the following conditions:
 - (1) the vehicle will be used for military purposes only and will be subject to all rules and regulations contained in these instructions;
 - (2) permits will be issued for a specific date, time and location only;
 - (3) permanent permit can be issued to:
 - (a) employees permanently working at a specific location; and

- (b) where civilian vehicles are used on a specific exercise or trial;
 - (4) the unit is responsible to ensure that the permit holder is in possession of a current DND map, DRSOs and that he is properly briefed; and
 - (5) the permit will be displayed, information side up on the vehicle dash (driver side).
- b. Only the standard 5 Canadian Division Support Base military use of civilian vehicle form will be used. A sample of the form is attached at Annex N.

10. **Bridge Classifications**

- a. Bridge Classifications are available from RP Ops - Roads and Grounds.

11. **Hatches Down**

- a. AFV's shall not travel with hatches down on MSR unless authorized by Range Control. Hatches down are not authorized with the boundaries of PV.

1.404 DEMONSTRATIONS

1. Units wishing to conduct firepower or fire effect demonstrations shall request permission from the Ops SVCS Br Ops O. Requests must include:

- a. aim;
- b. scope;
- c. OIC Exercise by name;
- d. Safety Officer by name;
- e. general outline to include weapons to be used;
- f. number of spectators (civilian and military); and
- g. any requests for the reduction of minimum safe distances or deviation from normal safety precautions must get approved in accordance with 381-1.

2. When the demonstration has been approved in principle by the CO Ops Svcs Br, a copy of all exercise papers, including danger templates will be forwarded to Range control for safety approval and allocation of training areas prior to the commencement of the demonstration.

1.405 FIELD FIRING EXERCISES

1. All live firing not conducted on a fixed range is considered field firing. This includes temporary ranges for Small Arms, Grenades etc. When temporary ranges are authorized, the regulations for fixed ranges will apply.

2. Helmets and fragmentation vests are compulsory for live-field firing combined with tactical movement where fragmentation-producing munitions are being used. When helmets and fragmentation vests are required for live firing, they will be worn during the rehearsals. OIC of the Ex can authorize that helmets not be worn where a helmet interferes with the safe operation of a vehicle, weapons system, or an exercise critical piece of equipment.

3. After the printout or issue of DRSOs, live firing amendments must be authorized by the RCO.

1.406 CONTROL AND WARNING MEASURES

1. **Barriers and Sentries**

- a. **Responsibility.** The positioning of all barriers is a Range Control responsibility. Confirmation of barriers and positions of sentries is a user unit responsibility. The requirement to position barriers is detailed as follows:

(1) **Fixed Ranges:**

- (a) access to all fixed ranges is controlled by locked barriers. These barriers must be kept locked at all times including those periods when the range is in use (for live firing, dry deployment or maintenance);
- (b) if sentries, with communications to the OIC Practice, are posted at the barrier location to control entry and exit, barriers can be left unlocked;
- (c) units must pre-arrange for visitor access (ie, lunch, Comdts, etc) or ensure all visitors have communications.
- (d) when access to more than one range or access to a shared impact area is controlled by a single road, sharing users will coordinate the use of warning devices and control of access (ie, the first unit in may not be the last unit out);
- (e) a list of permanent barrier locations is attached at Annex C;
- (f) failure to keep barriers locked will result in a "Check Fire". Check Fire will remain in effect until the OIC Practice assures Range Control that the Danger Area is safe and that the barrier is locked or a sentry is in place; and
- (g) detailed requirements for each range are found in Chapter 2;

(2) **SARC.** Access key is available from Range Control;

(3) **Field Firing:**

- (a) details of the locations where barriers and sentries are required will be published in DRSOs;
- (b) sentries and barriers will be positioned within one hour before commencement of firing; and
- (c) on completion of firing, all barriers will be removed.

2. **Sentries.** Information required by the Range Sentry is found at Annex G. A completed copy of the form will be given to the sentry by the OIC exercise prior to be positioned.

Warning and Control Flags, Lights and Flares

3. To provide adequate warning, flags and lights will be raised as required by these orders. Units are responsible for the raising of flags and lights at the ranges, which they are using. Full details are described in Chapter 2. Flags and lights may be obtained from Range Control. They will be rectangular and of the following dimension:

- a. Control Towers, Control Points, Firing Points, Range bunkers, Range Butts - 1m x 1.25m (3 ft x 4 ft); and
- b. AFVs, all vehicle mounted weapons, 50cm x 75cm (20 in x 30 in).

4. All units will use the appropriate color flag, light or flare as per para 7. When the use flares are requires,

units are responsible for the acquisition.

5. Firing will not commence until such time as the OIC Exercise has ensured that all warning devices are properly positioned. When Lasers are being used, the appropriate Laser signs will be posted.

6. Flags or lights as applicable will be raised on flag poles when live fire is in progress. For dry deployments, maintenance or target preparation, flags will not be raised. At entrances to Live Fire Danger Areas, a red flag/light will be raised and left until use of the range is complete. Flags are not required for Artillery or Mortar positions.

7. **Flags, lights and flares.** They will be used as follows in the 5 Canadian Division Support Base Range and Training Areas:

a. **Flags.**

(1) **Red**

- i. Flown on all ranges to indicate that they are in use for live firing and firing may take place or is taking place.
- ii. Flown at all entrances to the danger area (gates and barriers).
- iii. Flown at stop butts, firing points and butts of small arms ranges when firing may take place.
- iv. Flown at control towers, OPs, range bunkers, start line for advanced training exercises, and target operator pits and firing points on combined arms exercises when firing may take place.
- v. Flown on AFVs when in action.

(2) **Green**

- i. Flown on all ranges to indicate that they are in use but firing is not taking place and weapons are clear.
- ii. Flown at butts and firing point of small arms ranges when firing is not taking place.
- iii. Flown on control towers and start line for advanced training exercises when firing is not taking place.
- iv. Flown on range bunkers, OPs and target operator pits on fire and manoeuvre exercises when personnel leave shelters.
- v. Flown on AFVs on firing point but not in action.

(3) **Yellow**

- i. Flown when the weapon has a prolonged stoppage or misfire and cannot be unloaded immediately.
- ii. They need only be used when a danger exists for personnel moving in the danger area of that weapon or vehicle.

(4) **Blue and white Checkered**

- i. Indicates a fire and movement exercise is taking place with weapons mounted on

vehicles (except SP guns used in the indirect fire role).

ii. Flown at the control tower/point immediately below the red flag.

b. **Lights.** When first exposed, the light will be moved or swung laterally to attract attention.

(1) **Red**

(a) Same as ref flag at night;

(b) Marks sentry post blocking access to danger area at night; and

(c) Marks rear of column of troops marching on road at night

(2) **Green.** Same as green flag, at night

(3) **Yellow.** Same as yellow flag, at night

(4) **White**

(a) Identifies a range at night.

(b) Marks front of column of troops marching on road at night.

(5) **Flashing Amber.** Arc-of-fire markers on a range.

c. **Flares.**

(1) **Red.** Indicates intent to commence firing.

(2) **Green.** Same as green flag, at night

(3) **Series of colored flares other than red.**

(a) Signal to check fire in an emergency

(b) Alternately by day or by night augmented by whistle blasts, etc.

(c) Prior to firing, all ranks will know the signals for emergency check fire.

1.407 **RANGE AND TRAINING AREA CLEANLINESS**

1. It is the responsibility of every user to assist in maintaining Range and Training Area cleanliness, specifically:

- a. all waste, garbage building materials, signs, rope and wire will be properly disposed of as directed by Range Control;
- b. all trenches or emplacements will be backed filled leaving a mound of 18" and sod replaced;
- c. all field stores (concertina/razor/barbed wire) will be removed and disposed of/salvaged as per current instructions;
- d. all communication wire and insulators will be removed;
- e. all roads and areas used for demolition will be returned to their original state;
- f. all ammunition salvage, i.e., boxes, crates and casings will be removed and disposed of in accordance

with current regulations;

- g. all targets will be removed. Re-usable material will be returned to Target Building K-71. All other material will be removed for disposal;
- h. **all blinds hazards will be marked and reported to Range Control as soon as possible.**
- i. Backstops/butts will be raked. Rakes are available at Range Control

2. Visiting units and formations using the ranges and training area for an extended period of time will be tasked to assist in the continued requirement for upkeep and cleanliness. For planning purposes a minimum of one day per 2 week period will be required for cleanup.

1.408 RANGE CLEARANCE CERTIFICATES

1. **On the completion of all training and before closing down on the Range Control Net, a Range Clearance Certificate will be completed and turned into Range Control.**

2. Particular attention will be paid to the reporting of blinds hazards and range cleanliness/maintenance requirements. All clearances will include the ammunition quantity issued and expended and also all blinds will be reported.

3. A copy of the Range Clearance Certificate is at Annex I.

4. Users should indicate all range deficiencies and maintenance issues associated with the range.

5. For all training outside of static ranges, an activity trace will accompany the clearance certificate showing clearly all locations and movements used during training.

1.409 AMMUNITION

1. **Ammunition Accidents, incidents**

- a. This order details the procedures to be followed investigating and reporting accidents involving weapon, ammunition or explosives.
- b. The primary purpose of these investigations and reports is **not** to assess blame, but rather to ensure the prevention of similar accidents in the future.
- c. Definitions:
 - (1) Ammunition Accident: any undesired event involving ammunition that results in physical harm to a person, or loss or damage to material or facilities.
 - (2) Ammunition Incident: any undesired event involving ammunition that could but does not result in physical harm to a person, or loss or damage to material or facilities. This definition includes theft.
- d. Immediately after an ammunition accident/incident occurs the OIC will:
 - (1) notify Range Control
 - (2) check fire;
 - (3) render first aid, request medical evacuation through Range Control if necessary including:
 - (a) brief description of the accident;

- (b) particulars of any casualties;
 - (c) time and place; and
 - (d) ammunition involved, including proper designation and lot numbers;
 - (4) cordon off the perimeter of the area involved and prevent entry unauthorized personnel and ensure that all evidence including fragments, weapons, and ammunition packaging are not disturbed; and
 - (5) await arrival of ATO.
- e. Range Control staff, upon being informed of an accident, will:
- (1) notify medical staff (if required);
 - (2) notify ATO (must advise);
 - (3) notify Weapons Technician (must advise);
 - (4) notify MPs (if required) and
 - (5) notify unit (must confirm).
 - (6) If Range Wardens are unable to contact either the duty ATO or the duty weapons tech they will call the Base Duty Officer for assistance.
 - (7) In the case of a serious accident the CO Ops Svcs Br must be notified to allow for the briefing of Commander 5 Canadian Division Support Group.
- f. The unit is responsible for composition and distribution of the Ammunition accident/Incident Preliminary and detailed reports IAW A-GG-040-006/AG-002. The ATO Staff will provide advice and assistance if required by the unit.
- g. The Preliminary Ammunition Accident/Incident Report must be submitted to NDHQ by message within 12 hours of the accident and include the following details:
- (1) unit involved, including unit identification code (UIC);
 - (2) location, date and time of occurrence;
 - (3) details of the facilities, equipment, and/or weapons involved
 - (4) description of occurrence;
 - (5) particulars of person(s) killed or injured;
 - (6) particulars of any loss or damage to materiel or facilities (if applicable)
 - (7) known or probable cause(s);
 - (8) hazardous conditions created or remaining;
 - (9) rectification or preventive measures being taken;
 - (10) ammunition involved including lot number where pertinent;
 - (11) name, rank, classification or trade, and telephone number of the person designated to conduct a local accident/incident investigation; and

- (12) state whether a board of inquiry or a summary investigation will be ordered.
- h. The promptness of this report is more important than its completeness and should be sent within the time frame indicated even if certain paragraphs remain unknown or incomplete (a follow up detailed report to be sent within 7 calendar days.
- i. The distribution of this report shall include:
 - (1) Comd 5 Canadian Division Support Group;
 - (2) LFAA//G3 OPS//;
 - (3) NDHQ OTTAWA//CLS OTTAWA//DLSS 2-2//;
 - (4) NDHQ J4 MAT DG LOG OTTAWA//J4// AMMO//
 - (5) NDHQ CLS OTTAWA//DFLD 6//
 - (6) info copy to ATO and G3 RCO;
 - (7) if the case of the following specifics events, the indicated addresses shall also be notified as action addresses
 - (a) injury or death
 - i. NDHQ VCDS OTTAWA//,
 - ii. NDHQ DGCB OTTAWA, and
 - iii. NDHQ DPLS Ottawa.
 - (b) damage to private property
 - i. NDHQ DGCB OTTAWA
 - (c) if the accident is due to or results in a fire
 - i. Canadian Forces Fire Marshall (CCFM)

2. **Ammunition defects and malfunctions**

- a. This order details the procedures to be followed when reporting ammunition defects or malfunctions.
- b. Definitions:
 - (1) ammunition malfunctions, including but not limited to, blinds (duds) and misfires;
 - (2) ammunition defects including corrosion, faulty or incomplete assembly and faulty packing;
 - (3) damage to ammunition which has occurred as a result of mishaps in the normal course of ammunition handling, including but not limited to dented cartridge cases, wet charge bags, damaged fuses, etc; and
 - (4) defects and malfunctions that appear to be the result of previous misuse.

- c. Ammunition defects or malfunctions shall be reported in an expedient manner to the ATO using the form CF 410. Copies of this form as well as directions for its completion are provided to the unit ammunition rep each time that ammunition is drawn from the ASA. Clarification or assistance in completing this form will be provided by the ATO Staff if required.

3. **Field Storage**

- a. Both Range Control and the ATO with regard to their areas of responsibility must grant authority for field storage of ammunition and explosives. The allocation of areas in which this may take place is the responsibility of Range Control. The granting of permission for the storage of Ammunition and explosives in the selected site(s) rests with the ATO.
- b. Permission for field storage of ammunition and Explosives shall be sought from the ATO as early as possible but not less than two weeks prior the date of which the site is to become active. When requesting such permission, the following shall be submitted
 - (1) a complete list of items and quantities to be stored;
 - (2) a site plan of the proposed storage area indicating:
 - (a) distances between storage locations;
 - (b) distance to bivouac areas, fuel storage areas, vehicle marshalling points, other areas where troops may be quartered or employed, public or DND structures or roads;
 - (c) location of fire points; and
 - (d) access routes to and within the storage area.
 - (3) A plan for the security of the area
 - (4) Opening and closing dates for the storage area; and
 - (5) The name and telephone number of the person who will be responsible for the area.
- c. When permission is granted for field storage, the ATO or a member of the ATO's staff will visit the site shortly after it is opened and periodically throughout the period of operation to ensure that appropriate regulations and directives are being complied with.
- d. The ATO staff may be consulted for advice on the preparation of the field storage plan.

4. **Transportation**

- a. Routine or administrative transportation of Ammunition and Explosives on both public and DND roads, is subject to the regulations contained in C-09-153-001/TS-000 Explosives safety Manual Vol I and A-LM-008-040/FP-001 transportation of dangerous Goods Act and Regulations. ATO staff and/or CMTT may be consulted on the application of these regulations.
- b. Operational load carrying vehicles, ie, AFV's, gun tractors, mortar vehicles may carry both weapon crew personnel and ammunition in the same vehicle while actively engaged in range practices or field firing exercises.

5. **Unexploded Munitions**

a. **Blinds/Duds**

- (1) A blind is defined as an explosive munitions which when leaving the weapon has not armed as

intended or which has failed to explode after being armed.

- (2) With the exception of grenades, the destruction of blinds/duds is the responsibility of Range Control.
- (3) To ensure blinds can be located, the flight of projectiles of direct fire weapons must be observed; and, for indirect fire weapons, the number of explosions must be counted.
- (4) Blinds on grenade ranges must be destroyed before the practice can continue.
- (5) When three successive blinds occur with one lot number and/or a total of five during the practice, firing will cease and Range Control informed. Range Control will contact the ATO to determine which course of action to follow.
- (6) All blinds found in Manoeuvre Areas will be marked and reported on the Range Clearance Certificate by the OIC Exercise prior to leaving the area of the range. Blinds within the SRIA need only be reported; and
- (7) Blinds shall be reported to the ATO IAW para 2 above.

b. **Misfires**

- (1) Misfire is defined as, “The failure of ammunition or explosive item to initiate as the design for its intent or the failure of the initiator in whole or in part”;
- (2) Misfires or malfunctions which result in injury, death or damage to property or which had the potential to do so are to be treated as “Ammunition Accidents or Incidents “ and are to be handle and reported IAW para 1 above;
- (3) Misfires and malfunctions will, where possible, be made safe and returned to the ASA. The responsibility and procedures for handling misfires are found as follows:
 - (a) Blanks, pyrotechnics, flares, and grenades - B-GL-381-001/TS-000;
 - (b) AFV weapons - applicable weapons manuals;
 - (c) ATK weapons less TOW - B-GL-381-001/TS-000;
 - (d) TOW - handled by the Ammo Tech on site;
 - (e) Indirect Fire weapons - applicable weapons manuals;
 - (f) Javelin - handled by the Ammo Tech on site; and
 - (g) Air weapons - handled by the Weapons Technician on site;
- (4) If a misfire or malfunction cannot be made safe, it will be treated as a dud and the procedures in paragraph 5a above will be followed.

6. **Range Clearances**

- a. the term “Range Clearance” refers to the annual or periodic clearance operations undertaken to clean up ranges. It also refers to extensive operations for the purpose of returning land to its original owner. It does not include post firing range sweeps.
- b. “Post firing Range Sweeps” are conducted for the purpose of destroying blinds (duds) immediately after range firing has ceased or during range firing as the situation warrants.

- c. "Range Clearances" are normally much more extensive than "Range Sweeps" and require detailed plans and execution to ensure both the effectiveness of the clearance and the safety of all involved. Procedures for the conduct of Range Clearances are contained in B-GL-381-003/TS-000, Range Clearance Handbook.

7. **Ammunition Supply Procedures**

- a. Procedures for demanding, returning, and control of ammunition, explosives and the resulting salvage are contained in 5 Canadian Division Support Base SO 3-32.

1.410 WEAPONS INCIDENTS

1. INCIDENTS

- a. Any incident arising from the use, attempted use, or misuse of a weapon which results in death or injury to any person or damage to equipment or property, military or civilian, whether or not the ammunition is at fault. Any occurrence where the weapon has failed to function properly before, during and after firing, whether there is or is not injury or damage to personnel or equipment, both military and civilian.
- b. All such incidents must be reported to the proper authorities as soon as possible. Incidents must be reported immediately to Range Control. The publication C-71-005-000/AG-000 outlines reporting procedures and associated reports a Weapons Technician Land are required to complete.

2. **IMMEDIATE ACTIONS.** Should a weapon incident occur, **the following actions shall be taken immediately by the Range Safety Officer (RSO):**

- a. all firing shall cease;
- b. all weapons at the firing point shall be unloaded and made safe;
- c. if required, first aid will be given and evacuation of any casualty or casualties arranged;
- d. isolate the weapon and associated equipment;
- e. contact Range Control
- f. ensure no attempt is made to move, dismantle or clean the weapon unless ordered to do so by higher authority;
- g. search the area in order to locate ammunition fragments or parts of the weapon, items found will be;
 - (1) left untouched but preserved for investigative purposes; or
 - (2) removed from the site of the incident when circumstances dictate, but before doing so, photograph or sketch the scene of the incident and identify the parts;
- h. obtain the lot number of the ammunition used; and
- i. obtain written statements from all personnel involved.
- j. Range Control staff, upon being informed of a weapons accident, will:
 - (1) notify medical staff (if required);
 - (2) notify ATO (must advise);

- (3) notify Weapons Technician (must advise);
- (4) If Range Wardens are unable to contact either the duty ATO or the duty weapons tech they will call the Base Duty Officer for assistance.

3. **INVESTIGATION** A 421 Weapons Technician (L), qualified 6A, will be appointed by the Base Maintenance Officer to investigate the incident.

4. **REPORTS**

- a. **PRELIMINARY INSPECTION REPORTS.** Shall consist of a priority message to NDHQ, attention the appropriate LCMM to advise that an incident has occurred. Initial notification shall be by telephone where possible. It shall contain the following information :
 - (1) unit Involved;
 - (2) serial number and type of weapon involved;
 - (3) location, date and time of incident;
 - (4) description of incident;
 - (5) probable cause(s);
 - (6) ammunition lot number;
 - (7) particulars of person(s) firing the weapon when the incident occurred and brief description of injuries if any; and
 - (8) rank , name and local of person conducting the investigation.
- b. **WEAPONS INCIDENT DETAILED REPORT.** Must be submitted within five(5) days of the preliminary report, IAW C-71-005-000/AG-000. This report will be accompanied by photographs or other material that amplifies the preliminary report.
- c. **ADDITIONAL REPORTS.** When the incident is attributed to ammunition the investigator shall ensure that an Ammunition Defect and Malfunction Report, CF410 is completed in accordance with C-09-153-002/FP-000. The investigator will also, when detailed to do so by NDHQ, complete an Unsatisfactory Condition Report, CF777 IAW C-02-015-001/AG-000.
- d. **DISTRIBUTION.** Originators of Preliminary and Detailed Reports shall ensure that the report addressees include the base/ and or formation commanders, functional command headquarters and NDHQ attention the appropriate LCMM. Copies of reports shall also be sent to the Range Control Officer and Base Maintenance Officer.

1.411 VISITING UNIT PROCEDURES

1. Prior to any use of 5 Canadian Division Support Base Ranges and Training Areas visiting units must have approval from the CO Ops Svcs Br. Written approval in principle is sufficient to book ranges and liaise direct with Range Control.
2. Visiting units will adhere to the following procedures:
 - a. submit range and training area requests;
 - b. submit target requests;
 - c. provide the ATO with a list of those persons authorized to draw and use demolition kits;
 - d. confirm range and training area requirements and provide Range Control with March In timings at

least 10 working days in advance; and

- e. complete and have approved by 5 Canadian Division Support Base Env O an environmental assessment and have appointed a Unit Env O. Pending of the size and type of ex, have a manoeuvre damage team as per Section 9.
 - f. for formations larger than battalion size such as areas or brigades, a liaison team and up to two vehicles patrols will be required to work out of Range Control bldg K-69 purely for Ex/Op coord sp purposes. Patrol Teams - 2-man vehicle patrols will be comprised of a Sgt and Cpl/Pte dvr with veh and radio and will be placed under command of Range Control for the duration of the exercise/training.
3. Immediately upon arrival, the unit training officer, OIC Exercise or their representative will effect personal liaison with Range Control to coordinate final requirements, be briefed on current restrictions and pick up DRSOs.
 4. Range Control is available to provide detailed safety briefings to visiting units. Arrangements should be made when facilities are booked.
 5. All visiting units will appoint a Public Information Officer (PIO). Immediately upon arrival, this person will make himself known to the PAFFO at 5 Canadian Division Support Group. In the event of unusual incidents, the unit PIO and the PAFFO will coordinate the issuing of all messages and press releases.
 6. Visiting Non-Canadian units should obtain and be fully familiar with the contents of B-GL-381-001/TS-000 prior to arrival.

1.412 PETS

Range Control must be notified when Pets are taken into the training area. Unit CO must authorize this activity. Recreational users require Range Control approval.

1.413 ALCOHOL IN THE TRAINING AREA

1. Except with the express permission of the unit Commanding Officer, or in the case of visiting units, the written authority of the CO Ops Svcs Br, alcohol will not be consumed in the training area.
2. Range Control will be advised prior to the consumption of all authorized alcohol.
3. This instruction does not apply to messes and canteens set up within the boundaries of a bivouac, the authority for the bivouac appearing in DRSOs.
4. Recreational users must adhere to Provincial and or Federal regulations.

1.414 UNUSUAL INCIDENTS

1. Any incident, regardless of how small in nature, that may bring attention to the unit undergoing training or to 5 Canadian Division Support Base, will be immediately reported to Range Control. Range Control will advise the unit on the action to be taken.
2. Unusual incidents include accidents of any nature, or any violation of these Range Instructions.

1.415 TRAINING OFF BASE

Units wishing to train off base will request permission from the Ops Svcs Br Ops O.

1.416 NUISANCE ANIMAL CONTROL

1. Garbage control and quick disposal of garbage is essential to keep bears away. It is prohibited to feed bears or other animals.
2. Range Control must be notified when users identify potential issues with respect to nuisance animals, to include Bears, Beavers, and Raccoons etc. Patrollers are required to identify and report any Beaver activities which could eventually cause problems to RTA infrastructure.
3. Upon receipt of notification of Nuisance Animal activity, Range Control will assess the priority based on the following criteria; safety, operational, and environmental impacts. Once the assessment is complete appropriate actions will be initiated.
4. When required, RP Ops and the B Env O may provide advice on the best course of actions, especially when releasing water associated to beaver issues, *to prevent any potential damage to infrastructure.*
5. RP Ops preventive maintenance will engage Range Control on any issues associated with nuisance animal control within the RTA.
6. Forestry roads fall within the same criteria; they will provide Range Control with information regarding issues associated with Beaver activities.
7. Range Control will contact Energy and Resource Development (ERD – Formerly DNR) to deploy a live trap when dealing with issues associated with Bears or Raccoons etc, Patrollers will visit the locations of the traps and report when an animal have been captured to ERD.
8. ERD is the **only agency authorized to move a trap** that has an animal trapped inside.

1.417 RADIATION SAFETY

1. Ionizing radiation is emitted from a wide range of radioactive sources and electronic equipment (i.e.: compasses, rifle sights, etc...), which are subject to special handling, storage, disposal, packaging and labeling requirements. All radioactive items are identifying by a trefoil as per figure.



2. Personnel finding a radioactive item in the training area must return it to Range Control through his/her Chain of Command. Personnel shall not handle broken radioactive items. Personnel who accidentally touch broken radioactive items shall immediately wash their hands thoroughly with soap and water and as soon as possible seal the radioactive item in a plastic bag.
3. For more info contact the Base Radiation Safety Officer at local 2391.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 5 - NON-MILITARY USE REGULATIONS

1.501 GENERAL

This section applies to all types of non-military use of the 5 Canadian Division Support Base Ranges and Training Areas. All queries concerning entry authority, current regulations and issuing regulations will be referred to Range Control.

1.502 ENTRY AUTHORITY

1. All persons who wish entrance to the 5 Canadian Division Support Base Training Area may, upon approval of their request, be granted authority to enter the specific area requested for the specific reason requested.
2. All person(s) entering the 5 Canadian Division Support Base Training Area for purposes other than an authorized military activity must be in possession of an authorized map and one of the following:
 - a. a non-military use pass obtained from one of the following Access Control Points:
 - (1) Range Control (K-69); or
 - (2) Petersville Camp.
 - b. woodcutters and other contract workers will obtain their passes from Range Control; and
 - c. other government employees (i.e., RCMP, CFS, Game Wardens) will obtain access authority from Range Control.
3. All person(s) entering the 5 Canadian Division Support Base Training Area for purposes other than an authorized military activity must be of the New Brunswick legal age of 19 or have the written consent of their parent or guardian on the Non-Military Use Pass.

1.503 CONDITION OF USE

1. Non-Military users must be in possession of a current DND map. They must be capable of navigating and determining their exact location at all times.
2. The training area is entered at the users own risk. DND is not responsible for injury/death to personnel or for damage/destruction of personal property. The user assumes full responsibility for the movement and actions of all members of the group. Prior to entering the training area, a person using the area for Non-Military use will sign a waiver releasing and indemnifying DND.
3. **DO NOT** touch any suspicious objects. They may explode.
4. **DO NOT** litter. Remove all garbage and waste.
5. The Non-Military Use Vehicle Pass must be displayed on the vehicle. Failure to do so may result in the vehicle being towed away at the owner's expense.

6. The Non-Military Pass must be carried on the person at all times and surrendered to a Range Control Warden or security guard upon request. Failure to comply with regulations may result in that person being escorted out of the training area, detained or arrested.
7. All Federal and Provincial hunting, fishing and forestry laws apply to non-military users.
8. Barriers across roads must not be passed or moved.
9. Speed limits are posted and must be strictly adhered to.
10. Vehicle headlights must be on at all times.
11. During hunting season, all personnel in areas open for hunting will wear Blaze Orange clothing.

1.504 RECREATIONAL SHOOTING

1. 5 Canadian Division Support Base ranges may be used for recreational shooting subject to the conditions of CFAO 29-1.
2. Requests for use of ranges must be submitted to Range Control. Although it is understood that training must take priority, only in extreme circumstances will recreational ranges be cancelled once confirmed.
3. The OIC must make arrangements for drawing flags and targets during normal working hours.
4. The firing of "Black Powder" is authorized on all small arms outdoor ranges.
5. All safety regulations applicable to military shooting practices shall apply.

1.505 WOOD CUTTING OPERATIONS

1. Wood cutting for commercial use may be authorized within the boundaries of the training area. Forestry Service is responsible to supervise and administer tree harvesting in the training area.
2. Contracts to harvest timber will be issued by the Forestry Service, in accordance with the Guidelines for Forest Resource Management and Timber Disposal on DND lands. Harvesting contracts are issued in designated areas only as per the **Timber Sale Agreement (TSA)**.
3. TSA operators and their employees enter the training area at their own risk. DND is not responsible for injury/death to personnel or for damage/destruction or recovery of personal property. Operators and their employees will adhere to all current regulations including:
 - a. TSA areas will be left clean and free of debris, all garbage including oil cans, grease containers, soft drink cans and lunch garbage will be collected and removed daily;
 - b. Accidental spills, including contaminated soil will be collected and removed as per environmental regulations. Report all spills to Range Control by the fastest possible means;
 - c. Vehicles will travel with lights on, yield to military traffic and travel within the authorized speed limits;
 - d. Military training will take precedence, all conflicts must be coordinated thru Range Control;
 - e. Only designated roads will be used. Where special authority is granted to construct a new road, the TSA operator is required to return the approaches to their original state, including denying further access to the training area by ditching the road constructed. Access during forestry operations will be restricted to only those authorized and to that end temporary barriers will be erected immediately once the access has been initiated. All logging roads will be built to conform to the RTAMS SO;

- f. Barriers when closed will not be moved or bypassed except on authority of Range Control;
 - g. Indiscriminate falling of trees, especially along waterways, blocking of water courses, building fords, cutting banks or other acts harmful to the environment will be avoided to protect the ecology of 5 Canadian Division Support Base training area. Violations will result in immediate revocation of access to the area;
 - h. Forest products will not be stacked or piled closer than 30 metres to main service roads (MSR);
 - i. The proper leg, foot, head, eye and ear protective devices will be worn by all wood workers; and
 - j. For personnel safety, during hunting season, appropriate Blaze Orange hunting vests will be worn by all personnel on the TSA.
4. Prior to signing a contract or pass that involves a degree of acceptable risk, the TSA operator and his employee will receive a briefing from Range Control pertaining to access control and safety.
5. TSA operators and their employees are warned that failure to comply in full with pass regulation and range safety requirements will result in access prohibition.
6. The Operator, his employees, agents and assigns must be in possession of a 5 Canadian Division Support Base non-military-use pass (referred to as the 'Access Authority Pass') with area numbers clearly identified thereon, before entering 5 Canadian Division Support Base property.
- a. In order for the Employee of an Operator to obtain an 'Access Authority Pass', the employee must produce a request in writing, signed by the Operator;
 - b. On Friday of each work week that the contract is active, the Operator is responsible for obtaining daily range use information in accordance with Section 13 of the TSA by visiting Range Control Office, reading the range use information and signing a log book,;
 - c. The Operator is responsible for informing his employees, agents and associates of such daily range use information; and
 - d. The Operator acknowledges that, unless such daily range use information is obtained, the Access Authority Pass issued to the Operator, and those issued to his employees, agents and associates by Range Control are not valid.
7. Wood salvage / roadside clean-up. A pass may be issued to individuals to obtain salvage wood from roadside logging debris (tops, broken pieces, undersized trees, etc.) left over from harvesting operations.
8. Salvage wood areas will be designated by Forestry Services, as areas become available. Anyone entering the training area does so at their own risk. For anyone cutting wood in the RTA, it is recommended that it not be done alone, and that the following safety gear be worn:
- a. CSA approved chainsaw boots;
 - b. leg protection (chaps or pants);
 - c. Head, eye, ear protection;
 - d. Gloves;
 - e. Safety Bandage (pressure); and
 - f. Ansel Pack (small fire extinguisher) when the fire hazard level is moderate or high (There are a few Ansel Packs available to be signed out at Range Control on a first-come first-served basis).
9. There is no charge for individuals to salvage wood, although they must be in possession of a valid Range Access Permit issued by Range Control and conduct their wood salvage operation in designated areas only. Range Access Permits will not be issued for salvage wood when the Forest Fire Hazard Level reaches very high or above.

1.506 HUNTING

1. Hunting in the 5 Canadian Division Support Base training area is subject to all applicable Provincial and Federal Legislation (for further information contact your nearest NB Department of Energy and Resources Development Office (NB ERD) and may be permitted subject to the following conditions:

- a. hunters must be in possession of a valid N.B. hunting licence except where an individual produces proof of his/her Indian Status (Certificate of Indian Status);
- b. hunters must be in possession of valid; non-military use, fire and camping pass as applicable;
- c. hunting will be permitted only in Areas authorized by Range Control which have been declared safe.
- d. passes for hunting will only be issued on Range Control authority;
- e. only those areas open for recreational use, for the entire day, will be authorized for camping; and
- f. hunter vest and hat (Orange) must be worn as per Provincial regulations.

1.507 FISHING

1. Fishing in the 5 Canadian Division Support Base training area is subject to all applicable Provincial and Federal Legislation. For further information, contact your nearest NB Department of Energy and Resources Development Office (NB E&RD – Formerly DNR) or visit their website at the link below:

http://www2.gnb.ca/content/gnb/en/departments/erd/natural_resources/content/fish.html

2. In addition to provincial rules, fishing is permitted subject to the following conditions:

- a. Personnel fishing must be in possession of a valid NB fishing licence except where an individual produces proof of his/her Indian Status (Certificate of Indian Status);
- b. Personnel fishing must be in possession of valid; non-military use, access authority permit before entering the training area;
- c. Fishing will be permitted in areas authorized by Range Control which have been declared safe for such purpose;
- d. Range Passes for fishing may only be issued on Range Control authority; and
- e. Special laws applicable to ice fishing are available from your nearest NB E&RD office.

1.508 FUR HARVESTING

1. Fur harvesting in the 5 Canadian Division Support Base training area is subject to all applicable Provincial and Federal Legislation for further information contact your nearest NB Department of Energy and Resources Development Office (NB ERD). In addition to provincial rules Fur harvesting is permitted subject to the following conditions:

- a. Fur Harvesting on the Base is restricted to members of the Gagetown Trappers Association;
- b. Trappers must be in possession of a valid NB trappers licence except where an individual produces proof of his/her Indian Status (Certificate of Indian Status);
- c. Trappers must be in possession of valid; non-military use, access authority permit before entering the training area;

- d. Trapping will be permitted in areas authorized by Range Control which have been declared safe for such purpose. Trapping areas are designated annually to interested persons prior to the trapping season;
 - e. Range Passes for trapping may only be issued on Range Control authority; and
 - f. Failure to comply with any regulation may result in authority to trap in the training area being withdrawn by the Range Control Officer.
2. The following conditions will apply to the harvesting of fur bearing animals in the 5 Canadian Division Support Base Training Area:
- a. while trapping, a person must be in possession of the following
 - (1) a valid NB Trapping License;
 - (2) a current DND map of the training area with the trap line marked, and an approved Range Control signature; and
 - (3) a Non-Military Use Pass. The regulations contained on the pass are not superseded by trapping authority;
 - b. if permitted in an Area where dry military training is being conducted, trappers are to ensure that they do not interfere;
 - c. all areas which are not marked on the pass or the map, **are out of bounds**, unless separate and special authority is obtained from Range Control;
 - d. where parts of a trapline are closed due to military training, traps may remain in place, but they will not be set;
 - e. all traps, snares or any other device must be removed on expiration of the pass;
 - f. trappers must use humane, quick kill type traps; and
 - g. failure to comply with any regulation may result in authority to trap in the training area being withdrawn by the Range Control.

1.509 OVERNIGHT CAMPING

- 1. Request for overnight camping in the training area may be authorized by Range Control.

1.510 SNOWMOBILE AND ALL TERRAIN VEHICLE (ATV) REGULATIONS AT 5 CANADIAN DIVISION SUPPORT BASE

- 1. Operators of recreational vehicles are restricted to those areas within 5 Canadian Division Support Base which are open on a daily basis for recreational purposes.
- 2. Personnel must comply with base regulations and also the NB Motorized Recreational Vehicle Act which states in part: "No person shall drive, have or cause a motorized recreational vehicle to be within twenty five feet of the traveled portion of a highway except under the following circumstances:
 - a. the driver brings the recreational vehicle to a stop immediately before entering upon the traveled portion of the highway;
 - b. all passengers being transported upon or by the recreational vehicle shall disembark and walk across

the highway;

- c. the recreational vehicle is driven directly across the highway in the shortest possible distance;
- d. at all times the lights on the recreational vehicle shall be on and clearly visible to approaching traffic using the highway. In addition, no person shall drive, have or cause a recreational vehicle to be in an area where persons are skiing, skating, tobogganing or engaged in any other outdoor recreational activity so as to create a hazard or to endanger persons or property; and
- e. the recreational vehicle is fully registered IAW all provincial laws."

1.511 CHRISTMAS TREE CUTTING

- 1. Military and civilian personnel may cut a tree for their own use from the training area.
- 2. Authority to cut a Christmas tree may be obtained from Range Control and area will be assigned by Forestry.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

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VOLUME 1 - GENERAL

SECTION 6 - ADMINISTRATION AND LOGISTICS

1.601 ALLOCATION OF RANGES AND TRAINING AREAS

1. **General.** This article describes the procedures and parameters for the allocation of ranges, field camps, training areas, and On Base facilities. It includes outdoor ranges, rappel tower and gas chamber.

2. 403 Sqn are authorized over flight of the RTA as follows, all ranges in CYRs 722, 724 and 725 with the exception of the of the Northern Static Range Impact Area. 403 Sqn also has the authority to overfly the Mountain Impact, Hamilton Wood Impact areas and the Enniskillen Range Complex unless otherwise indicated in DRSOs. CFRIS booking will reflect this authority.

3. **Priorities.** The Range Control Staff is responsible for the safe and efficient allocation of ranges and training areas in accordance with priorities established by Commander, 5 Canadian Division Support Group. Maintenance requirements may require the closure of certain areas/ranges to allow RP Ops or other agencies to safely conduct their activities. RP Ops must staff their maintenance requirements in advance to allow users the flexibility to find alternates areas. The CO Ops Svcs Br will resolve any disputes that may occur. Generally, the priorities are:
 - a. Priority One – Trg/Trials for Operational Tasks/Deployment;
 - b. Priority Two – 5 Canadian Division Support Base Conducted demonstrations for national level activities;
 - c. Priority Three - national training course;
 - d. Priority Four - LFAA conducted area, rank and trade school crse and LFAA area concentration;
 - e. Priority Five - trials and evaluations;
 - f. Priority Six - LFAA/5 Canadian Division Support Base Units (incl 5 Canadian Division Support Base Integral/Lodger Units);
 - g. Priority Seven - Fmn Lvl Combined Arms Lvl Trg;
 - h. Priority Eight - visiting Canadian Units;
 - i. Priority Nine - Cadets and other Cdn agencies; and
 - j. Priority Ten - visiting foreign units/fmns.

RANGE ALLOCATION BOOKING SCHEDULE

Table 1-5

COVERED PERIOD	DATE TO BE SUBMITTED	CONFLICT COORDINATION CONFERENCE
1 Jan to 30 Apr	3rd Monday in Oct	3rd Wednesday in Nov
1 May to 31 Aug	3rd Monday in Feb	3rd Wednesday in Mar
1 Sep to 31 Dec	3rd Monday in Jun	3rd Wednesday in Jul

4. **Allocation Procedures.** 5 Canadian Division Support Base Ranges, Training Areas and Field Camps are allocated three times annually. Range Control will advise all units by separate correspondence of specific details and dates. The following procedures will apply:

a. **Booking Sequence**

- (1) Following the schedule at Table 1-5, units wishing to use the facilities in the Ranges and Training Areas will submit their requests to Range Control;
 - (a) if required, a coordination meeting will be held as per table 1-5.
 - (b) Once spreadsheets have been confirmed as per the deconfliction conference, an e-mail will be sent to all requesting units stating that they may enter their requirements into CFRIS.
- (2) When a unit requires additional ranges after spreadsheet confirmation, the procedure is as follows;
 - (a) send a request to IC Bookings/Range Control who will then process the spreadsheet update as per unit request.
 - (b) once spreadsheets have been updated, the requesting unit will receive a confirmation message instructing the requesting unit to enter the task into CFRIS.
 - (c) agencies without CFRIS access may send requests using the annex (H) form.
- (3) External airspace users shall include the following information when requesting airspace: unit, controlling agency, C/S, operating altitude (AGL), and over flight areas required
- (4) There will be no block bookings.

5. **Write-in Procedures.** Any additional requirements after DRSO publications will be considered a “Write In”. The procedure for write-ins is as follows:

- a. Prior to requesting a write-in, the requesting unit will check the DRSOs for availability of requested areas/ranges.
- b. Once verification has been made, the requesting unit will forward their request to IC Bookings/Range Control.
- c. Range control will then process this write-in as per request. A confirmation message will then be sent to the requesting unit once the request has been completed.
- d. Range Control will be responsible for entering these requests into CFRIS.
- e. Once DRSOs are printed, no additions or changes will be permitted for live firing outside the SRIA without the approval from the RCO. Requests for additions or changes inside the SRIA will be referred directly to the RCO, IC Range Safety or the I/C Range Booking. SARC may be booked at the last minute on a first come basis.

6. **DRSO Amendments** Units are responsible for ensuring that they have the most up-to-date DRSO’s.

7. Any use of airspace other than by 403 Sqn shall require an airsspace coordination conference.
8. **Cancellations.** Cancellation of booked ranges and training areas that are no longer required will be made as soon as known and in sufficient time to permit reallocation to other units. Unforeseen cancellations must be made prior to 0800 hours on the day the facility is booked. Units will be required to explain why a booked range was not used, if it isn't cancelled. Furthermore, Ranges and Training Areas are to be reported clear/or vacated once a training unit has completed their training for that day.

1.602 KEYS

1. Keys for all range and training facilities are held and issued by Range Control
2. Booking for the above must go through Range Control.

1.603 TARGETS

1. All targets are requested through Range Control. A Targets Form Request (Annex O, is required at Range Control one month in advance for all types of targets. Targets normally used by 5 Canadian Division Support Base are listed at Annex O.
2. The deployment of hard targets which include car bodies must be authorized by range Control. EOD escort is required anywhere within the SRIA. The car must be environmentally sensitised ie no oils or glass. All hard targets must be removed from the RTA on completion of the exercise. All targets which have been engaged by dud producing munitions must be inspected by a 6A qualified ammunition technician before they are removed from the SRIA; all other targets must be certified free from explosive (FFE) by an ammunition technician.
3. All targets must be laser safe.

1.604 USE OF CAMP / BIVOUAC AREAS

1. **General.** Range control Staff is responsible to coordinate all use of 5 Canadian Division Support Base Range and Training Area of which Petersville camp is a part. The Staff is also responsible to ensure the Commander's policy is respected.
 - a. **Bivouac Sites:** Units should use permanent bivouac sites in the training area identified at Annex E.
 - b. **Petersville Camp:** The purpose of Petersville Camp and associated facilities, Amy Tank Park and Worthington Tank Park is to provide, field camp accommodations, kitchen facilities and an 'A' echelon support site for all courses in the Gagetown Training Area.
 - (1) the establishment of a field camp at Petersville is authorized by the Commander 5 Canadian Division Support Group.
 - (2) the control and booking of all training areas remains the responsibility of Range Control.
2. **March-In.** Whenever a unit bivouacs in the training area is set up for a 48 hour period or longer, they will be marched into the site by Range Control Staff. The following regulations apply to the occupation of bivouac sites:
 - a. Range Control is only responsible for the allocation of the bivouac site, its cleanliness, and the enforcement of regulations contained in these orders;
 - b. all administration requirements including arrangements for garbage pick up, and **chemical toilets** will be coordinated in advance through Ops Svc Br Ops (for visiting units);
 - c. all requirements for engineer assistance will be requested through the Ops Svcs Br Ops O;
 - d. at the time of March-In, the form at Annex J will be completed. If the unit is unable to carry out a

physical inspection of the site, and agree to accept the area sight unseen, a report on the status of the facility and the provision of administrative requirements will be forwarded to Range Control within 24 hours of occupation; and

- e. before March-In, the unit will advise the FGSO and Fire Hall of their intended occupation. The Unit will ensure that the Fire Department conducts a fire inspection in accordance with LFCO 11-40 Fire Safety Field Exercise within 24 hours of occupation.

3. **General regulations – occupancy.** During the period that any field camp/bivouac site is occupied, the following regulations will be adhered to:

- a. **Brief.** Units will have in their possession a copy of current Range Standing Orders and the necessary copies of DRSOs. All ranks will be briefed on the conditions of occupancy within the first 24 hours of establishing the bivouac. The briefing will also include the unit's responsibility for cleanliness on March-Out. A Range Control representative is available to assist with the briefing;
- b. **Communications.** All units deployed in field camp/bivouac will maintain constant communications with Range Control at all times on safety net;
- c. **Medical/Hygiene.** hygiene, sanitation, fires and environmental regulations found in these instructions will be strictly adhered to. User units will maintain a high standard of field and personal hygiene. Units residing for a period of 72 hours or more will arrange, through the Base Medical Clinic, 24 hours in advance for a hygiene inspection. Additional inspections by 5 Canadian Division Support Base staff will be conducted on an unplanned basis;
- d. **Main road.** All authorized Ammo Points, POL Points, stores, kitchens, etc will be positioned not less than 100 metres from main roads;
- e. **Track Plan.** Since there may be a large number of vehicles in an occupied camp, a track plan using existing trails and roads will be established and enforced. Drivers will adhere to traffic regulations. Unauthorized vehicle routing which results in damage to roads and grounds may be assessed against the originating unit. New roads will only be constructed with Range Control authority;
- f. **Vehicles.** All vehicles in camp will only refuel at an authorized POL point. To prevent water shortage and well contamination, vehicle washing in the camp is strictly prohibited. All vehicles will park in designated parking areas only. Under no circumstances, except for the loading or the unloading of stores, will vehicles be parked closer than 6 m from a building;
- g. **Brush.** Brush may be cleared but trees of a base diameter greater than 5 cm will not be cut;
- h. **Digging.** Without the express permission of Range Control, digging is strictly prohibited;
- i. **Floorboards.** are units responsibility;
- j. **Garbage Disposal.** Garbage will be disposed of in authorized dumps only. All users during their briefing will remind their troops of the requirement to dispose of all ammunition and pyrotechnics properly and not in the garbage;
- k. **Regulations for tented camps.**
 - (1) When tented camps are established within the boundaries of a field camp/bivouac, all regulations found in these Range Standing Orders will apply;
 - (2) In addition, the following regulations will be adhered to:
 - (a) only the latrine facilities in buildings will be used. If these are not sufficient, chemical toilets will be acquired and used. Field sanitation procedures are not acceptable

(including urinal tubes);

- (b) tented kitchens, when authorized, will use standard grease pits, soakage pits and sumps. It is a unit responsibility to install these facilities. Where digging has been authorized, the ground will be returned to its original condition before march out;
- (c) for washing, shaving, etc, authorized areas will be established and stands provided. Wash water will be disposed of in grey water containers; and
- (d) dry garbage collection points will be established and used.

l. **Security: weapons – ammunition.** The security of small arms and small arms ammunition is the responsibility of the user

- (1) The loss, by any means, of small arms, small arms ammunition, or any essential operating component of the weapons, will be reported immediately to the Military Police and the Field Camp Supervisor;
- (2) Units may store limited amounts of live ammunition in the camp under guard. Authority for the field storage of ammunition may be requested through Range Control for a maximum period of four weeks. Units should consult Range Control for specific advice on the selection of a temporary storage area and other related technical matters;
- (3) When approved, authority for field storage of ammunition will appear on DRSOs; and
- (4) The firing of ammunition, explosives or pyrotechnics within Camp Petersville and bivouacs is strictly forbidden without the authority of Range Control.

m. **Security and Fire Pickets.** User units are responsible for the security of their own personal kit. They will provide pickets to guard the buildings and areas they occupy; and

n. **Fire Prevention.** Each unit using a field camp / Bivouac will appoint a fire prevention officer who will be responsible to ensure strict compliance with all regulations found in Chapter 1, Section 7.

4. **March-Out.** Prior to leaving the Bivouac Area, the unit will comply with the following regulations:

- a. the complete bivouac area will be free of butts, pop cans, bottles, cigarette packages, loose paper, cartons, and containers;
 - (1) any holes or pits dug; ie sumps, ice storage, barbecues will be refilled and a minimum of 18" of dirt heaped above ground level to allow for settling. Trees, logs or garbage of any type will not be used to refill holes or pits;
 - (2) on approval of Envir O, appropriate Foul Ground signs will be posted. Provision of the material and the signing is a unit responsibility, not a 5 Canadian Division Support Base responsibility; and
 - (3) tent area water drainage trenches will be filled to ground level;
- b. all string, cord, cable, hessian, mine tape or wire erected or used to support aerials, antennae, field telephones, or to hang clothes and mark pathways will be removed and disposed of;
- c.
 - (1) all temporary building signs and fences (including pickets and concertina wire) will be dismantled; and
 - (2) building materials including boards, timber, logs or tin will be removed from the bivouac areas and disposed of. Pallets, duckboards and platforms will be returned to a designated

location or to the location where they were issued;

- d. signals cable insulators fastened to trees with nails will be removed;
 - e. arrangements for all bagged, boxed garbage will be confirmed before a unit is certified clear of a bivouac. Garbage will not be left in the area for further pickup, as the animals will likely get it first; and
 - f. rocks used to mark lanes or paths will be removed to the nearest gravel pit.
5. The bivouac march-out team may consist of:
- a. Range Control Staff;
 - b. Envir rep;
 - c. an RP Ops representative, if clean up engineer work will be required; and
 - d. an officer, or Sr NCO representing the unit.
6. The bivouac camp march-out shall be conducted after the departure of the unit's main body. Units should plan two days for the rear party to complete a march-out and must have sufficient manpower to correct any faults found. The unit representative shall coordinate the march-out with Range Control who shall ensure the proper conduct of the march-out.
7. Damage shall be noted and reported to Range Control. Costs for damages incurred by the unit shall, as a rule, be recovered. If necessary, the decision for unit responsibility for costs shall be determined by the 5 Canadian Division Support Group COS in consultation with the unit, and the CO Ops Svcs Br.
8. The unit march-out shall be conducted as follows:
- a. the march-out team will conduct a physical check of the bivouac area completing the form at Annex K; and
 - b. the unit shall provide the Range Control representative with a map, trace, or grid reference record of all training areas used. Range Control may direct that these areas also be inspected.
9. **Unit General Safety Officer**. The Unit General Safety Officer will complete their duties in accordance with A-GG-040-001/AG-001 General Safety Program Volume 1 Policy and Program, Chapter 2, and submit reports to the FGSO as applicable.

1.605 Health and Safety

Medical Provisions

1. **Responsibility**. It is the responsibility of the OIC Exercise to ensure that proper medical coverage is provided IAW B-GL-381-001/TS000. The medical authority on site is responsible for determining the recommended mode of transportation for the casualty, and determining to which facility the patient will be evacuated. Range Control is responsible for coordinating **ALL MEDICAL RECOVERY** from the RTA.

MEDICAL EVACUATION from the Training Area

2. **By Land**.
 - a. A Unit that sustained a casualty shall contact Range Control via the Safety Net **49.90 (In Clear, Old Squelch)** or by phoning **506-422-2000 ext 2482 (Range Control Safety Line)**. Range Control is manned 24 hrs a day, 7 days a week.

- b. Range Control will need to know the following information:
 - (1) casualty's location (exact grid reference);
 - (2) the number of casualties involved;
 - (3) the nature of the injuries/priority;
 - (4) how the injuries were sustained; and
 - (5) a rendezvous point, where the unit escort will be able to guide the ambulance to the patient. As a general rule there are two gates that can be used for this purpose. The Range Control gate by K-69, or Petersville. Range Control may recommend quicker access through other gates when feasible;
- c. in the event of casualties that are in the training area with no specific units. Range control will have to coordinate an escort to guide the rescue team to them; and
- d. Range Control will contact 911 if required.

Note that 911 vehicles are not equipped for cross-country travel. Units may need to provide cross-country transport from the road to the injured.

- e. All Range Control Patrol vehicles are equipped with backboards and advanced first aid equipment. There are normally two Automatic External defibrillators (AED) deployed within the RTA; one North and one South.

3. **By Air.**

- a. **Units requiring a casualty to be evacuated from the training area will contact Range Control on the Net, providing the information required at Annex L;**
- b. Casualties will not get evacuated from the RTA by helicopter until the medical authority has directed that the casualty can be moved;
- c. Range Control will issue Check Firing to all live C/S;
- d. Range Control will advise requesting unit on availability of Air Resources. If a unit has these resources attached they must inform Range Control before dispatching;
- e. Range Control will coordinate Air Evac informing the receiving hospital of the incoming casualties etc;
- f. there may be up to a two hour delay in dispatching a helicopter during after duty hours and weekends.

4. **Emergency Procedures for Dive Casualty in the RTA**

Note: Figure 1-9-1 of B-GL-381-001/TS-001 outlines the minimum requirements and differentiates between medical support during **Initial Combat Diver** Training and support required for **Combat Diver Training to Maintain Currency**, but to summarize, the following are the requirements:

- **Initial Combat Diver** Training will require a PA or MO and an ambulance to be on-site
- **Maintenance of Currency** diving requires an Advanced First Aid trained individual designated as on-site medical support provider and this cannot be the same person as the driver of the safety vehicle.
- In both cases above, Oxygen is required to be on site, as well as personnel qualified to administer.

- Planning for Dive Ops will take Air and Ground medevac into consideration, and the Dive Supervisor will ensure that they have the most current Halifax Duty Medical Officer list at the dive site, in order to get advice from the Advance Dive Medical Officer (ADMO).
- a. The assigned person shall call the Halifax ADMO for advice via cellular telephone;
- b. Concurrently to making the call to the ADMO, the Dive Supervisor shall ensure that Range Control is contacted via the Range Safety Net providing the following information:
 - (1) casualty's location (minimum 6 figure grid reference);
 - (2) the number of casualties involved;
 - (3) the nature of the injuries/priority;
 - (4) how the injuries were sustained; and
 - (5) a rendezvous point, where the unit escort will be able to guide the ambulance to the patient.
- c. Depending on the dive location, Range Control will either dispatch the Petersville Ambulance, or call 911 for a civilian ambulance, whichever is the most expedient.
- d. Once it is determined the casualty requires recompression, a decision will be made by the ADMO whether to transport by air or ground. Whether by Air or Ground, medical staff will accompany the casualty to the recompression chamber.

5. **EMERGENCY CONTACT NUMBERS:**

- a. CF Duty Diving Medicine Consultant – (416) 246-3155 (24/7 coverage)
- b. 5 Canadian Division Support Base Range Control Landline - (506) 422-2000, loc 2482;
- c. 5 Canadian Division Support Base Range Control Radio Net - 49.90 (New Squelch);
- d. Base Medical Clinic Duty - (506) 422-2000, loc 1400;
- e. Saint John Regional Hospital - (506) 648-6000 (Switchboard);
- f. Oromocto Public Hospital Emergency - (506) 357- 4713;
- g. CFSME Ops O (Duty Hrs) - (506) 422-2000 loc 1930;
- h. CFSME Duty O (After Hrs) - (506) 447-8049.

6. **Maritime RCC Locations:**

- a. Rescue Co-ordination Center Halifax – 1-800-565-1582
- b. Divers' Alert Network (DAN) (919) 684-9111 (24/7) (919) 684-2948 (routine)

Hearing Conservation

- a. **General.** Steady state and impulse noise of sufficient magnitude is hazardous to hearing. Guidelines have been developed for hearing conservation.

- b. **Protection.** All weapon firing and demolitions are potentially hazardous to hearing. Any person in close proximity to demolition charges or weapons which are being fired shall wear a properly fitted hearing protection device as follows:
- (1) **Ear Plugs.** All personnel engaged in training or administrative duties on live firing ranges must insert properly fitted earplugs. These plugs will be worn as a minimum protective device when firing practices are being conducted including the firing of blank large calibre ammunition; and
 - (2) **Aural Protectors.** Aural protectors (also known as “ear defenders”) are preferable to ear plugs and should be worn when available, particularly when firing general-purpose machine-guns and/or larger calibre weapons, and in addition to and not in lieu of earplugs. If verbal commands cannot be clearly heard and understood then one of the protectors may have to be partially removed for the purpose of receiving fire orders.

Invasive Plants

1. Following is the main invasive plants found throughout the RTA, and their recommended precautions and procedures when encountering them:

- a. **Wild Parsnip and Cow Parsnip:** possible affects due to contact: skin exposed to the sap becomes photosensitive and can burn easily up on exposure to sunlight causing severe and painful blistering. Skin is most sensitive 30 min-120 min after exposure.

Immediate action upon contact: flush skin thoroughly with soapy water.

Recommendation: Keep skin covered and stay away from any possible contact with the plant. Seek medical advice if any health affects are to occur.

Do not burn Wild Parsnip!

- b. **Reed Canary Grass:** possible affects due to contact: contains an abundant amount of pollen which can aggravate allergies.
- c. **Poison ivy:** possible affects due to contact: all parts of the poison ivy plant, incl the roots, contain the poisonous resin urushiol. Contact with any broken part of the plant may cause a reaction. Most people develop symptoms 24 to 48 hours after their contact.

Immediate action after contact: wash any areas of your skin you think may have come in contact with poison ivy with soap and cold water (hot water tends to open the pores, increasing the chances of the resin being deeply absorbed into your skin)

Recommendations: when working in or near poison ivy, always wear gloves and protective clothing to make sure that no area of your skin is exposed to the sap of the plant. Poison ivy sap can stick for long periods to clothing/tools. Under hot, humid conditions, the sap becomes inactive in about a week. Under dry conditions, it can retain its harmful effect for as long as one year or more. Any clothing worn while working in or near poison ivy should be carefully removed, washed in hot, soapy water, and hung outside to dry for several days. Wear gloves while handling objects that may be contaminated. You may need to repeat washing to get all the sap off.

Do not burn poison ivy! This may release the poison into the air, in the form of tiny droplets carried by the ash and dust particles in the smoke. A severe reaction may happen if a sensitive person inhales or is exposed to this smoke.

2. The following are some rare plants which may be found within the RTA:

- a. **Giant Hogweed:** possible affects due to contact: skin could become oversensitive to sunlight and could cause cellular damage at the surface. The symptoms of phytophotosensitization include serious and extensive weeping blisters. The lesions often occur in a line where the person has brushed aside the stems (the whole plant if toxic though). The bullae can be massive and irritation and brown pigmentation may remain for years after healing.

Immediate action after contact: flush affected area with soapy water.

Recommendation: report any findings of Hogweed to the Environmental dept.

- b. **Yellow Iris:** possible affects due to contact: plant juices can cause dermatitis in sensitive individuals.

Immediate action after contact: flush affected area with soapy water.

Health Hazards associated with maintaining the Small Arms Range Complex (SARC)

1. training should be provided to construction workers about the health hazard related to soil or bullet catcher material;
2. personal protective equipment (gloves, mask, cover-all) should be used by all personnel in charge of construction work to limit dermal absorption, inhalation of dust particles and inadvertent ingestion of soil;
3. all personnel should be cautioned to wash boots and remove coveralls prior to leaving the SARC (not to transfer contaminated soil or dust to their vehicle)
4. all personnel working in or near the stop butt should be cautioned about the importance of washing hands after handling soil or bullet catcher material;
5. all personnel should be cautioned about the hazards related to eating and drinking in vicinity of stop butt.

1.606 METEOROLOGICAL INFORMATION

1. **General.** Adverse weather can seriously affect the safety of personnel and equipment operating within the boundaries of 5 Canadian Division Support Base. The variability of weather phenomena in space, time, and intensity can pose varying levels of threat over the large expanse of the 5 Canadian Division Support Base Training Area. Accordingly, forecasts of adverse weather (weather advisories or weather warnings) are issued to apprise concerned units of the likelihood of impending hazardous weather so that appropriate action may be taken.

2. Weather Forecasts and Information:

- a. various types of Meteorological information are available through the **Joint Meteorological Centre (JMC)** at local 2613 JMC Hours of operation are on a 24/7 basis;
- b. Ballistic (B2,B3), Computer Met (CM), Fallout (FM), Sound Ranging (SR) and Target Acquisition (SRX) met messages that have been requested via TSR from the JMC are available on freq 42.15 (new squelch), local 3345; or 1 800 996 3836.
- c. astronomical data including sun, light, moon and moon phase tables are available upon request;
- d. the 5 Canadian Division Support Base Range Weather Network (RWN) System provides Range Control with frequent updates on the state of forest fire hazard in the Training Area (see RSOs Section 1.7);
- e. the RWN also provides regular updates on windchill and information is available through Range Control or the JMC. However, to assist units, Wind Chill charts are attached at **appendix 1 to Annex F**;

- f. the **Base Surgeon** is the authority on matters of heat stress. The JMC issues guidance on heat stress based on the Wet Bulb Globe Thermometer (WBGT) Index as measured by the RWN. Information is available through Range Control or the JMC; and
 - g. **Range Control** is responsible for disseminating to field units information produced by the JMC including weather warnings/advisories, forest fire hazard, windchill, heat stress, etc.
3. **Definitions of adverse weather forecasts.** Advice to vulnerable units will take the form of a Forecast of Adverse Weather and will be distributed to all concerned agencies immediately as they are known.
4. Adverse weather conditions will be advised in two categories, WEATHER ADVISORY and WEATHER WARNING:
 - a. **Weather Advisory.** Weather Advisories will be issued for those situations where actual or expected weather conditions fall short of constituting a hazard but are of a nature that may cause general inconvenience or concern. Advisories may also be used to provide an alert to units in those situations not yet sufficiently definite to justify a weather warning; and
 - b. **Weather Warning.** Weather warnings will be issued whenever actual or expected conditions may endanger lives, property, and welfare of personnel operating within 5 Canadian Division Support Base. Weather warnings will indicate the nature, severity, and duration of expected conditions.
5. Criteria for issuance of advisories and warnings for 5 Canadian Division Support Base are listed at Annex F.
6. **Decisions based on forecasts of adverse weather.** Command decisions associated with weather advisories are less well defined than those associated with weather warnings and require higher level decisions; the initiative to curtail activities is therefore delegated as follows:
 - a. in the event of a WEATHER ADVISORY - the Commanding Officer; and
 - b. in the event of a WEATHER WARNING - OIC exercise or senior supervisor.
7. During periods when adverse weather conditions may affect operations, training, maintenance or general duties, the final decision to reduce, modify or curtail activities rests with the Commander. The Commander's decision will be communicated to all units in the training area by Range Control, per CO Ops Svcs Br direction, based on the stages and priorities outlined as follows:
 - a. cancel outdoor activities at discretion of senior supervisor: Due to local conditions such as climatic restrictions on ammunition, limited local visibility, or environmental effects on the equipment or task being conducted, the senior supervisor may cancel outdoor training or maintenance and adjust local schedules or timetables as necessary. Personnel are moved indoors and gainfully employed;
 - b. cancel outdoor activities at commanding officers' discretion: When general conditions are such that productive outdoor activity is questionable due to a weather advisory, or warning, Commanding officers may at their discretion, cancel outdoor training or maintenance and re-schedule the activity. Affected personnel and equipment are moved to an indoor environment and gainfully employed;
 - c. cease activities - working hours: In case of bad weather the following actions can be taken:
 - (1) thin out at the discretion of Commanding Officers. Commanding Officers may authorize affected personnel to go home on an individual basis;
 - (2) thin out non-essential. Commanding Officers may authorize personnel who cannot be employed to be sent home;
 - (3) minimum manning. With the exception of essential personnel the Commander or his delegated

authority may permit all non-essential personnel be released from duty and sent home at a specified hour. The decision for essential duty personnel to conduct or not to conduct emergency repairs, recovery or other activities will rest with the CO Ops Svcs Br once the stand down is in effect.

- d. cease activities - silent hours. In the event that adverse weather conditions are experienced during silent hours all personnel, military or civilian, are expected to report to their normal place of duty as soon as reasonably and safely possible. In the event that an individual cannot make it to his or her place of employment it is their responsibility to contact their supervisor and inform them of the situation. Supervisors will decide, on a case by case basis, whether to permit late arrival, compensation time off, leave, etc;
- e. If weather conditions are such that the base is non-operational and outdoor movements would seriously jeopardize the safety of 5 Canadian Division Support Base personnel then a minimum manning/essential personnel will be announced in clear language over the radio. The 5 Canadian Division Support Base Duty Officer who will contact the CO Ops Svcs Br, will initiate this procedure. CO Ops Svcs Br will obtain the proper authority from the Commander or DComd then inform the Base Duty Officer and the PAFFO. The PAFFO will contact the media and pass the appropriate directives in clear language.

8. **Heat Stress - Wet Bulb Globe Thermometer Index (WBGT Index)** The Base Surgeon is the authority on matters of heat stress but the following is provided to assist units. Loss of operational efficiency, both mental and physical, occurs under certain definable degrees of heat stress. If the stress is severe enough, it will lead to heat cramps, fatigue, exhaustion and eventually, disability and death. Personnel have an increased resistance to heat injury when their water and salt balances are maintained, when they are acclimatized gradually to hot environments and when they are fit.

9. The following table demonstrates the amount of water to be taken in accordance with the Wet Bulb Globe Thermometer (WBGT) Index.

INDEX	WATER INTAKE LITRE/HOUR	TIME WORK / TIME REST (IN MIN)	REMARKS
26.0 – 27.5	0.5	50 / 10	take precautions
27.5 – 29.0	0.5 TO 1	50 / 10	commanders emphasize water intake
29.0 – 31.0	1.0 TO 1.5	45 / 15	increase command supervision of physical activity
31.0 – 32.0	1.5 TO 2.0	30 / 30	fully acclimatize pers restrict activity to a max of 6 hr / day
ABOVE 32.0	MIN OF 2.0	20 / 40	commanders suspend all strenuous activity

10. Actions to be taken during periods of potential heat stress are outlined in Annex F. However, units should seek the advice of Base Surgeon staff and should refer to DAOD 5021-2 and CFMO 40-02.

1.607 RECOVERY

1. Base Maintenance Company, 5 Canadian Division Support Base, provides First and Second Line Recovery services for all units without integral recovery resources.
2. Units with integral recovery resources are responsible for the recovery of unit vehicles within the training area and within a 16 km radius of the Base Camp on a 24-hour basis providing recovery is within unit resources.
3. Units requiring the recovery services of the 5 Canadian Division Support Base Maintenance Company are to send their requests over the Range Control Safety Net and must include the information listed at Annex M.
4. If a vehicle is recovered by other means after the recovery request has been sent, someone must be left at the site to inform the recovery crew as some recovery vehicles are not radio equipped.

1.608 RANGE MAINTENANCE

1. Reporting

- a. All range users upon finding a Range Safety hazard or a requirement for maintenance to a range or training area, will report the problem to Range Control either through a range clearance certificate or directly through the CP;
- b. Ops Svcs Br Range and Training Area Management Section (RTAM Section) is responsible for coordinating all management activities such as maintenance, and/or natural resource/environment activities within 5 Canadian Division Support Base training area;
- c. Units are not to report Range and Training Area problems directly to RP Ops; and
- d. Range Control, RTAM, and RP Ops Roads and Grounds Section conduct preventative maintenance inspections.

2. **SNIC.** Roads and Grounds supervisor is responsible to ensure ranges or areas required for training are free from ice and snow. The following procedure will be followed:

- a. at the Booking Coordination Conference held each Thursday, Course WOs and unit training NCOs will confirm the ranges, roads and gun positions that are required for two weeks ahead;
- b. User units requiring snow removal are to submit a TSR to Range Control at the following address: +5 CDSG Range ControlTrg@5 CDSG Ops Svcs Br@Gagetown; and
- c. details of standard priority clearance are contained in 5 Canadian Division Support Base Standing Orders

3. Priority List Snow Removal

- a. A weekly priority list based on DRISO bookings will be sent to RP Ops by the Admin NCO Range Control. This list will establish the priority for the following ranges, all Small Arms Ranges, FP's 3, 4, 5, Argus Coy Def and Wellington Range. **Unit's are not required to submit TSR for the above stated areas.**
- b. All MSR's will be cleared as per CGSO 6.1.10.

4. TSR's

- a. SNIC requirements not found in the priority list require a TSR sent to Range Control Admin NCO for action. Range Control will staff the request to RP Ops and SPV, after which direct liaison is permitted between the unit and SPV at local 2139 regarding cancellation etc.
- b. If there are any special requirements within the sites found on the Priority List the User Units are required to send a TSR with their special instructions.
- c. TSR to be submitted to Range Control Admin NCO minimum of 7 days prior to Range booking.

5. Range and Training Area Improvements

- a. All permanent improvements and changes to bivouacs, ranges and training areas must be approved by the RTAMO prior to commencement of work. The RCO can facilitate suggestions.
- b. Reusable building material, free of nails is to be turned into the Target Shop for future use in target construction rather than being destroyed. It will not be left in the range and training area/bivouac

without authority from Range Control.

1.609 5 Canadian Division Support Base Tank Wash Rack

1. Range Control is responsible for the allocation and maintenance of the 5 Canadian Division Support Base Tank Wash Rack located at the junction of the Maidstone and Shirley Roads (GR 976 783). RP Ops is responsible for the indoor tank wash rack (Bldg K-60) at local 3275.

5 CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

VOLUME I - RANGE STANDING ORDERS

EDITION 2018

VOLUME 1 - GENERAL

SECTION 7 – CAMP 5 CANADIAN DIVISION SUPPORT BASE RANGE AND TRAINING AREA FIRE ORDERS

1.701 GENERAL

1. All fires occurring on the Ranges and Training Area will be considered **OPERATIONAL EMERGENCIES**. Range fire management will be a priority in all activities at 5 Canadian Division Support Base. The prompt accurate reporting of fires is a **USER RESPONSIBILITY**. All units will **SUPPORT** pre-suppression and suppression activities by responding immediately to identify requirements as per the 5 Canadian Division Support Base Wildland Fire Op Order. Our goal is to quickly control and extinguish all fires within the 5 Canadian Division Support Base Ranges and Training Area.

1.702 FIRE TYPES

- a. Wildland Fires (ie grass, slash, brush, timber); and
- b. Non Wildland Fires (ie. buildings, structures, tents, vehicles, aircraft)

1.703 REPORTING OF FIRES

All fires will be reported through Range Control by the fastest means possible. Range Control can be reached at 2482. The report must contain the following information:

- a. location and cause of fire (area #, grid reference);
- b. description of what is burning;
- c. approximate size (metre sq.);
- d. rate of spread and direction the fire is heading ;
- e. values at risk (ie. human life, adjacent buildings, neighbouring properties);
- f. fire fighting resources on site (no. pers. fire fighting kit, heavy equipment);
- g. action being taken (ie. monitoring, recce, suppression);and
- h. name of person or unit reporting fire, on site contact.

1.704 RESPONSIBILITIES

1. **5 Canadian Division Support Base Fire Control Officer** is responsible for directing wildland fire fighting operations;
2. **5 Canadian Division Support Base Fire Chief** is responsible for directing non-wildland fire operations. All non-wildland fires regardless of size must be reported to the Base Fire Department, as well as the discharge of any fire extinguisher;
3. **All Service Personnel and Civilians** when in the training area are responsible for the prevention and

reporting of fires. Range Control may direct any unit to assist in fire fighting operations at 5 Canadian Division Support Base. Units will not enter an Impact Area to fight fires however, the Fire Prevention Officer (FPO) may require the armoured dozer to cut a fire break.

4. **Commanding Officers** will ensure that 5 Canadian Division Support Base Range and Training Area Fire Orders are included in Unit Fire Orders. He will familiarize himself and his subordinates with training restrictions as they pertain to fire hazard levels as per section (6). Units conducting live firing during high risk months (May-Sept) should plan on carrying out early morning shoots whenever possible. The fire hazard level is normally low enough prior to 1000 hrs to permit the firing of most ammunition.

5. **OIC of Exercise**

a. prior to entering the training area:

- (1) must be fully aware of the Range and Training Fire Orders and ensure that the members of his / her unit are also aware of SOPs regarding Range and training area fires; and
- (2) ensure unit is briefed about and equipped with first line fire fighting kit as per section (4).

b. after entering the training area and establishing a CP:

- (1) ensure his / her unit receives hourly fire hazard level information broadcasts from Range Control;
- (2) ensure his unit strictly adheres to training restrictions as issued by Range Control;
- (3) promptly report all fire ignitions to Range Control by the fastest possible means;
- (4) be prepared to take the necessary action required to extinguish and / or control the spread of the fire; and
- (5) be prepared to rendezvous with and provide assistance to 5 Canadian Division Support Base fire fighting personnel upon their arrival at the fire site ;
- (6) all command post must have a current copy of Base Gagetown Fire Orders.

6. **Action to be taken by Senior Rank Present** - when unit personnel cause or discover a fire:

- a. report the fire to Range Control by the fastest possible means;
- b. suspend live firing in affected areas;
- c. establish a CP and maintain constant communications with Range Control;
- d. when possible take the necessary action to extinguish and / or control the spread of the fire. Units will not proceed into an Impact area until authorized by Range Control;
- e. rendez-vous with and provide assistance to 5 Canadian Division Support Base fire fighting personnel. 5 Canadian Division Support Base fire fighting personnel will assume authority in directing fire fighting resources;
- f. Unit will not leave the fire site until authorized to do so by Range Control; and
- g. If there has been injuries or loss of equipment, submit a report to his / her unit as soon as it is practicable.

7. **Range Control Officer** - is responsible for providing a safe range environment for fire fighting operations,

for providing a command post during fire operations and for providing limited service support. He will ensure that fire hazard level information is received from the Met Officer then relayed to range users hourly, and will receive all fire reports and inform key fire personnel.

8. **Range Control** - after the receipt of a fire report is responsible to:
 - a. immediately inform key 5 Canadian Division Support Base fire personnel. If no response from the Duty Fire Control Officer or the Chief Fire, contact them via two-way radio, cell phone or home phone;
 - b. as necessary suspend live-firing and or training in the applicable areas to facilitate firefighting. Inform Fire Control Officer on route when the area is safe to enter;
 - c. continue to gather updated information from person reporting the fire and complete the fire occurrence report form;
 - d. arrange for further support as requested by Forestry Services. This support may include additional military personnel, heavy equipment, helicopters, etc.;
 - e. during fire fighting operations act as the fire ops communication centre and maintain a separate fire fighting log; and
 - f. continue to monitor fire fighting operations by requesting sitrep from the fire rep at the fire site.

1.705 FIRST LINE FIREFIGHTING EQUIPMENT

1. Each unit conducting field training exercises on the ranges during the forest fire season (April 15 - October 31) is required to have in their possession, minimum first line fire fighting equipment. When a unit size organisation or greater deploys as such does to the training area they must provide their own first line fire fighting equipment kits. For training deployments of lesser size than a unit, first line fire fighting equipment as noted below is not required beyond that which may be specified elsewhere in these orders as a function of firing a specific weapon system.

2. Minimum first line fire fighting equipment consists of the following:
 - a. a vehicle preferably APC;
 - b. one water trailer;
 - c. six twenty (20) litre back tanks with pumps;
 - d. six shovels; and
 - e. six steel brooms.

1.706 OPEN FIRES

1. Open fires of any kind are not permitted within the confines of the training area without specific authorization from Range Control. Range Control will advise Forestry.
2. Campfires will only be authorized for areas that are certified to be dud free.

1.707 5 CANADIAN DIVISION SUPPORT BASE FOREST FIRE HAZARD TRAINING RESTRICTIONS

1. Training at 5 Canadian Division Support Base during the forest fire season (approximate dates 15 April 31 Oct) is subject to restrictions based on the level of forest fire hazard in the Training Area. Restrictions are imposed

by the 5 Canadian Division Support Base Forest Fire Hazard System, which is managed by the Army Met O. Restrictions imposed by the system can be over-riden only by specific headquarters staff; by the Met O, for technical reasons, and by CO Ops Svc BR or Comd, 5 Canadian Division Support Group for command and control reasons. The Met O monitors System status 24/7 and makes adjustments as necessary to ensure its impact to training is minimized.

2. The Training Area is presently divided into four fire hazard zones. Training Area fire hazard zones are reviewed regularly and units will be advised of changes as they occur.

3. The restrictions below are reviewed regularly and may be adjusted as required. Note that as hazard levels ramp up lower level restrictions remain in force.

4. **5 CANADIAN DIVISION SUPPORT BASE FOREST FIRE HAZARD CHART**

<u>HAZARD LEVEL</u>	<u>RESTRICTION</u>
LOW	NO restrictions
MODERATE	NO RP/WP SMOKE/ TRACER or ILLUM in TREE LINES. (If all FF crews engaged, increase minimum restriction to BALL & BLANK ONLY). Open fires require FCO and RCO approval.
HIGH	Target RP/WP 1000m from tree line, all other targets min 500 m from tree lines except small arms. Rockwell East restricted to Ball/Blank, HE AND C4. Note: Any Artillery Rounds with a Base Bleed Unit are not to be fired when the hazard level reaches high. Handheld pyro (smoke grenades / Arty Sim / Thunder Flash etc...) may be used in areas with minimal chance of starting a fire (ie, on a gravel parking pad / range road) (If all crews engaged, increase minimum restriction to BALL & BLANK ONLY). Open fires require RCO / FCO approval.
VERY HIGH	No RP/WP/SMOKE/TRACER/ILLUM/TRIP FLARES/PARA FLARES or STEEL CUTTING. Rockwell East of Hersey Road restricted from all live fire. NO open fires. (If all crews engaged, restrict to BALL&BLANK ONLY).
EXTREME	HE, BALL & Blank and basic demolition charges only ammunition only; restrict recreational access; contractors require RCO / FCO authorisation no open fires permitted.
EXTREME PLUS	>>> CEASE ALL FIRING <<< NO EXCEPTIONS; off-road vehicle movements require route check for fire/smoke every 60 min. no non-Military use.

1.708 FIRE PRECAUTIONS – BIVOUACS

1. Fire prevention and prevention of injury or loss by fire is the responsibility of all ranks and civilian employees who occupy or work in field camps. Commanding Officers and officers in charge of work and buildings have additional responsibilities essential to minimize fire losses.

2. All military personnel and civilian employees shall read these Fire Orders and operating procedures within four hours of camp occupation by the main body.

3. All personnel are individually responsible to know:

- a. the location of fire extinguishers in their working area and their methods of operation;
- b. the operation of camp fire fighting equipment;

- c. emergency fire numbers;
 - d. the action to be taken on discovery of fires including the location of their muster station; and
 - e. smoking regulations.
4. All fires regardless of size will be reported to the Camp Fire Department, the RCO, and Commander 5 Canadian Division Support Group.

GENERAL REGULATIONS

5. **Siting Considerations.** The following precautions shall be taken when setting up bivouacs and tented camps in accordance with LFCO 11-40:
- a. tented campsites shall **NOT** be located in exposed windswept areas;
 - b. the sites for cook houses, stores and recreational tents shall be selected so as to reduce the risk of fire spreading to other tents;
 - c. tents shall **NOT** be erected directly under primary or secondary power lines or in such a manner that electrical power supply will be disrupted as the result of a fire;
 - d. in the event of fire, all nearby tents should be struck immediately;
 - e. vehicles shall **NOT** be refuelled within 10 metres of any building or tent;
 - f. empty petrol containers shall **NOT** be placed within 15 metres of any building or tent;
 - g. unprotected lights and open flame devices shall not be brought near tanks or into areas, tents or buildings where flammable liquids are stored;
 - h. smoking is forbidden in stores tents and sleeping accommodations;
 - i. in areas where smoking is permitted, suitable receptacles shall be provided;
 - j. field petrol burners or lamps will **NOT** be refuelled in tents or buildings. Extreme caution will be exercised during re-lighting;
 - k. flammable liquids shall **NOT** be stored in kitchen tents or buildings, which are used for accommodation;
 - l. when practicable, a fire break shall be created around tented areas, not less than 15 metres in width in grassed areas and 60 metres in forested areas;
 - m. grass will be kept short in the immediate area of buildings and tents;
 - n. lamps burning kerosene or naphtha gas will be used only where specifically authorized. They shall be securely installed, inspected and serviced daily and kept clear of combustible materials;
 - o. empty bottles or broken glass start bush fires. Such items will be placed in suitable containers and safely disposed of;
 - p. **NO SMOKING** signs shall be prominently displayed in all areas where smoking is forbidden; and
 - q. authorized smoking areas will be set up and so marked.

6. **POL Storage Precautions.** The following precautions shall be taken when storing POL products in the training area:

- a. sites chosen for storage shall be firm, level and clear of vegetation;
- b. dependant on the soil condition of the chosen site, a base of sand or gravel will be prepared to provide drainage and a good foundation. The finished level of the base shall be a few inches above the general ground level to protect the containers from corrosion, etc;
- c. 20 litre jerry cans can be stored upright on their bases, not more than five high and in blocks of pyramids not more than 16 metres each way. A 16 metre aisle will be left on all sides of each 16 metre square section;
- d. empty jerry cans shall be covered with tarpaulins;
- e. Containers, including 205 litre drums, will be stored upright, as they support weight best in this manner and prevents spillage;
- f. drivers of fuel and ammunition vehicles will take special precautions to prevent their cargo from being exposed to or near mufflers;
- g. at least one 20-30 pound dry-chemical B C type fire extinguisher will be readily available;
- h. vehicles shall **NOT** be refuelled within 10 m of a tent or building;
- i. empty petrol containers shall **NOT** be placed within 15 m of any building or tent; and
- j. re-fuelling within the RTA shall be done in accordance with SO 10.4.2, Annex J.

7. **Heating Unit Precautions.** The following precautions shall be taken when using emergency or temporary heating units:

- a. Herman Nelson Heaters and other temporary flame heating equipment (e.g., Salamanders) not designed for internal use shall not be operated inside buildings or tents. Heaters containing flame shall be operated outside and at least 3m from the tent. Heat shall be directed into buildings or tents by means of suitable hose or pipe;
- b. heaters shall not be left unattended while in operation;
- c. heaters shall not be refuelled while in operation, but allowed to cool completely before refuelling. During refuelling, all necessary precautions shall be taken to ensure fuel does not spill on machine or heating hose;
- d. all combustible materials are to be kept clear of heaters;
- e. a 20-30 pound dry chemical B C type fire extinguisher will be readily available;
- f. all ranks will receive instruction in the operation of all types of heaters, stoves and lamps;
- g. immersion heaters will not be set up closer than:
 - (1) 30 metres from any POL point; and
 - (2) 10 metres from any filling point; and
- h. privately-owned thermal appliances shall not be used.

8. **Modular Tentage Regulations.** The following regulations apply to the modular tentage system:
- a. shelters erected for sleeping accommodation shall not exceed four (4) modules in length to provide for quick evacuation and limit the amount of material loss in the event of a fire;
 - b. maintenance, messing, supply and recreation shelters shall be restricted in size and configuration to that required for true operational requirements and so arranged that sufficient exits are provided for safe evacuation purposes;
 - c. a minimum of six metres shall be maintained between individual tents and rows of tents used for sleeping accommodation;
 - d. a minimum of 15 metres shall be maintained between maintenance, messing, supply and recreation tent structures. This same distance shall also be maintained between these shelters and tents used for sleeping accommodations.
 - e. safely heated and lighted. Field petrol burners and lamps will not be refuelled in tents. Herman-Nelsons and other flame heating equipment will not be operated inside tents or buildings. Heaters containing flame shall remain **10 feet** from all tent walls; and
 - f. heaters shall not be left unattended while operating.

1.709 FIRE INSPECTION - BIVOUAC AREAS

1. When a bivouac area will be established for a period of 48 hours or longer, a fire inspection of the bivouac area will be completed. Units must contact the Base Fire Inspection Cell at 3324 to book a bivouac inspection. The date/time of the inspection will be recorded on the March-In Form (Annex J).
2. Bivouac inspections are carried out in accordance with LFCO 11-40 (see Annex J appendix 1)

1.710 FIRE SAFETY BRIEFING - BIVOUAC AREAS

1. **Precautions.** Officers-in-charge of bivouac areas or tented camps shall ensure that all safety precautions detailed in this section are strictly adhered to.
2. **Assembly Areas.** Units will designate central forming-up places for troops in case of fire.
3. **Alarm.** A hand-operated siren or other device known to all ranks will be mounted at all Fire Points.
4. **Fire Points**
 - a. Fire points will be established and clearly marked in accordance with LFCO 11-14
5. **Fire Fighting Equipment.**
 - a. It is a user responsibility to provide all the necessary fire fighting equipment;
 - b. Firefighting equipment will be properly maintained and not misused; all Fire Extinguishers shall be serviced by the Base Fire Department personal or an Authorized fire extinguisher maintenance company;
 - c. In particular extinguishers, hoses and hydrants will not be used for washing vehicles or equipment or for purposes other than for fighting fires.
6. **Fire Drills.** User units will hold a fire drill within 72 hours of the arrival of their unit's main party. Additional fire drills will be held periodically as deemed necessary by the UFPO.

7. **Fire Pickets.**
 - a. The responsibilities of the fire picket shall be determined by the UFPO. As a minimum, they will include physical periodic inspections of all areas of unit responsibility;
 - b. A fire picket will be established. During silent hours, a continuous roving patrol will be carried out.
8. **Action on discovery of fire.** Anyone discovering a fire shall:
 - a. shout "FIRE, FIRE, FIRE";
 - b. activate alarm by means of Fire Alarm and phone 911;
 - c. attempt fighting the fire using any equipment available; and
 - d. inform Range Control by radio or telephone 2482.
9. Once the fire is reported, a phone sentry will be posted.
10. When the fire is extinguished, sentries will be posted to guard against future outbreaks.
11. **Action on hearing the fire alarm.** All personnel, on hearing the alarm, will alert all others in the local area and report to the muster area. Fire Piquet's at Camp Petersville will man the Hose Reel carts. For large units, UFPOs may assign additional muster areas. More details regarding Camp Petersville can be found in Annex A.

FIRE ORDERS

CAMP PETERSVILLE

1. AUTHORITY

Camp Petersville Fire Orders and operating procedures are written specifically applying to the Camp Site and are in accordance with C-08-005-120/AG-000 and on authority of the Area Engineer. They are to be read in conjunction with Camp Gagetown Fire Orders and Unit Orders (as applicable).

2. RESPONSIBILITY

Fire prevention and prevention of injury or loss by fire is the responsibility of all ranks and civilian employees who occupy or work in Camp Petersville, Commanding Officers and Officers in charge of works and buildings have additional responsibilities essential to minimize fire losses.

3. KNOWLEDGE OF ORDERS

- a. All military personnel and civilian employees shall read Camp Petersville Fire Orders periodically and are individually responsible to know from memory:
 - (i) The location of fire extinguishers in their working areas and methods of operation;
 - (ii) The telephone number of the Camp Gagetown Fire Department, 911, and PC Command Post is 4578;
 - (iii) The action to be taken on discovery of fires; and,
 - (iv) All fires regardless of sizes will be reported to the Base Fire Department.

4. ACTION OF DISCOVERY OF FIRE

- a. Any person discovering a fire shall:
 - (i) Shout **“FIRE-FIRE-FIRE”**;
 - (ii) Turn in alarm by means of Fire Alarm and phone 911; and
 - (iii) Attempt to fight the fire using any equipment at hand or as detailed at article 1-6.

5. UNIT AND DETACHMENT COMMANDERS

- a. Unit and Detachment Commanders shall:
 - (i) Appoint a Fire Prevention Officer or Fire Prevention Committee as appropriate;
 - (ii) Provide a fire piquet, commanded by an NCO for 24-hour coverage of his area of responsibility;
 - (iii) Promulgate Unit Fire Orders not inconsistent with Camp Petersville Fire Orders.

6. ADDITIONAL UNIT FIRE FIGHTING DUTIES

- a. Unit fire piquet or personnel delegated by their unit for firefighting duties will familiarize themselves with emergency firefighting equipment that is contained in the reel house.
- b. On hearing a Fire Alarm the following action will be taken

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- (i) The hose reel carts will be manned by a minimum of three men;
- (ii) The carts will be advanced to the hydrants nearest to the fire;
- (iii) Connect hose to hydrant port and tighten by use of hose wrench;
- (iv) One man will remain at the hydrant with a hydrant wrench while the other two men advance the hose cart to the scene of the fire;
- (v) When sufficient hose is stretched, disconnect couplings (to separate hose at that point) and place nozzle on the hose connection;
- (vi) On signal from nozzle man or person in charge, the hydrant man will turn on the water by opening the hydrant anti-clockwise slowly at first, to prevent water surge;
- (vii) Turn on fire pump remote switch in command Post. Proceed to fight fire directing the water at the seat or base of the fire; (the intent of this order is to hold the fire in check until the Fire Dept. arrives. Do not enter a smoke filled room or building)
- (viii) When the fire has been extinguished, the procedure is reversed. The hydrant man will turn off pump and turning the valve clockwise until it is sufficiently tightened to stop the water.
(NOTE: DO NOT OVER TIGHTEN)
- (ix) Remove nozzles and drain hose and replace both on hose cart. (during winter months, 1 Nov – 15 Apr, hose must be returned to the Base Fire Department for drying). Unit will notify the Fire Department, who in turn will be responsible for replacement and drying of the hose.
- (x) Return hose carts to hose reel house.

7. TROOPS

All troops other than the Fire piquet and those selected to assist in fire combat will report to previously designated assembly areas and stand by to assist as required. Usually it is on the opposite side of the main road that cuts the camp in half.

8. FIRE PRECAUTIONS

Fire precautions will be detailed in Camp Gagetown Fire Orders.

NOTE:

Units occupying Camp Petersville are not to open, shut or otherwise tamper with any of the valves on the water distribution system. The pump house is placed “**OUT OF BOUNDS**” to all unauthorized personnel. Emergency Fire Fighting Equipment and hydrants **WILL NOT** be used for washing vehicles or purpose other than **FIRE FIGHTING**.

Note: Tp WO will Report to PC 105 Duty Personnel that all personnel are accounted for.

CANADIAN DIVISION SUPPORT BASE STANDING ORDERS

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VOLUME 1 - GENERAL

SECTION 8 - GENERAL ENVIRONMENTAL CONSIDERATIONS AND PROHIBITIONS

(TO BE READ IN CONJUNCTION WITH CAMP GAGETOWN SO 10.4.2)

1.801 GENERAL

1. The aim of Department of National Defence is to demonstrate responsiveness to, and the responsibility for: protecting the environment while ensuring environmental stewardship and protection of national and corporate assets entrusted to DND. All activities will meet or exceed the requirements of all federal legislation and comply with provincial, municipal and international standards where applicable. Individuals or DND can be charged and held responsible for violations of environmental legislation.

2. In general, environmental assessment (EA) is a process to predict the environmental effects of proposed projects as early as possible in the planning process, prior to an irrevocable decision being made. An EA identifies possible environmental effects, proposes actions to be taken to mitigate any adverse effects, determines any residual effects after mitigation as well stating the monitoring required ensuring that mitigation measures are appropriate. Some of the issues that are regularly addressed in an EA are fish habitat, wildlife habitat, water, soil and air quality, noise and public concerns. EA's need to be conducted when there is a potential for negative environmental effects and mitigative measures must be implemented.

3. Some notable points for commanders to keep in mind regarding the current attitudes with respect to the environment include:

- a. Canadians can petition the Minister of the Environment to investigate an alleged infraction under any Federal Act. Individuals can seek court injunctions to stop or prevent activities that are an offence under the Acts or may cause them loss or damage;
- b. Depending on the legislation consulted, the environment may be defined as including:
 - (1) air, land, water;
 - (2) plant and animal life including human life;
 - (3) the social, economic, recreational, cultural and esthetic conditions and factors that influence the life of humans or a community;
 - (4) a building, structure, machine or other device or thing made by humans;
 - (5) a solid, liquid, gas, odor, heat, sound, vibration or radiation resulting directly or indirectly from the activities of humans; and
 - (6) any part or combination of the foregoing and the inter-relationship between two or more of them.

1.802 LIVE FIRE TRAINING

1. Some degree of environmental damage may result during all activities of training, particularly; live firing can result in potential significant impacts on the environment. Possible environmental damage can occur through destruction of surface vegetation, erosion of exposed soil and the possible damage fragile ecosystem components and/or wildlife. During live fire training commanders should consider the following with respect to training objectives:

- a. the use of explosive ordnance in or near sensitive wildlife habitat, or its buffer zone, such as wetland and watercourses is prohibited; if an incident occurs inside the prohibited area it must be reported to Range Control immediately.
- b. targets must be placed outside of the buffer around watercourses, wetlands and other sensitive habitats.
- c. exposed, erosion prone areas should not be further aggravated by continued use as targets and should be reported to Range Control for restoration, if required.

1.803 DIGGING

1. Field training may require that a certain amount of digging take place, whether this is field defence or bivouac sumps. When digging, the potential exists for environmental damage by erosion. All digging requires prior approval from Range Control, but for digging more extensive or deeper than individual shell scrapes, the following guidelines will be applied:

- a. root zone soil (topsoil) will be piled separately for later replacement;
- b. excavations should not intercept the water table, in particular, sumps which do so will not be used;
- c. steep slopes should be avoided;
- d. when filling excavations, replaced earth should be mounded 10-20% of the excavation's depth to permit settling to ground level;
- e. garbage and plant matter (trees, logs) are not to be used to fill trenches;
- f. all back filled excavations will be seeded with grass seed and hay mulch;
- g. a picture of the area before, during and after the excavation must be taken and supplied to Range control after the exercise is complete. The picture must illustrate the separation of the topsoil from the rest of the excavation; and
- h. No digging within 30 meters of a watercourse or wetland without Ranger Control authorization.

1.804 DAMAGE TO WATERCOURSES

1. Siltation of water bodies within the training area is a major problem and has a particularly damaging effect on fish habitat. The importance of vigilance with respect to the Fisheries Act is stressed. The intent here is not to restrict meaningful training activities, but to ensure that responsible care and forethought are exercised at all levels of the Chain of Command. To this end:

- a. vehicles will not be washed in any watercourse;
- b. there shall be no fording of watercourses except at engineered hardened ford locations. Any damage to any ford site must be reported immediately to Range Control;
- c. culverts are to be avoided where possible except at harden crossing points;
- d. damage to roadsides and drainage ditches is to be avoided however; if deemed tactically required in order to conduct training, some damage may occur without being intended. Regardless of the intent, all damage must be reported to Range Control in accordance with Section 9 of RSO's;
- e. if, during the course of training, streams, culverts or watercourses are altered, user units must contact Range Control (Environment Service Branch to be informed by RC) for instruction;
- f. all streams restoration sites are off limits to military activity that may cause either damage or destruction. Any military training exercises that requires direct access to a watercourse, or any portion of its buffer zone must receive prior approval. Refer to 5 Canadian Division Support Base

geodatabase for watercourse locations. Buffer zones are located 30 meters on either side of a watercourse.

- g. no POL or hazardous products are to be stored within 30 m of any watercourse. Spills of any size within 30m of a watercourse are to be reported immediately to Range Control who will inform the Firehall and B Env O;
- h. no mounted manoeuvres within 30 m of a watercourse or wetland except on an existing blacktrack to access a hardened ford.
- i. No vegetation shall be removed within the 30 meters buffer zone along watercourses; and
- j. Contact the Environmental Service Branch prior to any water withdrawals.

1.805 SIEBERT STAKES

RTA ENVIRONMENTAL ISSUES AND MANOEUVRE DISCIPLINE

OFF-LIMITS AREAS:

1. **Wetlands:** Wetlands will not be traversed by any vehicles unless at an engineered ford. A minimum buffer of 30 meters of natural vegetation will be maintained along the shorelines of water bodies, wetlands and streams. See the GeoCell Implan folder (M:\Units\3ASG\EngrBr\GeoCell\Implan) for Wetland Locations. Contact the Environmental Service Branch for activities in these areas.
2. **Cultural/Historical Areas:** While training at Camp Gagetown, the most common cultural and historical sites you will encounter are the numerous cemeteries. All cemeteries are strictly **off-limits**. No training is allowed within 60m of cemeteries. Exercise special care when travelling on or crossing cemetery access roads as the public also utilizes these roads. It is against regulations to disrupt, vandalize or enter cemeteries. Collection of artefacts is prohibited and is to be reported to Range Control.
3. **Seibert Stakes:** In an effort to aid military personnel in identifying sensitive environments or ecological areas within the RTA, Seibert Stakes have been placed around the perimeter of ecological sensitive or avoidance areas. The stake is used to identify Avoidance Areas such as wetlands, decommissioned fords, and ecologically sensitive areas. When you approach an Avoidance Area, Seibert Stakes will appear with no white stripe visible (Figure 1a). Simply follow the stakes around or through the avoidance area. However, if ever you are in an Avoidance Area, Seibert Stakes will appear with a white stripe through the reflective tape (Figure 1b).

Immediately:

- a. Stop your vehicle(s)
- b. Dismount and Assess Situation and Damage to Avoidance Area.
- c. Notify Range Control
- d. Exit the location the way you came in

Figure 1a: Front view of a Seibert Stake



Figure 1b: Rear view of a Seibert Stake



Failure to report an accidental entry into an Avoidance Area to Range Control will/could result in Disciplinary Action against the individual(s) and Unit

1.806 POL SPILLS

1. Under no circumstances will POL products be disposed of within the training area in accordance with SO 10.4.2.
2. Accidental spills of POL products will be dealt with in accordance with SO 10.4.4.

The unit is then responsible for the following:

- a. remove by whatever means available, preferably by digging out the contaminated soil and placing in a suitable container;
- b. dispose of the container's content at the Shirley Road Landfill Site (Bioremediation Pad). The key to access the Bioremediation Pad can be signed out at Range Control; and
- c. all such spills, regardless of size, will be reported immediately to Range Control.

1.807 HAZARDOUS MATERIAL EMERGENCY RESPONSE PROCEDURES

1. Spills of hazardous materials, in the training area must be acted upon and cleaned up as soon as possible after detection. In an emergency or clean up situation, an assessment should first be made of all possible hazards associated with actions to be taken by the Camp Fire Hall and/or the 5 Canadian Division Support Base Emergency Response Duty Personnel.
2. In the event of a spill, the unit or sub-unit involved will do the following:
 - a. take all safety and physical measures to limit further injuries, damages or the extent of the spill;
 - b. report directly by radio or any other means to Range Control the following details:
 - (1) location of spill;
 - (2) description of spilled material;
 - (3) time of spill;
 - (4) potential threat;
 - (5) OIC name and unit involved;
 - (6) actions taken; and

- (7) a contact number for pers at the spill site (if possible)
- c. provide a SITREP to Range Control or the 5Canadian Division Support Base Emergency Response Duty Personnel every hour after initial call or sooner if required;
- d. the formation, unit or sub-unit involved is responsible to provide the resources necessary within it's capability to support the Camp Fire Hall and/or the 5Canadian Division Support Base Emergency Response Duty Personnel in their attempt to conduct a cleanup operation (includes containment, clean up and site restoration);
- e. upon containment of the hazardous spill the unit responsible for the spill shall complete and submit a spill report on DND's Spillnet Database within 24 hr for spills over 10 l or within 12 hr for spills over 100 l. Contact the 5 Canadian Division Support Base Env O for access to Spillnet.

1.808 HAZARDOUS MATERIALS STORAGE, HANDLING AND DISPOSAL REQUIREMENTS IN THE TRAINING AREA

1. SITING

- a. Provide for one major POL point per bivouac and keep the number of minor POL points to a minimum. All POL points are to be located on flat terrain;
- b. Each POL point is to be located, at a minimum distance of 30 meters from a watercourse, wetland or other waterbody, 15 meters from a tent, and 3 meters from a road;
- c. Each POL point is to be arranged in such a way that leaks or spills can be contained. Secondary containers, retention basins, absorbent membranes or synthetic berms must be used for this purpose;
- d. Each POL point is to be visible and clearly identified (posted notices, fluorescent tape on posts, etc). Emergency spill kits are to be available in the vicinity of the POL point; and
- e. No POL point is to be prepared by excavating soil (dug in) to create a retention basin.

2. STORAGE

- a. Only the quantities of POL necessary for the exercise are to be stored on the training site;
- b. MSDSs are to be available in the field for products stored, and the instructions on the MSDS are to be followed;
- c. Incompatible products are to be identified and stored separately;
- d. When the POL point is used for storing containers whose individual capacity exceeds 225 litres, the capacity of the retention basin is to be at least 110% of the capacity of the largest container stored. Spill Response Equipment must allow recovery of the contents in the event of a leak or spill;
- e. The emergency response spill kits located in facilities/vehicles are to be hydrophobic absorbent equipment;
- f. Retention basins of the "Insta-Berm" type are to be drained when rainwater accumulates. If there has been a spill inside the berm, hydrophobic absorbent material will be passed over the surface of the water to remove the oily film (instead of filtering the water through the bleeder valve). Once all free product has been removed from the surface, the accumulated rain water can be drained off; and
- g. A separate storage site will be prepared for all haz-waste.

3. HANDLING AND TRANSPORTATION

- a. each refuelling and transfer operation is to be carried out IAW SO 10.4.2 and RSOs taking care to contain spillage;
- b. emergency response spill kits are to be available on board refuelling vehicles;
- c. refuelling and transfer operations (FARS) are to be carried out on flat ground and more than 100 meters from a watercourse or wetland;
- d. night refuelling, other than during tactical exercises, will be avoided as much as possible. Areas used for this type of exercise will be inspected the next morning to check for any trace of spills. Appropriate actions will be taken. All night refuelling will be conducted more than 100m from a watercourse or wetland or sensitive environmental receptor to allow for response in the daylight hours;
- e. fording by fuel trucks is prohibited, given the potential risk of contamination from an accidental spill in an aquatic environment; and
- f. drivers assigned to transport POL and/or HazMat must be TDG qualified.

4. EQUIPMENT MANAGEMENT

- a. When drivers take possession of a vehicle, they shall carry out a pre-operation inspection of the vehicle as stated in C-02-040-010/MB-001, Ch 2, Driver's Routine. Any leak will be immediately reported. When a vehicle will be parked for a prolonged period of time, the same type of inspection will be done. These inspections are most important during field exercises when damage is more likely to occur;
- b. All units will use vehicle flex drip pads and generator flex drip pads in the RTA effective 01 April 2005. Vehicle drip pads will be placed under vehicles, all portable generators or any other equipment likely to contaminate the soil through a POL leak. Trailer mounted generators with spill containment built in, are exempt. Leaks from equipment are to be repaired as soon as possible; and
- c. Stainless and plastic drip pans that can accumulate rain water are prohibited from use in the RTA.

5. DISPOSAL

- a. Base units will remove haz-waste within 48 hrs Endex to the 5 CDSB Haz-Waste Depot, Bldg. B-59, local 4385; and
- b. Visiting units will arrange for a contractor to pick up Haz-Waste at their location by contacting the 5 CDSB Haz-Waste Depot at local 4385.

1.809 CAT SANITATION

1. IAW B-GL 381-002 (Range Construction and Maintenance) - CAT sanitation is prohibited in all CAF RTA. Human waste shall be collected and managed through the use of permanent or portable latrines. All training and construction project planning shall consider this requirement to ensure due-diligence is exercised to provide latrine facilities.

1.810 GARBAGE DISPOSAL

1. Garbage will be disposed of only in approved dumpsters. Any person(s) or unit found responsible for improper disposal will be accountable to the Commander 5 CDSB. Under no circumstances will garbage of any type be buried within the training area.

1.811 CHEMICAL TOILETS

1. Civilian contractor empties them as required/arrangements made beforehand by unit needing services through CE contracts. Cleanliness is the responsibility of the unit involved. Chemical toilets will replace all

requirements previously satisfied by construction of latrines. Therefore, these must be pre-arranged as part of activity preliminary planning. Coordination with Ops Svcs Br Ops O for visiting units.

1.812 DISPOSAL OF HUMAN WASTE

1. Commode, disposal, human waste – the waste bags can be disposed of thru normal garbage system as follows:

- a. must be double bagged no more than 10 per bag;
- b. garbage bag must be sealed;
- c. disposed of in a hydraulic emptied dumpster; and
- d. must be disposed of immediately after exercise and are never stored indoors

1.813 WILDLIFE

1. Wildlife is strictly protected and will not be deliberately harmed nor interfered with in any manner.
2. Bears, particularly, and any other form of wildlife will not be fed. Wildlife that may cause danger to personnel shall be reported to Range Control.
3. Hunting and fishing, within season, by licensed hunters and fishermen, within the provincial game regulations, is permitted. Passes must be given through Range Control.
4. In addition to Federal and Provincial regulations, 5 Canadian Division Support Base Recreational use regulations will be strictly adhered to. Avoidance of any Camp or other regulation will result in denial of access to the Ranges and Training Area for future recreational or other activities for a specified period.
5. Beaver dams are commonplace throughout the training area, and often result in road washouts. Dams are **not** to be disturbed or breached but will be reported to Range Control if they are impeding training.

1.814 TREE CUTTING

1. Limited tree cutting and brush cutting is permitted throughout the training area. However, cutting of trees for the purpose of camouflaging static vehicle locations such as hides is not permitted. Branches and brush cutting for vehicle camouflage will be restricted to specific designated areas by Range Control. Cutting of foliage for personal camouflage or to conceal tactical dismounted positions may take place but trees of greater than 2 inches diameter at the base may not be cut. Alders of any size may be cut. No cutting of vegetation within the 30 meters buffer of watercourse or wetlands. **The use of cam net is recommended.**
2. Should user units request to cut a large numbers of trees particularly otherwise marketable timber, Range Control approval is required.

1.815 SPECIES AT RISK (SAR)

1. SAR may be found throughout the RTA. SAR must be considered during the EA process – contact the Environmental Service Branch for information.

1.816 CRATERING

1. All cratering activities require review from environmental staff. Proposed cratering locations have to be submitted to Range Control before they are submitted to Environmental Staff. Before and after photos must be supplied to Range control indicating the repaired condition of the road after the exercise is completed. The road must be repaired with material that is equivalent or better in its integrity.

1.817 U ENV O RESPONSIBILITIES

1. Of the responsibilities of the U Env O, inspection of the facilities and training areas used by his/her unit is particularly important. The U Env O can thus ensure that all environmental protection measures necessary for compliance with legislation have been applied.

1.818 Aquatic Invasive Species

1. It is prohibited under the Fisheries Act to intentionally or accidentally introduce an aquatic species to a body of water where it is not indigenous. Introduced species can alter natural ecosystems, introduce diseases, prey on or compete with the native species. To prevent the accidental introduction of an aquatic species, implement the following procedures prior to moving from one waterbody to another:

- a. Inspect and remove all visible aquatic animals, plants and mud from watercraft, motors and trailers;
- b. Drain all water from watercraft including the bilge, motor and live well;
- c. Wash watercraft with high pressure or hot water, or allow to dry for 5 days;
- d. All visible mussels, plant material, soil should be removed from boats/equipment prior to transferring to another waterbody;
- e. Inspect, clean and dry all equipment, diving gear and personal gear used in the water; and
- f. Never release plants, fish or other animals into a body of water unless they came out of that water.

Note: Swan Creek Lake and the lower Oromocto River are considered part of the Saint John River so the procedure is not required to be implemented when moving between these three waterbodies.

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SECTION 9 – MANOEUVRE DAMAGE CONTROL

1. 901 GENERAL

1. The aim of this RSO is to provide users with information on the policies of Manoeuvre Damage Control (MDC). These policies apply to all user units or individual soldiers conducting training within the RTA. The goal of the MDC is to sustain training areas and comply with all environmental laws, regulations, including 5 Canadian Division Support Base Standing Orders (SO 5-11). The MDC policies are designed to compliment all other regulations found within these Range Standing Orders. The MDC's objective is to integrate realistic military activities with environmental compliance to ensure maximum utilization of the RTA.

2. The MDC policy is comprised of these essential elements:

- a. Education;
- b. Prevention;
- c. Reporting;
- d. Repairing; and
- e. Tracking.

3. Extensive historical manoeuvres have resulted in environmental damage. The RTA environment includes natural elements such as soils, water resources, and vegetation. Commanders at all levels must enforce "due diligence" in ensuring that damage is kept to a minimum.

4. Environmental damage can result in:

- a. Increased training area maintenance cost;
- b. Further restrictions in the allotment of training areas;
- c. Restrictions on our abilities to provide suitable training areas for realistic training; and
- d. Loss of vegetation, wildlife, and the pollution of air and water resources.

1.902 TRAINING AND PREVENTION

1. Education and training must be designed to foster an environmentally conscious mindset and will focus on individual and unit responsibilities. Although dated and under revision, all visiting units are required to view the video "5 CDSB Environmental Awareness" on RTA environment and maneuver damage before deployment. Schools and lodger units will view this video as part of their annual familiarization/refresher training.

2. The briefings and videos will focus on preventive measures that units can take to preclude unnecessary manoeuver damage. Unit training will focus on the following:

- a. Proper driving techniques;
- b. Excavation/Digging requirements;

- c. Hazmat and Spill Response Procedures;
- d. Siebert stakes;
- e. Out of bound areas;
- f. Environmental policies;
- g. Water crossing;
- h. Trash handling;
- i. Pest Control;
- j. Use of Vegetation for Camouflage; and
- k. Cratering.

3. In preparation for major exercises Range Control will coordinate briefings from the Env O, and the IC Range Maintenance for the MDCT. These briefings will update the MDCT on current conditions and restrictions, including road and training area closures.

4. A Soldier's Field Card will also be available to all troops training within the 5 Canadian Division Support Base RTA. The Soldier's Card has initial information on environmental and safety issues. It also provides a list of contact numbers.

1.903 MANOEUVRE DAMAGE CONTROL SYSTEM

1. The Manoeuvre Damage Control System (MDCS) indicates the limitations for cross-country manoeuvres and is assigned through a Trafficability Model (TM). Note that this system is currently being refined and Range Control will advise on trafficability until the system is functional. The Met O will produce a forecast of the TM for all major deployments within the RTA. Table 1 indicates the associated condition codes that are assigned by Commander 5 Canadian Division Support Group.

Table 1

Condition Green	Condition Amber	Condition Red
Terrain will support realistic manoeuvres and has unrestricted cross-country movement of all types of vehicles.	Soil is partially saturated. Limited cross-country manoeuvres are permitted in local areas based on judgment of local Unit Commander.	Soft and saturated soil conditions. Cross-country manoeuvres will cause extensive damage. Require Commander 5 Canadian Division Support Group approval.
<ul style="list-style-type: none"> 1. Vehicles shall remain on existing trails and routes, except when it is necessary to conduct tactical manoeuvres. 2. Training in 'Off Limit Areas' is prohibited. 3. Do not violate 'Roads Closed' signed areas. 4. Avoid fishtailing. 5. Sharp turns in low gear only. 	<ul style="list-style-type: none"> 1. Over and above restrictions of Condition Green. 2. Remove accumulated mud from road crossing points. 	<ul style="list-style-type: none"> 1. All vehicles stay on well-drained roads. 2. Tracked vehicles and AVGP remain in column. 3. Vehicles within bivouac sites to remain on roads or hardened parking spots.

6. Move on and off roads gradually at indicated sites.		
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1.904 MANOEUVRE DAMAGE CONTROL TEAMS

1. Dismounted troop manoeuvres normally do not cause extensive environmental damage. The movement of vehicles is a major source of manoeuvre damage to the environment. For the purpose of mitigating manoeuvre damage, training exercises or activities are categorized as either routine or major. Routine training is described as collective training at Company level or below. Combat Team or above collective training is described as a major training activity or exercise. Major exercises will require the assignment of a Manoeuvre Damage Control Team (MDCT). The MDCT will not normally require additional personnel or equipment. The MDCT will consist of one NCO as the IC and enough personnel to achieve first line maintenance. Major courses, such as the Combat Team Commanders Course are considered a major activity and will require a MDCT. Brigade or higher-level training must assign a Manoeuvre Damage Control Officer (MDCO).

2. The IC of MDCT or the MDCO must liaise with Range Control at least 48 hrs in advance of the scheduled deployment. Range Control and the MDCT will inspect the proposed exercise area and establish the environmental conditions baseline of the assigned area.

3. The MDCT will establish and maintain a manoeuvre trace at Range Control. This trace will include the proposed exercise activities. On a daily basis it will be updated by the MDCT to portray the actual activities that have occurred, such as tactical vehicle manoeuvres, digging, cratering, abatis, etc.

4. The MDCT will report on a daily basis all damage that has occurred to Range Control. The Range Control maintenance team/patrolmen, in conjunction with MDCT, will determine if the damage is repairable at MDCT level or if 5 ESU support is required.

5. At the end of the exercise the MDCT will remain with Range Control until the area has been accepted as cleared in accordance with the Range Clearance Certificate (RCC). The IC Range Operations will compile a list of outstanding damage. The RCO will make recommendations to the CO Ops Svcs Br on the required remedial actions. Remedial action will include cost monitoring of damage and recovery actions when necessary.

6. Routine exercises will appoint, as a minimum, one person who will report to Range Control to conduct the appropriate in and out clearance inspections and report all damage on the RCC.

1.905 MANOEUVRE DAMAGE

1. The intent is to repair damage as soon as possible to prevent further environmental stress such as erosion. The key to preventing or minimizing environmental damage is to be fully aware of the correct procedures to follow during various activities. Units must ensure that excavation/digging activities, such as tank ditches, vehicles, or individual fighting trenches, are backfilled in accordance with RSO Section 8 Para 1.803 before the unit or course is cleared from the training area. In addition to environmental damage, field activities can result in threats to wildlife through improper disposal of materials and the contamination of soils and waterways. Units will dispose of all trash and recover both communication and concertina wire from their assigned area.

1.906 TRACKING

1. Range Control will contribute to the maintenance of a manoeuvre damage database and monitor range usage to include; planned activities, vehicles and types, number of personnel, ammunition/weapon types, UXO, and manoeuvre damage. Most of this data will come from CFRIS.

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5 CANADIAN DIVISION SUPPORT BASE – RANGE STANDING ORDERS
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C/S	APPOINTMENT	C/S	APPOINTMENT	C/S	APPOINTMENT
HQ		TECH SVCS BR		RANGE CONTROL	
99	Comd 5 CDSB	90	5 CDSB TSO	8	RCO
99A	COS 5 CDSB	90A – D	Tpt Coy	8A	Range Ops
99B	CO Ops Svcs Br	90E – I	Sup Coy	8B	Range Safety
99C-Z	Spares	90J – N	Maint Coy	8C	Bookings
				8D	Rge Maintenance
		90O – T	ASA Staff	8E	EOD
9	Comd CTC	90U	Sigs Maint	81A-D to 86A-D	Patrols
9A	COS CTC	90V - Z	Spares	8O	Admin
9B	G3 CTC			8P	Tpt
9C-Z	Spares			8Q	QM
		MET SECTION		8R,S,U,W	Spares
		92	Met CP	8T	Tgt Team
		92A-C	Met Station	8V	Forestry
				8Z1	Div RTAMO
				8Z2	RTAD O
				8Z3	RTAD O 2IC
ARMED SCH					
RHQ		B Sqn		C Sqn	
19	Cmdt	12	OC B	16	OC C
19A	CI	12A	2IC	16A	2IC C
19B	Ops O	12B	BC B	16B	CP
19C	RSM	12C	SSM B	16C	SSM C
19D	Trg O	12D	1 TP	16D	AO
19E	Trg Coord	12E	2 TP	16E	1 Tp Ldr
		12F	3 TP	16F	2 Tp Ldr
		12G	4 TP		
		12H	PRes Tp		
A Sqn					
11	OC A	11I	ARPC	11R	LEO D&M
11A	2IC A	11J	Tank Tp Comd	11S	Coyote D&M
11B	BC A	11K	Tank CC	11T	DP1 Crewman
11C	SSM A	11L	PRes ACC	11U	Crewman D&M
11D	DP4 SSM	11M	PRes ARTL Mod 1	11V	Crewman SURV
11E	DP3 TP WO	11N	PRes ARTL Mod 2	11W-Z	Spares
11F	ACC	11O	PRes ARPC		
11G	ARTL Mod 2	11P	PRes Tp WO		
11H	ARTL Mod 1	11Q	Spares		
ARTY SCH					
HQ Bty		67 Bty		45 Bty	
29	Cmdt	20	SI Fd	21	SI LOC
29A	D/Cmdt	20C	SMIG Fd	21C	SMIG LOC
28	CIG	20A	IG Crse	21A	IG LOC Crse
28A	Adjt	20B	BC Crse	21B	STA Tech
28B	CSO	20D	AIG Crse	21D	STA TC
28C	Trg O	20E	GA TSM	21E	STA TSM
28D	BC HQ	20F-G	DP 1.1 Officer	21F	AWLS Det Comd
28E	BK HQ	20H-K	DP 1.2 Officer	21G	MUAV
28H	BSM HQ	20M	GATS	21H	SUAV
28J- Z	Spares	20N-Z	Spares	22A-B	FOO Crse
				22C-D	OP Det Comd
				22K	FAC SUP

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C/S	APPOINTMENT	C/S	APPOINTMENT	C/S	APPOINTMENT
ARTY SCH (Cont'd)					
Maint Cell		AD Cell		W Bty	
24N	CI Maint	24	SI AD	25	BC
24O	SI Maint	24C	SMIG AD	25A	BK
24Q	Maint Crse	24A	IG AD Crse	25H	BSM
DP 1 Cell		24B	BC Crse	25B-D	OPS
20S	Artymn SQ	24D	AD TEC Supervisor	25E-G	CP
20N	Artymn Fd	24E	AD TSM	25I-K	Dvr Crse
24P	Artymn AD	24K	DP 3 Det Comd	25L-M	Adv/Basic Tech Crse
		24F	ADATS Det 2IC	25N	Comms Crse
		24M	MANPADS	25O	FOO Tech Crse
		24R	TP Comd	25P-Z	Trials/Spares
		24T-Z	Spare		
INF SCH					
39	Cmdt	39B	Ops O/Trg O		
39A	CI	39C	RSM		
A Coy		B Coy		C Coy	
30	OC	31	OC	32	OC
30A	2IC	31A	2IC	32A	2IC
30B	CSM	31B	CSM	32B	CSM
30C - H	DP1.2	31C - H	DP1.1	32C - H	BMOQ-L
30 I - N	DP3B	31I - N	Adv Sniper/SDCC	32I - N	DP3 RSCC
30P - U	Adv Recce	31P- U	UOI	32P - U	DP2 ASA
30V - Z	Spares	31V- Z	Spares	32V- Z	Spares
SP Coy					
37	OC				
37A	2IC				
37B	CSM				
37C - N	TPT				
37P- Z	Demo Pl				

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C/S	APPOINTMENT	C/S	APPOINTMENT	C/S	APPOINTMENT
CFSME					
40	Cmdt	40C	SCWO	40F	OC STDS
40A	DCmdt	40D	OC FETS	40G	OC DTDS
40B	OPS O	40E	OC CAETS	40H	OC RETS
FETS		CAETS		RETS	
40AA - AD	QL 3	40BA - BD	QL 3	40CA - CD	QL 3
40AE - AH	QL 5	40BE - BH	QL 5	40CE - CH	QL 5
40AI - AJ	QL 6A	40BI - BJ	QL 6A	40CI - CJ	QL 6A
40AK - AN	QL 6B	40BK - BN	QL 6B	40CK - CN	QL 6B
T & E		TACTICS SCHOOL		MP	
41	CO	42	School	43	Base Station
41A	Armd	42A	Cmdt	43A-D	Roving Patrol
41B	Inf	42B	CI	43E-Z	Spares
41C	Arty	42C	C Sp		
41D	Engr	42D	Armd 1		
41E	Sigs	42E	Armd 2		
41G - Z	Spares	42F	Inf 1		
		42G	Inf 2		
		42H	Arty		
		42I	Engr		
		42J - Z	Spares		
SIGS SQN					
44	CO				
44A	DCO	44C	SSM	44F	Line Sgt
44B	Ops O	44D	CP	44G	CCO
		44E	LCF	44H - K	Rad Dets
				44L	RRB
4 ESR					
45A	CO	45 C	RSM	45E	Ops/Trg
45B	DCO	45 D	Sigs	45F	MCE
41 Sqn		42 Sqn		48 Sqn	
45G	OC	45R	OC	45AE	OC
45H	SSM	45S	SSM	45AF	SSM
45I - K	51 EHE TP	45T-V	21 AE TP	45AG	Maint Tp
45L	MCM TP	45W-Z	22 Fd TP	45AH	Log Tp
45M	61 RESS TP	45AA - AD	23 Fd TP	45AI	4 EET
45N	Divers				
45O - Q	74 Construction Tp				

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C/S	APPOINTMENT	C/S	APPOINTMENT	C/S	APPOINTMENT
CADETS					
46	HQ				
403 SQN					
H9	CO	H9A	DCO / CI	H9B	Ops O
47	Ground Station	47A - E	FAARP		
Wolf "XX"	Note: "XX" will denote the C/S as per 403 Sqn Flying Schedule)				
RESERVE UNITS					
48	Reserve Main	48I	37 Sig Regt (2 Sqn)	48S	2 NS(NB)R
48A	1 Fd Regt	48J	35 Svc Bn	48T	32 Svc Bn
48B	84 Indep Regt	48K	Med Coy	48U	PEIR
48C	PLF	48L	37 Sig Regt (8 Sqn)	48V	56 Fd Engr Sqn
48D	WNSR	48M	3 Fd Regt RCA	48W	1 RNFLDR
48E	1 NSH	48N	1 RNBR	48X	2 RNFLDR
48F	33 Svc Bn	48P	31 Svc Bn	48Y	1 Fd Engr Sqn
48G	CBH	48Q	HMCS	48Z	36 Svc Bn
48H	45 Fd Engr	48R	8 CH	48O	37 CER
AATC					
49	CO	49G	OC Arty		
49A	CI	49I	OC Inf		
49B	Trg O	49T	OC Armd		
49C	RSM				
ARMD		ARTY		INF	
49D		49L		49R	
49E		49M		49S	
49F		49N		49U	
49H		49O		49V	
49J		49P		49W	
49K		49Q		49X	
49Y - Z	Spares				
AREA ENGINEER					
59	Area Engr	51 A-Z	Field Crews		
58	OC CE Coy				
57	Reqr O				
56	Engr O				
55	Util O				
54	Envir O				

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C/S	APPOINTMENT	C/S	APPOINTMENT	C/S	APPOINTMENT
2 RCR					
HQ					
69	CO	69C	Adjt	69F	Sig O
69A	DCO	69D	RSM	69G	Sig WO
69B	Ops O	69E	Int O	60	CP
G COY		H COY		I COY	
61	CP	62	CP	63	CP
61A	OC	62A	OC	63A	OC
61B	2IC	62B	2IC	63B	2IC
61C	CSM	62C	CSM	63C	CSM
61D	CQMS	62D	CQMS	63D	CQMS
61E	1 PI	62E	4 PI	63E	7 PI
61F	2 PI	62F	5 PI	63F	8 PI
61G	3 PI	62G	6 PI	63G	9 PI
I COY		K COY		L COY	
64	CP	65	CP	66	CP
64A	OC	65A	OC	66A	OC
64B	2IC	65B	2IC	66B	2IC
64C	CSM	65C	CSM	66C	CSM
64D	CQMS	65D	CQMS	66D	CQMS
64E	10 PI	RECCE PL		66E	QM
64F	11 PI	65E	CP / RECCE	66F	Med Offr
64G	12 PI	65F	OC	66G - K	Ambs
		65G	2IC	66L	TN O
		65H	CQMS	66M	TN WO
		65I	Det Trg	66N	Maint O
		SNIPER		66O	Maint WO
		65J	CP	66P - T	Rec Veh/MRTs
		65K	OC		
		SIM CENTRE			
		65L	CP		
		65M	OC		
		AAP PL			
		65N	CP		
		65O	2IC		
		65P	OC		
TQ 4					
DVR LAV		COMMS		INF SECT COMD	
67A	CP	67I	CP	67S	CP
67B	OIC	67J	OIC	67T	OIC
67C	CQMS	67K	CQMS	67U	CQMS
67D	Spare	67L – N	Spare	67V	Spare
DVR WHEELED		MG			
67E	CP	67O	CP		
67F	OIC	67P	OIC		
67G	CQMS	67Q	CQMS		
67H	Spare	67R	Spare		

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STATIC RANGES						
C/S	RANGE	GRID		C/S	RANGE	GRID
1A	VIMY	973 737		2A – B	FAST WATER SITE	975 816
1B	AMIENS	986 772		2C – D	STILL WATER SITE	105 800
1C	MONS	972 749		2E	AUSTERE VILLAGE	096 793
1E	REICHWALD	984 772		2F	DRY MINE WARFARE	095 796
1F	BATOUCHE	981 725		2G	AIRSTRIIP 1	103 788
1G	WELLINGTON	005 775		2H	DRUMMOND DML	050 652
1H	VERDUN GRENADE			2I	SMALL CHARGE	050 634
1L	FIRING POINT 4	042 789		2J	SOUTH BOUNDRY DML	119 645
1N	FIRING POINT 6	061 792		2K	COURCELETTE URBAN OPS	009 791
1O	CQBL's X 8 (DRUMMOND) GR 010 704 – 038 643			2L	COURCELETTE MOLOTOV COCKTAIL	009 789
1Q	COY DEF POSN	004 722				
1R	TOW TRACKING	032 791				
1S	SHERIFF LAKE	122 624				
1T	MARNE RIFLE GRENADE	002 768				
1U	ARDENNES 50M	973 755				
1V	FLANDERS 50M	973 756				
1W	SOMME 50M	974 758				

TRAINING AREA TELEPHONES

Training area telephones are located throughout the training area as shown on the map. You cannot receive a call on these telephones. To call from a training area telephone, pick-up the receiver and dial the number required.

<u>Number</u>	<u>GRID</u>	<u>REFERENCE</u>
1	981 721	LAUVINA WOOD (ENTRANCE ROAD)
2	037 660	ROCKWELL IMPACT
3	078 575	DRUMMOND ROAD
4	043 498	PETERSVILLE
5	959 473	GATE 42
6	067 452	GATE 39
7	096 452	LYONS BRIDGE
8	159 463	OLINVILLE BIV
9	098 498	COOTES BIV
10	153 508	HAMPSTEAD RD
11	123 549	DUNNS CORNER
12	141 579	SUMMER HILL
13	213 580	HIBERNIA CORNER
14	140 652	SOUTH BOUNDARY RD
15	170 698	LAWFIELD
16	115 790	HERSEY CORNER
17	022 793	NORTH HAMILTON/SHIRLEY RD

PERMANENT BARRIER LOCATIONS (GATES)

<u>NUMBER</u>	<u>LOCATION</u>	<u>NUMBER</u>	<u>LOCATION</u>	<u>NUMBER</u>	<u>LOCATION</u>
1	986 773	18	127 633	37	004 557
2	987 773	19	121 635	38	040 495
3	993 771	19A	087 632	39	067 452
4	005 779	20	050 629	40	071 434
5	006 779	21	046 658	41	978 431
6	032 793	22	046 659	42	958 471
7	041 793	23	021 691	43	913 532
8	057 803	24	992 709	44	899 559
9	082 793	25	000 720	45	897 579
9B	105 795	26	980 722	46	904 587
9C	106 795	27	973 737	47	910 605
10	107 775	27A	973 753	48	939 667
10A	149 733	28	972 749	49	975 813
10B	163 717	29	973 725	50	006 822
11	162 696	30	Nil	51	183 721
12	160 687	31	964 649	52	198 651
13	143 673	32	967 640	53	222 585
14	140 653	33	Nil	53A	237 530
15	213 499	34	996 578	54	200 435
16	217 454	35	999 571		
17	204 481	36	999 570		

LOCATION OF BUILDINGS

BUILDING NO.	DESCRIPTION	LOCATION
A1-1	Command Bunker	Argus Impact
A1-2	Target Mech Storage Facility	Argus Impact
AR-1	Tower/Troop	Amiens Range
AS1-1	Airfield Building	Airstrip No 1
AS1-2	Regulator Building	Airstrip No 1
AS1-3	Pump House	Airstrip No 1
AS1-4	Troop Shelter	Airstrip No 1
AS1-544	Storage Shed	Airstrip No 1
AV-1	Garage (Commercial)	Austere Village
AV-10	One Storey House	Austere Village
AV-11	Two Storey House w/Basement	Austere Village
AV-12	Two storey House – att Garage	Austere Village
AV-2	Garage (Residential)	Austere Village
AV-3	Two Storey House	Austere Village
AV-4	Two Storey House w/o Basement	Austere Village
AV-5	Store/Apartment	Austere Village
AV-6	Two Storey Comm Apartment	Austere Village
AV-7	Two Storey House w/Basement	Austere Village
AV-8	Two Storey Town House	Austere Village
AV-9	Church	Austere Village
BM-12	Hose Reel Storage	Blue Mountain
BM-13	Sewage Treatment Plant	Blue Mountain
BM-14	Gate House	Blue Mountain
BM-16	Comms Shelter	Blue Mountain
BM-4	Kitchen and Mess Hall	Blue Mountain
BM-5	Dormitory Building	Blue Mountain
BM-531	Storage Shed	Blue Mountain
BM-7	Pump House	Blue Mountain
BT-3	Forestry Tower (Dismantled in 2015)	Browntown
BV-1	Well Pump House	Blissville Airstrip
CR-1	Tower	Verdun Range
D-1	Troop Shelter (number TBI by RP Ops)	Drummond Demolition Range
DDT-1	Troop Shelter	Inf Dry Trg Area
EN-2	Troop Shelter (built 2003)	Eniskillen Area Gr 9969 4835
FH-1	Forestry Tower (Dismantled in 2015)	Finnigan Hill
GL-1	Storage Shed	George Lake
H1-1	Bunker 1	Hersey Impact
H1-2	Bunker 2	Hersey Impact
HG-2	Troop Shelter	Grenade Range
HG-3	Control Tower	Grenade Range
HG-4	Latrine (Field)	Grenade Range
HG-539	Storage Building	Grenade Range
HI-3	Shack	Hersey Impact
L1-1	Range Fire Fighting Shelter	Lawfield Impact Area
L1-2	Observation Shelter	Lawfield Impact Area
LF-2	Control Building	Landfill Area
LV-6	Storage Shed	Lindsay Valley
LV-9	Lindsay Valley Lodge	Lindsay Valley
LW-2	Pump House	Heavy Equip Trg
LW-3	Maintenance Building	Heavy Equip Trg

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BUILDING NO.	DESCRIPTION	LOCATION
LW-4	Training Building	Heavy Equip Trg
LW-5	Winter Storage Building	Heavy Equip Trg
LW-6	Winter Storage Shelter	Heavy Equip Trg
LW-9141	POL Shed	Heavy Equip Trg
MA-11	Ammunition Storage	ASA Compound
MA-12	Ammunition Storage	ASA Compound
MA-17	Pump House	ASA Compound
MA-18	Ammunition Storage	ASA Compound
MA-19	Ammunition Storage	ASA Compound
MA-20	Ammunition Storage	ASA Compound
MA-21	Ammo Compound Garage	ASA Compound
MA-22	Control & Transit Building	ASA Compound
MA-23	Administration Building	ASA Compound
MA-24	Hydrant Hose House	ASA Compound
MA-25	Hydrant Hose House	ASA Compound
MA-26	Hydrant Hose House	ASA Compound
MA-27	Hydrant Hose House	ASA Compound
MA-28	Hydrant Hose House	ASA Compound
MA-29	Hydrant Hose House	ASA Compound
MA-3	Unit Magazine	ASA Compound
MA-30	Hydrant Hose House	ASA Compound
MA-31	Hydrant Hose House	ASA Compound
MA-32	Hydrant Hose House	ASA Compound
MA-33	Hydrant Hose House	ASA Compound
MA-34	Hydrant Hose House	ASA Compound
MA-35	Hydrant Hose House	ASA Compound
MA-36	Salvage Building	ASA Compound
MA-37	Water Reservoir	ASA Compound
MA-39	Ammo Furnace Building	ASA Compound
MA-4	Unit Magazine	ASA Compound
MA-40	Auxiliary Power Unit	ASA Compound
MA-41	Furnace Storage Building	ASA Compound
MA-42	Ammunition Storage	ASA Compound
MA-43	Ammunition Storage	ASA Compound
MA-44	Ammunition Storage	ASA Compound
MA-45	Hydrant Hose House	ASA Compound
MA-46	Hydrant Hose House	ASA Compound
MA-47	Hydrant Hose House	ASA Compound
MA-48	Hydrant Hose House	ASA Compound
MA-5	Unit Magazine	ASA Compound
MA-9110	POL Shed/Sprung Shelter/Smoking Shed	ASA Compound
MM-1	Troop Shelter	Hersey-Steel Cut Range
MM-3	Concrete View Bunker	Hersey-Steel Cut Range
MMT-1	Troop Shelter/Control Building	Dieppe Range
MR-1	Target Storage Building	Mons Range
MR-2	Troop Shelter	Mons Range
PC-100	Lecture Training Building – Trailer	Petersville
PC-101	Dormitory	Petersville
PC-102	Dormitory	Petersville
PC-103	Dormitory	Petersville
PC-104	Dormitory	Petersville
PC-105	Command Post	Petersville

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BUILDING NO.	DESCRIPTION	LOCATION
PC-107 / 108	Mess Hall / Dining Facility (adjoined)	Petersville
PC-19	Well Pump House	Petersville
PC-22	Well Pump House (Loc Pattern)	Petersville
PC-23	Officers Ablutions	Petersville
PC-25	Men's Ablutions	Petersville
PC-27	Hose Reel Shed	Petersville
PC-28	Hose Reel Shed	Petersville
PC-29	Elect Distribution Hut No 1	Petersville
PC-30	Elect Distribution Hut No 2	Petersville
PC-31	Elect Distribution Hut No 3	Petersville
PC-316	Ablution Building	Petersville
PC-317	Tank Maintenance (SIS)	Grid 0463 5017
PC-33	500 Man Kitchen	Petersville
PC-35	Drill Hall-Sis	Petersville
PC-37	General Storage Shed	Petersville
PC-41	POL Shed	Petersville
PC-42	Gate House	Petersville
PC-43	Barrack Block 64 Man	Petersville
PC-44	Barrack Block 64 Man	Petersville
PC-45	Terminal Building (PX Building)	Petersville
PC-47	Caretakers Storage Shed	Petersville
PC-48	Well Pump House	Petersville
PC-53	Range Fire Fighting Shelter	Petersville
PC-54	Storage Shed	Petersville
PC-55	Storage Shed	Petersville
PC-56	Target Mech Storage Facility	Petersville
PC-57	Radio Equip Building	Petersville
PC-58	Comms Shed	Petersville
PC-9109	POL Shed	Petersville
PC-9137	POL Shed	Petersville
RI-1	Observation Post	Rockwell Impact Area
RI-10	Concrete Viewing Bunker	Rockwell Impact Area
RI-11	Sentry Hut – CFSME	Rockwell Impact Area
RI-12	Inflam Building CFSME	Rockwell Impact Area
RI-13	Blast Shelter – CFSME	Rockwell Impact Area
RI-14	Charge Prep Building – CFSME	Rockwell Impact Area
RI-15	Ammo Day Storage Shelter – CFSME	Rockwell Impact Area
RI-16	Charge Prep Building – CFSME	Rockwell Impact Area
RI-17	Sentry Hut – CFSME	Rockwell Impact Area
RI-18	Personnel Rain Shelter – CFSME	Rockwell Impact Area
RI-19	Ammo Storage – CFSME	Rockwell Impact Area
RI-2	Latrine	Rockwell Impact Area
RI-20	Charge Prep Building – CFSME	Rockwell Impact Area
RI-3	Troop Shelter #1	Rockwell Impact Area
RI-323	Admin Building	Rockwell Impact
RI-4	Latrine-Troop Shelter #1	Rockwell Impact Area
RI-5	Troop Shelter #2	Rockwell Impact Area
RI-6	Latrine Troop Shelter #2	Rockwell Impact Area
RI-7	Troop Shelter #3 – FP1	Rockwell Impact Area
RI-8	Latrine Troop Shelter #3	Rockwell Impact Area
RI-9	Danger Close Bunker	Rockwell Impact Area
RR-12	Troop Shelter	Batouche Range

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BUILDING NO.	DESCRIPTION	LOCATION
RR-14	Target Storage Building	Batouche Range
RR-7	Target Storage Bldg	Amiens Classification Range
RR-8	Administration	Batouche Range
RWR-1	Tower Troop	Reichwald Range
SW-1	Pontoon Storage Building	Swan Lake
SW-10	Boathouse-CFSME	Swan Lake
SW-2	Latrine	Swan Lake
SW-4	Storage Building	Swan Lake
SW-5	Storage Building	Swan Lake
SW-558	Shed	Swan Lake
SW-6	Minefield TRG Building-CFSME	Swan Lake
SW-7	Bridging Stores-CFSME	Swan Lake
SW-8	BRWR TRG Building-CFSME	Swan Lake
SW-9	RPU Storage-CFSME	Swan Lake
T-1	Troop Shelter-TS-1	Airstrip #2
T-11	Command Post-CP-8	Hersey Impact Site
T-2	Troop Shelter-TS-2	Airstrip #3
T-20	Telcom Terminal Shelter	Armstrong Corner
T-22	AFV/SMP Driver Training Shelter	
T-23	Troop Shelter	Argus OP
T-24	Troop Shelter	Tank Battle Range
T-3	Troop Shelter-TS-3	Lawfield Stands
T-4	Troop Shelter	14.5mm Range
T-7	Command Post-CP-4	Firing Point #6
TA-1	Aircraft Hangar	Tower Airfield
TA-305	Atco Trailer	Tower Airfield
TA-326	ATCO Trailer	Tower Airfield
TA-328	ATCO Trailer	Tower Airfield
TB-11	Control Post – FP5	Tank Battle Range
TB-15	Sign Shelter – FP4	Tank Battle Range
TB-16	Gate House – FP4 & 5	Tank Battle Range
TB-17	Troop Shelter – FP 4	Tank Battle Range
TB-18	Troop Shelter – FP5	Tank Battle Range
TB-19	Storage Building – FP4	Tank Battle Range
TB-21	Target Mech Storage Facility	Tank Battle Range
TB-22	Tower (Main)	Tank Battle Range
TB-4	Firing Control Point – FP4	Tank Battle Range
TB-8	Troop Shelter – FP5	Tank Battle Range
TB-9	Firing Control Tower – FP4 & 5	Tank Battle Range
TF-1	Firing Control Post – FP1	Tank Formal Range
TF-10	Troop Shelter – FP1	Tank Formal Range
TF-2	Winch House – FP3	Tank Formal Range
VR-1	Target Storage Building	Vimy Classif'n Range
VR-2	Troop Shelter	Vimy Classif'n Range
W-1	Troop Shelter – (number TBC)	Wellington Range
WP-100	Dormitory	Worthington Park
WP-2	OPS – Prefab Hut	Worthington Park
WP-4	Tank Maint Building – Prefab	Worthington Park
WP-5	Latrine	Worthington Park
WP-8	Telcom Terminal Shelter	Worthington Park
WP-9	Tank Maintenance (SIS)	Worthington Park
WP-9108	POL Shed	Worthington Park

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BIVOUAC AREAS

SERIAL	BIVOUAC	LOCATION	REMARKS
1	BELL	090 501	MLBU (Shower and Laundry Area)
2	BLISSVILLE	917 532	Fd Amb, Helicopter Unit, Bn Size
3	CLARKE	195 576	Bn Size
4	CLONES	056 553	Bde HQ, 3 x Bn Size (LAN Drop)
5	COOTES	109 499	Bn Size (LAN Drop)
6	CORNER	207 555	Coy Size
7	ELDER JACKSON	155 474	2 X Major Units
8	ENNISKILLEN	983 477	2 Bns' Size
9	FOWLERS	095 422	Bn Size, MBLU Area
10	GEORGE	226 519	Bn Size, MBLU Area
11	GOANS	005 818	Bn Size
12	HEARST	139 466	3 x Major Units
13	HERSEY NORTH	115 794	Fd Ammo Point (LAN Drop)
14	HERSEY SOUTH	114 788	Bn Size
15	HIBERNIA	215 592	Bn Size (LAN Drop)
16	HOGAN	040 493	Bn Size
17	JERUSALEM	143 507	Bn Size
18	KELLY	208 603	Coy Size
19	LAWFIELD	172 700	Bn Size (Northeast of OP)
20	LITTLE SWAN	133 799	Bn Size
21	LYONS	111 457	Bn Size
22	MANOR	213 542	2 X Major Units
23	MURPHY	224 453	Bn Size
24	NEREPIS	123 456	Coy Size
25	OAK	180 719	Coy Size
26	OLINVILLE	165 465	2 X Major Units
27	PETERSVILLE	050 500	Bn Size
28	SPRINGBOK	161 524	Bn Size
29	WTP	106 523	

Note: Other areas besides those listed above may be suitable for Bivouacs, and they may be requested through Range Control.

CRITERIA FOR WEATHER ADVISORIES/WARNINGS

SERIAL	WEATHER ELEMENT	WEATHER ADVISORY	WEATHER WARNING
(a)	(b)	(c)	(d)
1	SURFACE WINDS (gusts or mean speed)	<u>30 to 45 Knots</u> Tentage must be secured. Wind may create dead-fall hazards.	<u>Greater than 45 Knots</u> Tentage must be well secured. Visibility restricted particularly when accompanied by rain. Dead-fall hazards likely. Risk of structural damage.
2	RAIN	<u>12mm (0.5 in) in six hours</u> Roads may become slippery; care in driving required. Damage to temporary shelters may occur.	<u>25mm (1 in) in 24 hours</u> G3 may close roads or impose weight restrictions based on advice from Range Control/CE. Radio communications may be affected.
3	FREEZING PRECIPITATION	<u>Not Issued</u>	<u>Significant (1 hr or more) freezing precipitation observed or forecast</u> Trafficability affected. G3 may close roads and bridges. G3 may order chains in Training Area. Structural damage possible.
4	SNOW	<u>3-13 cm (1-5 in) storm total</u> In combination with previous accumulation may result in activities being restricted until roads and positions are cleared. Visibility is limited especially when accompanied by winds.	<u>Greater than 13cm (5 in) storm total</u> Limited visibility. Winds will cause drifts resulting in blocked roads. Plowing will be required.
5	WINDCHILL	<u>1600-2300 watts/sq meter (approx equiv windchill temp of -30°C to -58°C)</u> Exposed flesh may freeze in as little as one minute. Protective clothing mandatory. Outdoor activity uncomfortable. Non-essential work curtailed.	<u>Greater than 2300 watts/sq meter (approx equiv windchill temp of greater than -58°C)</u> Extreme rates of cooling. Exposed flesh will freeze in less than one minute (approx 30 sec at 2700 w/sq m or -73°C equiv windchill temp). Only essential outdoor activity to be conducted. Work done in pairs. Serious danger of frost bite.

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6	THUNDERSTORM	Scattered thunderstorms likely over portions of Training Area	Widespread thunderstorm activity expected over the Range or a thunderstorm expected within 5 nautical miles of the Base proper May be accompanied by strong winds (serial 1), hail, heavy rain, and/or lightning. G3 may close roads and bridges or impose weight restrictions based on advice from Range Control/CE. Refuelling activities should be restricted; ASA to take appropriate precautions. Radio communications may be affected.
7	TORNADO	Not Issued	Tornado forecast or observed Definite life/property threat; vigilance is critical. Upon sighting, exit temporary structures and vehicles. Take shelter in basements or on lowest floor of permanent buildings under solid objects and away from windows. Barring proper shelter, odds of survival are increased by lying in a ditch. Protect your head.
8	HURRICANE	Not Issued	Warning issued when hurricane activity will affect local area As for serials 1 and 2
9	FIRE WEATHER INDEX	Not Issued Forest fire hazard is monitored and updated hourly to Range Control. See RSOs for more information.	Not Issued
10	HEAT STRESS	Not Issued	Wet Bulb Globe Temperature (WBGT) = 27°C Issued by the CTC Surgeon/preventative medicine. Training and work continues with caution and with reference to work/rest cycles and water intake as prescribed by the WBGT Index. Physical testing not allowed. PT may continue on voluntary basis.
<p>NOTE: The Range Weather Network regularly updates heat stress guidance information (WBGT Index) which is available through Range Control and the JMC. However, matters of Heat Stress are officially a CTC Surgeon responsibility. Contact CTC Surg Preventative Medicine and refer to DAOD 5021-2 and CFMO 40-02 for further information.</p>			

WINDCHILL FACTOR

NOTE: Windchill is measured regularly by the Range Weather Network during the cold weather season. It is updated routinely on a 24/7 basis and transmitted to Range Control. Range Control is responsible for further dissemination to units in the Area.

1. Windchill is a measure of the combined cooling effects of wind and temperature and is expressed as radiate heat loss in units of watts per square meter (w/sq m). An object will cool more rapidly under a windflow than under calm conditions. However, an object cannot cool below the ambient air temperature no matter what the windspeed may be. Furthermore, the actual impact of temperature and wind on an individual is dependent upon clothing, diet, mental state, race, degree of activity, etc. This makes windchill a somewhat subjective guide to hazardous conditions and this must be remembered by those who use it, especially when reported values are near the critical ones as listed in Annex A.

Examples of Windchill Factor (w/sq m)

700	Conditions considered comfortable when dressed for skiing.
1200	Conditions no longer pleasant for outdoor activities on overcast days.
1400	Conditions no longer pleasant for outdoor activities on sunny days.
1600	Freezing of exposed skin begins for most people depending on the degree of activity and the amount of sunshine.
2300	Conditions for outdoor travel such, as walking becomes dangerous. Exposed areas of the face freeze in less than one minute for the average person.
2700	Exposed fleshs will freeze within 30 seconds for the average person.

2. An associated term, windchill equivalent temperature, is also used to indicate hazardous conditions. The equivalent windchill temperature relates combinations of wind and temperature (and therefore heat loss) to an equivalent temperature and a standard reference windspeed (3 kts - equal to a leisurely walking pace). The equivalent windchill temperature, reported in units of degrees Celsius, has the advantage of being easier to relate to human experience than radiate heat loss (w/sq m). However, its primary disadvantage is that it is often confused with the real air temperature. For example, given a real air temperature of +2°C and a windchill equivalent temperature of -10°C, water will not freeze. A -10°C equivalent temperature simply means that an object will cool at a rate similar to that experienced at a real temperature of -10°C and calm winds.

APPENDIX 1
 TO ANNEX F
 TO VOLUME 1
 TO CFB GAGETOWN SO - RANGE STANDING ORDERS
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WIND SPEED		COOLING POWER OF WIND EXPRESSED AS "EQUIVALENT CHILL TEMPERATURE"																					
KNOT S	MPH	TEMPERATURE (CELSIUS)																					
CALM	CALM	4	2	-1	-4	-7	-10	-12	-15	-18	-21	-23	-26	-29	-31	-34	-37	-40	-43	-46	-48	-51	
		EQUIVALENT CHILL TEMPERATURE																					
3-6	5	-4	-1	-4	-7	-10	-12	-15	-18	-21	-23	-26	-29	-31	-34	-37	-40	-43	-46	-48	-51	-57	
7-10	10	-1	-7	-10	-12	-15	-18	-23	-26	-29	-31	-37	-40	-43	-46	-51	-54	-57	-59	-62	-68	-71	
11-15	15	-4	-10	-12	-18	-21	-23	-29	-31	-34	-40	-43	-46	-51	-54	-57	-62	-65	-68	-73	-76	-79	
16-19	20	-7	-12	-15	-18	-23	-26	-31	-34	-37	-43	-46	-51	-54	-59	-62	-65	-71	-73	-79	-82	-84	
20-23	25	-10	-12	-18	-21	-26	-29	-34	-37	-43	-46	-51	-54	-59	-62	-68	-71	-76	-79	-84	-87	-93	
24-28	30	-12	-15	-18	-23	-29	-31	-34	-40	-46	-48	-54	-57	-62	-65	-71	-73	-79	-82	-87	-90	-96	
29-32	35	-15	-15	-21	-23	-29	-34	-37	-40	-46	-51	-54	-59	-62	-68	-73	-76	-82	-84	-90	-93	-98	
33-36	40	-15	-18	-21	-26	-29	-34	-37	-43	-48	-51	-57	-59	-65	-71	-73	-79	-82	-87	-90	-96	-101	
WINDS ABOVE 40		LITTLE DANGER					INCREASING DANGER (FLESH MAY FREEZE WITHIN 1 MINUTE)						GREAT DANGER (FLESH MAY FREEZE WITHIN 30 SECS)										

DUTIES OF THE RANGE SENTRY

1. They will remain on duty at their guard post until properly relieved by the User Unit Safety Officer. Sentries will be non-tactical and will not participate in the exercise for which he/she is providing safety.
2. They will be alert at all times.
3. They will pay proper compliments to all officers.
4. They will ensure that he understands his duties. If he does not understand, he will ask the Unit Range Safety Officer before being posted.
5. They will not allow personnel or vehicles to pass his point unless they have authority from the OIC Firing Practice, the Safety Officer of the Practice or the Range Safety Officer, and record the CFR of all vehicles, Name and Rank of the driver or senior person in charge of the vehicle(s) that proceed beyond the barrier.
6. They will ensure that he has the following articles with him:
 - a. a map showing locations of the firing unit(s) and a safe route to those locations;
 - b. a working radio with spare battery;
 - c. Daily Range Safety Orders;
 - d. pencil and paper;
 - e. this list of duties; and
 - f. flashlight if at night.
7. They will not carry or consume any alcoholic beverages during his tour of duty.
8. They are responsible to be properly dressed for all weather conditions.
9. They will leave the area of his post clean of all garbage.
10. They are not permitted to take POMV to the Range while on duty.
11. If someone proceeds without permission being granted, report immediately to the Range Safety Officer, relaying the CFR and Vehicle Type if possible.

RANGE/TRAINING AREA CLEARANCE CERTIFICATE
ATTESTATION DE DÉGAGEMENT DES SECTEURS DU CHAMP DE TIR

<p>1. IDENTIFICATION</p> <p>a. Unit(é)/Cours(e) _____ Callsign / indicatif d'appel _____</p> <p>b. Nature of exercise Description de l'exercice _____</p> <p>c. Date/time of use Date/heure d'utilisation _____</p> <p>d. Location of training Lieu de l'entraînement _____</p>	<p>e. Number of pers Nombre de Personne _____</p> <p>f. Number of Veh (Wheeled) Nombre de Véh (Roue) _____</p> <p>g. Number of Veh (Tracked) Nombre de Véh (Chenille) _____</p>
<p>2. ACCEPTANCE</p> <p>a. RANGE/AREA/FACILITY is clean and clear of refuse Le champ de tir, secteur, installation sont propres et exempts de tout débris</p> <p>b. Range/area/facility is not suitable and the following is a list of deficiencies that I have reported to Range Control by radio Le champ de tir, secteur ou installation ne sont pas acceptables. Voici une liste des lacunes que j'ai signalées au contrôle des champs de tir par radio.</p>	<p><u>Circle – Encerclez</u> Clean / propre not suitable / pas acceptable</p> <p><u>OIC Comments – Commentaires</u></p>
<p>3. CLEARANCE</p> <p>a. I certify that I conducted the above range practice, supervised my assistants and adhered to all security procedures found in 5 CDSB Range Standing Orders and B-GL-381-001/TS-000. I also certify that I inspected the range, training area to include, firing points impact area and buildings used and they are clean and free of any waste and used target material; J'atteste avoir dirigé l'exercice de tir mentionné, supervisé mes adjoints et respecté toutes les directives de sécurité des Instructions des champs de tir du CIC Gagetown. J'atteste avoir procédé à l'inspection des secteurs et bâtiments utilisés et les avoirs laissés propres et exempts de tout débris ou de munitions utilisées durant l'ex que j'ai tenu</p> <p>b. I have completed the ammo expenditure form (if applicable on reverse); and J'ai rempli le formulaire d'utilisation des munitions (s'il y a lieu, voir verso); et</p> <p>c. The following comment or suggestions are offered: Commentaires ou suggestions:</p>	<p><u>OIC Comments - Commentaires</u></p> <p>Signature: _____ (Print name / rank) (Nom / grade en lettres moulées)</p>
<p>4. INSPECTION</p> <p>a. I inspected this area and found it to be as reported by the unit; or J'ai vérifié le secteur et l'ai trouvé dans l'état indiqué par l'unité, ou</p> <p>b. The area is not as reported and the following points must be corrected by the above unit: Le secteur n'était pas dans l'état indiqué par l'unité, qui doit prendre les mesures suivantes:</p>	<p><u>Patrolman Comments - Commentaires</u></p> <p>Signature: _____ (Print name/ rank/ telephone #) (Nom, grade, et # de téléphone en lettres moulées)</p>

Note: This form will be completed in one copy by the OIC Ex and turned into Range Control, immediately on completion of firing/training and before closing down on radio.

Note: L'officier responsable de l'ex doit remplir la présente attestation en un seul exemplaire et la remettre au bureau du contrôle des champs de tir dès la fin du tir/entraînement et cela avant la fermeture des communications sur le réseau du contrôle des champs de tir.

Small Arms Ranges – Range Clearance Form

Unit _____ **Call Sign** _____ **Date** _____ **Number of Pers** _____

Crse _____ **Number of Wheeled Vehicles** _____ **Number of Track Veh** _____

- Amiens Ardennes Batouche Flanders
Mons Vimy Reichwald Somme

In-Clearance **Patroller** _____ **Date** _____
 Print name/ rank

TROOP SHELTER / SENTRY HUT	IN	OUT
- Entrance barrier serviceable, Red & Green Flag Att	Y/N	Y/N
- Building free of damage& surrounding area clean	Y/N	Y/N
- Lights serviceable	Y/N	Y/N
- Tables & benches free of graffiti	Y/N	Y/N
- Walls free of damage & graffiti	Y/N	Y/N
- Washrooms clean & serviceable	Y/N	Y/N
- Garbage cans emptied & serviceable	Y/N	Y/N
- Mirrors serviceable	Y/N	Y/N
- Fire extinguisher	Y/N	Y/N
- Heater serviceable	Y/N	Y/N
- Red & green Firing point flags (on poles)	Y/N	Y/N

TARGET SHED		
- Building free of damage & surrounding area clean	Y/N	Y/N
- Lights serviceable	Y/N	Y/N
- Walls not damaged & free of graffiti	Y/N	Y/N
- Garbage cans emptied & serviceable	Y/N	Y/N
- Targets not leaning on walls	Y/N	Y/N
- Fire extinguisher	Y/N	Y/N

FIRING POINTS		
-Firing points to be used _____		
-Trench structures serviceable & drainage sufficient	Y/N	Y/N
-Trench covers serviceable & sand bag for each	Y/N	Y/N

BUTTS/Mantlet		
- Target frames serviceable with chains in tact	Y/N	Y/N
- Foam targets put back in target frames	Y/N	Y/N
- Upper backstop target #'s readable & serviceable	Y/N	Y/N
- No major cracks in cement overhead structure & walls	Y/N	Y/N
- No graffiti on the walls & surrounding area	Y/N	Y/N
- Backstop area clear of garbage and butts have been raked	Y/N	Y/N
- All targets clear of area & returned to the target shack	Y/N	Y/N
- Weights placed on bench	Y/N	Y/N
- 2 X Red & 1 X Green flag	Y/N	Y/N
- Position of Target Frames Centred	Y/N	Y/N
- Overall Condition of Mantlet	Y/N	Y/N

FLAG POLES		
- Entrance serviceable rope attached	Y/N	Y/N
- Butts serviceable rope attached	Y/N	Y/N
- Backstop serviceable rope attached	Y/N	Y/N
- No walking on the back stop grass	Y/N	Y/N

SIGNATURE OF OIC / IN-CLEARANCE _____ **Date** _____
 Print name/ rank/ telephone #

SIGNATURE OF OIC / OUT-CLEARANCE _____ **Date** _____
 Print name/ rank/ telephone #

PATROLLER CONDUCTING OUT-CLEARANCE _____ **Date** _____
 Print name/ rank

<input type="checkbox"/> PASS <input type="checkbox"/> FAIL / COMMENTS:
--

REPORT OF AMMUNITION EXPENDED – RELEVÉ DES MUNITION UTILISÉES

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
SERIAL	WEAPON CALIBRE	AMMUNITION TYPE & LOT NUMBER	TYPES OF FUSES & LOT NUMBER	QUANTITY EXPENDED	NUMBER OF DUDS WHICH OCCURRED	NUMBER OF DUDS DESTROYED	LOCATION OF UNDESTROYED DUDS	REMARKS
SÉRIE	CALIBRE DE L'ARME	TYPE DE MUNITION ET NUMÉRO DE LOT	TYPE D'AMORCE ET NUMÉRO DE LOT	QUANTITÉ UTILISÉE	QUANTITÉ DE MUNITION NON EXPLOSÉE	QUANTITÉ DE MUNITION NON EXPLOSÉE DÉTRUITE	LIEU DES MUNITIONS NON EXPLOSÉE ET NON DÉTRUITE	REMARQUES
1.								
2.								
3.								
4.								
5.								

<p>I certify that I have supervised troops while the above duties were being performed and that the statements made in this report are correct. Before leaving the range, I left my area free of live ammunition that I used during my practice. I certify that my troops and weapons have been inspected and that all ammunition has been withdrawn from them. I further certify that to the best of my knowledge my impact area is free of blinds except as noted above.</p>	<p>J'atteste que j'ai supervisé les troupes pendant l'exécution des tâches susmentionnées et que les renseignements fournis dans le présent compte rendu sont exacts. Avant de quitter le champ de tir, j'en ai retiré toutes les munitions chargées que j'ai utilisé pendant mon exercice. J'atteste qu'après inspection, mes troupes n'ont plus de munition en leur possession et que leurs armes ont été déchargées. Enfin pour autant que je sache, mes secteurs ne contiennent aucune munition non-explosée, sous réserve des indications ci-dessus.</p>
<p>Officer in charge : _____ Date : _____ Print name/ rank / signature</p>	<p>Officier responsable: _____ Date : _____ nom / grade / signature</p>

RANGE INSTRUCTIONS

BIVOUAC MARCH-IN

1. Name of Unit _____ C/S _____
2. Name of Bivouac _____ Grid _____
3. Date of Occupation _____
4. Duration of Occupation _____
5. Time and Date of Unit All Ranks Briefing _____
6. Time and Date for March-Out _____
7. A bivouac camp march-in team shall consist of the RCO or his representative; an officer or Sr NCO shall represent the unit, normally from logistics.
8. Unit representative inspection remarks concerning area cleanliness, vehicle park and roads.
9. **Unit Administration Arrangements**
 - a. Chemical Toilets - Yes/No. How many
 - b. Garbage Pick-up - Yes/No. From _____ To _____
 - c. Tent Platforms - Yes/No. How many
 - d. Fire Inspection - Date _____ Time _____
 - e. Unit Safety Office's Inspection Date _____

Note: A Patrolperson will return after 48hrs to collect March-in information.

10. RCO or his representative remarks/recommendations.
 - a.
 - b.
 - c.
11. Bivouac area acceptable/unacceptable.

RCO/Representative March-In Representative

5 CANADIAN DIVISION SUPPORT BASE – FIRE SAFETY FIELD EXERCISE CHECKLIST

REF FMCO-11-40

DATE: _____ **BIVOUAC SITE:** _____

PROVIDE YES/NO:

Current 5 Canadian Division Support Base Fire Orders posted?

Personnel briefed by UFPO on action in event of fire?

Personnel briefed on operating cooking and heating equipment?

Exits always ensure immediate access to exterior of tent, MAX travel Dist 22m.

SITING

15m between facility tents.

15m between facility tents and sleeping accommodations.

6m between individual tents and rows of sleeping tents.

3m from any tent to supplemental structures such as patio showers or ablution tents.

3m from tents to combustible material such as hessian, privacy curtains and fences.

15m from tents to hazardous materials such as flammable liquids and gases.

3m from outdoor heaters and generators to tents and combustible structures.

3m from hazardous material to roadway and vehicle parking.

3m from mobile vehicle parking to tents.

45m between fuel dispensing vehicles and tented areas

15m between individual fuel dispensing vehicles.

Modular tents used for sleeping do not exceed 4 modules in length.

Sleeping accommodations are not subdivided nor did entrances cover using highly combustible material such as hessian.

Hazardous materials located in a well ventilated, central area and protected from accidental damage.

**5 CANADIAN DIVISION SUPPORT BASE – FIRE SAFETY FIELD EXERCISE CHECKLIST
CONTINUED....**

DATE: _____ **BIVOUAC SITE:** _____

Heavier than air, flammable liquids and gases are not stored in depressions.

Flammable compressed gas is stored upright in secure position at least 7.5m from flammable liquids.

FIRE POINTS

Are they located in a flat open area, readily visible and accessible?

FIRE EXTINGUISHERS

Maximum travel distance 23m

Dry Chem extinguisher located within 15m of hazards?

HOUSE KEEPING

Are tents kept tidy - free of obstructions near and around exits and aisles?

RANGE STANDING ORDERS

BIVOUAC MARCH-OUT

1. Name of Unit _____ C/S _____
2. Name of Bivouac _____ Grid _____
3. Date of Unit Departure _____
4. Time/Date of Final Cleanup _____ Hrs _____
5. Name of Unit Officer or Sr NCO responsible for final cleanup _____
(Print – Rank/Name/Phone)
6. Name of representative from the Base Hygiene and Sanitation Section _____
(Print – Rank/Name/Phone)
7. RCO, or representative _____
(Print – Rank/Name/Phone)

8. **INSPECTION**

- a. Kitchen
- b. QM/Stores
- c. Living Area
- d. Communication Area
- e. Transport Park Area
- f. Maintenance
Section
- g. Holes, Pits,
Fire Places,
Ditches
- h. String, Cord
Cable, Wire,
Mine Tape,
Insulators

ANNEX K
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- i. Unit Signs
Concertina
Fences
- j. Building
Materials,
Log, Rocks
- k. Pallets,
Platforms
Duck Boards
- l. Chemical
Toilets
- m. Foul Ground
Signs Posted
- n. Improvements of a permanent nature
- o. All bagged/boxed garbage removed

13. RCO or representative remarks on final area cleanup/damages

Hygiene/Sanitation Representative _____
(Print – Rank/Name/Phone)

Unit Representative _____
(Print – Rank/Name/Phone)

CE Rep _____
(Print – Rank/Name/Phone)

RCO or Representative _____
(Print – Rank/Name/Phone)

CASUALTY EVACUATION

Unit requiring casualty evacuation from the training area will supply as much of the following information as possible. At a minimum, Rge Ctl will need paras 1 through 3, prior to dispatching an ambulance:

1. casualty's location (exact grid reference);
2. the number of casualties involved;
3. the type injury/priority;
4. how the injuries were sustained;
5. a rendezvous point (RV) - where the unit escort will be able to guide the ambulance to the patient. As a general rule there are three gates that can be used for this purpose. The Range Control gate by K-69, Petersville and Blue Mountain. Range Control may recommend quicker access through other gates when feasible;
6. casualty's Unit, Name, Service Number and Rank;
7. If a Medic is on site;
8. Ground or Air Evacuation – If by air, the Landing Zone Grid and method of marking the LZ is required (ie. color of smoke grenade, orange panel marker, etc.);
9. Any special requirements (ie, firefighting, jaws of life, resuscitation, blood, medical expertise, etc.)

REQUEST FOR RECOVERY SERVICES

BASE MAINTENANCE

- A. Driver _____
(Rank) (Name)
- B. Unit _____ Time _____ Date _____
- C. Location of Vehicle:
Grid Reference _____
Street _____ Town _____
Highway No _____ Miles From _____
- D. Is Driver with vehicle - Yes/No. If driver is **not** with vehicle, where can he be reached:
_____ Phone _____
- E. Call Sign _____
- F. CFR Number _____
- G. Type of Vehicle _____
- H. Nature of Casualty _____
- I. Number of passengers requiring transport to Base Camp _____
(Passengers cannot travel in towed vehicle.)
- J. Name of Base Maintenance personnel _____

-
- K. Time information passed to Base Maintenance _____

INSTRUCTIONS TO DRIVER

- A. Complete Part One.
- B. Pass on all info of Part One, in one of the following methods:
(1) **On Base.** Telephone local 2264; or
(2) **In Training Area.** Use a Trg Area Telephone to local 2482, or use the Emergency Net to Range Control (frequency 49.90).
- C. **Civilian Recovery Services.** Drivers will not use civilian recovery services unless told to do so by Military Recovery personnel.
- D. **Drivers Responsibilities**

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5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 2018

- (1) The driver shall return to his vehicle and remain at that location until recovery arrives.
- (2) The driver shall render all possible assistance to the Recovery Team, as required, to carry out recovery operations.
- (3) After requesting recovery, if the driver solves the problem with his vehicle, he shall remain at his location until the recovery team arrives.

PERMIT NO NO DU LAISSER PASSER	
-----------------------------------	--

VEHICLE STICKER / VIGNETTE DE VÉHICULE

VALID SUBJECT TO THE CONDITIONS OF THE ACCESS AUTHORITY
VALIDE SOUS RESERVE DES STIPULATIONS DU DROIT D'ACCÈS

NAME / NOM : _____

LICENCE / PERMIS : _____

VALID FOR AREA
VALIDE POUR SECTEUR : _____

FROM / DE : DATE _____ HR : _____
TO / À : DATE _____ HR : _____

STICKER MUST BE DISPLAYED ON VEHICLE DASHBOARD
AFFICHER LA VIGNETTE SUR LE TABLEAU DE BORD

PERMIT NO NO DU LAISSER PASSER	
-----------------------------------	--

CAMPING STICKER / VIGNETTE DE CAMPING

VALID SUBJECT TO THE CONDITIONS OF THE ACCESS AUTHORITY
VALIDE SOUS RESERVE DES STIPULATIONS DU DROIT D'ACCÈS

NAME / NOM : _____

LICENCE / PERMIS : _____

VALID FOR AREA
VALIDE POUR SECTEUR : _____

FROM / DE : DATE _____ HR : _____
TO / À : DATE _____ HR : _____

STICKER MUST BE DISPLAYED ON CAMPER / TENT
AFFICHER LA VIGNETTE SUR LA CAMIONETTE OU LA TENTE

PERMIT NO NO DU LAISSER PASSER	
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HUNTING STICKER / VIGNETTE DE CHASSEUR

VALID SUBJECT TO THE CONDITIONS OF THE ACCESS AUTHORITY
VALIDE SOUS RESERVE DES STIPULATIONS DU DROIT D'ACCÈS

NAME / NOM : _____

LICENCE / PERMIS : _____

VALID FOR AREA
VALIDE POUR SECTEUR : _____

FROM / DE : DATE _____ HR : _____
TO / À : DATE _____ HR : _____

STICKER MUST BE DISPLAYED ON VEHICLE DASHBOARD
AFFICHER LA VIGNETTE SUR LE TABLEAU DE BORD

APPENDIX 1
ANNEX N
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 2018

PERMIT # # DE LAISSER-PASSER		HUNTING #NO #NO DU CHASSE
5 CANADIAN DIVISION SUPPORT BASE License and Pass for Temporary And Revocable Access to the Training Area, Issued Under the Authority of the Base Commander in Accordance With The Defence Controlled Access Area Regulations and Federal Treasury Board Real Property Accessibility Policy		Permis et laissez-passer révocable d'accès temporaire au secteur d'entraînement de la Base de Soutien de la 5 ^e Division du Canada octroyé avec l'autorisation du commandant de la Base en conformité avec le Règlement sur les secteurs d'accès contrôlé relatif à la défense et la Politique du Conseil du Trésor sur l'accessibilité aux biens immobiliers.
1. NAME / NOM		1.
2. ADDRESS / ADRESSE		2.
3. PHONE / TÉLÉPHONE		3.
4. MEMBERS OF PARTY LISTED NOMS DES PERSONNES QUI L'ACCOMPAGNENT		4a. 4b. 4c. 4d.
5. LICENCE PLATE # NO DE PLAQUE D'IMMATRICULATION		5.
6. FROM / DE : DATE / HR		6.
7. TO / À : DATE / HR		7.
8. FOR / POUR (REASON / RAISON) AREA/ SECTEUR		8.
9. OPEN FIRE PERMITTED FEUX DE CAMP AUTORISÉ		9. YES / OUI NO / NON

ACCESS AUTHORIZED SUBJECT TO FOLLOWING CONDITIONS	ACCÈS AUTORISÉ SOUS RÉSERVE DES CONDITIONS SUIVANTES
<ol style="list-style-type: none"> YOU MUST HAVE A CURRENT MAP AND BE CAPABLE OF DETERMINING YOUR LOCATION. YOU ENTER TRAINING AREA AT OWN RISK. DO NOT TOUCH ANY OBJECTS, THEY MAY EXPLODE. DO NOT LITTER. REMOVE YOUR GARBAGE AND WASTE. ALL GOVERNMENT LAWS APPLY. DO NOT BY-PASS OR MOVE ANY BARRIERS. SPEED LIMIT IS 55 KPH OR AS POSTED. HEADLIGHTS MUST BE ON AT ALL TIMES. ENSURE ALL MEMBERS OF THE PARTY KNOW THE CONDITIONS OF THE PERMIT. ANY QUESTIONS CONTACT RANGE CONTROL. 	<ol style="list-style-type: none"> VOUS DEVEZ POSSÉDER UNE CARTE À JOUR DU SECTEUR ET ÊTRE EN MESURE DE DÉTERMINER VOTRE EMPLACEMENT. VOUS ENTREZ DANS LES SECTEURS D'ENTRAÎNEMENT À VOS RISQUES. VOUS NE DEVEZ TOUCHER À AUCUN OBJET, IL POURRAIT EXPLOSER. NE LAISSER RIEN DERRIÈRE VOUS. RAMASSER VOS ORDURES ET VOS DÉCHETS. VOUS DEVEZ OBSERVER TOUTES LES LOIS GOUVERNEMENTALES. NE PAS PASSER OU IGNORER LES BARRIÈRES. RESPECTER LA LIMITE DE VITESSE 55 K/H OÙ LA VITESSE INDIQUÉE, SELON LE CAS. GARDER VOS PHARES ALLUMÉS EN TOUT TEMPS. ASSUREZ-VOUS QUE TOUTES LES PERSONNES QUI VOUS ACCOMPAGNENT SONT AU COURANT DES RÉGLEMENTS ÉNONCÉS SUR LE LAISSER-PASSER. POUR TOUT RENSEIGNMENT, S'ADRESSER AU BUREAU DE CONTRÔLE DES CHAMPS DE TIR.

RELEASE AND INDEMNITY	RENONCIATION ET DÉCHARGE
<p>IT IS AGREED THAT I SHALL AT ALL TIMES INDEMNIFY AND SAVE HARMLESS HER MAJESTY, HER OFFICERS, SERVANTS, AGENTS, EMPLOYEES AND MEMBERS OF HER CANADIAN FORCES FROM AND AGAINST ALL CLAIMS AND DEMANDS, LOSS, COSTS, PROCEEDING BY WHOM SO EVER MADE, BROUGHT OR PROSECUTED IN ANY MANNER BASED UPON, OCCASIONED BY OR ATTRIBUTABLE BY VIRTUE OF THE USE BY ME OR MEMBERS OF MY PARTY OF THE CFB GAGETOWN RANGE AND TRAINING AREAS AS AUTHORIZED BY THIS PERMIT, OR ANY ACTION TAKEN OR THINGS DONE BY VIRTUE THEREOF.</p> <p>IN CONSIDERATION OF BEING ISSUED THIS PERMIT, I HEREBY RELEASE AND FOREVER DISCHARGE HER MAJESTY, HER OFFICERS, SERVANTS, AGENTS, EMPLOYEES AND MEMBERS OF HER CANADIAN FORCES OF AND FROM ALL CLAIMS DEMANDS, DAMAGES, ACTIONS OR CAUSES OF ACTION ARISING OR TO ARISE BY REASON OF THE ISSUANCE OF THIS PERMIT AND/OR MY MEMBERS OF MY PARTY ACCESS TO, REMAINING ON OR TRAVELLING WITHIN CFB GAGETOWN AND OF AND FROM ALL CLAIMS OR DEMANDS WHAT SO EVER IN LAW OR IN EQUITY WHICH I, MY HEIRS, EXECUTORS, ADMINISTRATORS OR ASSIGNS CAN, SHALL OR MAY HAVE BY REASONS AFORESAID.</p>	<p>IL EST ENTENDU QU'EN TOUT TEMPS, JE TIENDRAI INDEMNÉ ET À COUVERT SA MAJESTÉ, SES OFFICIERS, SES SUJETS, SES REPRÉSENTANTS, SES EMPLOYÉS ET LES MEMBRES DE SES FORCES CANADIENNES CONTRE TOUTE RÉCLAMATION ET REVENDICATION, PERTE, FRAIS, DOMMAGES, POURSUITES EN JUSTICE, OBJET DE PROCÈS, ACTION OU TOUTE AUTRE DÉMARCHE FAITE, PORTÉE OU INTENTÉE DE MANIÈRE QUEL CONQUE ET PAR QUI QUE CE SOUT À LA SUITE DE L'UTILISATION QUE MOI-MEME OU QUE LES PERSONNES QUI M'ACCOMPAGNENT AURONT FAITE AU SECTEURS D'ENTRAÎNEMENT DU CFB GAGETOWN, CONFORMEMENT À L'AUTORISATION QUI M'EST ACCORDÉE EN VERTU DU PRÉSENT LAISSER-PASSER, OU CONTRE TOUTE ACTION INTENTÉE OU GESTES POSÉS EN RAISON DE CETTE UTILISATION.</p> <p>MOYENNANT L'OBTENTION DU PRÉSENT LAISSER-PASSER, JE M'ENGAGE PAR LES PRÉSENTES À TENIR INDEMNÉ ET A COUVERT EN TOUT TEMPS SA MAJESTÉ SES OFFICIERS, SES SUJETS, SES REPRESENTANTS, SES EMPLOYÉS ET LES MEMBRES DES FORCES CANADIENNES CONTRE TOUTE RÉCLAMATION ET REVENDICATION, PERTE, FRAIS, DOMMAGES, POURSUITES EN JUSTICE OU ACTION PORTÉE OU INTENTÉE À LA SUITE DE L'ÉMISSION DU PRÉSENT PERMIS ET (OU) DE L'UTILISATION DU SÉJOUR ET DES DÉPLACEMENT QUE MOI-MEME OU LES PERSONNES QUI M'ACCOMPAGNENT AURONT FAIT AU CFB GAGETOWN ET CONTRE TOUTE RÉCLAMATION ET REVENDICATION D'AUCUNE SORTE EN DROIT ET EN JUSTICE QUE MOI-MEME, MES HERTIERS, MES EXÉCUTEURS, MES ADMINISTRATEURS OU LEURS AYANTS DROIT PEUVENT PRÉSENTER SUITE AUX RAISONS INVOQUÉES CI-DESSUS.</p>

CERTIFICATION	ATTESTATION
<p>I CERTIFY THAT I UNDERSTAND THE CONDITIONS AND THE RELEASE AND INDEMNITY CLAUSE OF THE PERMIT. I CERTIFY THAT ALL MEMBERS HAVE SIGNED AND ACKNOWLEDGE THE CONDITIONS OF THIS PERMIT. ON REQUEST, I AGREE TO PRODUCE THIS PERMIT AND ALL OTHER RELATED DOCUMENTS AND TO ALLOW A SEARCH OF MY POSSESSIONS. I UNDERSTAND THAT VIOLATION OF THESE REGULATIONS MY RESULT IN LEGAL ACTION AND/OR MY PERMIT PRIVILEGES BEING RESTRICTED OR WITHDRAWN.</p> <p>IN WITNESS WHEREOF I, THE RELEASER AND INDEMNIFIER, HAVE SET MY HAND.</p>	<p>J'ATTESTE QUE JE COMPRENDS LES STIPULATIONS ET LA CLAUSE DE RENONCIATION ET DE DÉCHARGE DU PRÉSENT LAISSER-PASSER. J'ATTESTE ÉGALEMENT QUE TOUS LES MEMBRES ONT SIGNÉ ET COMPRENNENT LES CONDITION DU PRÉSENT PERMIS. JE CONSENS À PRÉSENTER SUR DEMANDE LE PRÉSENT LAISSER-PASSER ET TOUT AUTRE DOCUMENT PERTINENT ET À PERMETTRE LA FOUILLE DE MES BIENS. JE COMPRENDS QUE TOUTE DÉROGATION À CES RÉGLEMENTS POURRA ENTRAÎNER DES POURSUITES EN JUSTICE ET (OU) UNE RESTRICTION OU UN RETRAIT DES PRIVILÈGES QUI ME SONT ACCORDÉS PAR MON LAISSER-PASSER.</p> <p>EN FOIS DE QUOI J'AI, LE RENONCIATEUR ET L'AFFRANCHISSEUR, APOSSÉ MA SIGNATURE</p>

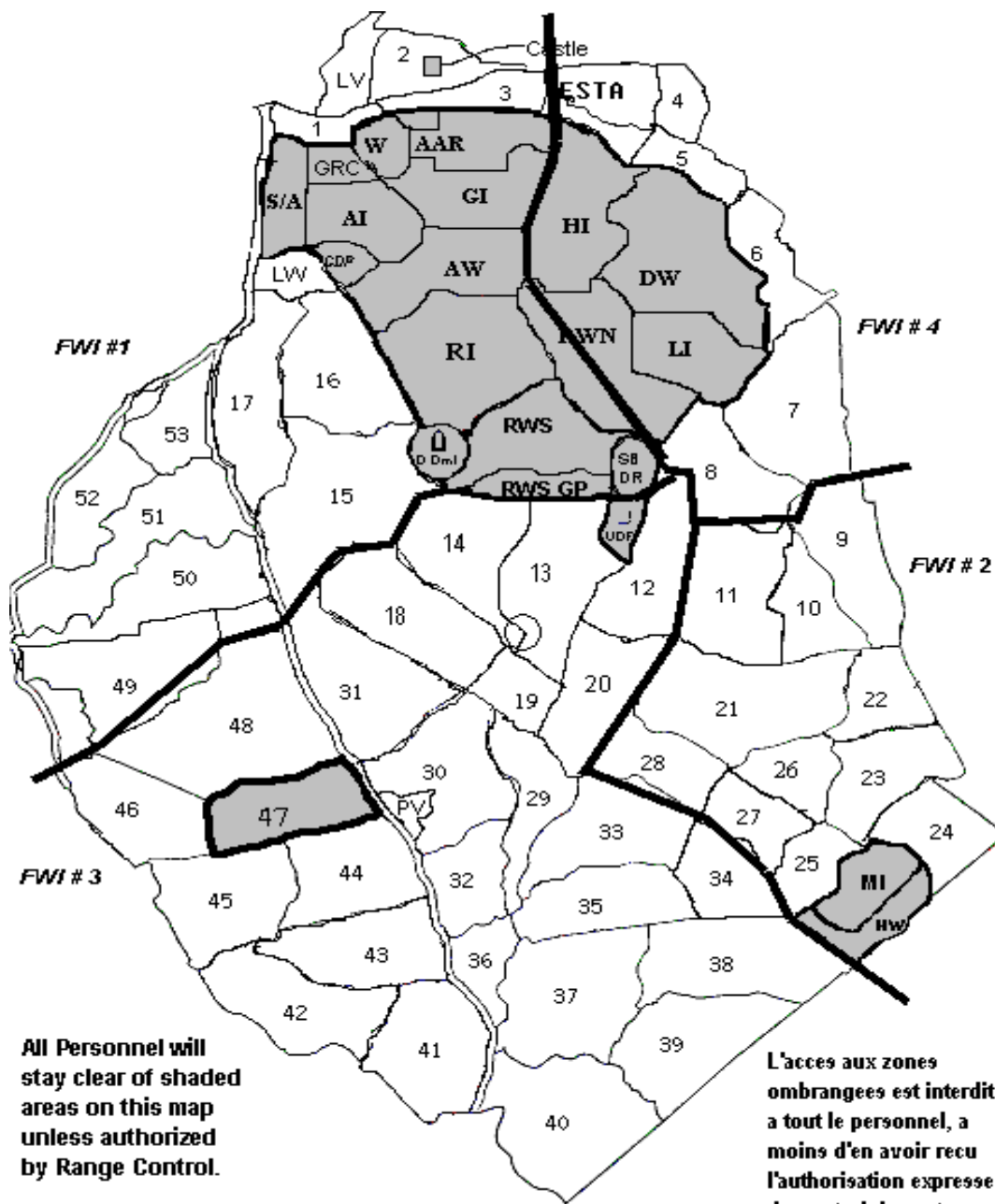
MILITARY USE	UTILISATION MILITAIRE
<p>I CERTIFY THAT I HAVE MY CO's AUTHORIZATION TO USE MY CIVILIAN VEHICLE FOR MILITARY DUTY</p> <p>SIGNATURE: _____</p>	<p>JE CERTIFIE QUE J'AI L'AUTORISATION DE MON CMDT POUR UTILISER MON VÉHICULE CIVIL POUR RAISONS MILITAIRES</p> <p>SIGNATURE: _____</p>

BEARER' SIGNATURE SIGNATURE DU TITULAIRE	
FOR COMMANDER 5 CANADIAN DIVISION SUPPORT BASE POUR LE COMMANDANT de la Base de Soutien de la 5 ^e Division du Canada	
DATE	THIS/CE ____01____ DAY/JOUR OF/DE AD, 20
SIGNED AND DELIVERED IN THE PRESENCE OF THE ISSUING AUTHORITY SIGNÉ ET ÉMIS EN PRÉSENCE DE L'AUTORITÉ COMPÉTENTE	

5 CANADIAN DIVISION SUPPORT BASE RANGES AND TRAINING AREAS

SECTEURS D'ENTRAÎNEMENT ET CHAMPS DE LA BASE DE SOUTIEN

DE LA 5^e DIVISION DU CANADA



NOTE	NOTE
CONSULT DAILY RANGE SAFETY ORDERS	CONSULTER LES ORDRES QUOTIDIENS POUR LA SECURITE DES CHAMPS DE TIR
MAP NOT TO SCALE, THIS MAP IS USED FOR PLANNING PURPOSES ONLY, MUST BE USED IN CONJUNCTION WITH: MAP MCE 24, EDITION 20 TR 14	CARTE PAS À L'ÉCHELLE CARTE ÉTABLIE AUX FINS DE LA PANIFICATION SEULEMENT. DOIT ÊTRE UTILISÉE CONJOINTEMENT AVEC LA CARTE MCE 24, ÉDITION 20 TR 14
NON-MILITARY USE PROHIBITED IN OUT OF BOUNDS AREA DUE TO UNEXPLODED MUNITIONS. HOMESTEADS AND CEMETARIES MAY BE VISITED BY RELATIVES USING ONLY ROADS SHOWN AS BEING OPEN. AREAS MARKED WITH A 'X' ARE CLOSED ON DATE MARKED	INTERDICTION D'UTILISER LES SECTEURS À ACCÈS INTERDITS À DES FINS NON-MILITAIRES, EN RAISON DE PRÉSENCE DE MUNITIONS NON EXPLOSÉES. ON PEUT VISITER LES VIEILLES FERMES ET CIMETIÈRES, MAIS SEULES LES ROUTES OUVERTES DOIVENT ÊTRE UTILISÉES. LES SECTEURS MARQUÉS D'UN 'X' SONT FERMÉS AUX DATES INDIQUÉES.
The holders of any type of hunting licence are not permitted to hunt Groundhog, Coyote, Crow and Cormorant (varmint) within CFB Gagetown	Les détenteurs de tout type de permis de chasse ne sont pas autorisés à chasser la marmotte, le coyote, la corneille et le cormoran (varmint) dans la BFC Gagetown.

APPENDIX 2
ANNEX N
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 2018

PERMIT # # DE LAISSER-PASSER	
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CE EMPLOYEES/CONTRACTORS

5 CANADIAN DIVISION SUPPORT BASE License and Pass for Temporary And Revocable Access to the Training Area, Issued Under the Authority of the Base Commander in Accordance With The Defence Controlled Access Area Regulations and Federal Treasury Board Real Property Accessibility Policy	Permis et laissez-passer révocable d'accès temporaire au secteur d'entraînement de la Base de Soutien de la 5 ^e Division du Canada octroyé avec l'autorisation du commandant de la Base en conformité avec le Règlement sur les secteurs d'accès contrôlé relatif à la défense et la Politique du Conseil du Trésor sur l'accessibilité aux biens immobiliers.
1. NAME / NOM	1.
2. ADDRESS / ADRESSE	2.
3. PHONE / TÉLÉPHONE	3.
4. MEMBERS OF PARTY LISTED NOMS DES PERSONNES QUI L'ACCOMPAGNE	4a. 4b. 4c. 4d.
5. LICENCE PLATE # NO DE PLAQUE D'IMMATRICULATION	5.
6. FROM / DE : DATE / HR	6.
7. TO / À : DATE / HR	7.
8. AS PER AUTHORIZED CONTRACT AND/OR DESIGNATED WORK SITES	AREAS

ACCESS AUTHORIZED SUBJECT TO FOLLOWING CONDITIONS	ACCÈS AUTORISÉ SOUS RÉSERVE DES CONDITIONS SUIVANTES
<ol style="list-style-type: none"> YOU MUST HAVE A CURRENT MAP AND BE CAPABLE OF DETERMINING YOUR LOCATION. YOU ENTER TRAINING AREA AT OWN RISK. DO NOT TOUCH ANY OBJECTS, THEY MAY EXPLODE. DO NOT LITTER. REMOVE YOUR GARBAGE AND WASTE. ALL GOVERNMENT LAWS APPLY. DO NOT BY-PASS OR MOVE ANY BARRIERS. SPEED LIMIT IS 55 KPH OR AS POSTED. HEADLIGHTS MUST BE ON AT ALL TIMES. ENSURE ALL MEMBERS OF THE PARTY KNOW THE CONDITIONS OF THE PERMIT. ANY QUESTIONS CONTACT RANGE CONTROL. 506-422-2000 Ext 3121 	<ol style="list-style-type: none"> VOUS DEVEZ POSSÉDER UNE CARTE À JOUR DU SECTEUR ET ÊTRE EN MESURE DE DÉTERMINER VOTRE EMPLACEMENT. VOUS ENTREZ DANS LES SECTEURS D'ENTRAÎNEMENT À VOS RISQUES. VOUS NE DEVEZ TOUCHER À AUCUN OBJET, IL POURRAIT EXPLOSER. NE LAISSER RIEN DERRIÈRE VOUS. RAMASSER VOS ORDURES ET VOS DÉCHETS. VOUS DEVEZ OBSERVER TOUTES LES LOIS GOUVERNEMENTALES. NE PAS PASSER OU IGNORER LES BARRIÈRES. RESPECTER LA LIMITE DE VITESSE 55 K/H OÙ LA VITESSE INDIQUÉE, SELON LE CAS. GARDER VOS PHARES ALLUMÉS EN TOUT TEMPS. ASSUREZ-VOUS QUE TOUTES LES PERSONNES QUI VOUS ACCOMPAGNENT SONT AU COURANT DES RÈGLEMENTS ÉNONCÉS SUR LE LAISSÉ-PASSER. POUR TOUT RENSEIGNMENT, S'ADRESSER AU BUREAU DE CONTRÔLE DES CHAMPS DE TIR.

RELEASE AND INDEMNITY	RENONCIATION ET DÉCHARGE
<p>IT IS AGREED THAT I SHALL AT ALL TIMES INDEMNIFY AND SAVE HARMLESS HER MAJESTY, HER OFFICERS, SERVANTS, AGENTS, EMPLOYEES AND MEMBERS OF HER CANADIAN FORCES FROM AND AGAINST ALL CLAIMS AND DEMANDS, LOSS, COSTS, PROCEEDING BY WHOM SO EVER MADE, BROUGHT OR PROSECUTED IN ANY MANNER BASED UPON, OCCASIONED BY OR ATTRIBUTABLE BY VIRTUE OF THE USE BY ME OR MEMBERS OF MY PARTY OF THE CFB GAGETOWN RANGE AND TRAINING AREAS AS AUTHORIZED BY THIS PERMIT, OR ANY ACTION TAKEN OR THINGS DONE BY VIRTUE THEREOF.</p> <p>IN CONSIDERATION OF BEING ISSUED THIS PERMIT, I HEREBY RELEASE AND FOREVER DISCHARGE HER MAJESTY, HER OFFICERS, SERVANTS, AGENTS, EMPLOYEES AND MEMBERS OF HER CANADIAN FORCES OF AND FROM ALL CLAIMS DEMANDS, DAMAGES, ACTIONS OR CAUSES OF ACTION ARISING OR TO ARISE BY REASON OF THE ISSUANCE OF THIS PERMIT AND/OR MY MEMBERS OF MY PARTY ACCESS TO, REMAINING ON OR TRAVELLING WITHIN CFB GAGETOWN AND OF AND FROM ALL CLAIMS OR DEMANDS WHAT SO EVER IN LAW OR IN EQUITY WHICH I, MY HEIRS, EXECUTORS, ADMINISTRATORS OR ASSIGNS CAN, SHALL OR MAY HAVE BY REASONS AFORESAID.</p>	<p>IL EST ENTENDU QU'EN TOUT TEMPS, JE TIENDRAI INDEMNÉ ET À COUVERT SA MAJESTÉ, SES OFFICIERS, SES SUJETS, SES REPRÉSENTANTS, SES EMPLOYÉS ET LES MEMBRES DE SES FORCES CANADIENNES CONTRE TOUTE RÉCLAMATION ET REVENDICATION, PERTE, FRAIS, DOMMAGES, POURSUITES EN JUSTICE, OBJET DE PROCÈS, ACTION OU TOUTE AUTRE DÉMARCHÉ FAITE, PORTÉE OU INTENTÉE DE MANIÈRE QUEL CONQUE ET PAR QUI QUE CE SOUT À LA SUITE DE L'UTILISATION QUE MOI-MÊME OU QUE LES PERSONNES QUI M'ACCOMPAGNENT AURONT FAITE AU SECTEURS D'ENTRAÎNEMENT DU CFB GAGETOWN, CONFORMEMENT À L'AUTORISATION QUI M'EST ACCORDÉE EN VERTU DU PRÉSENT LAISSÉ-PASSER, OU CONTRE TOUTE ACTION INTENTÉE OU GESTES POSÉS EN RAISON DE CETTE UTILISATION.</p> <p>MOYENNANT L'OBTENTION DU PRÉSENT LAISSÉ-PASSER, JE M'ENGAGE PAR LES PRÉSENTES À TENIR INDEMNÉ ET A COUVERT EN TOUT TEMPS SA MAJESTÉ SES OFFICIERS, SES SUJETS, SES REPRÉSENTANTS, SES EMPLOYÉS ET LES MEMBRES DES FORCES CANADIENNES CONTRE TOUTE RÉCLAMATION ET REVENDICATION, PERTE, FRAIS, DOMMAGES, POURSUITES EN JUSTICE OU ACTION PORTÉE OU INTENTÉE À LA SUITE DE L'ÉMISSION DU PRÉSENT PERMIS ET (OU) DE L'UTILISATION DU SÉJOUR ET DES DÉPLACEMENT QUE MOI-MÊME OU LES PERSONNES QUI M'ACCOMPAGNENT AURONT FAIT AU CFB GAGETOWN ET CONTRE TOUTE RÉCLAMATION ET REVENDICATION D'AUCUNE SORTE EN DROIT ET EN JUSTICE QUE MOI-MÊME, MES HÉRITIERS, MES EXÉCUTEURS, MES ADMINISTRATEURS OU LEURS AYANTS DROIT PEUVENT PRÉSENTER SUITE AUX RAISONS INVOQUÉES CI-DESSUS.</p>

CERTIFICATION	ATTESTATION
<p>I CERTIFY THAT I UNDERSTAND THE CONDITIONS AND THE RELEASE AND INDEMNITY CLAUSE OF THE PERMIT. I CERTIFY THAT ALL MEMBERS HAVE SIGNED AND ACKNOWLEDGE THE CONDITIONS OF THIS PERMIT. ON REQUEST, I AGREE TO PRODUCE THIS PERMIT AND ALL OTHER RELATED DOCUMENTS AND TO ALLOW A SEARCH OF MY POSSESSIONS. I UNDERSTAND THAT VIOLATION OF THESE REGULATIONS MY RESULT IN LEGAL ACTION AND/OR MY PERMIT PRIVILEGES BEING RESTRICTED OR WITHDRAWN.</p> <p>IN WITNESS WHEREOF I, THE RELEASER AND INDEMNIFIER, HAVE SET MY HAND.</p>	<p>J'ATTESTE QUE JE COMPRENDS LES STIPULATIONS ET LA CLAUSE DE RENONCIATION ET DE DÉCHARGE DU PRÉSENT LAISSÉ-PASSER. J'ATTESTE ÉGALEMENT QUE TOUS LES MEMBRES ONT SIGNÉ ET COMPRENNENT LES CONDITIONS DU PRÉSENT PERMIS. JE CONSENS À PRÉSENTER SUR DEMANDE LE PRÉSENT LAISSÉ-PASSER ET TOUT AUTRE DOCUMENT PERTINENT ET À PERMETTRE LA FOUILLE DE MES BIENS. JE COMPRENDS QUE TOUTE DÉROGATION À CES RÈGLEMENTS POURRA ENTRAÎNER DES POURSUITES EN JUSTICE ET (OU) UNE RESTRICTION OU UN RETRAIT DES PRIVILÈGES QUI ME SONT ACCORDÉS PAR MON LAISSÉ-PASSER.</p> <p>EN FOIS DE QUOI J'AI, LE RENONCIATEUR ET L'AFFRANCHISSEUR, APPOSÉ MA SIGNATURE</p>

MILITARY USE	UTILISATION MILITAIRE
<p>I CERTIFY THAT I HAVE MY CO's AUTHORIZATION TO USE MY CIVILIAN VEHICLE FOR MILITARY DUTY</p> <p>SIGNATURE: _____</p>	<p>JE CERTIFIE QUE J'AI L'AUTORISATION DE MON CMDT POUR UTILISER MON VÉHICULE CIVIL POUR RAISONS MILITAIRES</p> <p>SIGNATURE: _____</p>

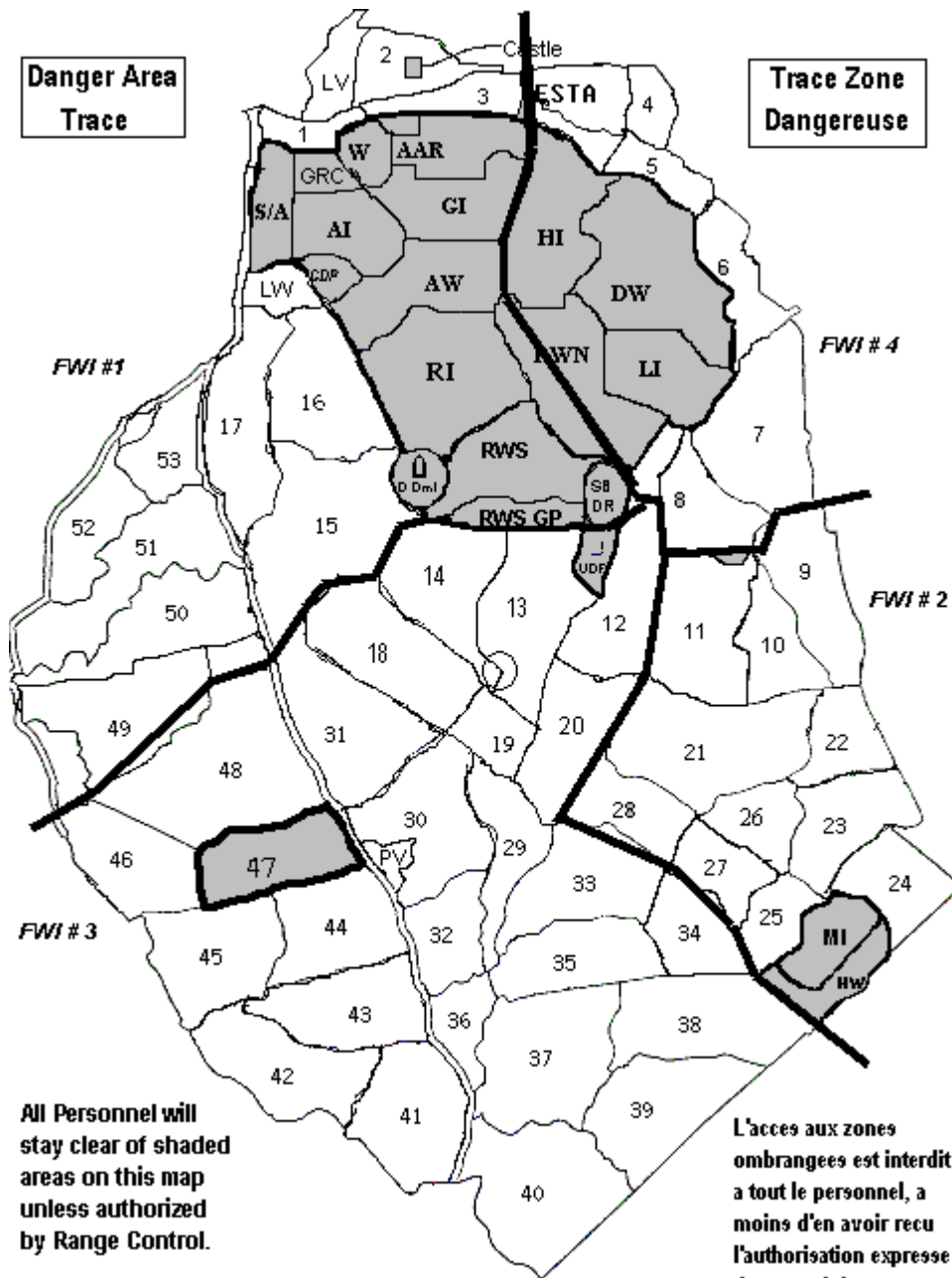
BEARER' SIGNATURE SIGNATURE DU TITULAIRE	
FOR COMMANDER 5 CANADIAN DIVISION SUPPORT BASE POUR LE COMMANDANT DE LA BASE DE SOUTIEN DE LA 5 ^e DIVISION DU CANADA	
DATE	THIS/CE ____ 01 ____ DAY/JOUR OF/DE AD, 20
SIGNED AND DELIVERED IN THE PRESENCE OF THE ISSUING AUTHORITY SIGNÉ ET ÉMIS EN PRÉSENCE DE L'AUTORITÉ COMPÉTENTE	

5 CANADIAN DIVISION SUPPORT BASE RANGES AND TRAINING AREAS

**SECTEURS D'ENTRAÎNEMENT ET CHAMPS DE TIR DE LA BASE DE SOUTIEN DE LA
 5^e DIVISION DU CANADA**

RESTRICTIONS

DATE :	
SUNRISE / LEVER DU SOLEIL :	
SUNSET / COUCHER DU SOLEIL :	
FROM / DE :	
TO / À :	



NOTE	NOTE
CONSULT DAILY RANGE SAFETY ORDERS	CONSULTER LES ORDRES QUOTIDIENS POUR LA SÉCURITÉ DES CHAMPS DE TIR
MAP NOT TO SCALE, THIS MAP IS USED FOR PLANNING PURPOSES ONLY, MUST BE USED IN CONJUNCTION WITH: MAP MCE 24, EDITION 20 TR 14	CARTE PAS À L'ÉCHELLE CARTE ÉTABLIE AUX FINS DE LA PLANIFICATION SEULEMENT. DOIT ÊTRE UTILISÉE CONJOINTEMENT AVEC LA CARTE MCE 24, ÉDITION 20 TR 14
NON-MILITARY USE PROHIBITED IN OUT OF BOUNDS AREA DUE TO UNEXPLODED MUNITIONS. HOMESTEADS AND CEMETARIES MAY BE VISITED BY RELATIVES USING ONLY ROADS SHOWN AS BEING OPEN. AREAS MARKED WITH A 'X' ARE CLOSED ON DATE MARKED	INTERDICTION D'UTILISER LES SECTEURS À ACCÈS INTERDITS À DES FINS NON-MILITAIRES, EN RAISON DE PRÉSENCE DE MUNITIONS NON EXPLOSÉES. ON PEUT VISITER LES VIEILLES FERMES ET CIMETIÈRES, MAIS SEULES LES ROUTES OUVERTES DOIVENT ÊTRE UTILISÉES. LES SECTEURS MARQUÉS D'UN 'X' SONT FERMÉS AUX DATES INDIQUÉES.

FROM		Date Submitted:		Bill #		Pick up date			
To K-71	Target Shop Local 2370	Activity		OIC Exercise		Local		Control #	
SER	Target Description	Quantity	Remarks	TGT Price	Cost	Picked up	RTN	Repair	Destroyed
1	FIG 11 ON A STICK			\$2.50	0.00				
3	FIG 12 ON A STICK			\$2.50	0.00				
5	FIG 13 ON A STICK			\$2.50	0.00				
7	FIG 14 ON A STICK			\$2.50	0.00				
8	FIG 20 LEFT ON A STICK			\$7.07	0.00				
9	FIG 20 RIGHT ON A STICK			\$7.07	0.00				
10	FIG 11 ON A 4' SCREEN			\$18.06	0.00				
11	FIG 12 ON A 4' SCREEN			\$18.06	0.00				
12	2XFIG 11 ON A 4' FRAME			\$15.27	0.00				
13	3XFIG 11 ON A 5' FRAME			\$15.27	0.00				
14	TRANSPORT (Range)			\$55.26	0.00				
15	TRANSPORT (Field)			\$49.99	0.00				
16	ANTITANK (Range)			\$18.06	0.00				
17	ANTITANK (Field)			\$13.06	0.00				
18	ANTITANK STEEL (Range)			\$39.99	0.00				
19	ANTITANK STEEL (Field)			\$33.99	0.00				
20	25MM BORE SIGHTING			\$53.92	0.00				
21	76MM BORE SIGHTING			\$53.92	0.00				
22	84MM BORE SIGHTING			\$53.92	0.00				
23	105MM BORE SIGHTING			\$79.99	0.00				
24	HEAD ON TANK WOOD (Range)			\$45.69	0.00				
25	HEAD ON TANK WOOD (Field)			\$41.36	0.00				
26	HEAD ON TANK STEEL (Range)			\$99.99	0.00				
27	HEAD ON TANK STEEL (Field)			\$95.89	0.00				
28	HEAD ON TANK BLACK (Range)			\$48.90	0.00				
29	HEAD ON TANK BLACK (Field)			\$45.72	0.00				
30	MVT WOOD (Range)			\$103.09	0.00				
31	MVT BLACK (Range)			\$111.64	0.00				
32	MVT STEEL (Range)			\$194.81	0.00				
33	TURRET WOOD (Range)			\$41.82	0.00				
34	TURRET WOOD (Field)			\$26.89	0.00				
35	TURRET STEEL (Range)			\$65.36	0.00				
36	TURRET STEEL (Field)			\$59.16	0.00				
37	TURRET BLACK (Range)			\$43.90	0.00				
38	TURRET BLACK (Field)			\$23.60	0.00				
39	BMP WOOD (Range)			\$45.69	0.00				
40	BMP WOOD (Field)			\$42.79	0.00				
41	BMP STEEL (Range)			\$79.46	0.00				
42	BMP STEEL (Field)			\$78.60	0.00				
43	BMP BLACK (Range)			\$45.94	0.00				
44	BMP BLACK (Field)			\$37.20	0.00				
45	BROADSIDE MOVER (Field)			\$55.10	0.00				
46	MG POST			\$8.46	0.00				
47	SPECIAL				0				
48	AIR TARGET				0				
49	3D TANK PAINTED			\$270.18	0.00				
50	3D TANK			\$259.18	0.00				
51	3D BMP PAINTED			\$148.81	0.00				
52	3D BMP			\$137.91	0.00				
53	HARMONIZATION SCREEN			\$21.15	0.00				
54	3X3 SCREEN 25M			\$12.39	0.00				
55	105MM CLOTH SCREEN			\$54.44	0.00				
56	2"X2"X8'			\$2.27	0.00				
58	2"X4"X8'			\$2.98	0.00				
59	2"X4"X10'			\$4.70	0.00				
60	2"X4"X12'			\$5.65	0.00				
61	FALLING PLATES			\$9.90	0.00				
62	B27 PAPER			\$1.65	0.00				
63	3" DOT PAPER			\$1.10	0.00				
64	8" DOT PAPER			\$1.10	0.00				
65	MULTI SIZE DOT PAPER			\$1.10	0.00				
66	PAPER FIG 11,12,13,14 ECT...		INDICATE TYF	\$0.00	0.00				
67	RANGE BOX/12 POINTERS		#1 #2 #3 #4 #5		0				
64	8" DOT PAPER			\$1.10	0.00				
65	MULTI SIZE DOT PAPER			\$1.10	0.00				
66	PAPER FIG 11,12,13,14 ECT...		INDICATE TYF	\$0.00	0.00				
67	RANGE BOX/12 POINTERS		#1 #2 #3 #4 #5		0				
				TOTAL BILL	0.00				
Updated request form can be found on the M: drive at M:\Units\3ASG\G3\Range\Target Shop				COMPLETE FIN CODE	FUND	GL.ACCT.	GRC		

FINANCIAL CONTACT: _____ LOCAL: _____

Date Picked up: _____ Signature: _____
Print Name / Sign

Date Dropped Off: _____ Signature: _____
Print Name / Sign

Notes

1. Requests must be submitted a min 2 weeks prior to pick up.
2. Only one Exercise to be submitted on each request.
3. Fill in all highlighted fields.
4. When Targets are built consider them paid for.
5. Present this form upon pick up.
6. Prices are subject to change.



FIG 11/59,



FIG 12/59



FIG 13, SHORT STAKE 1.4 m
 FIG 13, SUR POTEAU COURT 1.4 m



FIG 20, "RUNNING MAN"
 FIG 20, L'HOMME À LA COURSE

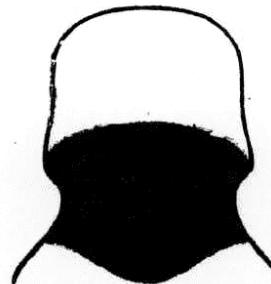
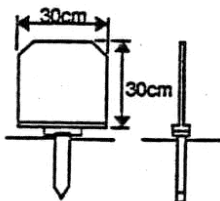
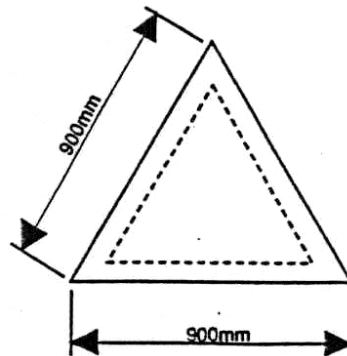


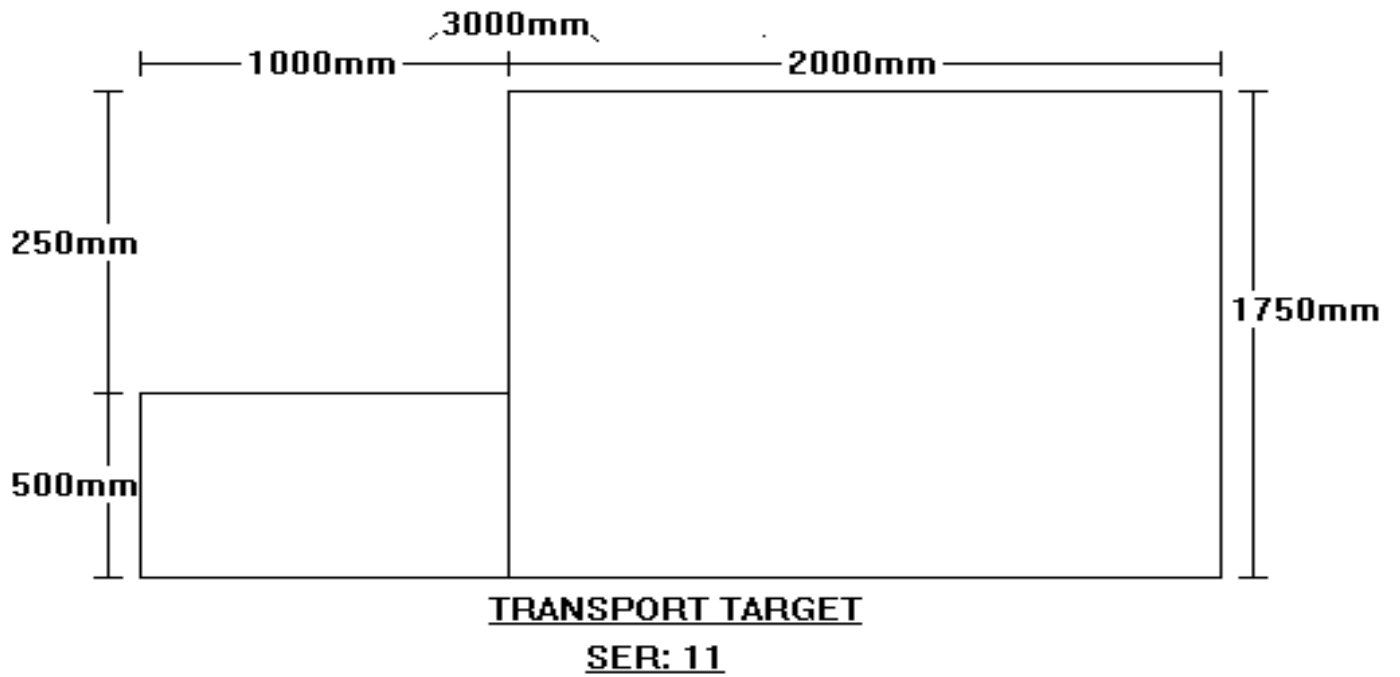
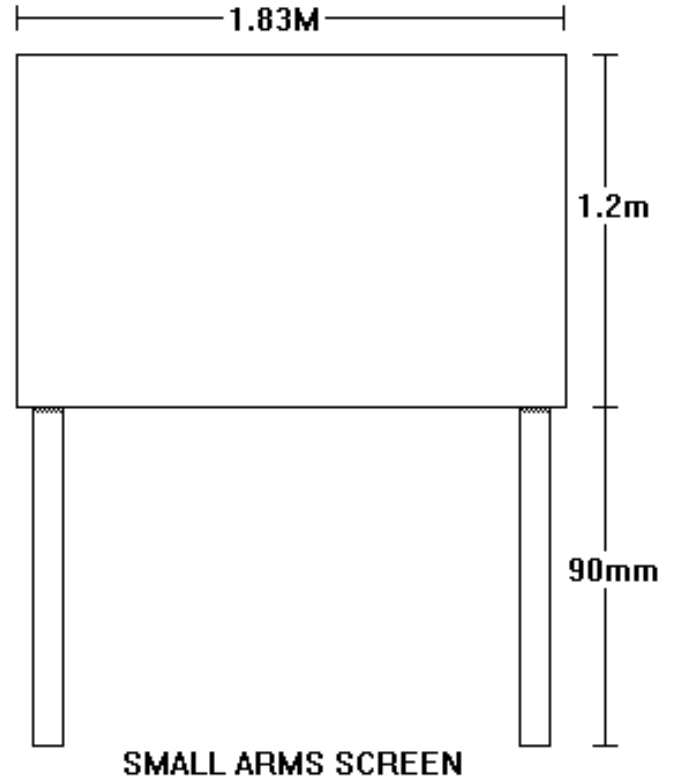
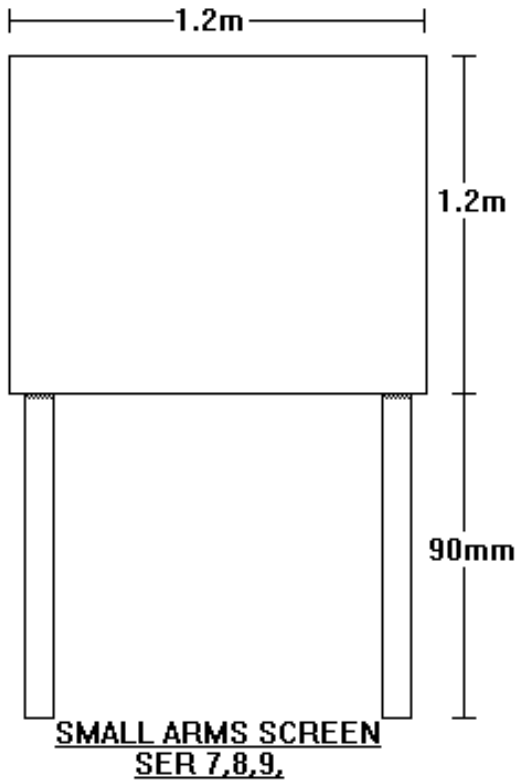
FIG 14, SNAPSHOTTING TARGET
 FIG 14, TIR AU JUGER — COMPÉTITION



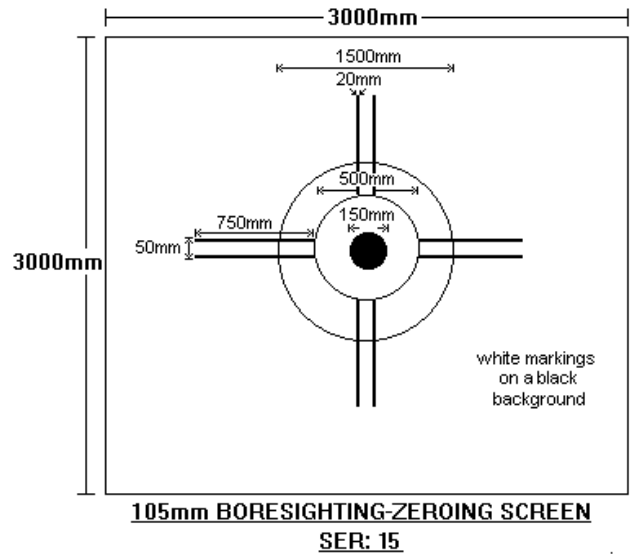
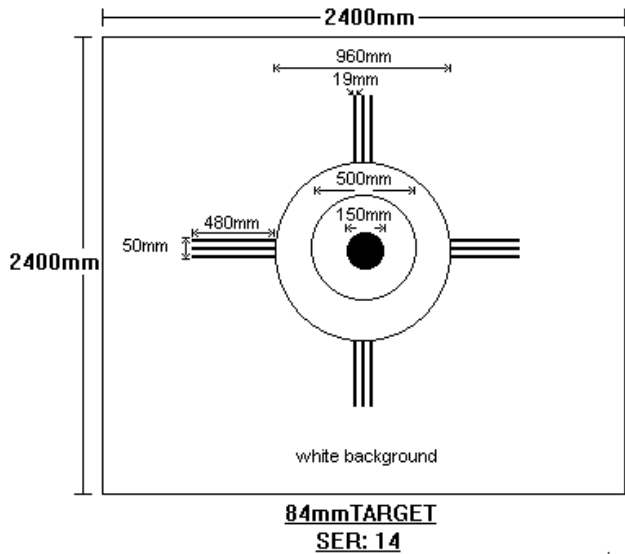
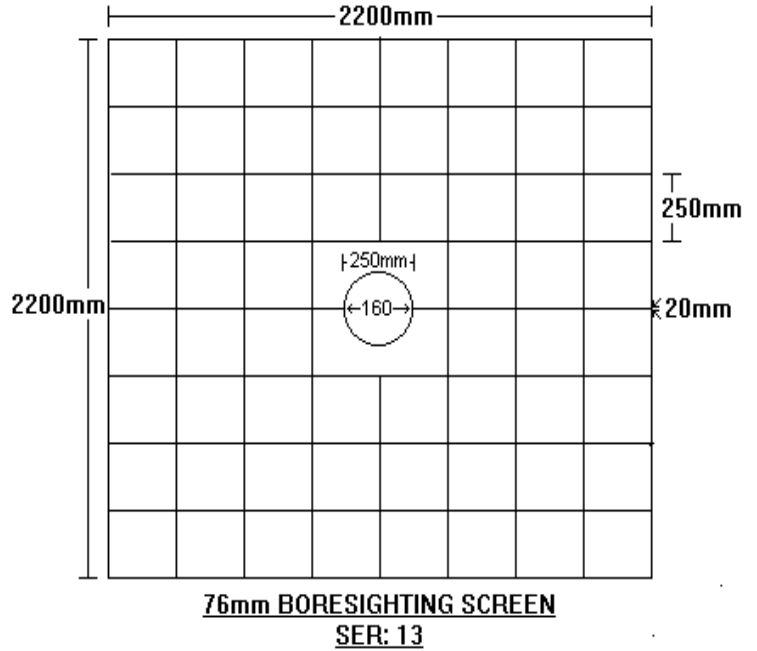
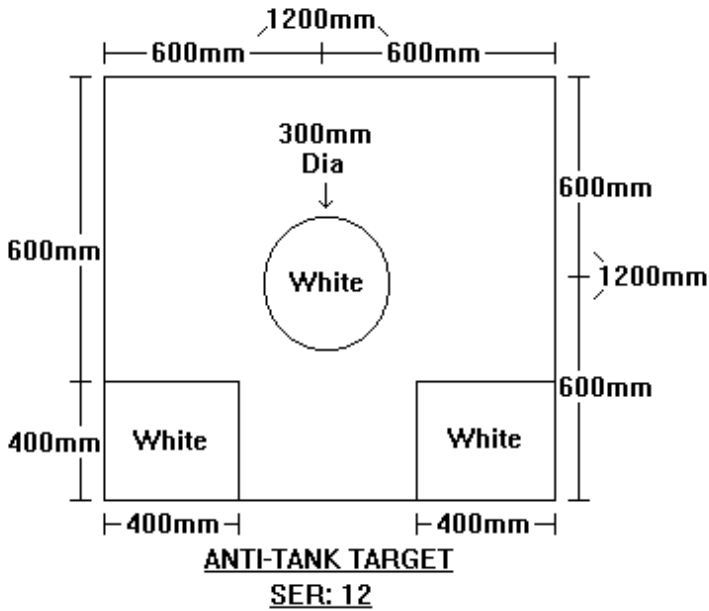
FALLING STEEL PLATE TARGET



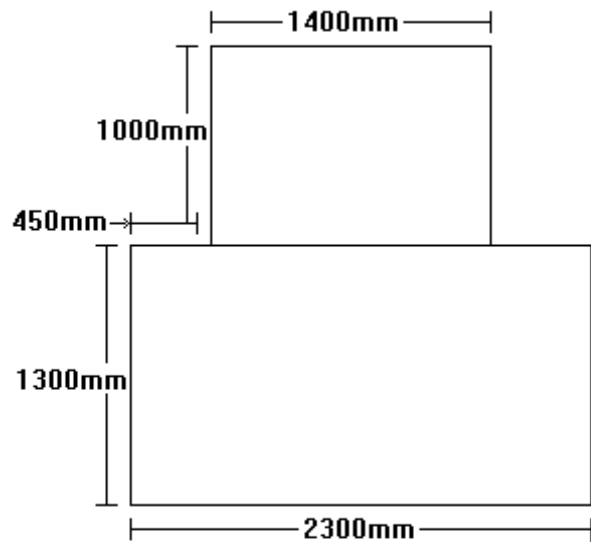
MG POST TARGET



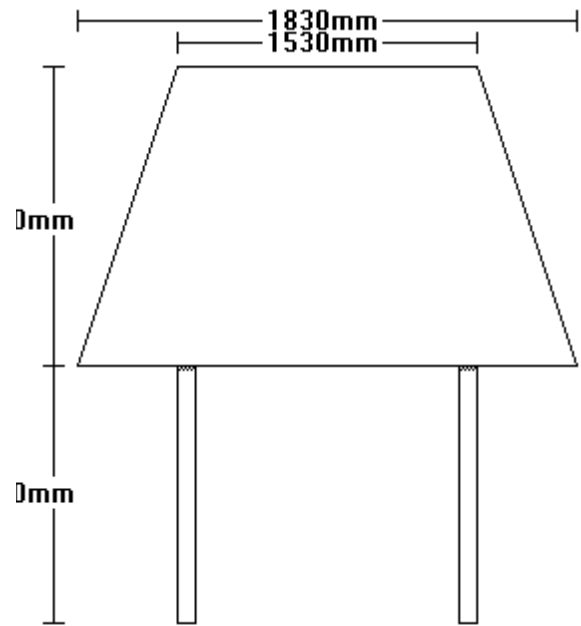
APPENDIX 3
 ANNEX O
 VOLUME 1
 5 CANADIAN DIVISION SUPPORT BASE – RANGE STANDING ORDERS
 EDITION 2018



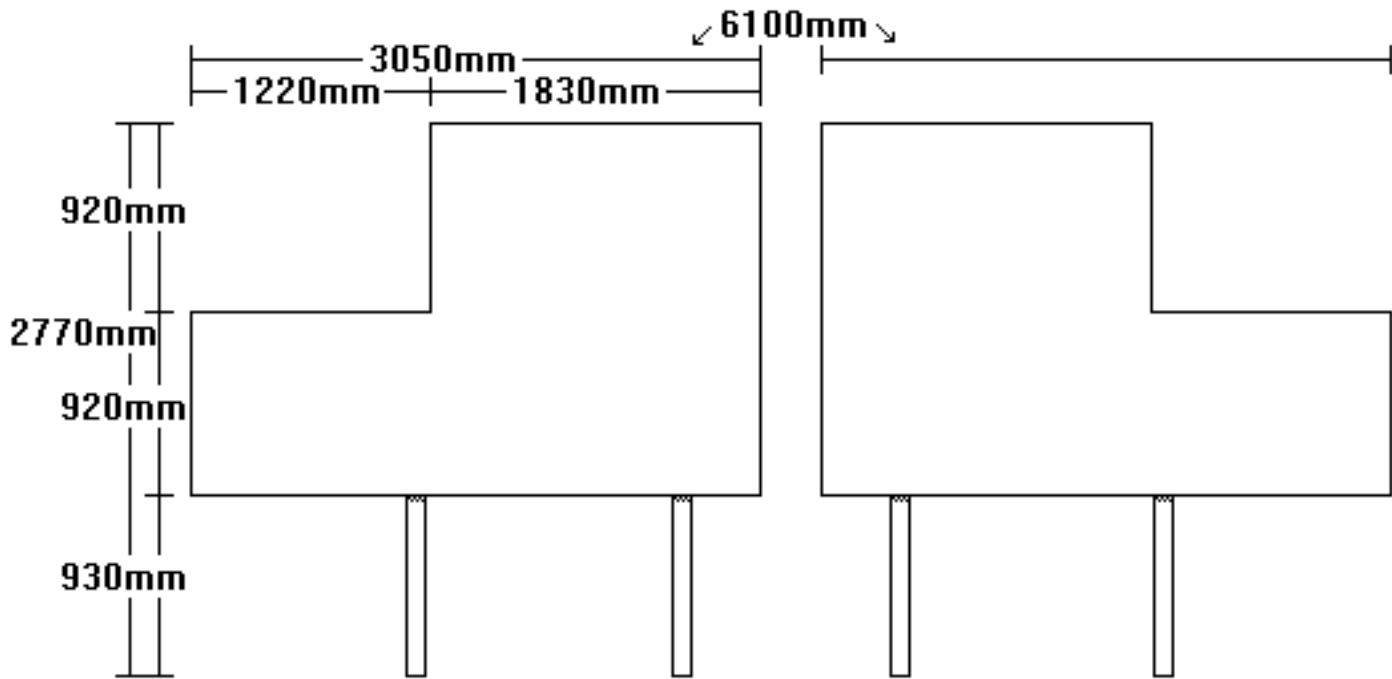
APPENDIX 4
ANNEX O
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 2018



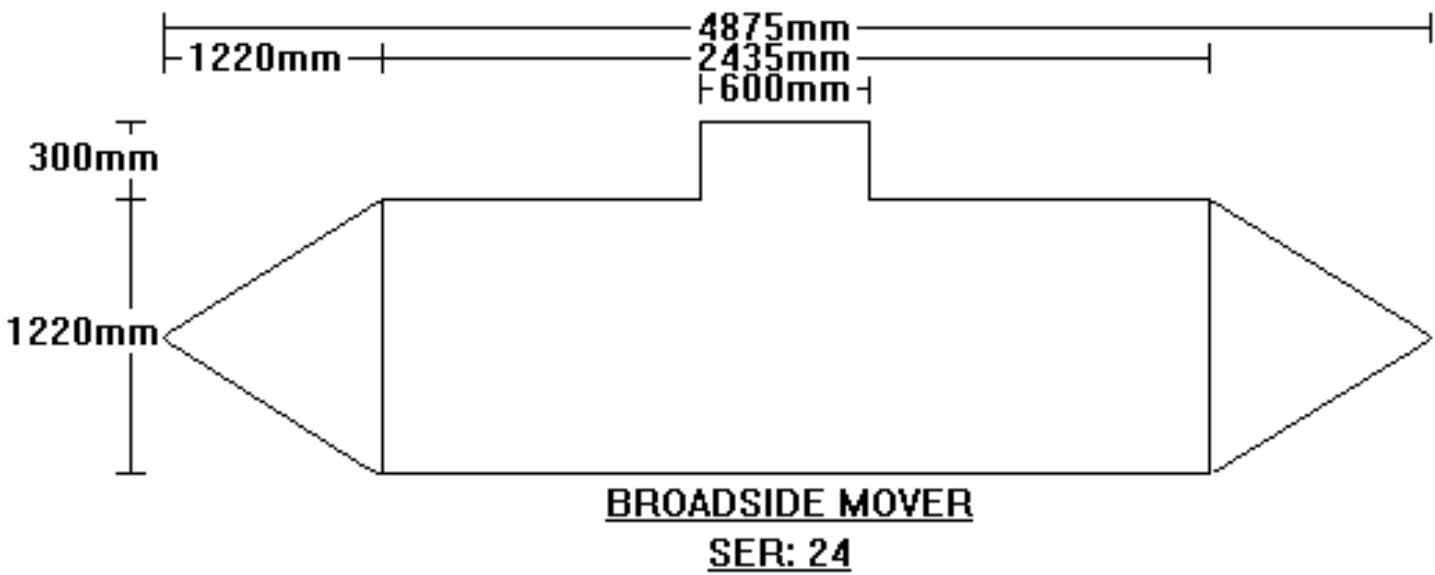
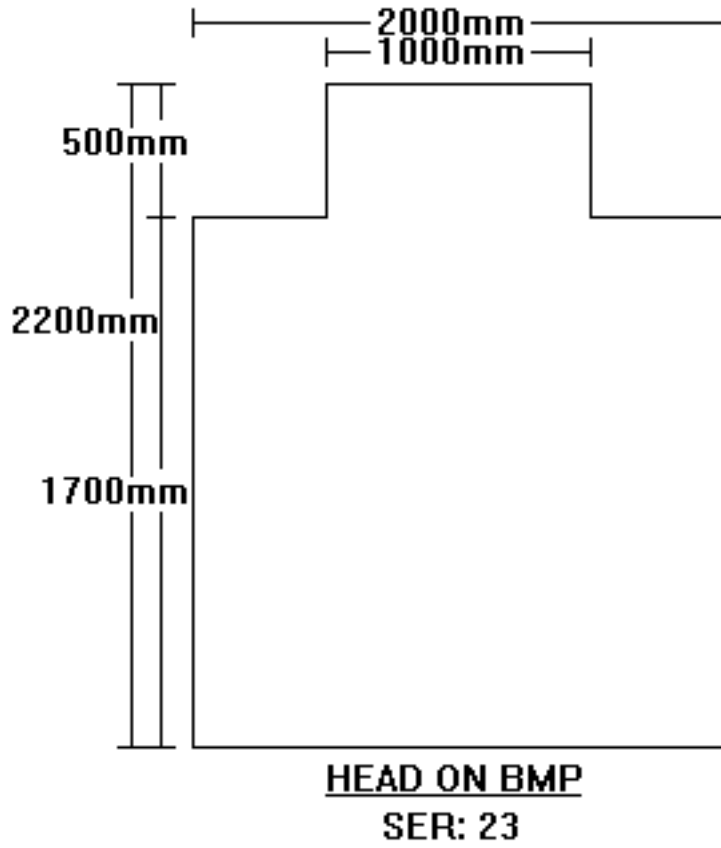
HEAD ON TANK TARGET
SER: 16,17



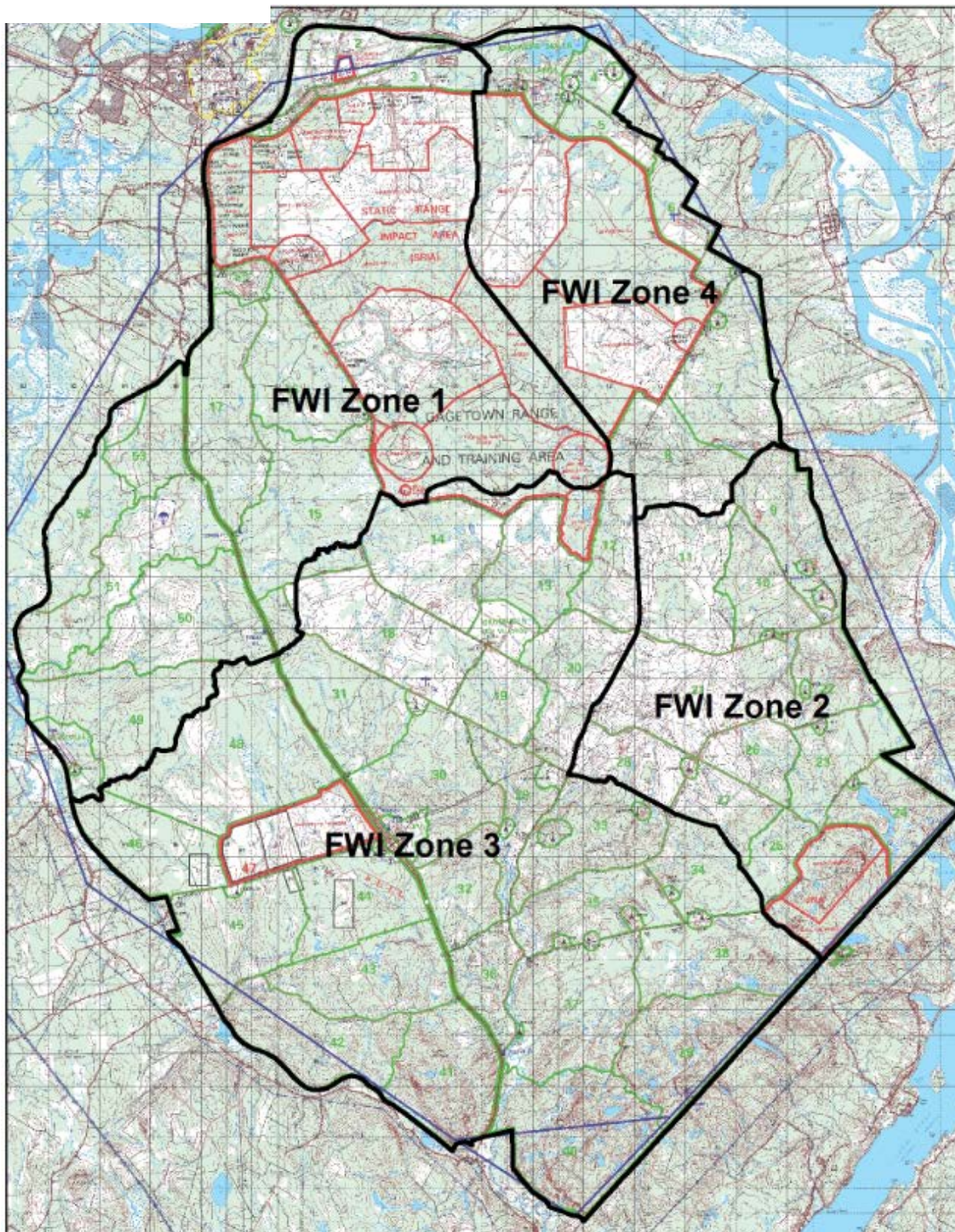
TANK TURRET
SER: 21,22



MTV 2 piece SCREEN
SER: 18,19,20



Annex P
Vol 1
5 CDSB Range Standing Orders



ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

AUTHORIZED CROSSINGS			
AREA 11			
	DITCH	15860	57316
	DITCH	17732	57008
	DITCH	14132	59811
	DITCH	14166	59158
	DITCH	14193	58516
	DITCH	14179	58943
	DITCH	14064	61229
	DITCH	14052	61438
	DITCH	14024	62041
	DITCH	14021	62097
	DITCH	14023	62057
	DITCH	14129	59867
	DITCH	15388	62850
	DITCH	15985	62812
	DITCH	16179	62743
	DITCH	14023	62057
	DITCH	16335	62678
	DITCH	14009	62320
	DITCH	14006	62377
	DITCH	14037	62315
	FORD	16074	58059
	FORD	16175	58198
	FORD	15190	58432
	FORD	16384	58561
	FORD	16659	58884
	FORD	14515	58334
	FORD	17264	57349
	FORD	17321	57599
AREA 20	DITCH	13725	57154
	DITCH	13851	57870
	DITCH	11685	55392
	DITCH	11922	55265
	DITCH	12078	55182
	DITCH	12333	55045
	DITCH	12373	55021
	DITCH	12293	54787
	DITCH	11293	52303
	DITCH	11259	52321
	DITCH	10912	52513
	DITCH	10801	52572
	DITCH	13986	57650
	DITCH	13925	57529
	DITCH	14046	57766
	DITCH	14068	57916
	FORD	12854	56395
	FORD	12679	56241
	FORD	12178	56051
	FORD	11821	55646

ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

AUTHORIZED CROSSINGS			
	FORD	11763	55575
	FORD	13528	57082
AREA 21	DITCH	14507	57689
	DITCH	16952	56940
	DITCH	17385	56916
	DITCH	17677	56989
	DITCH	14429	55659
	DITCH	13947	56147
	DITCH	13928	56159
	DITCH	13304	56366
	DITCH	13834	57354
	DITCH	14200	57857
	DITCH	12328	54902
	DITCH	13827	54015
	DITCH	13150	53764
	DITCH	12610	55143
	DITCH	12696	55277
	DITCH	14169	54755
	DITCH	14285	54509
	DITCH	14341	54413
	DITCH	14346	54317
	DITCH	14267	54542
	DITCH	17083	56912
	DITCH	19804	54691
	DITCH	19647	54637
	DITCH	19489	54585
	DITCH	19349	54538
	DITCH	18663	54303
	DITCH	17244	53824
	DITCH	17045	53754
	DITCH	17360	56910
	DITCH	19814	54695
	DITCH	13304	56363
	DITCH	16914	53656
	FORD	14197	54519
	FORD	13887	54172
	FORD	15577	55021
	FORD	13782	55193
	FORD	14155	54765
	FORD	14413	54593
	FORD	13521	54667
	FORD	13846	55927
	FORD	13991	56611
	FORD	13266	54548
	FORD	16782	55154
	FORD	18381	55537
	FORD	18149	55750
	FORD	13071	54847
	FORD	18430	54968

ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

AUTHORIZED CROSSINGS			
	FORD	18433	55449
	FORD	16696	55245
AREA 26			
	DITCH	19521	54258
	DITCH	19742	54196
	DITCH	19853	54154
	DITCH	18144	54125
	DITCH	17185	53800
	DITCH	17118	53777
	DITCH	18431	51786
	DITCH	17036	52515
	DITCH	17300	52377
	DITCH	17134	52464
	DITCH	18265	51874
	DITCH	17403	53873
	DITCH	16307	52547
	DITCH	16354	52632
	DITCH	16262	52466
	DITCH	16230	52405
	DITCH	16162	52282
	DITCH	16062	52096
	DITCH	15912	51824
	DITCH	17247	50165
	DITCH	17207	50200
	DITCH	15637	50692
	DITCH	15403	50799
	DITCH	15637	50692
AREA 28	DITCH	11739	53430
	DITCH	11596	52790
	DITCH	11497	52482
	DITCH	11455	52395
	DITCH	11790	52179
	DITCH	12367	52078
	DITCH	14455	53870
	DITCH	13372	53607
	DITCH	13435	53657
	DITCH	13449	53694
	DITCH	13414	53750
	DITCH	13276	53790
	DITCH	13006	53757
	DITCH	12904	53865
	DITCH	12649	54110
	DITCH	14486	53854
	DITCH	14807	53688
	DITCH	15128	50956
	DITCH	14191	51453
	DITCH	11590	52761
	DITCH	13397	53528
	FORD	11845	53372

ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

AUTHORIZED CROSSINGS			
	FORD	13436	53532
	FORD	13321	53577
	FORD	13170	53459
	FORD	12292	53214
	FORD	12245	52909
AREA 33	DITCH	11346	52172
	DITCH	11287	52053
	DITCH	15277	50868
	DITCH	15214	50902
	DITCH	14728	51166
	DITCH	15323	50685
	DITCH	15360	50762

WETLAND LAND AREAS RESTRICTED ACCESS			
AREA 11	WETLAND	16104	58092
	WETLAND	15337	58349
	WETLAND	16293	58441
	WETLAND	16559	58791
	WETLAND	14556	58484
	WETLAND	17236	57536
	WETLAND	16965	58589
	WETLAND	17179	57184
	WETLAND	17342	56972
	WETLAND	17296	57062
	WETLAND	17194	58182
	WETLAND	17234	58127
	WETLAND	15959	57875
	WETLAND	15945	57837
	WETLAND	17097	58362
	WETLAND	17131	58218
	WETLAND	17510	57645
	WETLAND	17190	58470
	WETLAND	17460	57920
	WETLAND	17828	57293
	WETLAND	17842	57489
	WETLAND	17846	57590
	WETLAND	17373	58286
	WETLAND	17330	58365
	WETLAND	17281	58502
	WETLAND	17588	58062
	WETLAND	17644	58022
	WETLAND	17856	57795
	WETLAND	17549	57307
	WETLAND	17819	57873
	WETLAND	16965	58263
	WETLAND	17142	58591
	WETLAND	16942	58823

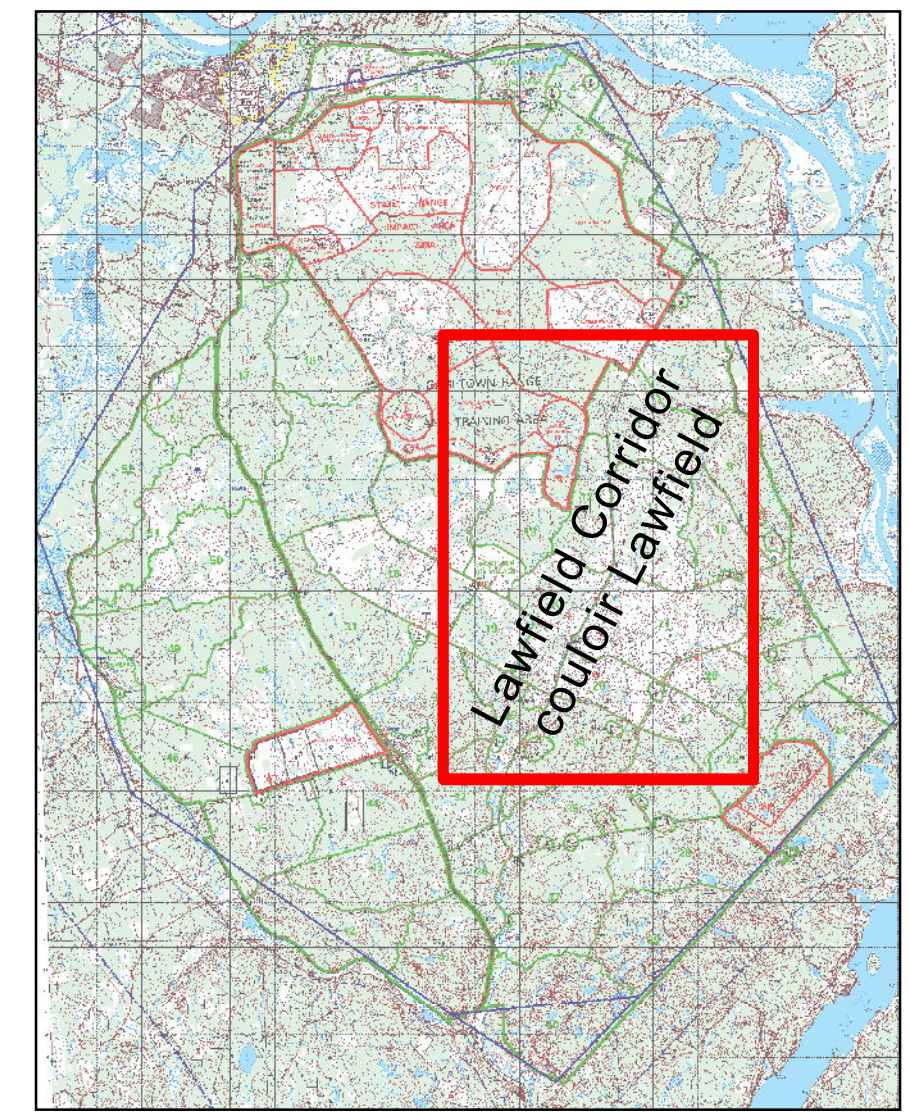
ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

WETLAND LAND AREAS RESTRICTED ACCESS			
AREA 20	WETLAND	13384	56913
	WETLAND	13214	56682
	WETLAND	12995	56503
	WETLAND	12494	56263
	WETLAND	12420	56275
	WETLAND	12162	56041
	WETLAND	12007	55871
	WETLAND	13473	57048
	WETLAND	13537	57179
AREA 21	WETLAND	17079	56793
	WETLAND	14495	55563
	WETLAND	13967	54220
	WETLAND	13866	54090
	WETLAND	15200	54616
	WETLAND	15681	54822
	WETLAND	15807	54901
	WETLAND	13433	54766
	WETLAND	13911	56068
	WETLAND	14069	56682
	WETLAND	13958	56291
	WETLAND	13980	57371
	WETLAND	13236	54138
	WETLAND	13376	54117
	WETLAND	13474	54182
	WETLAND	13509	54221
	WETLAND	13533	54249
	WETLAND	13290	54608
	WETLAND	17962	56336
	WETLAND	16908	55721
	WETLAND	16923	55844
	WETLAND	17017	56200
	WETLAND	17031	56249
	WETLAND	17096	56362
	WETLAND	17197	56576
	WETLAND	17255	56697
	WETLAND	17345	56835
	WETLAND	16829	56209
	WETLAND	16892	56293
	WETLAND	16881	56255
	WETLAND	16918	56404
	WETLAND	16871	56200
	WETLAND	16800	55946
	WETLAND	13832	55158
	WETLAND	13923	55079
	WETLAND	13807	54409
	WETLAND	13102	54917
	WETLAND	12948	54598
	WETLAND	13363	54793

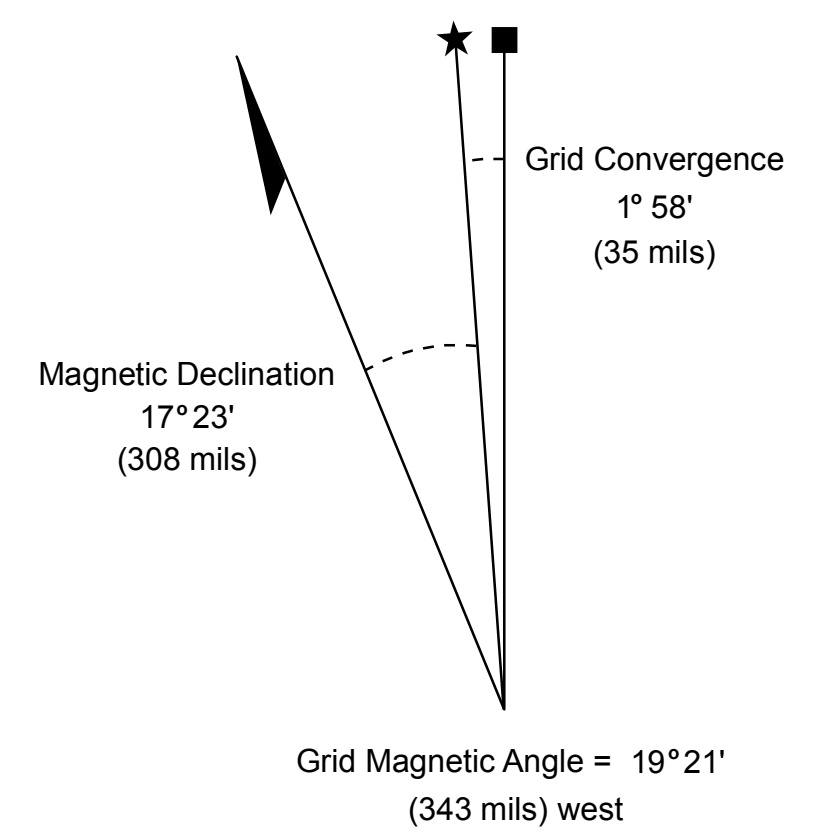
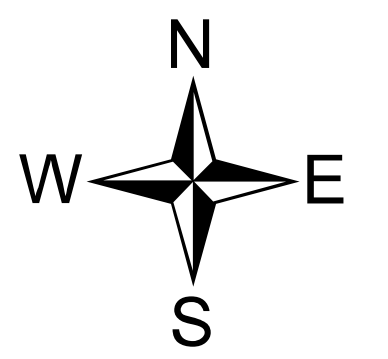
ANNEX Q
VOLUME 1
5 CANADIAN DIVISION SUPPORT BASE
RANGE STANDING ORDERS
EDITION 2018

WETLAND LAND AREAS RESTRICTED ACCESS			
	WETLAND	19082	54837
	WETLAND	18638	55067
	WETLAND	17145	54229
	WETLAND	16888	54804
	WETLAND	16174	55200
	WETLAND	16243	55285
	WETLAND	16415	55393
	WETLAND	16744	55033
	WETLAND	16777	54832
	WETLAND	18607	54478
AREA 28	WETLAND	11732	52855
	WETLAND	11787	52883
	WETLAND	12005	52968
	WETLAND	12138	53065
	WETLAND	12927	53692
	WETLAND	12928	52769
	WETLAND	11996	52774
	WETLAND	12162	53051
	WETLAND	12187	53098
	WETLAND	13047	53536
	WETLAND	12839	53604
	WETLAND	13664	53794
	WETLAND	12216	52887
AREA 33	Wetland	11507	52090
	Wetland	11603	52111

Note: The Prepared Crossing map can be found on the Range Control Main Page. <http://acims.mil.ca/sp/5CDSGOpsSvcBrRgeCntl/default.aspx>



MCE 24 Edition 19



Legend

- bridge
- cemetery
- meteorology tower
- wooded
- watercourse / wetland

Hardened Crossing

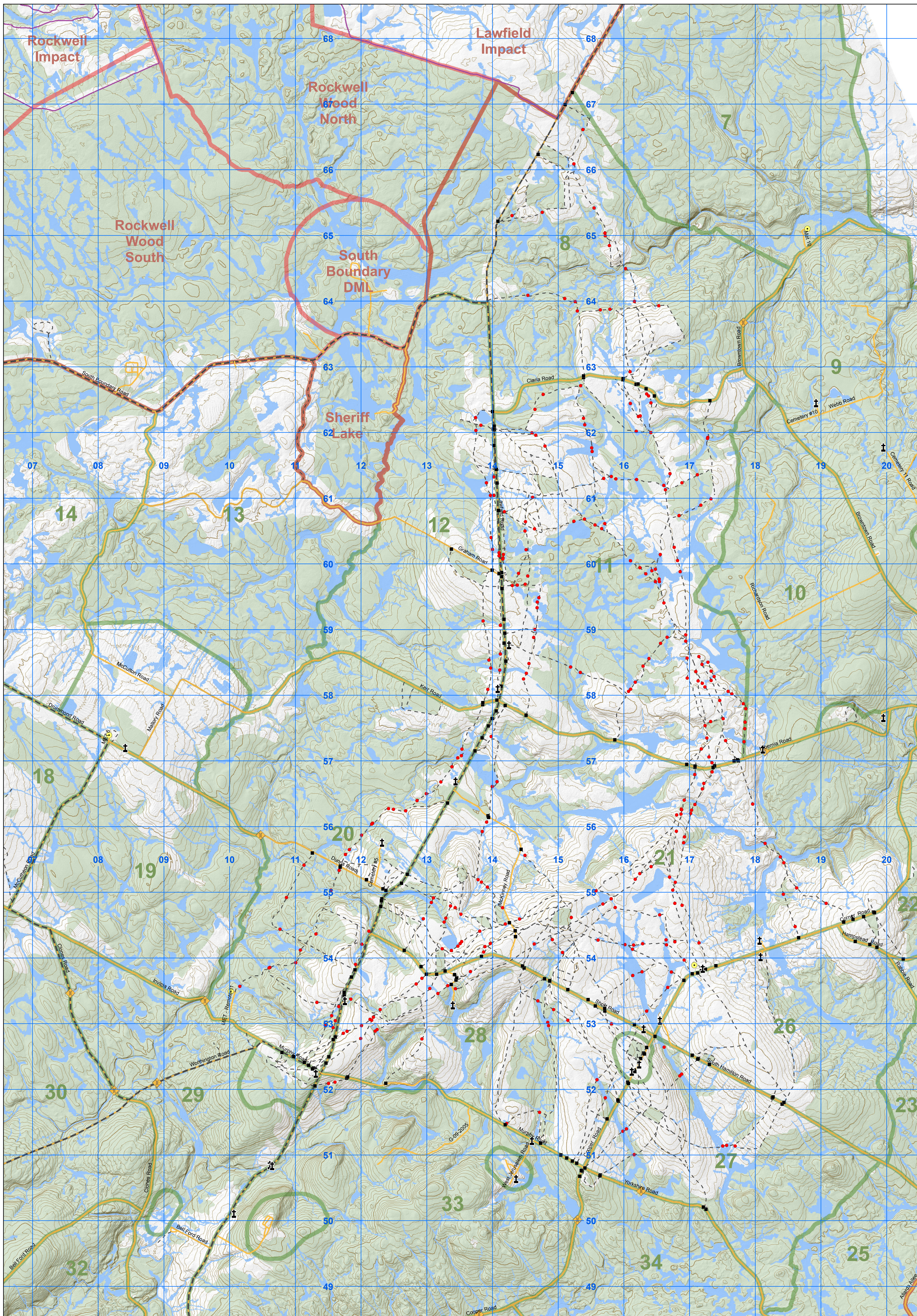
- ditch crossing
- ford / wetland

Légende

- pont
- cimetière
- tour météorologique
- boisé
- cours d'eau / zones humides

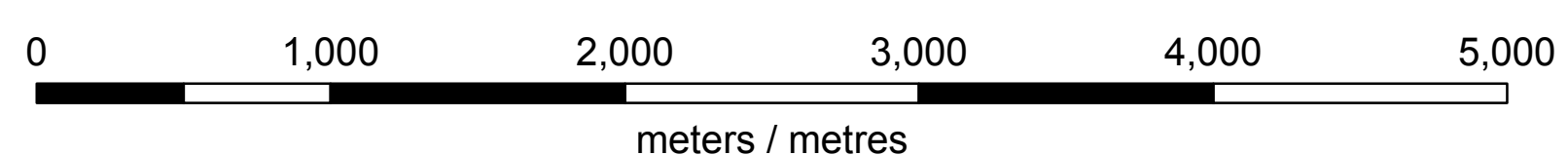
Traversée Durcie

- traverse de fossé
- traverse à gué / zones humides



ÉQUIDISTANCE DES COURBES 5 MÈTRES
 Altitudes en mètres au-dessus du niveau moyen de la mer
 Projection transverse de Mercator
 Système géodésique mondial 1984 (WGS 84)

APPROVED CROSSINGS / PASSAGES APPROUVÉS



meters / mètres

CONTOUR INTERVAL 5 METERS
 Elevations in Metres above Mean Sea Level
 Transverse Mercator Projection
 World Geodetic System 1984 (WGS 84)



ESB May 16



Produced by / Produit par: Geo Cell
 Real Property Operations Detachment (Gagetown)
 Détachement des opérations immobilières (Gagetown)

TROOP SHELTERS, BUILDING NUMBER AND GRIDS

Reichwald range	RWR-1	984-772
Amiens range	AR-1	986-772
New Castle grenade range	TF-10	998-767
Wellington range	LM-2	005-775
Tow Tracking range	T-4	032-791
Hersey O.P.	HI-3	105-772
Driving circuit	T-22	011-789
Batouche range	RR-8	981-725
Firing Point 6	T-24	061-792
Vimy range	VR-1	973-737
Mons range	MR-1	972-749
Lawfield OP	LI-2	165-693
Rockwell wood south	RI-3	097-631
Firing Points 5	TB-18	048-789
Rockwell impact O.P. A	RI-1	024-687
Area 2	DDT-1	023-806
Airstrip #1 GP	ASI-4	099-788
Coy Def Posn (Argus)	AI-2	004-722
Hersey (old basic charge rge)	MM-1	084-781
Firing Point 4	TB-17	042-789
Enniskillen Range Complex	EN2	996-483
SBDR	RI-7	121-636
SCR	R1323	050-632
Coy Def Position	T-23	004-721

Insert Colored Page Separator Here

5 CANADIAN DIVISION SUPPORT BASE

RANGE STANDING ORDERS VOLUME 2

EDITION 2018

TABLE OF CONTENTS

CHAPTER 2 - RANGE AND TRAINING AREA FACILITIES

2.101	GENERAL
2.102	DOCUMENTATION AND EQUIPMENT
2.103	BEARINGS
2.104	TRAINING AREA DESCRIPTIONS

LIST OF ANNEXES

Annex	Appendix	Fig/Maps	Details
A			MODEL AIRCRAFT FLYING
B			ARDENNES, FLANDERS, AND SOMME 50 METRE OUTDOOR RANGES
	1		RANGE SAFETY BRIEFING
C			OUTDOOR 50 METER BIATHLON RANGE
D			BASE DRY TRAINING FACILITIES
	1		OBSTACLE COURSE
	2		FIBUA RANGE
	3		VETERAN'S ABSEIL RAPPEL TRAINING
	4		RAPPEL TOWER
E			SMALL ARMS RANGE COMPLEX
	1		AMIENS RANGE
	2		BATOUCHE RANGE
	3		MONS 400 M CONVENTIONAL RANGE
	4		REICHWALD (AUTOMATED TARGET SYSTEM) RANGE
	5		VIMY 400 M CONVENTIONAL RANGE
F			FIXED FIRING POINTS
	1		FIRING POINT 4
		1	4A
		2	4B
		3	4C
		4	4D
		5	4F
		6	4G
		7	4J
		8	4K
		9	4L
	2		FIRING POINT 6
G			INDIRECT FIRE WEAPONS
	1		IMPACT AREAS
	2		DANGER CLOSE – POSITIVE SAFETY
H			VERDUN GRENADE RANGE
I			CLOSE QUARTER BATTLE LANES
		1	CQBL's Drummond Rd

Annex	Appendix	Fig/Maps	Details
		2	CQBL Lane 1
		3	CQBL Lane 2
		4	CQBL Lane 3
		5	CQBL Lane 4
		6	CQBL Lane 5
		7	CQBL Lane 6
		8	CQBL Lane 7
J			MINE WARFARE AND DEMOLITION RANGES
	1		DRY MINE WARFARE TRAINING AREA
	2		SMALL CHARGE DEMOLITION RGE
	3		DRUMMOND DEMOLITION RGE
	4		SOUTH BOUNDARY DEMOLITION RGE
K			CBRN RANGE
L			AUSTERE VILLAGE (ESTA)
	1		AIRSTRIP 1
M			WELLINGTON ROCKET LAUNCHER RANGE
		1	WR 1
		2	WR 2
		3	WR 3
		4	WR 5
N			14.5 MM TOW TRACKING RANGE
O			WATERMANSHIP TRAINING
	1		AMPHIBIOUS FAST WATER SITE
	2		AMPHIBIOUS STILL WATER SITE
P			HEAVY EQUIPMENT TRAINING AREA
	1		KNOWLTON HILL AREA
Q			ADVANCED LIVE FIRE TRAINING
R			AIR WEAPONS RANGES
S			AIR DEFENCE MANPAD RANGE
T			ARGUS COY DEFENSIVE POSITION
	1		1D
	2		1F
	3		1G
U			ENNINSKILLEN
		1	E2W/E3
		2	E2W
		3	CQBL'S COMPOSITE
		4	CQBL - LANE 1
		5	CQBL - LANE 2
		6	CQBL - LANE 3
		7	CQBL - LANE 4
		8	E1
		9	E2
		10	E3
		11	E4
		12	E5
	1		PLATOON POSITIONS
	2		LIVE FIRE SHOOT HOUSE (LFSH)
	2A		TRACE - LFSH
V			MARNE RIFLE GRENADE RANGE
		1	RG1
W			PETERSVILLE

Annex	Appendix	Fig/Maps	Details
	1		CAMP PV POL POINT
X			GRONINGEN URBAN OPS VILLAGE
	1		COURCELETTE
	2		MOLOTOV COCKTAIL SITE
Y			UNMANNED AIRCRAFT SYSTEM (UAS) TRG
	1		RAVEN B TEMPLATE
Z			RANGE AND TRAINING AREA LICENSED WEAPONS AND AMMUNITION AUTH
	1		LASER SAFETY
AA			HERSEY LIGHT BREACHING FACILITY
AB			ROZ - KNOWLTON
AC			ROZ – SARC TCW (TRANSIT CORRIDOR WEST)

5 CANADIAN DIVISION SUPPORT BASE

RANGE STANDING ORDERS

VOLUME 2

RANGE AND TRAINING AREA FACILITIES

EDITION 2018

2.101 GENERAL

1. This chapter contains regulations, which govern the use of all Range and Training Area facilities within 5 Canadian Division Support Base.
2. Regulations detailed in Chapter 1 of these Range Instructions, B-GL-381-001/TS-000 and applicable weapons manuals shall be applied.

2.102 DOCUMENTATION AND EQUIPMENT

When using the 5 Canadian Division Support Base Ranges and Training Areas, the following documentation and equipment will be in possession of the user:

- a. for dry training:
 - (1) Range Standing Orders;
 - (2) DRSOs;
 - (3) **current map** of the training area; and
 - (4) communications;
- b. in addition for live fire exercises:
 - (1) CFP B-GL-381-001/TS-000;
 - (2) approved safety template traces;
 - (3) CFP 216 extracts (issued with ammunition from ASA when applicable);
 - (4) applicable weapon manuals for the training being conducted; and
 - (5) Range Clearance certificate.

2.103 BEARINGS

All bearings given in these orders are GRID.

2.104 TRAINING AREA DESCRIPTIONS

1. In addition to the fixed ranges, firing points and impact areas, 5 Canadian Division Support Base has approximately 1088 square kilometres of training and manoeuvre areas. These areas are divided into 55 control areas as defined on the current Edition of the 5 Canadian Division Support Base Training Area Map. The areas are further divided into the Static Range Impact Area (RED) and the Training Area (GREEN).

2. To assist units in selecting the right training area, a small description of each area is given in the next paras. Although suggested uses for each area are included, the area is not restricted to those uses.

STATIC RANGE IMPACT AREA (SRIA) (RED)

3. **Description.** The SRIA is bordered in **red** on the map and encompasses the following:
- a. **Impact/Ricochet Areas:** Argus, Greenfield, Hersey, Rockwell, Lawfield, Mountain, Argus Wood, Dingee Wood, Rockwell Wood North, Rockwell Wood South, and Hamilton Wood (note that although Enniskillen is no longer used as an impact area, it is still treated as such as it was in the past therefore the UXO threat still exists) E2 and E3 in the western portion of Enniskillen have been cleared visually of UXO and dismounted manouevre is permitted, however no off-road manouevre will occur in E2 or E3, and the eastern portion of Enniskillen has never been cleared so it is treated the same as all other impact areas; and
 - b. **Ranges:** Small Arms Range Complex, Field Firing, Wellington, Tow Tracking, Anti-Armour, Grenade Range Complex, Company Defensive Position, Demolition Ranges: Drummond, South Boundary, Small Charge at GR 050 634, and Basic Charge (not use for demolition, can be used for impact and ricochet),
4. **Authorized Use.** The SRIA is designed as a common impact area for clean and dirty fire to authorized types of munitions and weapons.
5. **Restrictions.** In places, the SRIA is heavily contaminated with unexploded munitions. Extreme caution must be exercised during any movement within the SRIA as follows:
- a. blackout driving in the SRIA is prohibited;
 - b. weapons shall not be aimed or directed so as to impact on:
 - (1) main roads, bridges, or met stations;
 - (2) the AFV battle runs south of Firing Points 4 and 6;
 - (3) the moving and static target system on Firing Point 4;
 - (4) the prepared trench position at the Company Defense Position;
 - (5) the target system in Argus Impact;
 - (6) Range Control Arc Markers or other control devices; and
 - (7) trees or tree lines when the Fire Index exceeds low.
 - c. when using Lawfield and Rockwell Impact, a minimum of 1000 m or positive safety whichever is greater must to be kept safe from MSR (Lawfield Road and Drummond Road);
 - d. carrier shells must function within assigned impact areas in the open; however it may land within the assigned ricochet area in the open; The point of burst/impact for illumination, smoke and C182 must be within assigned impact areas. The predicted point of non-functioning fuse/BBU may land within assigned ricochet areas. Note: No rounds which employ the BBU may be fired without a minimum of 30 seconds time of flight, and will not be permitted to be fired in dry conditions at all.
 - e. Hamilton Wood is only used for clean fire exercises; (it is used as a safety buffer for indirect fire weapons using Mountain Impact)

f. Argus Wood, Dingee Wood, Rockwell Wood North, and Rockwell Wood South are used for ricochet.

6. **Manoeuvre in the SRIA.** Authorization for manoeuvre within the SRIA is categorized as follows:

a. Routine deployments into the following areas may be authorized by either the IC Range Ops, Coordinator Range Safety or the Range Booking NCO:

- (1) Small Arms Range Complex;
- (2) 50 m Range Complex;
- (3) Argus Coy Defensive Position;
- (4) Drummond Demolition Range;
- (5) Small Charge Range;
- (6) Underwater Demolition Range;
- (7) South Boundary Demolition Range;
- (8) Anti Armour Range North of Greenfield;
- (9) TOW Tracking Range to include the 14.5 mm Range;
- (10) Wellington Range; and
- (11) Grenade Range Complex.

b. The RCO may authorize mounted and dismounted activities as follows:

- (1) Within the 1000 m safety boundary of SRIA which borders all MSR's;
- (2) Within 620 m safety boundary of the SRIA which does not border MSR's;
- (3) Deployment and Static Ops within a radius of 100 m of the Hersey Bunker (without EOD support) (see note 1);
- (4) Deployment into Rockwell Bunker (with EOD support);
- (5) Mobile Ops in armoured vehicles within the entire SRIA (see note 1);
- (6) Established Gun Positions;
- (7) Entrance from gates 15 or 17 and travel to George Lake through Mountain Impact Area (with EOD support);
- (8) Target placement vehicles within the SRIA (with EOD support);
- (9) Maintenance vehicles including Forestry (with EOD support);
- (10) Emergency/Fire vehicles;
- (11) Care will be taken when crossing or using roads, lanes, firebreaks, or developed infrastructures within the SRIA. Any damage is to be reported to Range Control on the Range Clearance Form.

c. Mounted, Dismounted Manoeuvres, Mobile Ops both dismounted or in soft skin vehicles outside the areas mentioned above are prohibited without the authority of the CO Ops Svcs Br. Requests go through the RCO. **Digging anywhere** within the SRIA is prohibited without permission from the CO Ops Svcs Br, and request through the RCO.

Note 1 – Mobile Ops throughout the entire SRIA will require the user to have exclusive use of the Impact Area, normally only one Impact Area per user will be allotted as exclusive use. Static Ops in locations authorized above (in para b.) will not require exclusive use of the Impact Area; however, it is the **users responsibility to coordinate its location with all other users and keep Range Control informed at all times of their location.**

TRAINING AREA (GREEN)

7. **Description.** The Training Area is bound and numbered in **Green** on the map. It is divided in three: General Manoeuvre Area (GMA), Dismounted Manoeuvre Area (DMA) and Training Areas.

8. **Authorized Use.** Although somewhat contaminated from previous use, the Training Areas will be treated as dud free. All types of weapons and ammunition less those capable of producing blinds are authorized for use in **Green** areas. Exceptions are:

- a. demolitions may be authorized by the CO Ops Svcs Br in **Green** areas. All misfires must be destroyed by the user prior to leaving the area;
- b. gas grenades may be used. All blinds must be marked and reported to Range Control by the user prior to leaving the area and empty containers and projectiles picked up. The user will place a sentry on any road which the gas may cross; and
- c. pyrotechnics and flares are authorized within CYR 724 only (exceptions may be approved by Range Control); all blinds caused by the user must be located, marked and reported to Range Control. **Green** areas may be authorized for recreational use, and therefore, it is imperative that blind pyrotechnics are destroyed.

9. **Restrictions**

- a. **Field Firing**. Upon Range Control approval of a field firing template, field firing of non-blind producing ammunition may be conducted anywhere within the training area. The following restrictions apply:
 - (1) firing near Range Boundaries - weapons are not to be fired from a position, nor is ammunition to impact, closer to Non-DND property than the Positive Safe Distance for that weapon and ammunition;
 - (2) normally, only one MSR will be closed at a time;
 - (3) for aircraft target marking purposes Smoke BE (not WP) may be used with the written authority of the Commander 5 Canadian Division Support Group. Smoke will be directed so as to impact in either a Type 1 or Type 2 area of blinds contamination;
 - (4) when live firing is authorized, sentries will be located at all roads entering the areas.

10. Attached, as annexes are the details for use of all facilities available. More detailed information concerning each area is available from Range Control.

11. The next paragraphs, contain a description of each area and are divided as followed:

- a. vegetation: percentage of trees, type of soil;
- b. facilities: facilities available; site, building, bivouac, tower etc;
- c. activities: special activity which can occur in the area other than normal training;
- d. restrictions: any restriction applicable to the area.

12. AREA 1

- a. vegetation: narrow, 100 % cleared;
- b. facilities: vehicle wash rack, target building, driving circuit and classroom;
- c. restrictions: clean training area, limited tactical deployment and no on foot trg.

13. AREA 2

- a. vegetation: 95 % cleared;
- b. facilities: Courcelette Urban Operations Site, Trench and Wire Site, Buildings DDT-1 (Tp shelter or classroom), requires 5K AC generator;
- c. activities: Infantry Dry Training Area, and 403 Sqn for flying and touch down;
- d. restrictions: All wheeled vehicles are restricted to using authorized roads only. Tracked vehicles are prohibited. No use of para-flare (outside of CYR 724).

14. AREA 3

- a. vegetation: 40 % covered by trees, level ground;
 - b. facilities: Sanitary Landfill Site (GR 041 703), and the Ammunition Supply Area (ASA at GR 064 803);
 - c. activities: normal;
 - d. restrictions: the ASA is **out of bounds**. No overflight authorized over the ASA and all Ammunition Depots. No on foot trg.
15. ENGINEER SKILLS TRAINING AREA
- a. vegetation: 90 % wooded, Swan Creek Lake;
 - b. facilities: engineer buildings and launching ramps, Amphibious Still Water Site (GR 102 807), Dry Mine warfare Training Area, Austere Village, Airstrip 1, POL station and Tp shelter (GR 099 788);
 - c. activities: bridging, amphibious assault boat trg;
 - d. restrictions: guns can be deployed South of 79 Easting, and not suitable for mounted training.
16. AREA 4
- a. vegetation: 60 % wooded;
 - b. facilities: bivouacs: Little Swan and Hersey North, Temporary Field Ammunition Storage Berms;
 - c. activities: limited mounted training, 403 Sqn for flying and touch down;
 - d. restrictions: When Temporary Field Ammunition Storage is used, no overflight is authorized.
17. AREAS 5 and 6
- a. vegetation: 75 % wooded;
 - b. facilities: Airstrip 2 and 3, Tp shelters on both Airstrip, and bivouacs: Hersey South and Oak;
 - c. activities: normal;
 - d. restrictions: **Airstrips are out of bounds**. When guns are deployed either at Airstrip 2 or 3, they will stay South- West of Airstrips. A zone of 100 metres will be kept safe from Shirley Road and helicopter operations will stay North-East of Airstrips.
18. AREA 7
- a. vegetation: except for the area adjacent to the Lawfield Road, the area is covered by trees and swamp;
 - b. facilities: Met Station 4, Tp shelter GR 165 693, Lawfield Bivouac;
 - c. activities: advanced dismounted training;
 - d. restrictions: building for Forestry and Met Tower **are out of bounds**.
19. AREAS 8, 11, 12, 20, 21, 26, 27 and 28 (GMA)
- a. vegetation: 85 % cleared of wood, considerable small swamps;;
 - b. facilities: Bivouacs: Clark and Springbok, Met Tower 2
 - c. activities: all type of dry training including Demolition Guard and Obstacle Crossing (Fording);
 - d. restrictions:
20. AREAS 9, 10, 22, 23
- a. vegetation: completely covered with heavy growth, and most part is hilly ground;
 - b. facilities: bivouacs: Kelly, Hibernia, Clark, Corner and Manor, Forestry Lookout Tower, RRB site at GR 198 597;
 - c. activities: dismounted training, Demolition Guard trg may be conducted at the Bridge sites;
 - d. restrictions: Hampstead Road is permanently blocked at the Camp Boundary. No access into or onto the training area is permitted.
21. AREA 24

- a. vegetation: 75 % wooded, George Lake dominates the area. The shore line is rocky and steep;
 - b. facilities: bivouac: George;
 - c. activities: area suitable for amphibious/assault boat trg;
 - d. restrictions: Access from Rams Wheel Road.
22. AREA 25
- a. vegetation: completely covered with heavy growth, and most part is hilly ground;
 - b. facilities:
 - c. activities: dismounted training;
 - d. restrictions: Access from Rams Wheel Road with four wheel drive.
23. AREAS 13, 14, 15, 16, 17, 18, 19
- a. vegetation: 70% covered by trees, heavy willow and swamps;
 - b. facilities: CBQLs;
 - c. activities: dismounted and jungle training;
 - d. restrictions: when CBQLs are used, area 17 is use as ricochet and Barriers 24 and 31 will be locked.
24. AREA PETERSVILLE
- a. vegetation: 100 % cleared;
 - b. facilities: Petersville Camp,
 - c. restrictions: No gun/AD deployment authorized.
25. AREA WORTHINGTON TANK PARK
- a. vegetation: 100 % cleared;
 - b. facilities: bivouac: Worthington,
 - c. activities: bivouacking;
 - d. restrictions: maintenance buildings are under control of Armour School.
26. AREA 29
- a. vegetation: most covered by trees Nerepis River;
 - b. facilities: bivouac: Bell (mobile laundry unit site);
 - c. activities: open areas suitable for dismounted trg, bridge demolition guard, amphibious trg and Fording site;
 - d. restrictions: Worthington Tank Park is not part of area 29.
27. AREAS 30, 31 and 32
- a. vegetation: fully covered by trees, heavy forest, rolling hills, swamps and heavy undergrowth;
 - b. facilities: bivouac: Clones;
 - c. activities: dismounted trg;
 - d. restrictions: Morisson Pit (GR 069 454) is used by civilian demolition contractor and is **out of bounds.**
28. AREAS 33
- a. vegetation: 85 % wooded by thick trees, swamps and steep hills;
 - b. facilities: bivouacs: Cootes and Jerusalem;
 - c. activities: all types of dismounted area;
 - d. restrictions:
29. AREAS 34

- a. vegetation: 95 % wooded by thick trees, swamps and steep hills;
 - b. facilities: bivouacs: Elder Jackson and Olinville;
 - c. activities: all types of dismounted trg;
 - d. restrictions:
30. AREAS 35
- a. vegetation: 90 % wooded by thick trees, swamps and steep hills;
 - b. facilities: bivouacs: Lyons, Nerepis and Hearst;
 - c. activities: all types of dismounted area drills;
 - d. restrictions:
31. AREAS 36
- a. vegetation: 95 % wooded by thick trees, swamps and steep hills;
 - b. facilities:
 - c. activities: limited trg,
 - d. restrictions:
32. AREAS 37
- a. vegetation: 80 % wooded by thick trees, swamps and steep hills;
 - b. facilities: bivouacs: Fowlers and Neperis, mobile laundry unit site, Met Tower 5;
 - c. activities: dismounted trg, demolition guards and defensive position preparation;
 - d. restrictions: tracks are passable in dry weather.
33. AREAS 38, 39 and 40
- a. vegetation: mountainous and heavily wooded. Streams, swamps and lakes cover the low areas;
 - b. facilities: bivouac: Olinville, Tower 90m and Microwave Tower 60m;
 - c. activities: dismounted trg, advanced adventure trg, rappelling;
 - d. restrictions: access to the area is limited to four wheel drive. Mount Champlain is **out of bounds**.
34. AREA 41
- a. vegetation: mountainous and heavily wooded. Mount Douglas;
 - b. facilities: bivouac: Douglas;
 - c. activities: dismounted trg, rappelling;
 - d. restrictions: access to the area is limited to four wheel drive.
 - e. No off road manoeuvre with track or wheeled AFV of any sort
 - f. No mounted manoeuvres
35. AREAS 42 and 43
- a. vegetation: mountainous, heavily wooded and swamps;
 - b. facilities:
 - c. activities: dismounted trg, mountain and Jungle warfare trg;
 - d. restrictions: these areas are used as ricochet when live fire occurs in area 44 and 45.
 - e. No off road manoeuvre with track or wheeled AFV of any sort
 - f. No mounted manoeuvres
36. AREAS 44 and 45
- a. vegetation: heavily wooded, mountainous and swamps;
 - b. facilities: bivouacs: Enniskillen and Hogan, Met Tower 3, L1856 target system, CQBLs;
 - c. activities: dismounted trg, survival ex, Live Firing Ranges for section and platoon;
 - d. restrictions: when live firing occurs, areas 42 and 43 are used as ricochet.

- e. No off road manoeuvre with track or wheeled AFV of any sort
 - f. No mounted manoeuvres
37. AREA 47
- a. vegetation: cleared area, 10 % wooded;
 - b. facilities: Enniskillen Manoeuvre Area, L1856 Target System;
 - c. activities: Live Firing Ranges for section, platoon and company size, Overhead Firing can be authorized by G3;
 - d. restrictions: this area is consider as type 2 zone, **NO DIGGING IS ALLOWED IN THIS AREA WITHOUT CO OPS SVCS BR AUTHORIZATION.** When live firing occurs, the Enniskillen Road will be controlled at both ends with sentries at gates 38 and 42, and area 46 and 48 will be used as ricochet.
 - e. No off road manoeuvre with track or wheeled AFV of any sort
 - f. No mounted manoeuvres
38. AREAS 46, 48 and 49
- a. vegetation: heavily wooded, rolling and steep hills
 - b. facilities: Forestry Lookout Tower 30m
 - c. activities: dismounted trg, survival exercises
 - d. restrictions: when using areas as ricochet, unit must visually clear the areas for wood cutters. The Lookout Tower is **out of bounds.**
 - e. No off road manoeuvre with track or wheeled AFV of any sort
 - f. No mounted manoeuvres
39. AREA BLISSVILLE
- a. vegetation: 75 % wooded
 - b. facilities: Airstrip, bivouac: Blissville
 - c. activities: used by 403 Sqn for heli ops and slope trg,
 - d. No off road manoeuvre with track or wheeled AFV of any sort
 - e. No mounted manoeuvres
40. AREAS 50, 51, 52 and 53 (DMA)
- a. vegetation: 50 % wooded, heavy willows and swamps
 - b. facilities: Met Tower 7
 - c. activities: Dismounted Manoeuvre Area
 - d. No off road manoeuvre with track or wheeled AFV of any sort
 - e. No digging Authorized in Drop Zone (Area 51)
 - f. No mounted manoeuvres
41. AIRSTRIP 7
- a. Vegetation: cleared area, 20 % wooded
 - b. facilities: Airstrip 7
 - c. activities: use for heli ops
 - d. restrictions: the airstrip is **out of bounds.**
42. AREA 54
- a. vegetation: cleared area;
 - b. facilities:
 - c. activities: Duck unlimited;
 - b. restrictions: Game preserve, out of bounds.

43. AREA 55

- a. Vegetation: cleared area, 20 % wooded;
- b. facilities: launching sites;
- c. activities: Amphibious Fast Water Site;
- d. restrictions:

44. LINDSAY VALLEY (LV)

- a. Vegetation: 60 % wooded;
- b. facilities: bivouac Goans, running routes, ski routes, Ski Lodge, Camp Argonaut;
- c. activities: recreational
- d. restrictions: no off road driving, no track vehicles.

RECREATIONAL MODEL AIRCRAFT / ROCKET / DRONE FLYING

GENERAL

1. These instructions apply to recreational use of model aircraft, rockets and drones.

LOCATION

2. Model aircraft, rocket and drone flight is normally booked and conducted in the Gagetown Training Area from Blissville GS 9153. Other areas may be booked through Range Control. Military UAS flight is covered in Annex Y.

ALLOCATION AND USE

3. Model aircraft flying, recreational quad-copters and rocket launching, because of the flight hazard caused by their use, will appear on DRSOs.
4. When requesting authority, the height above AGL in feet will be requested as an airspace requirement.

COMMUNICATIONS

5. Communication with Range Control is required, and Range Control will be advised when activities commence and cease.

CONTROL, SUPERVISION AND SAFETY OF FLYING SITE

6. To ensure the safe and efficient use of the flying site, the following regulations, will be adhered to. It is the responsibility of all members to ensure that these regulations are enforced at all times.
7. All cars and other vehicles shall be parked in the authorized parking lot only.
8. All spectators shall remain in the designated spectator area.
9. Members shall utilize designated locations in the pit area for their flight box and aircraft.
10. When aircraft are airborne, members flying shall position themselves at the edge of the airstrip out of the pit area.
11. Smoking is prohibited in the pit area.
12. When applicable, members must get a frequency pin from the Frequency Control Board prior to switching on their transmitter. The Frequency pin must be returned to the Control Board when the frequency is not in use.

FLYING REGULATIONS

13. It is the responsibility of the senior member to ensure that all regulations are adhered to. This includes Transport Canada Safety Guidelines for model aircraft and UAS that can be found at the following link: <http://www.tc.gc.ca/eng/civilaviation/opssvs/management-services-reference-centre-ac-600-2135.html> CANFORGEN 220/15 CDS 064/15 151336Z DEC 15 also refers, and the link can be found here: http://vcds.mil.ca/vcds-exec/pubs/default-eng.asp?path=/vcds-exec/pubs/canforgen/2015/220-15_e.asp This will ensure safe and maximum use of facilities without accidents.

ANNEX A
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14. Members shall ensure that their models are checked for flight worthiness prior to flight.
15. A range check of radio equipment shall be carried out prior to the first flight of the day or after an aircraft has sustained damage.
16. When applicable, the correct "frequency flag" shall be flown from the transmitter aerial. The frequency pin must be taken from the Frequency control Board before a transmitter may be switched "ON". This pin must be displayed in a prominent location on the RC's clothing.
17. Prior to take-off, all control surfaces shall be checked for proper operation while the engine is running.
18. Members will inform those airborne of their intention to take off and land.
19. No more than three (3) aircraft shall be airborne at one time.
20. Aircraft shall not be flown over spectators or the car park.
21. Aircraft shall not be flown while the member is under the influence of alcohol or a drug which may impair his ability to fly safely.
22. Members shall watch for full scale aircraft and ensure that the necessary action is taken to ensure that no safety hazards exist.
23. Members shall be familiar with the location and operation of the fire fighting equipment on the flying site.

RANGE CLEARANCE

24. A Range Clearance Certificate is not required; however, the OIC Exercise will advise Range Control in person at Bldg K-69 (422-3121 or 422-2482) when the area is clear. The area will be inspected by Range Control.

ARDENNES, FLANDERS, AND SOMME 50 METRE OUTDOOR RANGES

LOCATION AND DESCRIPTION

1. There are three 50 metre high power outdoor ranges within 5 Canadian Division Support Base. They are located at GR 974 758.
2. These regulations apply to the use of all standard 50 metre outdoor ranges.
3. Neither Tracer ammunition nor Laser will be used on the 50 metre ranges.

SUPERVISION

4. An OIC Exercise and Range Safety Officer will be appointed as per Chapter 1. Sufficient assistant Safety Officers to control and supervise the handling of the weapon will be appointed.
5. During night firing a supervisor or instructor is required for each firer except for trained personnel. In the case of trained personnel the number of supervisors or instructors will depend on light conditions and type of practice being conducted.
6. A person qualified with First Aid as per CFAO 9-5 with stretcher, first aid kit and a vehicle, which can serve as an ambulance, will be on site.

RED FLAG AND WARNING LIGHTS

7. **By Day.** When the range is occupied for the purpose of firing, a red flag four feet by three feet shall be hoisted on the flag pole at the entrance to the range complex prior to firing and shall remain hoisted throughout the time the range is occupied. This flag is held by Range Control.
8. **By Night.** When the range is occupied for the purpose of night firing, the two red warning lights on the range shall be turned on prior to the firing and shall remain on throughout the time the range is occupied.

KEYS AND LIGHTS

9. Keys and lights are held by Range Control.

TARGETS

10. Most Ranges are now equipped with foam target frames. However if these are not employed then targets are to be put in the target trench, standard or the slot provided. Centres of flank targets or edges of landscape targets must be at least 1.25 metres (4 feet) inside either end of the bullet catcher. Targets for use on these ranges are available from Range Control target building K-71.
11. Crossing target on 50 metre ranges must be approved by Range Control.
12. Some targets are kept on hand in the target room. It is the user's responsibility to recce and demand replacement targets as per Chapter 1.

COMMUNICATIONS

13. User units will be at all times in contact with Range Control by radio when using any of the ranges.

AURAL PROTECTION

14. All personnel will wear aural protectors when participating in range practices.

RANGE CLEARANCE

15. On completion of firing, the OIC will complete a Range Clearance Certificate and submit it to Range Control.

16. After use, the ranges will be left clean. Buildings will be swept. All brass will be picked up. All paper, old targets and garbage will be placed in the proper receptacle.

MAINTENANCE

17. All maintenance problems will be reported to Range Control.

AUTHORIZED WEAPONS AND AMMUNITION

18. The following weapons may be fired on these ranges:

Type	REMARKS
a. C1/C2/C5/C6 7.62	Automatic fire Not authorized without Range Control approval. Commercial ammunition, including "magnum" and hand loaded ammunition authorized Not to be fired at Foam Targets
b. C7/C8/C9 5.56mm	
c. Pistol 9 mm	
d. Civ Pistols up to .45 Cal	
e. Shotgun	

19. When firing Sig Sauer 9mm, App 1 must be read.

RANGE SAFETY BRIEFING

INTRO: Welcome, I am _____, the Range Safety Officer (RSO) for this live fire exercise.

The (unit/section) will be conducting a Sig Sauer 9MM live firing practice on XXXXX Range Bay # during the period of (time to time/date).

The purpose of this range is to confirm the firer can (brief explanation of what the exercise will accomplish).

TASKS/RESPONSIBILITIES:

- a. RSO: _____ is appointed as the Range Conducting RSO and is responsible for the safety of the range and conduct of the live fire package.
- b. Assistant RSO: _____ is appointed as assistant RSO and will be responsible for assisting the RSO with coaching, general range safety on/off the firing lines, and will conduct the handling test Overall will assist the RSO with the smooth operation of the entire range.
- c. Ammo Point NCM: _____ is appointed as Ammo Point NCM and will be responsible for ammunition safety, loading of magazines and ammo distribution.
- d. First Aid NCM: _____ is appointed as the FA NCM and is responsible to ensure the Emergency Vehicle is equipped as appropriately (keys in ignition, pointed to exit range quickly), prepare stretcher and first aid kit next to the Emergency Vehicle. He/She will act as first response to any first aid emergency. If the member requires non-emergency transport to medical facilities, they will provide the transport and must ensure they know all routes to the Base Medical Clinic and local hospitals.
- e. Flagman/Communicator: _____ (if applicable) is appointed Flagman/Communicator is responsible to maintain communications with the Butt Party NCM via local radio. He/She will change green/red flag at firing points as ordered by the RSO. They will also be in constant contact with Range Control via issued radio on the Range Safety Net (49.9 MHz), unless this is assumed by the RSO or Assistant (TBD).
- f. Coaches/Safety NCM's: _____ (if applicable) is/are appointed as Coaches/Safety NCM's are responsible to ensure safety on the firing point, assist firer's with drills/stoppages when requested by the firer or on observing difficulties. They have the authority to stop a firer when they observe safety

RANGE LAYOUT:

- a. The First Aid point will be located at the _____ at all times.
- b. The Ammo Point will be located at the _____ at all times.
- c. Admin, smoking areas and latrines are located at _____.
- d. All vehicles will be parked in the parking lot at the range hut. Only the Emergency Vehicle, Ammo Vehicle, and Range Safety/Set up vehicle are allowed on the range.
- e. Relays will fire from the 2M, 5M, 7M, 10M, 15M, and 20M points.

RANGE SAFETY:

- a. Barriers – All barriers will remain closed at all times except the main entrance.

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- b. Range Flags – The flag points are as follows:
- i. Main Entrance
 - ii. Rear of Range
 - iii. Firing Point
 - iv. Left of Range
 - v. Right of Range
- c. Arcs of Fire – Arcs of fire are as follows:
- i. Range Arcs – Left Arc is the left edge of Target # _____. Right Arc is right edge of Target # _____.
 - ii. Individual Arcs – The left edge to right edge of individual targets.
- d. Movement on the Range – The **Firearms Instructor Trainers (FIT) / RSO** will control all movement on the range. Individual movement will be controlled by the RSO. When moving on the range with “loaded weapons” they will be pointed down range at all times. When “unloaded and after a clear for inspections has been conducted, the weapon will be slung from the shoulder.
- e. Safety – Safety on this range is paramount and the safety rules must be respected at all times. If there is any breach of the above safety rules the FIT/RSO will stop the practice and remedial action will be taken. Hearing protection shall be worn at all times the Firing point flag is RED. Should any livestock, animals, people, or AC enter the arcs of fire or danger template the RSO will immediately advise all to “STOP” – stop firing; De-cock and holster. The commands shall be repeated to continue the practice when safe.

WORDS OF COMMAND: The following words of command will be used:

- a. Relay # __ move onto the firing point.
- b. Relay cover off your targets.
- c. All other commands will be covered by the FIT / RSO at the point for the shoot as per your handling test.

If at any time you are not sure about a word of command you are to de-cock if possible and place your weapon in the holster, and/or lift your arm for clarification while keeping the pistol pointed down range. Remember to keep your pistol pointed down range at all times.

WEAPONS SAFETY: It is the responsibility of each individual to maintain his/her own weapon safety at all times. If the RSO, or any of the range staff feel an individual is unsafe, the practice will be stopped and corrective action will be taken.

WEAPONS HANDLING/DRILLS: The FIT / Coaches will cover weapon handling, stoppage drills and TOET's after this briefing.

COMMUNICATIONS: The RSO or Communication NCM will maintain radio communications with Range Control at all times while on the range. The freq is 49.9 MHz. Internal comms if used. Range control Local #2482 and base medical clinic #1400.

SUMMARY: The range practice today will start with handling test and explanation by the FIT of the Range Practice today. You will have an opportunity to get some warm up and then into the qualification.

Are there any questions?

OUTDOOR 50 METRE BIATHLON RANGE

LOCATION AND USE

1. The outdoor 50 metre BIATHLON RANGE is located at GR 998 811. It is designed for biathlon training and for the Archery club. Other biathlon teams may request its use from a PSP Officer. This range is not authorized for night firing.
2. Any other use of this range must be authorized in writing by the CO Ops Svcs Br Operations.

DESCRIPTION

3. The Range consists of a single firing line at 50 metres. The Range can accommodate up to 6 firers.

WEAPONS

4. The only weapons authorized are the Anschutz Air Rifle and bow.

SUPERVISION

5. An RSO/OIC Firing Point will be appointed as per Chapter 1, and will control and supervise the handling of weapons.

RANGE FLAGS

6. **Red Flag.** When the range is occupied for the purpose of firing, a red flag shall be hoisted at the firing line, and shall remain hoisted throughout the time the range is occupied for this purpose.
7. **Green Flag.** When the Range is occupied but firing is not in progress, a green flag shall be hoisted on the flagpole and shall remain hoisted throughout the time the range is occupied for this purpose.
8. **Warning Sign.** The OIC Practice will ensure that the Warning Sign located at the entrance to Lindsay Valley is properly positioned prior to commencing range practices.

TARGETS

9. Targets will only be displayed in the slots provided.
10. Metal plates or other hard objects will not be used as targets.
11. The use of crossing or moving targets is forbidden.
12. It is the user's responsibility to recce and demand targets as per Chapter 1 (throughout Fitness Officer).

RANGE CLEARANCE CERTIFICATE

13. On completion of the practice, and when the range is clear of salvage, garbage and targets, the OIC practice will be to complete a Range Clearance certificate and report all maintenance to the Fitness Officer.

BASE DRY TRAINING FACILITIES

1. This Annex contains the details necessary to conduct dry training using the facilities located on or near the Base.
2. Attached appendices describe each facility as follows:
 - a. Appendix 1 - Obstacle Course;
 - b. Appendix 2 - FIBUA Training Area;
 - c. Appendix 3 – Veterans Abseil Tower (Camp Argonaut).
 - d. Appendix 4 – Base Rappel Tower (Beside Base Gym)
3. Use of the Gas Chamber N-6 is considered Live Training and regulations are found at Annex K.
4. All dry training, bivouacking, use of blank ammunition and use of pyrotechnics (less flares) within the boundaries of 5 Canadian Division Support Base garrison must have the approval of CO Ops Svcs Br.
5. Flares will not be fired within the garrison without approval. Users units must request a NOTAM before approval is granted. NOTAM requests must be submitted 21 days in advance thru the RCO.
6. Use of Camp Argonaut is controlled by the CO Ops Svcs Br.
7. For use of buildings, parade squares, bleachers and other facilities, requests should be directed to the CO Ops Svcs Br.

OBSTACLE COURSE

LOCATION AND DESCRIPTION

1. The obstacle course is located behind the Base Gym at GR 987 799. The obstacle course is a NATO standard course containing 20 obstacles.
2. The obstacle course is controlled and allocated by PSP Staff.

SAFETY SUPERVISORS

3. The OIC obstacle course training shall be an officer or Senior NCO authorized by his Commanding Officer to conduct the training. He will be responsible for:
 - a. inspecting and certifying all obstacles used;
 - b. designating adequate assistant safety personnel and ensuring they are properly briefed so as to prevent any unnecessary accidents;
 - c. ensuring training is conducted in a safe manner;
 - d. ensuring the area is left clean and all improvised devices are removed; and
 - e. advising the Base Gym of any unsafe conditions found.
4. Safety supervisors must be constantly alert to detect fatigue or mental stress which may cause the individual to lose grip or balance.

RESTRICTIONS

5. The obstacle course is "Out of Bounds" except for authorized training.
6. Blank ammunition and pyrotechnics may be used with the authority of the CO Ops Svcs Br, provided they are properly controlled and all safety distances are observed. They shall not be used near crossing obstacles higher than 10 feet.
7. Bayonets will not be fixed if weapons are carried. Weapons shall not be thrown or dropped from/over obstacles.
8. Personnel shall not be forced to cross any obstacles.

INSPECTION/MAINTENANCE

9. The obstacle course shall be inspected by a BCE representative and a Base Gym representative quarterly.
10. The OIC will inspect all obstacles before use.
11. All unsafe obstacles shall be signed and reported to the Base Gym.

FIBUA RANGE

LOCATION

1. The FIGHTING IN BUILT-UP AREAS (FIBUA) RANGE is located at GR 985 785. Use of this range is permitted by day or night.

DESCRIPTION

2. The following activities are authorized on this range:
- a. **FIBUA Training**. Training exercises and may include demonstrations; and
 - b. **Other Use**. All other proposed use of the FIBUA Range must be requested through Range Control, specifying the exact nature of the training.

AUTHORIZED AMMUNITION/WEAPONS

3. CO Ops Svcs Br must authorize the use of Blank ammunition and pyrotechnics.
4. CO Ops Svcs Br must authorize Gas CS/CN.
5. Use of flares requires a NOTAM which must be submitted 21 days in advance thru the RCO.

MEDICAL

6. First Aid personnel, with a first aid kit, two litters, four blankets and a designated vehicle will be present during range practices.

KEYS

7. Keys are available at Range Control.

SAFETY

8. Buildings in the FIBUA are out of bounds to all personnel when not booked through Range Control.

FIRE FIGHTING

9. Fire fighting is a user responsibility.

RANGE CLEARANCE

10. The Range will be left clean. Garbage will be disposed of by removing it to the dump. All brass will be picked up. Special attention will be given to ensuring roads are clear of all debris and salvage.

11. The OIC Practice will report any unsatisfactory conditions on the Range Clearance certificate (FIBUA Exercise) or the March Out form (Bivouacking Units) on the completion of training.

12. Range cleanliness will be inspected by Range Control the day following training. If a 45 minute notice is given to Range Control by the user, inspection may take place in the presence of the user.

VETERANS ABSEIL RAPPEL TRAINING TOWER

LOCATIONS

1. The Abseil Tower is located within the ATC Unit lines at Camp Argonaut GR 989 812. The tower consists of the following:
 - a. 15 foot wall;
 - b. 35 foot wall; and
 - c. 35 foot free slide.
2. Rappelling from helicopters may be conducted anywhere in the training area. On Base training is restricted to:
 - a. the main sports field; and
 - b. the field East of gymnasium building M-2.
3. Suitable sites for cliffing, (rappelling by trained personnel) may be found in:
 - a. Area 40, Cochrane Lane GS 1135 and Area 41 Mount Douglas GS 0839; and
 - b. Hamilton Wood - Break Neck Hill -GS 2046.

SAFETY SUPERVISION

4. The qualification, requirements for, and the duties of Safety Supervisors shall be as detailed in CFP 318(2).
5. The rappel master in charge of training, regardless of rank, is responsible for all training to include the safety of personnel on and around the tower.

AUTHORIZED USE

6. All requirements for the Abseil Tower and for cliff rappelling will be booked and allocated on DRSOs.
7. The Ops Svcs Br G3 Training will be advised when helicopter rappelling is to take place within the Base.

KEYS

8. The keys to the Abseil Tower are available from Range Control. Cadets will hold keys to the gate.

OUT OF BOUNDS

9. The Abseil Tower, Parade Square, Grassed Area and Sport Fields are **OUT OF BOUNDS** to all vehicles and personnel unless approval is received thru Range Control. Range Control will ensure that ATC is aware and also approves. Canoes stored within the fenced area will not to be tampered with in anyway.

COMMUNICATIONS

10. When using the rappel tower, communications with Range Control will be by Radio or Cell Phone.

11. The helicopter used for rappel training will maintain communications on the Range Control Net.
12. When cliff rappelling is being conducted, the OIC Exercise will establish and maintain communications with Range Control. Range Control will be advised when training commences and ceases.

CONDUCT OF TRAINING

13. All training will be conducted in accordance with CFP 318(2), Vol 2.
14. The OIC Exercise will inspect the rappel tower prior to use. Should any unsafe condition be found, the tower will not be used.
15. All personnel on the ground within the confines of the tower will wear helmets with chin straps secured.
16. On completion of training, the OIC Exercise shall:
 - a. ensure all equipment is removed;
 - b. ensure the area is clean; and
 - c. report any unsafe condition to Range Control.

RANGE CLEARANCE CERTIFICATE

17. A Range Clearance certificate will be completed and turned in to Range Control on completion of cliff rappelling or use of the Abseil Tower.

TOWER INSPECTIONS - BCEO

18. The Abseil Tower will be inspected annually by BCEO to ensure that it is structurally sound.

SIMULTANEOUS RAPPELLING

19. Provided there is at least one rappel master for each wall, the 15 foot wall may be used simultaneously with the 35 foot wall or the free rappel slide. Training on the 35 foot free slide shall not be conducted simultaneously.

MEDICAL

20. Medical coverage will be as follows:
 - a. **Abseil Tower**. Due to the distance to the nearest Hospital, a qualified First Aid with First Aid kit, stretcher, and suitable safety vehicle will be on hand; and
 - b. **Other Rappelling**. An ambulance and MA will be present.

CEASE TRAINING

21. Training will cease on the decision of the rappel master if:
 - a. any unsafe condition arises. All training will cease until it is rectified;
 - b. winds reach a speed of 25 MPH (40 KPH), or if it is gusty, or if it is raining or snowing; and
 - c. when the Abseil Tower's surfaces are wet or otherwise slippery.

RAPPELLING FROM HELICOPTERS

22. CFP 318(2) rappelling from helicopters contains explicit instructions for the conduct of rappelling training. The following limitations should in particular be noted:

- a. **Height**. Rappels **will not** be conducted above a height of 20m, except in operations when the average tree height may necessitate greater altitudes; and
- b. **Wind**. Rappelling from helicopters **will not** be conducted when winds on the ground or at aircraft altitude exceed 40 KPH (25 MPH), or when gusts are of such magnitude that, in the opinion of the aircraft captain, they would prevent him from maintaining station during the rappelling practice.

Note: The ATC Friction Device (ATC) used for rappelling from helicopters in the CAF has been approved for use as of 19 August 2016. It must be used IAW the manufacturer's specifications, which is to ensure that if wear of one (1) millimetre occurs anywhere on the ATC Friction Device, then the device should be discarded and a new one issued. Ref. 4512-1 (G7 IT2) – Rappelling in the CAF.

ADMINISTRATION

23. The following administrative requirements must be adhered to:

- a. **Washroom**. Units are responsible for ordering chemical toilets thru Base.
- b. **Parking**. Only one safety vehicle is authorized at the Abseil Tower. All other vehicles will park within the gravel parking between Bldg N-301 and N-325. Absolutely no parking along Nashwaak Ave.
- c. **Coordination**. Range Control will coordinate all usage of the Abseil Tower with ATC ensuring that users units do not interfere with cadet activities etc.

BASE RAPPEL TOWER

LOCATIONS

1. The Base Rappel Tower is located next to the Gym at GR 98276 79377. The tower consists of the following:
 - a. **North Wall (Facing Gym).**
High wall is approx 60' to conduct normal rappelling techniques (Swiss seat/free rappel). It also has 2 hook-ups (bracket) for fast rope. The high wall has 3 windows (cut out) for re-entering the tower. The 1st and lowest point of entry is located at the NW corner at approx 23' from ground level, the 2nd is located on the NE corner and approx 34' and 3rd and final re-entry point again at the NW corner at approximately 48'.
 - b. **East Wall.**
2 x Helo Skids, 60' high approximately.
 - c. **South Wall.**
Consist of a 15' wall, a "mid" wall 30' and high wall 60'. All 3 rappel access points are equipped with Fast Rope hook-up (Bracket).
 - d. **West Wall (Facing Road)**
Sloped high wall approx 60' to conduct both "Aussie" style rappel and normal rappelling techniques (Swiss seat).

SAFETY SUPERVISION

2. The qualification, requirements for, and the duties of Safety Supervisors shall be as detailed in CFP 318(2).
3. The rappel master in charge of training, regardless of rank, is responsible for all training to include the safety of personnel on and around the tower.

AUTHORIZED USE

4. All requirements for the Rappel Tower will be booked and allocated on DRSOs.

KEYS

5. The keys to the Abseil Tower are available from Range Control.

COMMUNICATIONS

6. When using the rappel tower, communications with Range Control will be by Radio or Cell Phone.

CONDUCT OF TRAINING

7. All training will be conducted in accordance with CFP 318(2), Vol 2.
8. The OIC Exercise will inspect the rappel tower prior to use. Should any unsafe condition be found, the tower will not be used.
9. All personnel on the ground within the confines of the tower will wear helmets with chin straps secured.
10. On completion of training, the OIC Exercise shall:

- a. ensure all equipment is removed;
- b. ensure the area is clean; and
- c. report any unsafe condition to Range Control.

RANGE CLEARANCE CERTIFICATE

11. A Range Clearance certificate will be completed and turned in to Range Control.

TOWER INSPECTIONS - BCEO

12. The Rappel Tower will be inspected every six months by BCEO to ensure that it is structurally sound.

SIMULTANEOUS RAPPELLING

13. Provided there is at least one rappel master for each wall, the 15 foot wall may be used simultaneously with the 35 foot wall or the free rappel slide. Training on the 35 foot free slide shall not be conducted simultaneously.

MEDICAL

14. Medical coverage will be as follows: Due to the distance to the nearest Hospital, a qualified First Aid with First Aid kit, stretcher, and suitable safety vehicle will be on hand;

CEASE TRAINING

15. Training will cease on the decision of the rappel master if:
 - a. any unsafe condition arises. All training will cease until it is rectified;
 - b. winds reach a speed of 25 MPH (40 KPH), or if it is gusty, or if it is raining or snowing; and
 - c. when the Tower's surfaces are wet or otherwise slippery.

ADMINISTRATION

16. The following administrative requirements must be adhere to:
 - a. **Washroom**. Units are responsible for ordering chemical toilets thru CE.
 - b. **Parking**. Only in authorized parking areas.

SMALL ARMS RANGE COMPLEX

1. This annex, in conjunction with CFP 381(1), contains all the detail necessary to conduct live small arms firing within the Small Arms Range Complex (SARC).
2. Appendices as follows describe each range:
 - a. Appendix 1 - AMIENS. 600 Metre Range 20 lanes;
 - b. Appendix 2 - BATOUCHE. 1000 Metre Sniper Range 12 lanes;
 - c. Appendix 3 - MONS. 400 Metre Conventional Range 12 lanes; and
 - d. Appendix 4 - REICHWALD. 600 Metre Automated Target System (ATS) Range 20 lanes;
 - e. Appendix 5 - VIMY. 400 Metre Conventional Range.
 - f. Appendix 6 – Small Arms Range Complex-Transit Corridor West (SARC-TCW) Due to the recent addition of an air transit corridor over the SARC, this graphic is being inserted in RSO's to ensure Units are aware that helicopters may be seen flying over the SARC while they are firing live, and the minimum altitude is 1000' AGL for routine ranges and 1200' when the Sniper range is in use, due to the higher ricochet height. You are not obliged to check fire if you see a helicopter flying over the range, as long as the helicopters are flying at the appropriate altitude. If you believe the helicopter is flying in your danger template, cease fire and report the incursion to Range Control immediately.
3. Requests to fire non-authorized weapons, non-standard targets or to conduct demonstrations on these ranges will be forwarded to Range Control.
4. All ranges in the SARC can be used either day or night. If used at night, all extra safety precautions for night firing will be adhered to. Use of flares must be requested and reflected on DRSOs.
5. All personnel situated in Firing Butts must wear steel helmet or approved helmet for civilian personnel.
6. The OIC must ensure that a sentry is posted at the entrance to the range before requesting permission to go live. The OIC can also have the gate locked instead of posting a sentry.
7. The firing of sniper weapons .338 or .50 cal within the small arms ranges can be authorized by Range Control. They will require overlay of a field firing template with associated ranges/areas.

AMIENS RANGE

LOCATIONS AND DESCRIPTION

1. AMIENS Rifle Range is a 600 m range located within the Small Arms Range Complex at GR 987 773. It can accommodate 20 firers.
2. Demonstrations of weapons effect may be conducted on this range providing all regulations in this appendix and CFP 381(1) are adhered to.

RESTRICTIONS

3. Vehicle mounted weapons will not be fired. Civilian SA - No fully automatic weapons.
4. Only standard service ammo will be used with the following exceptions:
 - a. ammo required for demonstrations of foreign small arms; and
 - b. ammo required for authorized trials; and
 - c. authorized recreational shooting.
5. Firefighting is a user responsibility. Regulation as per Chapter 1, Section 7 will be adhered to.
6. Crossfire on this range is prohibited due to the reduced gallery templating.
7. The danger areas of some weapons overlap into the wooded areas of the range. Movement is, restricted to the perimeter of the range and vehicle movement on grassed areas of the ranges is prohibited.

MEDICAL

8. A Medical Assistant with ambulance or a First aid qualified personnel (corporal or higher rank) with a first aid kit, two litters, four blankets and a designated ambulance vehicle, will be present during range practices.

FLAGS/LIGHTS

9. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;
 - b. **Stop Butts** - the OIC practice shall ensure a red flag/light drawn is raised on the pole on top of the stop butts when the gallery is used; and
 - c. **Firing Point and Butts** - Red or green flags/lights will be flown at the butts and on the firing point in use IAW signs posted.

TARGETS

10. Targets normally used on the Range are available from the Target Shack K-71. All ranges are now equipped with foam targets.
11. Requests for special targets will be submitted to Range Control in accordance with Chapter 1 Annex O.

12. Targets may only be erected in the area, which is prepared for this purpose.
13. All targets must be patched and returned to K-71 on completion of firing. All foam targets must be replaced before range clearance.

COMMUNICATIONS

14. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:
 - a. call sign;
 - b. request permission to go live;
 - c. IAW with DRSOs serial _____;
 - d. OIC (Rank, Initial, Name).

SAFETY PRECAUTIONS

15. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.
16. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.
17. All related direction included in CFP 381(1) apply.
18. If fire must be stopped temporarily during a practice (ie, if the Green Flag is hoisted at the butts), weapons will immediately be made safe. Firers will remain in location until further instructions are received from the OIC Exercise.
19. All incidents involving ammunition, weapons or personnel will be report to Range Control.
20. Firing will be stopped when aircraft approach the area.
21. All personnel taking part in the practice will wear aural protection.

RANGE CLEARANCE

22. The range will be left clean. All buildings used will be swept. All equipment used at the butts will be returned. Garbage will removed from firing range by user unit. All brass will be picked up. Stop butts must be raked.
23. The OIC Practice will report any unsatisfactory condition on the Range Clearance certificate and turn it in to Range Control on completion of firing.
24. Range cleanliness will be inspected by Range Control the day following the range practice or immediately upon completion. (a forty-five minute notice of inspection must be given to Range Control).

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25. **WEAPONS AND AMMUNITION - AMIENS**

SERIAL	TYPE	REMARKS	AUTHORIZED
1	FNC1		X
2	FNC2		X
3	C3	SNIPER RIFLE	X
4	C6	GPMG 7.62	X
5	C7	RIFLE 5.56	X
6	C8	LIGHT CARABINE	X
7	C9	LMG 5.56	X
8	9 mm PISTOL		X
9	GPMG		X
10	66mm (21mm) ADPATER	GALLERY	X
11	84 mm 6.5 ADAPTER	GALLERY	X
PISTOLS			
12	.22	CAL	X
13	.32	CAL	X
14	.380	CAL	X
15	.38	SPECIAL	X
16	.38	SUPER	X
17	.357	MAG	X
18	41	MAG	X
19	41	SPECIAL	
20	44	MAG	X
21	45	ACP	X
22	9 mm		X
SHOTGUNS		ALL SIZES OF PELLETS UP TO 00 BUCKSHOT AS WELL SLUGS	
23	410 GAUGE		X
24	28		X
25	20		X
26	16		X
27	12		X
28	10		X

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29	308, .338 and TAC .50		When appropriate areas are booked
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No civilian weapon will be authorized to fire fully automatic.

No vehicle mounted weapons will be authorized to fire.

BATOCHE RANGE

LOCATION AND DESCRIPTION

1. BATOCHE Range is located within the Small Arms Range Complex at GR 977 723. BATOCHE Range consists of a 900 m range of 12 lanes and a 1000m range of 6 lanes.

RESTRICTIONS

2. Vehicle mounted weapons will not be fired. Civilian SA - No fully automatic weapons.
3. Only standard service ammo will be used with the following exceptions:
 - a. ammo required for demonstrations of foreign small arms; and
 - b. ammo required for authorized trials.
4. An RSO/OIC Firing Point and OIC Butts will be appointed. Butt parties will be thoroughly briefed and instructed in their duties. All members of the butt party will wear steel helmets.
5. Firefighting is a user responsibility. Regulation as per Chapter 1, Section 7 will be adhered to.
6. The danger areas of some weapons overlap into the wooded areas of the range. Movement is, restricted to the perimeter of the range and vehicle movement on grassed areas of the ranges is prohibited.
7. Laser will not be used on this Range.
8. The area of BATOCHE Range was used as a Rocket Range prior to its existence as a Firing Range. **Unexploded ammunition** could be found on this range. The area west of the road from the shelter is **out of bounds**.

MEDICAL

9. A Medical Assistant with ambulance or a First aid qualified personnel (Corporal or higher rank) with a first aid kit, two litters, four blankets and a designated ambulance vehicle, will be present during range practices.

FLAGS/LIGHTS

10. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;
 - b. **Stop Butts** - the OIC practice shall ensure a red flag/light drawn is raised on the pole on top of the stop butts when the gallery is used; and
 - c. **Firing Point and Butts** - Red or green flags/lights will be flown at the butts and on the firing point in use IAW signs posted.

TARGETS

11. Targets normally used on the Range are available from the Target Shack K-71. All ranges are now equipped with foam targets.

12. Requests for special targets will be submitted to Range Control in accordance with Chapter 1 Annex O.
E2- 1/4

13. All targets must be patched and returned to K-71 on completion of firing. All foam targets must be replaced before range clearance.

COMMUNICATIONS

14. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:

- a. call sign;
- b. request permission to go live;
- c. IAW with DRSOs serial _____;
- d. OIC (Rank, Initial, Name).

15. Communications between the firing point and the butts will be by radio or land line. Visual or oral signals will not be used.

SAFETY PRECAUTIONS

16. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.

17. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.

18. All related direction included in CFP 381(1) apply.

19. If fire must be stopped temporarily during a practice (i.e., if the Green Flag is hoisted at the butts), weapons will immediately be made safe. Firers will remain in location until further instructions are received from the OIC Exercise.

20. All incidents involving ammunition, weapons or personnel will be report to Range Control

21. Firing will be stopped when aircraft approach the area.

22. All personnel taking part in the practice in accordance with Chapter 1 will wear aural protection.

23. All members of the butt party will wear steel helmets or approved helmet for civilian personnel.

RANGE CLEARANCE

24. The range will be left clean and buildings will be swept. All equipment used at the butts will be returned. Garbage will be removed from firing range by user unit. All brass will be picked up. Stop butts must be raked.

25. The OIC Practice will report any unsatisfactory condition on the Range Clearance certificate and turn it in to Range Control on completion of firing.

26. Range cleanliness will be inspected by Range Control the day following the range practice or immediately upon completion. (Forty-five minute notice of inspection must be given to Range Control).

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27. **WEAPONS AND AMMUNITION - BATOCHÉ**

SERIAL	TYPE	REMARKS	AUTHORIZED
1	FNC1		X
2	FNC2		X
3	C3	SNIPER RIFLE	X
4	C6	GPMG 7.62	X
5	C7/C8	Rifle 5.56	X
6	C9	LMG 5.56	X
7	9 mm PISTOL		X
8	GPMG		X
9	66 mm, (21mm) ADAPTER	GALLERY	X
10	84 mm 6.5 ADAPTER	GALLERY	X
PISTOLS			
11	.22	CAL	X
12	.32	CAL	X
13	.380	CAL	X
14	.38	SPECIAL	X
15	.38	SUPER	X
16	.357	MAG	X
17	41	MAG	X
18	41	SPECIAL	X
19	44	MAG	X
20	45	ACP	X
21	9 mm		X
SHOTGUNS		ALL SIZES OF PELLETS UP TO 00 BUCKSHOT AS WELL SLUGS	
22	410 GAUGE		X
23	28		X
24	20		X
25	16		X
26	12		X
27	10		X

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28	.338	LAPUA Sniper Rifle	x
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No civilian weapon will be authorized to fire fully automatic.

No vehicle mounted weapons will be authorized to fire.

MONS 400 M CONVENTIONAL RANGE

LOCATION AND DESCRIPTION

1. MONS is a 400 m Conventional Range located in the Small Arms Range complex at GR 973 749. The range consists of four firing points which can accommodate 12 firers. The firing points are marked in metres.
2. When "Black Powder" recreational shooting is conducted, the following regulations shall apply:
 - a. weapon calibre will be no more than .58;
 - b. barrel length will not exceed 40 inches;
 - c. black powder only will be used;
 - d. weapons will not be overcharged;
 - e. if three or more shooters are on the line they will be supervised by an OIC;
 - f. spectators will not be permitted within five metres of the firing line;
 - g. if a gun misfires, the muzzle will be pointed down range for at least three minutes before any attempt at re-priming is made;
 - h. should a ball become stuck in the barrel, under no circumstances will a second ball be fired to try to clean it;
 - i. on the line all powder containers will be kept closed; and
 - j. all other provisions for the use of MONS range will apply.
3. Weapons effect demonstrations may be conducted on this range providing the regulations contained in this Annex and in CFP 381(1) are adhered to.

RESTRICTIONS

4. Vehicle mounted weapons will not be fired. Civilian SA - No fully automatic weapons.
5. Only standard service ammo will be used with the following exceptions:
 - a. ammo required for demonstrations of foreign small arms; and
 - b. ammo required for authorized trials; and
 - c. ammo required for other than service pistol.
6. An RSO/OIC Firing Point and OIC Butts will be appointed. Butt parties will be thoroughly briefed and instructed in their duties.

7. Fire fighting is a user responsibility. Regulations as per Chapter 1, Section 7 will be adhered to.
8. The danger areas of some weapons overlap into the wooded areas of the range. Movement is restricted to the perimeter of the range and vehicle movement on grassed areas of the ranges is prohibited.
9. Fire is restricted to the target corresponding to the fire position. When hand held moving targets are used in the butts, target movement will be restricted to the frame right and left of the target, i.e., when the firer is on position 4, his target may move between position 3 and 5. Weapon elevation must be such that all bullets impact into the stop butt behind the target.

MEDICAL

10. A Medical Assistant with ambulance or a First Aid qualified personnel (Corporal or higher rank) with a first aid kit, two litters, four blankets and a designated ambulance vehicle, will be present during range practices.

FLAGS/LIGHTS

11. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;
 - b. **Stop Butts** - the OIC practice shall ensure a red flag/light drawn is raised on the pole on top of the stop butts when the gallery is used; and
 - c. **Firing Point and Butts** - Red or green flags/lights will be flown at the butts and on the firing point in use IAW signs posted.

TARGETS

12. Targets normally used on the Range are available from the Target Shack K-71. All ranges are now equipped with foam targets.
13. Requests for special targets will be submitted to Range Control in accordance with Chapter 1 Annex O.
14. All targets must be patched and returned to K-71 on completion of firing. All foam targets must be replaced before range clearance.

COMMUNICATIONS

15. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:
 - a. call sign;
 - b. request permission to go live;
 - c. IAW with DRSOs serial _____;

d. OIC (Rank, Initial, Name).

16. Communications between the firing point and the butts will be by radio or land line. Visual or verbal signals will not be used.

SAFETY PRECAUTIONS

17. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.

18. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.

19. All related direction included in CFP 381(1) apply.

20. If fire must be stopped temporarily during a practice (i.e., if the Green Flag is hoisted at the butts), weapons will immediately be made safe. Firers will remain in location until further instructions are received from the OIC Exercise.

21. All incidents involving ammunition, weapons or personnel will be report to Range Control.

22. Firing will be stopped when aircraft approach the area.

23. All personnel taking part in the practice in accordance with Chapter 1 will wear aural protection.

24. All members of the butt party will wear steel helmets or approved helmet for civilian personnel.

RANGE CLEARANCE

25. The range will be left clean. All buildings will be swept. All equipment used at the butts will be returned. Garbage will removed from firing range by user unit. All brass will be picked up. Stop butts must be raked.

26. The OIC Practice will report any unsatisfactory condition on the Range Clearance certificate and turn it in to Range Control on completion of firing.

27. Range cleanliness will be inspected by Range Control immediately upon completion. (Forty-five minute notice of inspection must be given to Range Control).

28. **WEAPONS AND AMMUNITION - MONS**

SERIAL	TYPE	REMARKS	AUTHORIZED
1	FNC1		X
2	FNC2		X
3	C3	SNIPER RIFLE	X

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4	C6	GPMG 7.62	X
5	C7	RIFLE 5.56	X
6	C8	LIGHT CARABINE	X
7	C9	LMG 5.56	X
8	9 mm PISTOL		X
9	GPMG		X
10	66mm (21mm) ADAPTER	GALLERY	X
11	84 mm 6.5 ADAPTER	GALLERY	X
PISTOLS			
12	.22	CAL	X
13	.32	CAL	X
14	.38	CAL	X
15	.38	SPECIAL	X
16	.38	SUPER	X
17	.357	MAG	X
18	41	MAG	X
19	41	SPECIAL	X
20	44	MAG	X
21	45	ACP	X
22	9 mm		X
SHOTGUNS		ALL SIZES OF PELLETS UP TO 00 BUCKSHOT AS WELL SLUGS	
23	410 GAUGE		X
24	28		X
25	20		X
26	16		X
27	12		X
28	10		X
29	308, .338 and TAC .50		When appropriate areas are booked

No civilian weapon will be authorized to fire fully automatic.

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No vehicle mounted weapons will be authorized to fire.

REICHWALD (AUTOMATED TARGET SYSTEM) RANGE

LOCATIONS AND DESCRIPTION

1. REICHWALD Rifle Range is a 600 m range located within the Small Arms Range Complex at GR 985 771. It can accommodate 20 firers. The range can be used to practise section commanders in giving firing orders and controlling the movement of their section.
2. Demonstrations of weapons effect may be conducted on this range providing all regulations in this appendix and CFP 381(1) are adhered to.

RESTRICTIONS

3. Vehicle mounted weapons will not be fired. Civilian SA - No fully automatic weapons.
4. The only authorized automatic fire will be 5.56 mm short burst only.
5. Only standard service ammo will be used with the following exceptions:
 - a. ammo required for demonstrations of foreign small arms;
 - b. ammo required for authorized trials; and
6. Firefighting is a user responsibility. Regulation as per Chapter 1, Section 7 will be adhered to.
7. Crossfire on this range is prohibited due to the reduced gallery templating
8. The danger areas of some weapons overlap into the wooded areas of the range. Movement is restricted to the perimeter of the range and vehicle movement on grassed areas of the ranges is prohibited.

MEDICAL

9. A Medical Assistant with ambulance or a First Aid qualified personnel (corporal or higher rank) with a first aid kit, two litters, four blankets and a designated ambulance vehicle, will be present during range practices.

FLAGS/LIGHTS

10. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;
 - b. **Stop Butts** - the OIC practice shall ensure a red flag/light drawn is raised on the pole on top of the stop butts when the gallery is used; and
 - c. **Firing Point and Butts** - Red or green flags/lights will be flown at the butts and on the firing point in use IAW signs posted.

TARGETS

11. Targets normally used on the Range are available from the Range Shack K-71.
12. Only approved ATS targets will be used on the REICHWALD range.
13. Targets may only be erected in the area, which is prepared for this purpose.

COMMUNICATIONS

14. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:
- a. call sign 1E (fixed call sign);
 - b. request permission to go live;
 - c. IAW with DRSOs serial _____;
 - d. OIC (Rank, Initial, Name).

SAFETY PRECAUTIONS

15. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.
16. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.
17. All related direction included in CFP 381(1) apply.
18. If fire must be stopped temporarily during a practice, weapons will immediately be made safe. Firers will remain in location until further instructions are received from the OIC Exercise.
19. All incidents involving ammunition, weapons or personnel will be report to Range Control.
20. Firing will be stopped when aircraft approach the area.
21. All personnel taking part in the practice wear aural protection.

RANGE CLEARANCE

22. The range will be left clean. All buildings used will be swept. All equipment will be returned to the range ATS Staff. Garbage will removed from firing range by user unit. All brass will be picked up. Stop butts must be raked.
23. The OIC Practice will report any unsatisfactory condition on the Range Clearance certificate and turn it in to the ATS Range Staff on completion of firing.
24. The Range Staff, immediately upon completion, will inspect range cleanliness.

SPECIAL INSTRUCTIONS

25. User unit must contact ATS range staff (local 3836) at least 24 hours prior to their practice, to confirm type of practice and to enter names of participants in the range computer program.

26. **WEAPONS AND AMMUNITION - REICHWALD**

SERIAL	TYPE	REMARKS	AUTHORIZED
1	C7 5.56 mm	Rifle	X
2	C8 5.56 mm	Light Carbine	X
3	C3 7.62 mm	Sniper Rifle	X
4	C9 5.56 mm	LMG	X
5	9mm	Pistol	X
6	308 .338 and TAC .50	Sniper Rifle	When appropriate areas are booked

No vehicle mounted weapons will be authorized to fire.

VIMY 400M CONVENTIONAL RANGE

LOCATION AND DESCRIPTION

1. VIMY Rifle Range is a standard 400 m classification range located within the Small Arms Range Complex at GR 973 737. The range consists of four firing points, which can accommodate 12 firers. The firing points are marked in meters.
2. Weapons effect demonstrations may be conducted on the range providing the regulations contained in this appendix and in CFP 381 (1) are adhered to.

RESTRICTIONS

3. Vehicle mounted weapons will not be fired. Civilian SA - No fully automatic weapons.
4. Only standard service ammo will be used with the following exceptions:
 - a. ammo required for demonstrations of foreign small arms; and
 - b. ammo required for authorized trials.
5. An RSO/OIC Firing Point and OIC Butts will be appointed. Butt parties will be thoroughly briefed and instructed in their duties. All members of the butt party will wear steel helmets.
6. Firefighting is a user responsibility. Regulations as per Chapter 1, Section 7 will be adhered to.
7. The danger areas of some weapons overlap into the wooded areas of the range. Movement is restricted to the perimeter of the range and vehicle movement on grassed areas of the ranges is prohibited.
8. The danger area template for VIMY Range has greatly reduced gallery impact. Fire is, therefore, restricted to the target corresponding to the fire position. When hand held moving targets are used in the butts, target movement will be restricted to the frame right and left of the target, i.e., moving targets may move between frame 3 and 5 when the firer is on number 4 position. Weapon elevation must be such that all bullets impact into the stop butt.

MEDICAL

9. A Medical Assistant with ambulance or a First Aid qualified personnel (Corporal or higher rank) with a first aid kit, two litters, four blankets and a designated ambulance vehicle, will be present during range practices.

FLAGS/LIGHTS

10. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag.** A red flag will be raised/lowered by user unit;
 - b. **Stop Butts** - the OIC practice shall ensure a red flag/light drawn is raised on the pole on top of the stop butts when the gallery is used; and
 - c. **Firing Point and Butts** - Red or green flags/lights will be flown at the butts and on the firing point in use IAW signs posted.

TARGETS

11. Targets normally used on the Range are available from the Target Shack K-71. All ranges are now equipped with foam targets.
12. Requests for special targets will be submitted to Range Control in accordance with Chapter 1 Annex O.
13. All targets must be patched and returned to K-71 on completion of firing. All foam targets must be replaced before range clearance.

COMMUNICATIONS

14. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:
 - a. call sign
 - b. request permission to go live
 - c. IAW with DRSOs line _____
 - d. OIC (Rank, Init, name)
15. Communications between the firing point and the butts will be by radio or land line. Visual or verbal signals will not be used.

SAFETY PRECAUTIONS

16. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.
17. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.
18. All related direction included in CFP 381(1) apply.
19. If fire must be stopped temporarily during a practice (ie, if the Green Flag is hoisted at the butts), weapons will immediately be made safe. Firers will remain in location until further instructions are received from the OIC Exercise.
20. All incidents involving ammunition, weapons or personnel will be reported to Range Control.
21. Firing will be stopped when aircraft approach the area.
22. All personnel taking part in the practice in accordance with Chapter 1 will wear aural protection.
23. All members of the butt party will wear steel helmets or approved helmet for civilian personnel.

RANGE CLEARANCE

24. The range will be left clean. All buildings used will be swept. All equipment used at the butts will be returned. Garbage will be removed from firing range by user unit. All brass will be picked up. Stop butts must be raked.
25. The OIC Practice will report any unsatisfactory condition on the Range Clearance certificate and turn it in to Range Control on completion of firing.
26. Range cleanliness will be inspected by Range Control immediately upon completion. (Forty-five minute notice of inspection must be given to Range Control).
27. **WEAPONS AND AMMUNITION – VIMY RANGE**

SERIAL	TYPE	REMARKS	AUTHORIZED
1	FNC1		X
2	FNC2		X
3	C3	SNIPER RIFLE	X
4	C6	GPMG 7.62	X
5	C7	RIFLE 5.56	X
6	C8	LIGHT CARABINE	X
7	C9	LMG 5.56	X
8	9 mm PISTOL		X
9	GPMG		X
10	66mm (21mm) ADAPTER	GALLERY	X
11	84 mm 6.5 ADAPTER	GALLERY	X
PISTOLS			
12	.22	CAL	X
13	.32	CAL	X
14	.38	CAL	X
15	.38	SPECIAL	X
16	.38	SUPER	X
17	.357	MAG	X
18	41	MAG	X
19	41	SPECIAL	X
20	44	MAG	X
21	45	ACP	X
22	9 mm		X
SHOTGUNS		ALL SIZES OF PELLETS UP TO 00 BUCKSHOT AS WELL SLUGS	
23	410 GAUGE		X
24	28		X
25	20		X
26	16		X
27	12		X
28	10		X

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No civilian weapon will be authorized to fire fully automatic.

No vehicle mounted weapons will be authorized to fire.

FIXED FORMAL FIRING POINTS

LOCATION AND DESCRIPTION

1. 5 Canadian Division Support Base has a series of fixed Firing Points. They are located in the Northern end of the Training Area along the Shirley Road.
2. Regulations governing the specific use of a range are attached as follows:
 - a. FP4 - Appendix 1. When booking FP 4, SR and BR will be included and applicable traces are as follows: 4A, 4B, 4C, 4D, 4F, 4G, 4J, 4K, 4L.
 - b. FP6 - Appendix 2. No fixed traces are assigned for this range;
3. Care must be taken when booking the firing point to ensure the nature of the weapons and ammunition used is compatible.
4. Pyrotechnics of all natures are authorized and must appear in DRSOs.
5. An OIC Exercise will supervise all range practices. He will appoint Range Safety Officers, Assistant Range Safety Officers, Firing Point Officers and other safety and control personnel as detailed in Chapter 1 and as required by the nature of the practice and the weapons used.
6. Blind hazards exist on all ranges and therefore, access is controlled to all ranges by means of locked barriers. Keys for barriers and range facilities are available from Range Control.
7. When in use, the range access barrier will be kept locked or a sentry will be posted at the entry and will have comms with the control tower.

ARCS OF FIRE

8. Arcs of fire for all firing points using various weapons are shown on the traces attached to this chapter. Detailed bearings and grids are described in the applicable Range Appendix.
9. Those arcs of fire apply for lasers.
10. Requirements to use other arcs of fire shall be forwarded to Range Control at the time of the range booking.
11. Arc Markers are located at grid LOA GR 05775 77009 and ROA GR 04330 76250 these markers are not valid for use with any of the traces being promulgated within RSO's. Users may develop traces incorporating these markers when required.

MEDICAL

12. First Aid personnel and equipment will be assigned to Firing Points when Live Firing occurs IAW B-GL-381-001/TS-000 (CFP 381(1)).

FLAGS/LIGHTS

13. The following flags/lights will be raised prior to firing:
 - a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;

- b. **Firing Point.** Red or green flags/lights will be flown on the firing point in use IAW Chapter 1, Section 4.

TARGETS

14. Targets normally used on the Range are available from the Target Shack K-71.
15. Requests for targets will be submitted to Range Control in accordance with chapter 1 annex O.
16. Targets may only be erected in the area, which is prepared for this purpose.
17. As lasers are authorized on the ranges, all targets must be laser safe.

COMMUNICATIONS

18. Communications will be kept at all the time with Range Control on Safety Net.
19. If communications with Range Control are lost, the range user will immediately check fire and remain in check fire until communications are re-established.

SAFETY PRECAUTIONS

20. All related direction included in B-GL-381-001/TS-000 (CFP 381(1)) apply.
 - a. The appointment and duties of the OIC Exercise will be IAW with Chapter 1 and the applicable training manuals for the type of weapon used.
 - b. The appointment and duties of the Range Safety and the applicable training manuals for the type of weapon used.
21. If fire must be stopped temporarily during a practice (i.e., if the Green Flag is hoisted), weapons will immediately be made safe.
22. All incidents involving ammunition, weapons, equipment of any sort or personnel will be report to Range Control.
23. Firing will be stopped when an aircraft is about to approach the Danger Area (your arc of fire).
24. All personnel shall wear aural protection.
25. The OIC Practice will, before firing, become thoroughly conversant with the specific weapons regulations found in B-GL-381-001/TS-000 and related weapon manuals.
26. **Misfires** will be treated in accordance with applicable weapons manuals. Where possible, they will be made safe and returned to the ASA by the user. Misfires, which cannot be made safe, will be marked as a Blind/Dud and their location sent to Range Control who will become responsible for their destruction. If in doubt of procedures, contact Range Control.
27. **Blinds** will be marked in accordance with Chapter 1 and recorded on the Range Clearance Certificate. Range Control will be responsible for their destruction.

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28. All fires are to be immediately reported to Range Control. No personnel will be deployed to fight the fire.

RANGE CLEARANCE

29. The range will be left clean and buildings will be swept out. All equipment will be returned. Garbage will be removed from firing range by user unit. All brass will be picked up.

30. Prior to leaving the Range, the OIC Practice will ensure that all barriers are locked.

31. The OIC Practice will report any unsatisfactory condition on the Range Clearance Certificate and turn it in to Range Control on completion of firing.

32. Range cleanliness will be inspected by Range Control the day following the range practice or if requested immediately upon completion of firing, in the presence of the user. A forty-five minute notice of inspection must be given to Range Control.

33. **AUTHORIZED WEAPONS/AMMUNITION**

SER	WEAPONS	Remarks
1	ALL SMALL ARMS UP TO .50 CAL	
2	SMK DISCHARGER	
3	LASER	
4	25 mm	
5	60 mm	
6	M72 66mm	
7	76 MM	
8	81 mm	
9	84 mm	
10	105 mm TK	
11	105 mm HOW DIRECT FIRE	
12	105 mm HOW INDIRECT FIRE	
13	155 mm HOW DIRECT FIRE	
14	120 mm TK	

FIRING POINT 4

LOCATION

1. FIRING POINT 4 is located at GR 041 798 to 052 789, and includes the old FP 3, FP 5, SR and BR. The following facilities are located at the firing point:

- a. a hard standing firing pad;
- b. a fire control tower;
- c. moving target system (L1856) and Badger if requested;
- d. four single Battle Run lanes orientated North-South;
- d. ammunition storage area located behind the firing point; and
- e. troop shelter.

ARCS OF FIRE

2. Traces 4A, 4B, 4C, 4D, 4F, 4G, 4H, 4J, 4K, 4L. Note that the two markers downrange, are not Arc Markers, but merely Range Markers. The left and right of Arc are determined by each respective trace.

RANGE REGULATIONS

3. In addition to the general regulations found in CFP 381(1) and Annex F to Chapter 2, the following specific regulations apply to FP 4:

- a. the control tower will always be manned while firing is in progress. Normally the Firing Point Officer will be in the tower;
- b. when either FP 3, FP 5 and/or FP 6 are used concurrently (even by the same unit) the high tower at GR 045 789 will be manned so as to coordinate use of firing points;
- c. when the L1856 target system is required it will be requested at the same time that the range is booked. For the Badger system, it needs to be booked as early as possible, preferably 2-3 months in advance due to the travel / planning time required to bring the operators in. Any unit using the Badger system, will provide a briefing on the system, and show all crew commanders and gunners the difference between the tow vehicle (Badger) and the towed targets, by day and by night;
- d. vehicles using Battle Runs will not advance beyond West Road (approx GR 047 767); and
- e. radio communications will be kept at all time with Range Control.

4. In addition to the regulations found in CFP 381(1) and Annex F Chapter 2, the following regulations govern the use of the BRs:

- a. Range Control authority is required if the tank is to fire TPDS ammunition;
- b. all AFV mounted weapons may use the BRs;
- c. firing may take place on the move. The Leopard tank gun must be fully stabilized;
- d. firing may take place from any position along the run within the boundaries of the start point and the NO FIRE LINE (NFL):

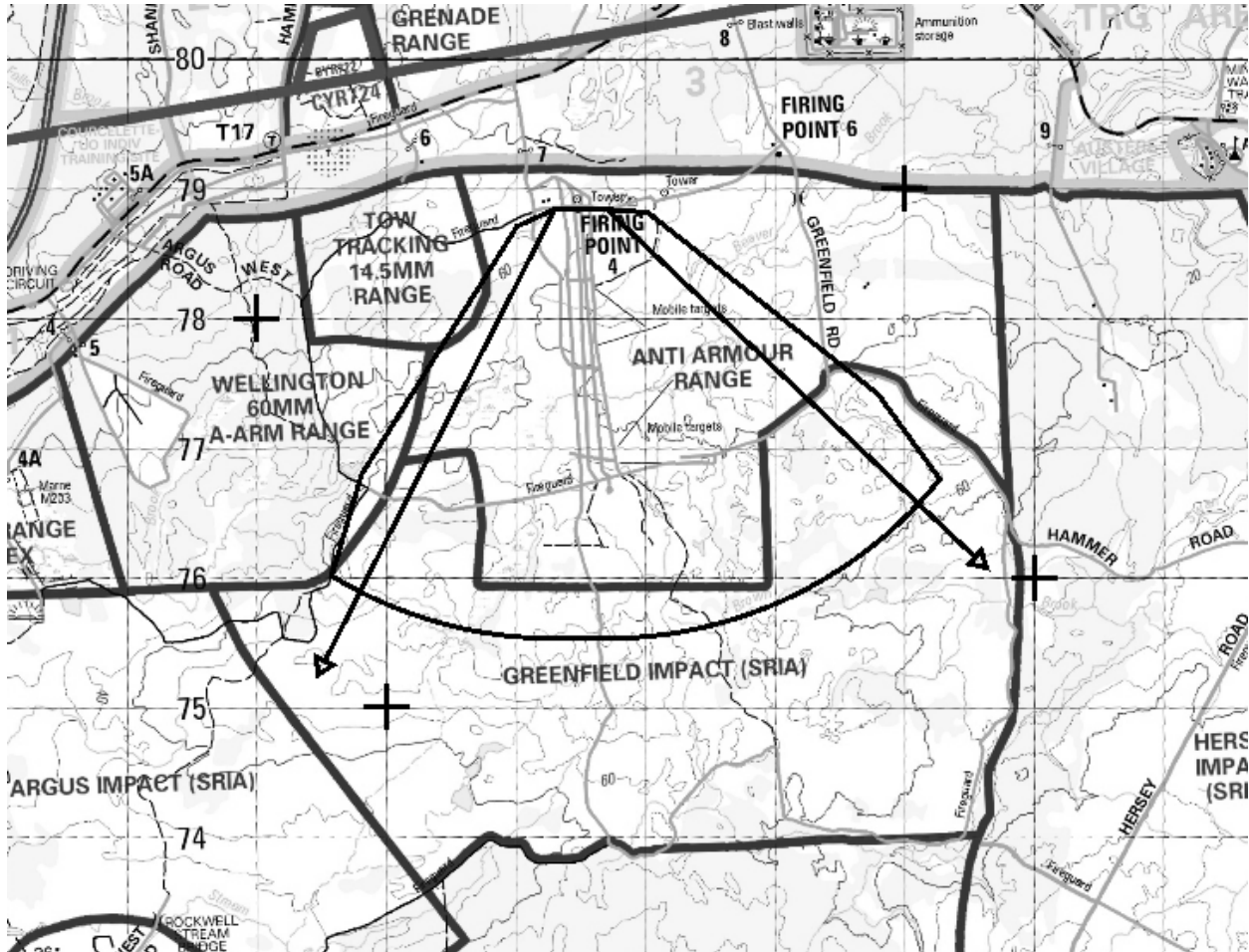
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- (1) the BRs(N) starts at the road joining FPs 4 and 5 and stops at the NFL; and
 - (2) the BRs(S) starts at the line of the high ground immediately North of the Greenfield Road and stops at the NFL;
- e. up to four vehicles may use the runs at one time. The Range Safety Officer will ensure that vehicles advance in a straight line to prevent a vehicle from entering the danger arc of another vehicle;
 - f. the Firing Point Officer will move with the vehicles. He will be in communication with the Range Safety Officer. The firing vehicle must have a fully qualified Crew Commander. If the Crew Commander is undergoing training, an ARSO (Normally the Crew Instructor) must accompany the vehicle;
 - g. the High Tower at GR 045 789 will be manned throughout the practice when firing is taking place, however, the Range Safety Officer will be located as follows:
 - (1) BR(N) - in the tower; and
 - (2) BR(S) - in a vehicle advancing with the firing vehicles;
 - h. when the BRs are in use, firing will only take place if the vehicle comd can clearly see the arc markers. If markers cannot be seen, firing will not take place unless the Range Safety Officer has erected individual lane markers. Lane markers are available from Range Control;
 - i. when reaching the limit of advance, weapons will be unloaded and made safe before vehicles return to the start point; and

5. **Flags/Lights and Sentries**

- a. A Red Flag/Light or sentry will be in position at Gate #7 at GR 041 793 throughout the time the range is in use.
- b. Prior to commencing fire, the Range Safety Officer will ensure that the following barriers are secured:
 - (1) Barrier # 7 - GR 041 793; (closed at all time) and
 - (2) Barrier # 8 - GR 057 803; locked at all times.
- c. Visitors to the range will be met at Barrier #7 and escorted forward.
- d. Appropriate coloured flags/lights will be displayed at the control tower (firing point); and
- e. during night firing, flashing amber lights will be positioned on Arcs of fire.
- f. When indirect fire is authorized (normally for demonstrations):
 - (1) the positive safety will be applied when the number of spectators dictate;
 - (2) fire will not be directed so as to cause damage to the roads and the moving target system; and
 - (3) all L1856 DFTS will be safely stored prior to using explosive ammunition.
- j. When the Battle Runs are used:
 - (1) a blue and white checked flag will be flown at the control tower/point immediately under the red flag;
 - (2) weapons will be proven safe before the vehicles return to the firing pad; and
 - (3) all other FPs are closed.

TRACE 4A
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EDITION 20 2018



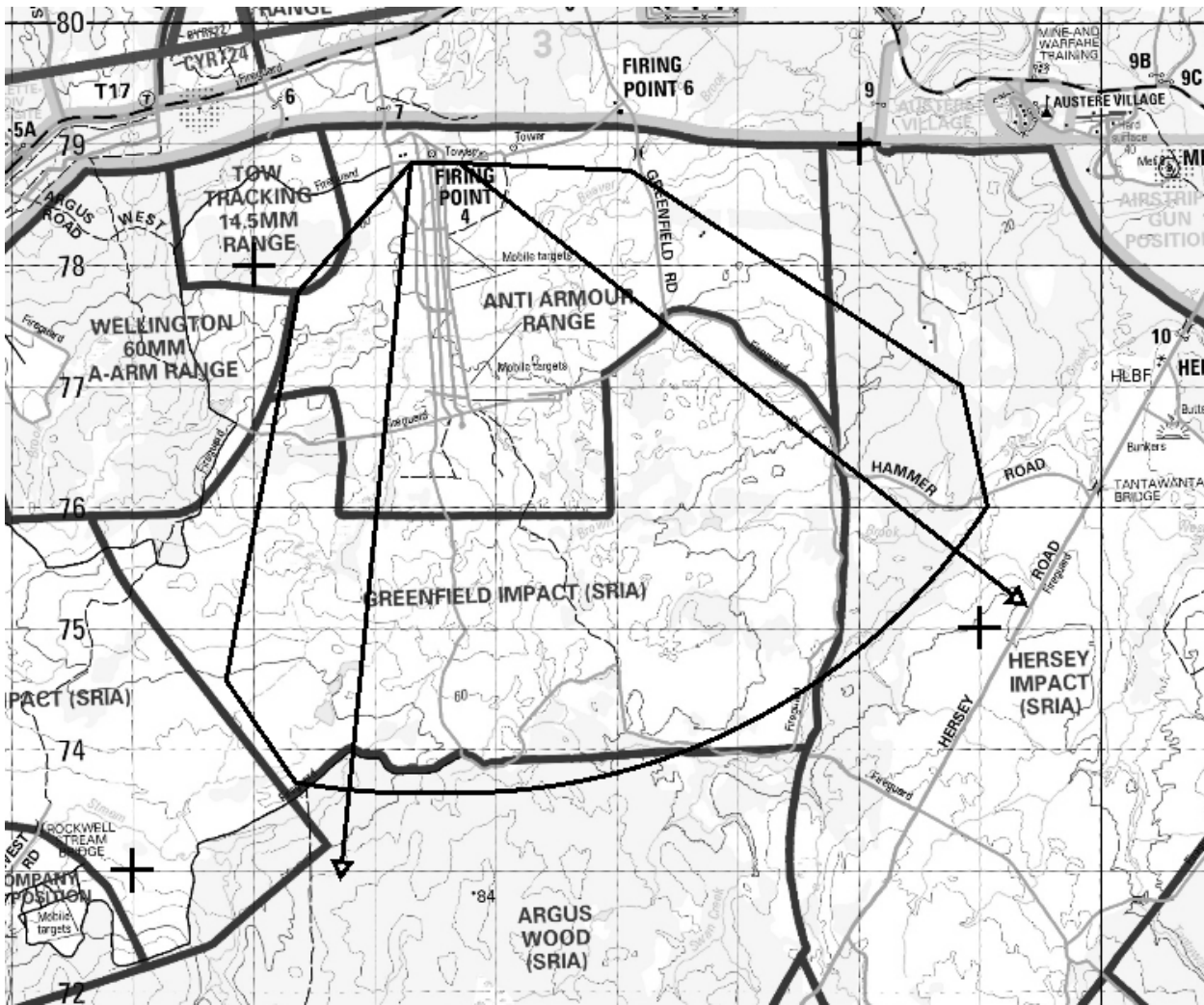
Not to Scale

Trace 4A

Firing Point 4
LFP: 04700 78840
RFP: 04300 78840
LOA: 2370 mils
ROA: 3680 mils
Ammo: 5.56mm, Max QE 200 mils

Training Area: FP 4
[5]Impact Areas: AAR, GI
[6]Ricochet Areas:14.5(TTR), Wellington

TRACE 4C
APPENDIX 1
ANNEX F
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



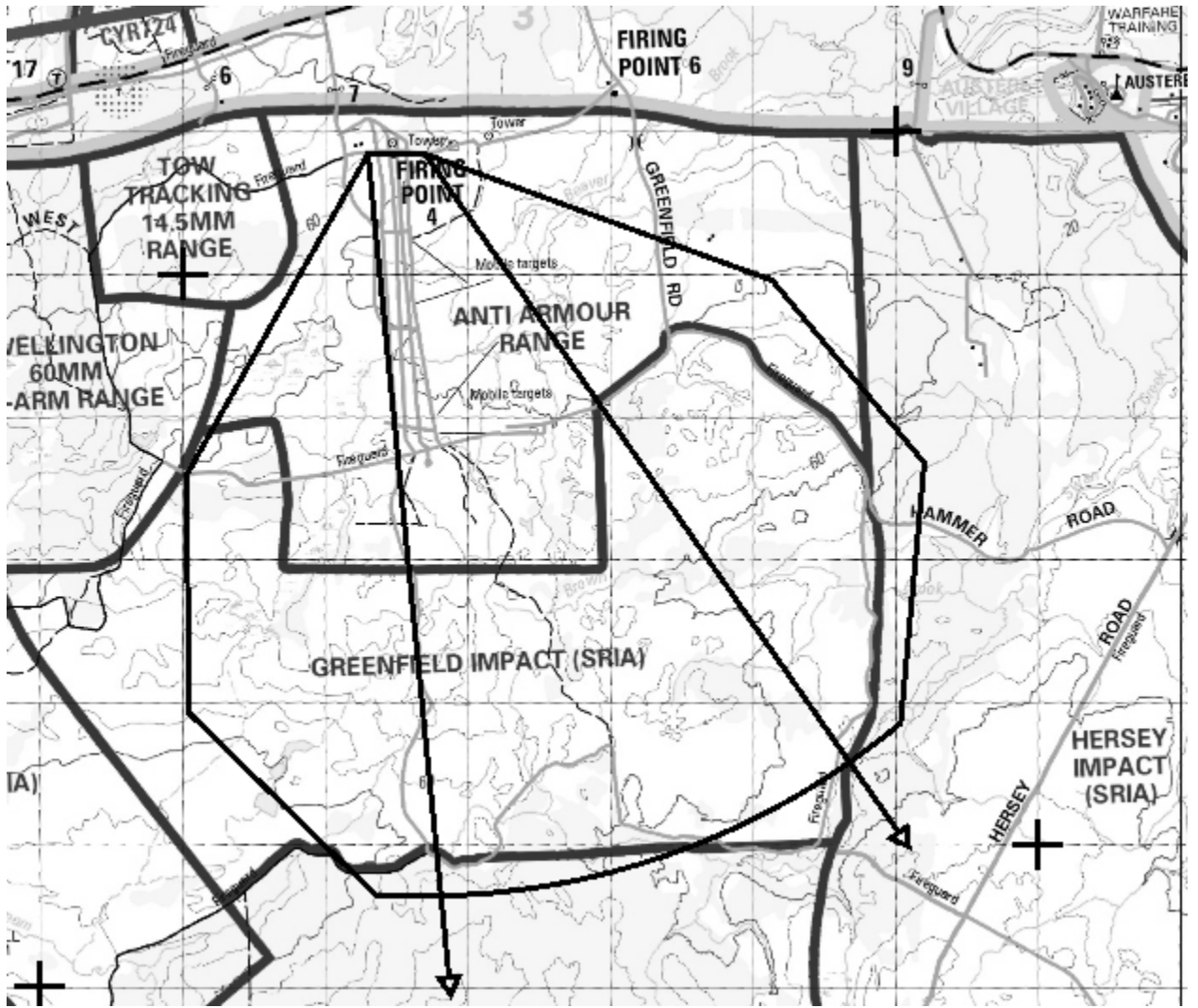
Not to Scale

Trace 4C

Firing Point 4
LFP: 04700 78840
RFP: 04300 78840
LOA: 2275 mils
ROA: 3300 mils
Ammo: .50 cal, Max QE 240 mils (soft target)

Training Area: FP4
[5] Impact Areas: AAR, GI
[6] Ricochet Areas: 14.5(TTR), AW, HI

TRACE 4D
APPENDIX 1
ANNEX F
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



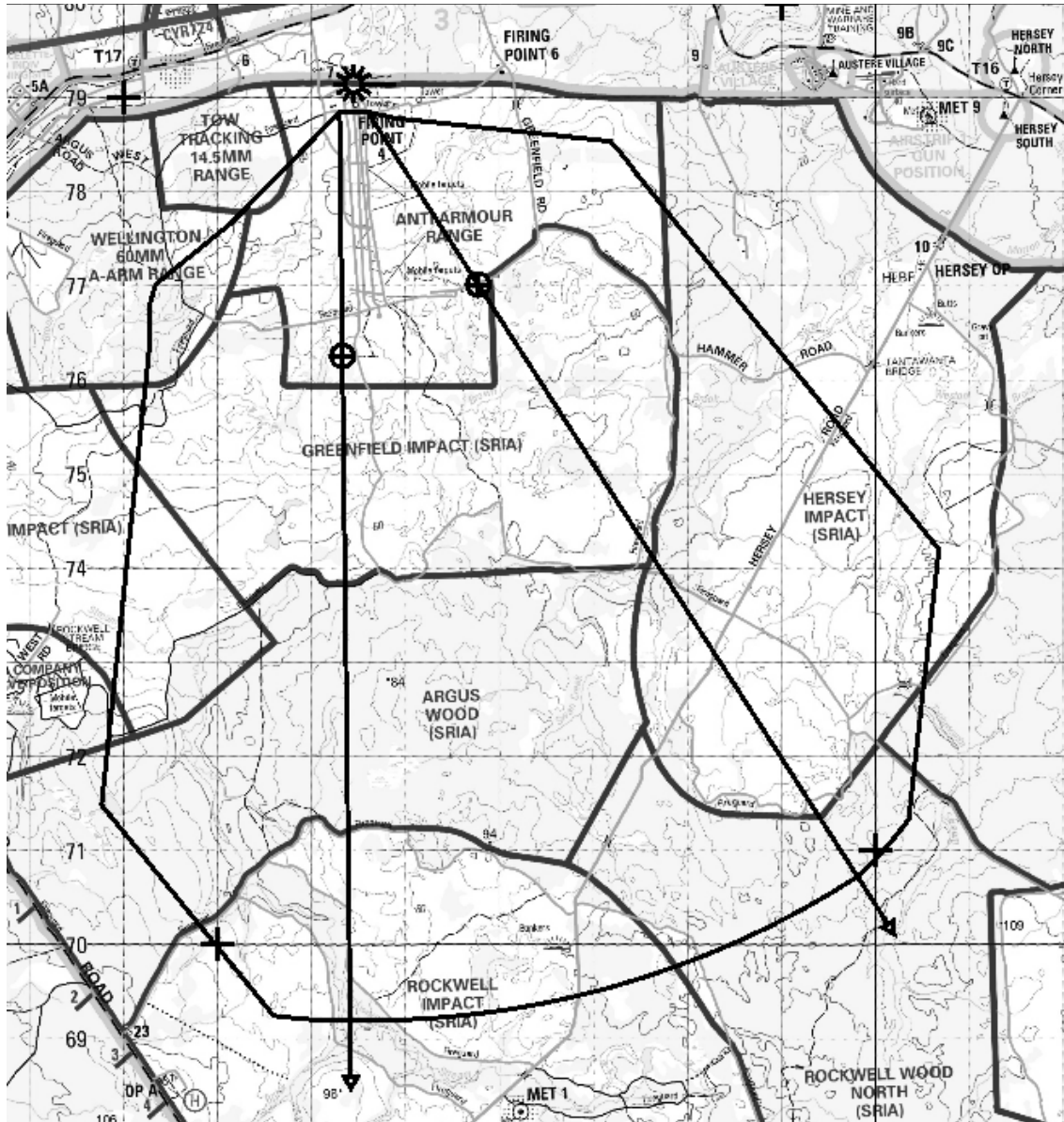
Not to Scale

Trace 4D

Firing Point 4
LFP: 04700 78840
RFP: 04300 78840
LOA: 2579 mils
ROA: 3100 mils
Ammo: .50 cal, Max QE 240 mils (hard target)

Training Area: FP4
[5]Impact Areas: AAR, GI
[6]Ricochet Areas: AW, HI

TRACE 4F
APPENDIX 1
ANNEX F
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



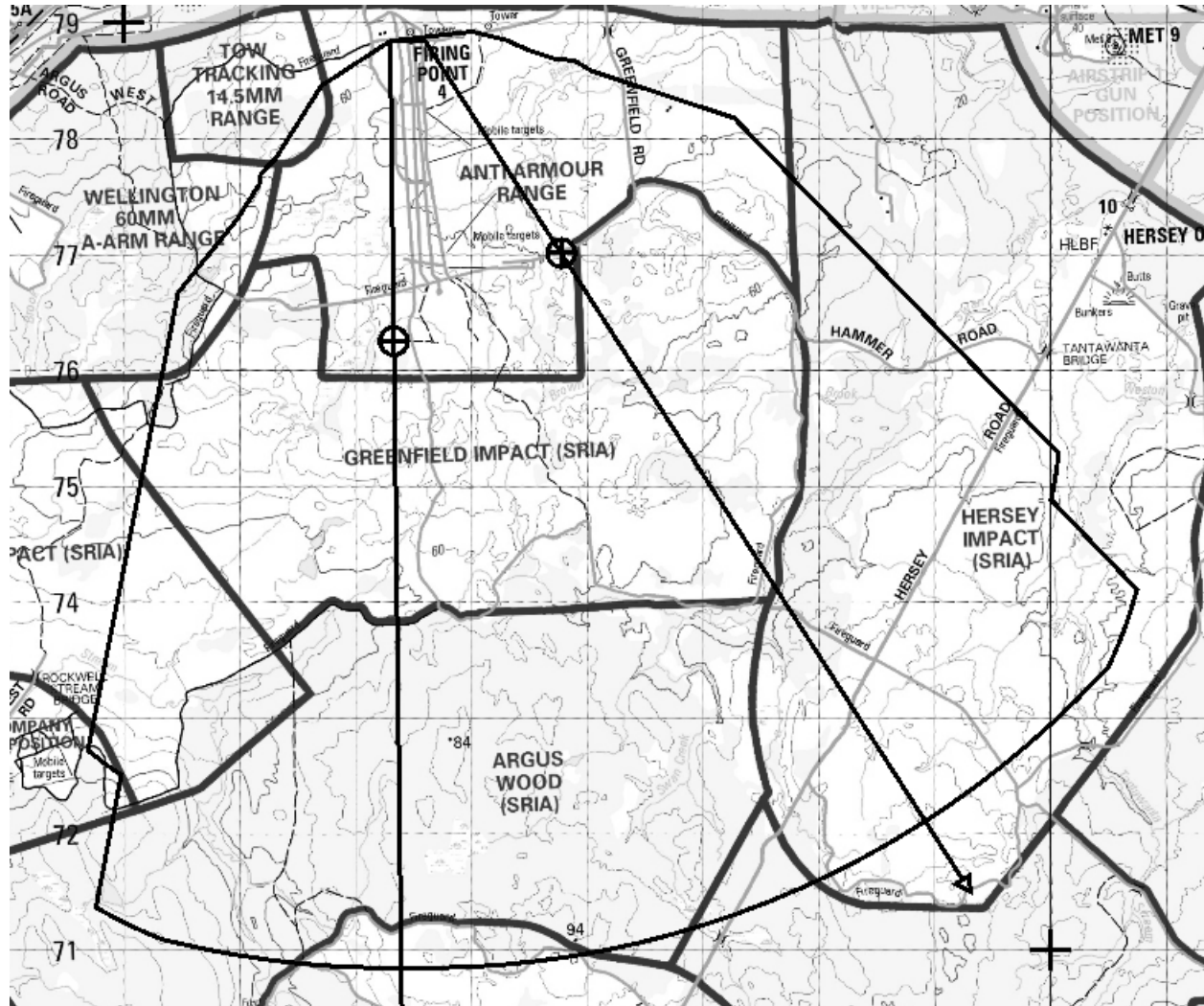
Not to Scale

Trace 4F (Static)

Firing Point 4
LFP: 04600 78840
RFP: 04300 78840
L Marker: 05775 77009
R Marker: 04330 76250
Ammo: 120TK-TPCSDS-T M865 (HARD), 120TK-IMTP-T-NM254(Hard), 76mm Smk - Waiver required for 76mm Smk

Training Area: FP 4
[5]Impact Areas: AAR, GI
[6]Ricochet Areas: 14.5(TTR), Wellington, AI, AW, RI, RWN, HI, DW

TRACE 4G
APPENDIX 1
ANNEX F
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



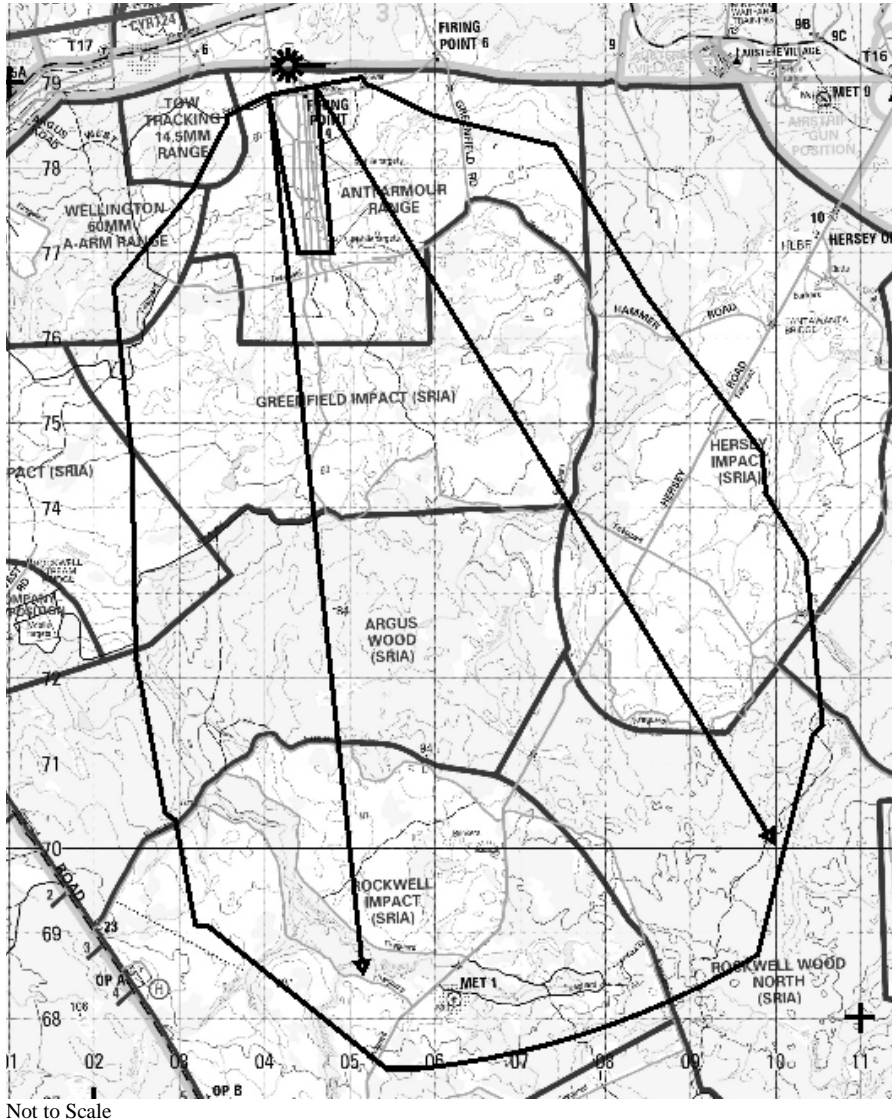
Not to Scale

Trace 4G (Static)

Firing Point 4
FP: 04500 78900
L Marker: 05775 77009
R Marker: 04330 76250
Ammo: 7.62mm, 25mm TPDS-T (C131, C150, C151), C142HEI, C152-C143TP

Training Area: FP 4
[5]Impact Areas: AAR, GI
[6]Ricochet Areas: AW, AI, RI, RWN, HI, TTR

TRACE 4J
 APPENDIX 1
 ANNEX F
 VOLUME 2
 5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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Trace 4J (Battle Run)

Firing Point 4 Manoeuvre Box

LBP: 04600 78950, RBP: 04050 78850, LFP: 04800 77000, RFP: 04400 77000

LOA: 2646mils, ROA: 3091mils

Ammo: 5.56mm, 7.62mm, 40mm-HV-C16-TP-TP-T, 25mm TPDS(C131, C150, C151), HEI C142, TP (C152, C143), 120TK-TPCSDS-T M865(Hard), 120TK IMTP-T NM254(Hard), 76mm Smk - Waiver required for 76mm Smk Max QE: 10 degree (178 mils)

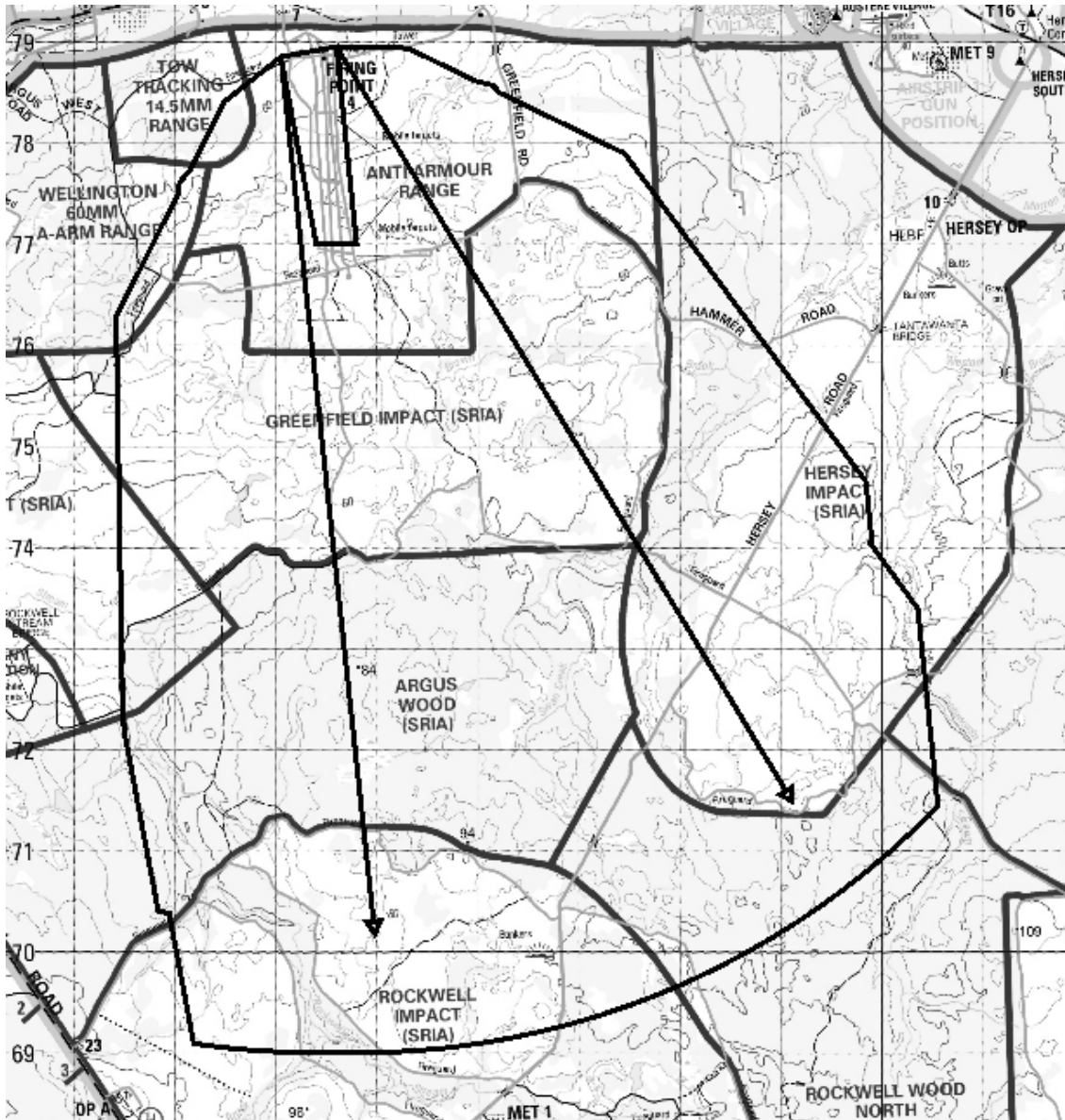
Training Area: FP 4

[5]Impact Areas: AAR, GI

[6]Ricochet Areas: 14.5(TTR), Wellington, AI, AW, RI, RWN, DW, HI

F1 TR 4J

TRACE 4K
 APPENDIX 1
 ANNEX F
 VOLUME 2
 5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
 EDITION 20 2018



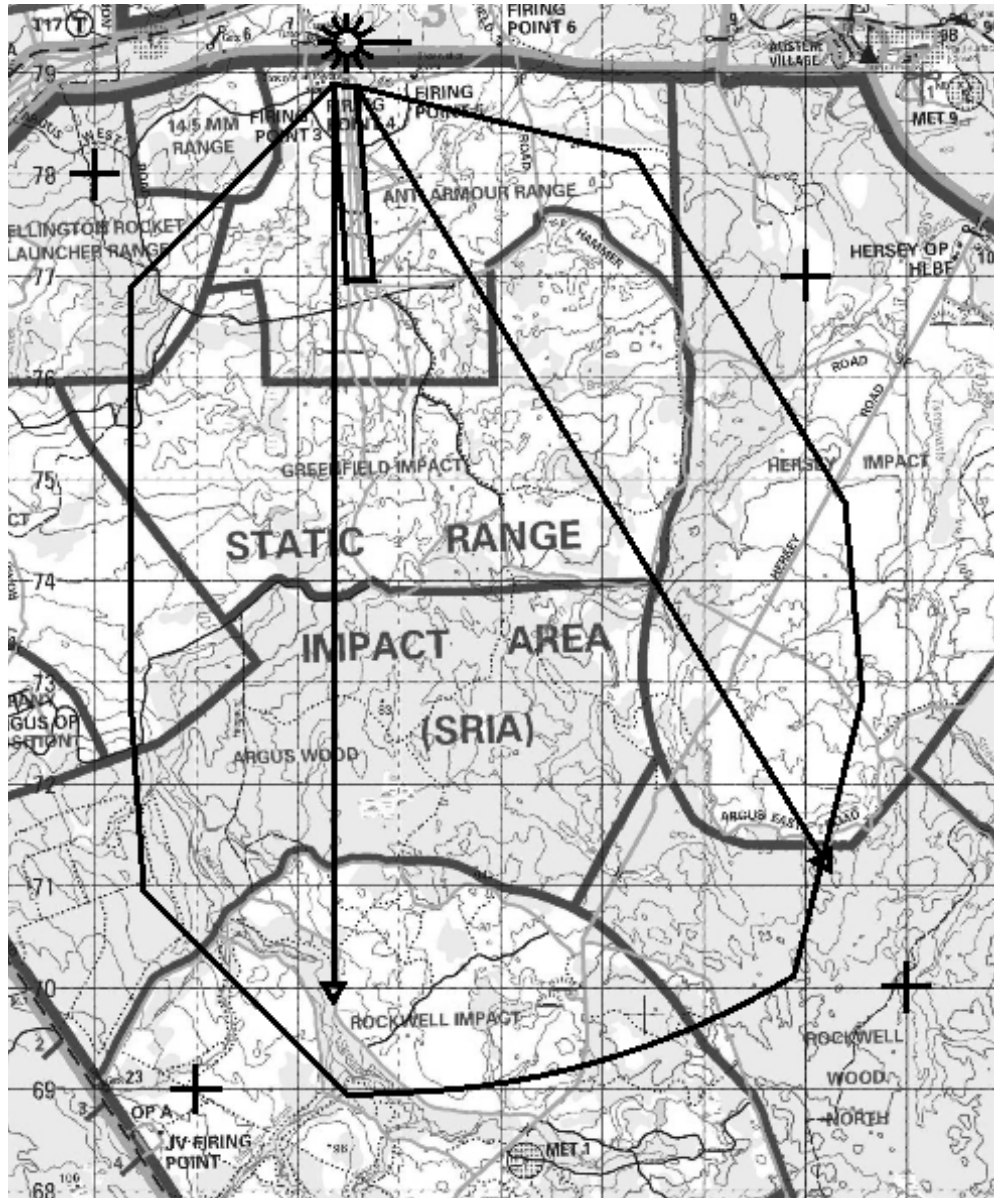
Not to Scale

Trace 4K (Battle Run)

Firing Point 4
 LBP: 04600 78950
 RBP: 04050 78850
 LFP: 04800 77000
 RFP: 04400 77000
 LOA: 2646 mils ROA: 3091 mils
 Ammo: 5.56mm, 7.62mm, 25mm: TPDS-T (C131, C150, C-151), HEI-T C142, TP-T (C143, C152), 76mm
 (Waiver required for 76mm) Max QE: 10 deg (178 mils)

Training Area: FP 4
 [5]Impact Areas: AAR, GI
 [6]Ricochet Areas: 14.5(TTR), Wellington, AI, AW, RI, RWN, DW, HI

TRACE 4L
APPENDIX 1
ANNEX F
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



Not to Scale

Trace 4L

Firing Point 4
LBP: 04576 78862
RBP: 04351 78875
LFP: 04748 76957
RFP: 04483 76944
LOA: 2646 mils ROA: 3200 mils
Ammo: 105TK HESHL35_Hard, SHPC109H, TPC148H, 120TK-TPCSDS-T M865(HARD),76mm SMK
(Waiver required for 76mm Smk)

Training Area: FP 4
[5]Impact Areas: AAR, GI
[6]Ricochet Areas: 14.5(TTR), Wellington, AI, AW, RI, RWN, HI

FIRING POINT 6

LOCATION

1. FIRING POINT 6 is located at GR 060 791. The following facilities are located at the firing point:
 - a. hard standing firing pad;
 - b. troop shelter; and
 - c. a single vehicle battle run utilizing the Greenfield Road.

ARCS OF FIRE

2. Traces will be submitted to Range Control for any live firing occurring at FP 6.

RANGE REGULATIONS

3. In addition to the general regulations found in CFP 381(1) and Annex F to Chapter 2, the following regulations apply to the use of FP 6:
 - a. use of the battle run will be requested at the time the range is booked; and
 - b. vehicles using the battle run will not advance beyond the Beaver Creek Bridge at GR 062 789 without Range Control Authorization.
 - c. **Flags/Lights and Sentries**
 - (1) a Red Flag/Light or sentry will be in position at Gate #8 GR 057 803 throughout the time the range is in use;
 - (2) prior to commencing fire, the Range Safety Officer will ensure that unauthorized access is controlled by checking to confirm that the following barrier is closed: Barrier #7 - GR 041 793;
 - (3) visitors to the range will be met at Barrier #8 and escorted forward;
 - (4) appropriate coloured flags/lights will be displayed at the firing point; and
 - (5) during night firing, flashing amber lights will be positioned on the arcs of fire.

INDIRECT FIRE WEAPONS

GENERAL

1. This annex details the range regulations for the employment of Indirect Fire Weapons in the 5 Canadian Division Support Base Range and Training Area.
2. Regulations applicable to weapon safety are found in B-GL-381-001/TS-000.

SUPERVISION

3. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the type of weapon used.
4. The appointment and duties of the Range Safety Officer will be IAW G-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.
5. An officer or a qualified SR NCO will visually observe all indirect fire on 5 Canadian Division Support Base ranges. Only under special circumstances and with the prior approval of the School Commandant will a MBdr qualified Observation Post Detachment Commander be authorized to observe the fall of shot as the senior person at an OP. MBdr's will not be authorized under any circumstances to conduct Danger Close or Mobile Operations (either mounted or dismounted). Observers will be in working communication with the Bty CP. For the purpose of this order, observation using the MSTAR Radar will constitute an appropriate means of observation over the impact area. Under most circumstances, visual observation using binoculars, NODLR or weapons sights will be used as a back up to MSTAR observation. However, during inclement weather, night operations, or for the purpose of specific training aims, the MSTAR may be used in isolation. During these circumstances, all target grids and corrections will be double checked on an authorised map in order to ensure that rounds are falling within the designated Restricted Impact Area and that those areas that are to be kept safe are not targeted.
6. The OIC Practice will ensure that a qualified First Aid person is designated. There will be a stretcher and vehicle dedicated as an ambulance available at each firing location. Other medical considerations will be IAW B-GL-381-001/TS-000.

LOCATIONS AND USE

7. **Impact Areas.** All indirect fire will be directed so as to impact into one of the areas described at Appendix 1 to this Annex. Impact restrictions are listed in the remark column.
8. **Ricochet Areas.** Ricochet areas must be specifically requested when booking impact areas. Ricochet areas are not automatically allocated with impact areas.
9. **Deployment Areas.**
 - a. Indirect fire weapons may deploy anywhere in the training area in a position considered suitable to the Safety Officer.
 - b. Indirect fire weapons will not be positioned outside CYR 724.
 - c. Indirect fire weapons will not be positioned within the boundaries of the SRIA unless specific authority is received from Range Control.

- d. All deployment areas will be coordinated at the weekly Range Allocation Confirmation Conference, and will appear on DRSOs.
- e. Artillery Guns, Tanks and Mortars must be deployed away from non-DND property and no closer to Camp boundary lines than:
 - (1) 105 mm Howitzers and Mortars - 200 metres; and
 - (2) 155 mm Howitzers - 400 metres.

10. **Observation Post (OP).**

- a. Mobile OPs within the SRIA is authorized when the unit(s) has requested exclusive use of the impact area, and that it is published in DRSOs;
- b. OPs may be established along the edges of designated impact areas; however, requesting unit(s) must ensure coordination between all users;
- c. Although the OPs may deploy anywhere in the Training Area, Safety Officers must ensure that all OP grids are plotted and kept safe, including locations of units sharing the OP Area; and
- d. OP locations must be reported to Range Control including new locations when moving outside of 100m radius of recorded location.

11. **Direct Fire From Indirect Fire Weapons.** Direct fire from indirect fire weapons is authorized into any impact area providing the weapon used can be templated into the area allocated on DRSOs. When booking ranges, direct fire will be specifically requested.

12. **Indirect Fire From Direct Fire Weapons.** AFVs may fire in the indirect role into any impact area providing the weapon used is designed for that purpose and can be templated into the area allocated on DRSOs. When booking ranges, indirect fire will be specifically requested.

13. **.25mm Mortar Trainer.** The .25mm Mortar Trainer is not restricted to any specific range. See Annex Q to Chapter 2.

AUTHORIZED WEAPONS/AMMUNITION

14. All types of indirect fire weapons and ammunition may be fired into authorized areas providing the relevant restrictions found in these Standing Orders and related weapon and ammunition manuals are applied.

UNSAFE ROUNDS

15. In the event that any round lands outside the designated target area (ie, unsafe round) the OIC Exercise will immediately order Check Fire and notify Range Control. Firing will only continue with Range Control authority.

16. The OIC exercise will investigate the incident and make a report in writing to his CO stating the cause, circumstances and names of offenders. The CO will advise Commander 5 Canadian Division Support Base and Commander CTC within 48 hours of the action taken to ensure that a similar incident does not happen again.

MINIMUM PERMISSIBLE DETACHMENTS

17. The minimum detachments that are permitted to fire indirect weapons on 5 Canadian Division Support Base

ranges area:

- a. Mortar - two men;
- b. 105 mm C3 - four men;
- c. 105 mm LG1 – 3 men; and
- d. 155 mm - four men.

18. Neither the layer, nor the loading number(s) will perform the duties of any other number on the gun when working with reduced detachments, except for mortars.

19. Should the employment of detachments smaller than detailed in paragraph 17 be required to meet course requirements, permission may be obtained from the CO Ops Svcs Br. For the Artillery School, this authority is delegated to the Commandant.

TARGET RESTRICTIONS

20. Indirect fire weapons will not be directed so as to cause damage to:

- a. range or survey towers within 300 metres;
- b. L1856 Target System;
- c. splinter proof or range buildings;
- d. telephone lines;
- e. all roads - apply positive safe distance or 1000m (whichever is greater) from MSRs;
- f. air landing strips;
- g. cemeteries; and
- h. watercourses, wetlands or waterbodies.

21. In the event that damage does occur, the OIC Exercise will advise Range Control so that repairs can be carried out without delay.

FIRING RESTRICTIONS

22. The senior officer at the gun position is responsible for ensuring that site tests are carried out prior to the first shoot and prior to any subsequent shoot if a move has been carried out.

23. The maximum trajectory altitude permissible must not exceed 7620m (25,000 ft) AGL. When timed or proximity fuses are used, the maximum safe distance is 7620m (25,000 ft) minus the POSITIVE safe distance of the ammunition used.

24. All personnel must keep a close lookout for Air OPs and other aircraft. Guns will not be fired if an aircraft appears likely to cross the bearing of fire.

25. Soft ground traces will be used throughout the 5 Canadian Division Support Base training area except

when:

- a. targets to be engaged are hard targets;
 - b. detailed otherwise in DRSOs; and
 - c. when positive safety must be applied.
26. When a firing position is given by grid reference in DRSOs, the battery, or group centre must be within 100 metres of the grid reference ordered.
27. When a deployment area is given in DRSOs, all weapons must be deployed within the boundary of that area.
28. When base ejection projectiles are fired, the point of impact or the point of burst must be within the impact area. The carrier shell may impact within the allotted ricochet area.
29. All personnel will wear ear defenders IAW Chapter 1.
30. The firing of MTSQ fuses with HE projectiles on 5 Canadian Division Support Base ranges is subject to the following regulations:
- a. guns will not be sited to fire over:
 - (1) other guns, vehicles, equipment or personnel; and
 - (2) roads or tracks that may be open to traffic unless sentried; and
 - b. guns may be fired from circular positions;

SHARING OF IMPACT AREAS

31. The same impact area(s) may be used by two or more units providing:
- a. the OICs Exercise are aware of each other's location;
 - b. the OICs Exercise are in contact;
 - c. such firing is authorized by DRSO;
 - d. neither positions in the impact area are changed nor movement of personnel permitted without prior liaison between OICs Exercise; and
 - e. safety officers have all occupied positions plotted with safety radius around them.

FLAGS, LIGHTS, SENTRIES, KEYS

32. Access to the SRJA is strictly controlled. All roads have barriers or gates and are locked. Keys are available at Range Control (see Chapter 1, Sect 4).
33. There are troop shelters at Argus, Hersey, Lawfield and OP A. Keys are available at Range Control.
34. When authority is given to fire from a fixed firing point, the appropriate flags designated for use at that

firing point will be flown.

35. Firing will not commence until such time as the OIC Exercise has ensured that all warning devices are properly positioned.

COMMUNICATIONS

36. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:

- a. call sign;
- b. request permission to go live;
- c. IAW with DRSOs SERIAL ____; and
- d. OIC (Rank, Initial, Name)

37. If communications with Range Control are lost, the range user will immediately check fire and remain in check fire until communications are re-established.

BLINDS AND MISFIRES

38. Misfires will be treated as per the applicable weapons safety manual and, where possible, be made safe and returned to the ASA by the user. Misfires, which cannot be made safe, will be marked and their location sent to Range Control who will become responsible for their destruction. If in doubt of procedures, contact Range Control.

39. Blinds will be recorded on the Range Clearance Certificate. Range Control will be responsible for their destruction.

FIRE FIGHTING

40. Fires within impact areas are to be reported to Range Control. No attempt to fight fires will be made without the authority of Range Control. Units must become familiar with Chapter 1, Section 7.

RANGE CLEARANCE

41. On completion of range usage, all deployment areas, OPs and other areas used will be left clean. Applicable items will be taken to the ASA while all garbage will be taken to the Landfill Site. All troop shelters will be swept clean. All brass will be picked up.

42. Prior to leaving the Range, the OIC Practice will ensure that all barriers are locked.

43. Once firing has been completed, a Range Clearance Certificate will be completed by the OIC Practice and turned in to Range Control before closing down on the Range Control Net.

44. The OIC Practice will report any unsatisfactory condition on the Range Clearance Certificate and turn it in to Range Control on completion of firing.

45. Range cleanliness will be inspected by Range Control the day following the range practice or if requested immediately upon completion of firing, in the presence of the user. A forty-five minute notice of inspection must be given to Range Control.

AUTHORIZED IMPACT AREAS

IMPACT AREA NAME	REMARKS
LAWFIELD IMPACT (LI) Centred on GR 130 692	Lawfield OP (LOP) at GR 164 694. Troop Shelter at OP. Must keep positive safety or 1000 m whichever is greater safe distance from MSR. Must keep positive safety around the Urban OP at GR 162 693
HERSEY IMPACT (HI) Centred on GR 090 742	Hersey OP (HOP) at GR 105 771. Troop Shelter at OP. Bunker at GR 106 766.
GREENFIELD IMPACT (GI) Centred on GR 040 742	No effects in Anti-Armour Range without Ops Svcs Br Ops O authorization.
ARGUS IMPACT (AI) Centred on GR 015 737	Argus OP (AOP) at GR 002 720. Troop Shelter is located at the OP.
MOUNTAIN IMPACT (MI) Centred on GR 220 482 Note: Hamilton Woods is not part of the Impact or Ricochet Area	No use of WP, SMK or ILL authorized. Apply Positive Safe Distance along Camp Boundary and Olinville Road. Must designate a charge whose maximum low angle range does not exceed the area authorized for impact, for each gun position. At a minimum, Ready Survey State Bravo must be achieved at each gun position. No Impact and Ricochet in Hamilton Wood. Gates 15 and 17 must be locked. Not to be used when Fire Index is MODERATE or over.
ROCKWELL IMPACT (RI) Centred on GR 050 672	OP A at GR 025 682 OP B at GR 033 674 Must keep positive safety or 1000 m (whichever is greater) safe distance from MSR.

Mobile Observation Posts must be booked as exclusive use.

Argus Wood, Dingee Wood and Rockwell Wood North and South are used for Ricochet.

Carrier Shells must function within open areas, but the carrier itself may terminate its flight in the trees

INSTRUCTIONS FOR FIRING DANGER CLOSE TARGETS OR POSITIVE SAFETY

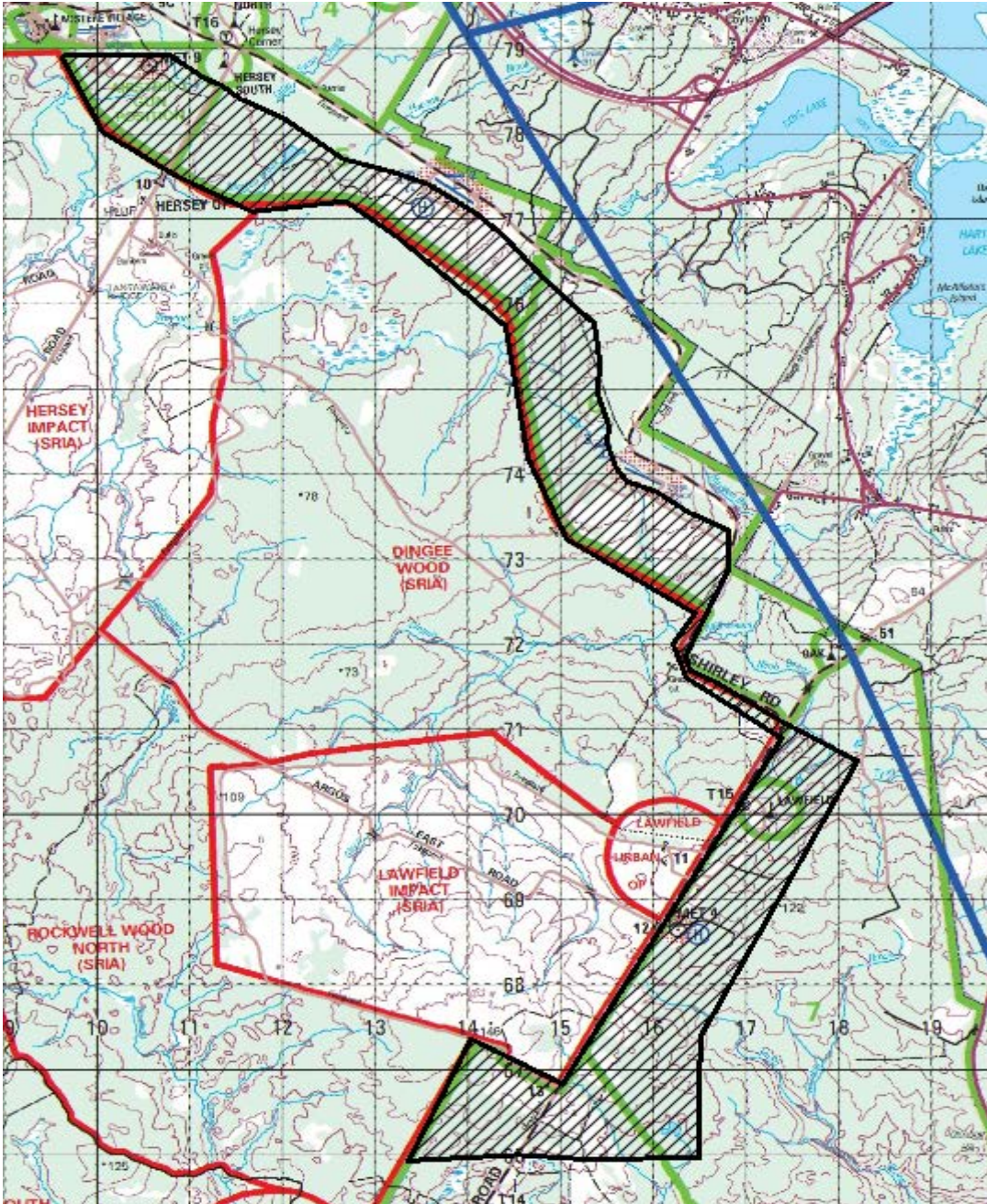
PREPARATIONS FOR PRACTICE

1. Level 2 Formation Commanders and CTC Commander are delegated approving authority of artillery danger-close missions. Written authority will be obtained and provided to Rge Ctl prior to the range booking being confirmed. The distance reductions will be in accordance with B-GL-381-001/TS-000.
2. When firing danger close, the provisions specified in Chapter 4 of B-GL-381-001/TS-001 are to be followed.
3. For these practices, the OP Bunker at Grid Reference GL 105 766 or GL 06602 69961 shall be used.
4. The required qualifications, duties and responsibilities of the RSO are promulgated within 381- (1).

CONDUCT OF PRACTICE

5. A Medical Technician with ambulance, First Aid kit and communications will be positioned in a safe location close to the observation post.
6. The OIC Exercise will be at the OP and prior to each mission will verify to the Safety Officer that all personnel are under cover.
7. An observer with communications to the firing position must be positioned with the foremost troops.

ROZ NORTH GUN
APPENDIX 3
ANNEX G
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 20 2018



Not to Scale

ROZ NORTH GUN

Template: ROZ NORTH GUN
Ammo: Live deployment area for 155mm, 105mm and 81mm firing into the SRIA

G1 TR FASGUN

VERDUN GRENADE RANGE

LOCATION

1. The Grenade Range is located at GR: 998 767.

DESCRIPTION

2. The range consists of a standard grenade range.
3. The grenade range will not be used after sunset or before sunrise. The range will not be used unless it is cleared of snow.

SUPERVISION

4. The OIC Practice may act as the Range Safety Officer (RSO) or appoint a qualified officer/NCO to perform the duty. A designated, qualified officer/ NCO will be named for dud destruction. The RSO and the dud destruction officer/NCO may be one and the same. The OIC dud destruction officer/NCO will be qualified and authorized access to demolition stores IAW Chapter 1, Section 2, Para 1.207.
5. It is the duty of the OIC firing practice to try to foresee possible accidents that might occur through nervousness and/or through defects in the grenades in use. He shall instruct supervising NCO's and the men trained of the immediate action to be taken in the event of a mishap.

FLAGS AND SENTRIES

6. Sentries, flags and barriers will be positioned as follows:
 - a. standard range – Sentry #1, flags and barriers A and B
 - b. control flags (red and green as applicable) will be flown from the control tower.
 - c. flags and keys will be obtained from Range Control.

CONDUCT OF THE PRACTICE

7. **Standard Range**
 - a. When using the standard range, only the throwing bays will be used.
 - b. Only one thrower will occupy the throwing bay at a time, and only one bay will throw at a time. **Under no circumstances will two or more grenades be thrown at the same time.**
 - c. Duds will be disposed of as they occur and prior to any additional grenades being thrown. The relevant waiting period must be observed before approaching the dud.
 - d. Prior to the practice, all personnel will be specifically warned of the requirement to remain under cover and not observe the explosion except through the safety glass provided.
 - e. The throwing bay NCO must:
 - (1) Ascertain whether the thrower is left or right handed, then place the thrower so that the opposite shoulder is facing the front wall;
 - (2) Check that there is sufficient clearance for the thrower to execute a full over arm throw;

- (3) Confirm that the thrower understands the words of command and actions to be carried out;
 - (4) Brief the thrower on the procedure in the event of a mishap;
 - (5) Indicates and ensures the target to the thrower;
 - (6) Indicates to the RSO when the thrower is ready;
 - (7) Ensure all safety drills are carried out safely and correctly;
 - (8) Observe the flight and fall of the grenade with the thrower; and
 - (9) Ensure the thrower and they are behind cover before the grenade detonates.
- f. The RSO must:
- (1) Ensure only those designated to throw are in the throwing bays and any waiting details are behind cover
 - (2) Use the correct words of command as follows:
 - (a) Ready: (thrower removes grenade from pouch and carries out safety check);
 - (b) Throw: (thrower removes pin, checks it is fully removed, throws and shouts 'GRENADE!').
 - (3) Ensures all grenades thrown have fully detonated before ordering details to change; and
 - (4) Makes frequent visual checks of the danger area to ensure no persons or equipment are in danger.
- g. The ammunition bay NCO must:
- (1) Only issue a thrower with the number of grenades to be used. This will be directed by the OIC Range.
 - (2) Ensure throwers carry out all necessary safety checks; and
 - (3) Keep a detailed check on the number of grenades used and grenades remaining. Grenades must remain in the containers until issued to the thrower.

TARGETS

8. Targets may be deployed with Range Control authority in accordance with 381-1 part 2.

COMMUNICATIONS

9. Communications will be kept at all times with Range Control on safety net. Unit will require permission to go live and will report the following:

- a. call sign 1H
- b. request permission to go live
- c. IAW DRSO's serial _____
- d. OIC (rank, initial, name)

10. Communication systems in the range are as follows:

- a. between tower and throwing bays;
- b. between tower and sentries.

DRESS AND EQUIPMENT

11. Helmets and full fighting order are to be worn at all times when the range is in use, this includes waiting details. Ear protection should be used.

VEHICLES

12. Emergency vehicle is to be parked behind the blast wall. All others will be parked by the North access gate. No vehicles are to be parked directly behind the tower or throwing bays when the range is live.

RANGE CLEARANCE

13. Immediately after the grenade practice is completed and Range Control has been advised of “Range Safe” the OIC Exercise will coordinate to have Range Clearance completed. Range Control requires a minimum of 45 minutes warning.

AUTHORIZED WEAPONS AND AMMUNITION

14. All grenades stocked and authorized for use by the Canadian Armed Forces may be thrown on the grenade range. With Range Control authority, ¼ lb. explosive charges may be used for refresher training when the demolition range is in use.

MEDICAL

15. First Aid personnel, of Corporal or higher rank, trained to the level described in annex B to CFAO 905 (standard First Aid Course), with a first aid kit, two litters, four blankets and a designated safety vehicle (which must be capable of taking prone casualty), will be present during range practice. The safety vehicle will be parked behind the blast wall while the range is live.

DUDS

16. When three (3) successive blinds occur within one lot number and/or a total of five (5) occur during the practice, firing will cease and Range Control will be informed.

17. The OIC Exercise is responsible for destruction of duds for all grenade practices. If there is a situation where the OIC or the person designated and authorized to destroy “dud” is unsure of the correct safe method, assistance from Range Control will be requested.

18. Should a dud occur, the OIC will ensure all personnel remain under cover, report the dud to range control and take the following action:

- a. wait behind cover for a period of 30 minutes;
- b. move forward **alone** and destroy the dud; and
- c. if the dud cannot be located by a **visual** check of the ground, the practice must be terminated, the suspected location marked on a trace prepared by the OIC and a full report sent to Range Control. Under no circumstances will ground or snow be disturbed in an effort to locate a dud.

19. Each dud grenade will be destroyed before the practice can continue.

MAINTENANCE

20. Upon completion of a live grenade practice, the OIC exercise will ensure completion of the following procedures prior to departing the range.

- a. **General**
 - (1) Troop shelter, tower and washroom floors will be swept and all refuse removed from the range; and

- (2) Doors will be secured on all buildings.

b. **Grenade Impact Area**

- (1) The area around the range including the throwing bay will be visually swept and all refuse picked up and removed from the range by the user unit.
- (2) The impact area will be visually swept and all fragments will be picked up and put in the container provided. All holes in the impact area will be refilled to ground level and raked smooth.

21. Prior to leaving the range, the OIC Practice will ensure that barriers are locked.

RANGE CLEARANCE

22. Immediately after the grenade practice is completed and Range Control has been advised “Range Safe” the OIC Exercise will complete a Range Clearance Certificate and submit it to Range Control immediately on return to base before closing down on the Range Control net. Range Control will inspect the range for cleanliness the next day. If requested by the user, the range will be inspected immediately after the range practice is complete.

CLOSE QUARTER BATTLE LANES

LOCATION AND USE

1. There are seven Close Quarter Battle Lanes (CQBL) located on the Drummond Road. A map showing the location and danger template of each lane is attached at Trace 1.
2. The CQBL may be used during daylight hours only.

DESCRIPTION

3. Each lane is numbered and marked at the entrance with a large fluorescent post. All lanes may be used concurrently.
4. Lanes Numbered 1 and 3 have a permanent target system installed. Each system consists of eight manual pull targets. Lanes 4 to 7 have seven cement encasements each. Before use of these lanes, the OIC Practice would complete a recce to ensure the systems are in good repair.

WEAPONS AND AMMUNITION

5. The following weapons and munitions are authorized for use:
 - a. 9 mm SMG C1;
 - b. 9 mm Pistol;
 - c. 5.56 mm C7;
 - d. 5.56 mm C8;
 - e. 5.56 mm C9;
 - f. 7.62 mm C6;
 - g. civilian pistols up to .45 cal;
 - h. ground burst simulators and smoke grenades may be used to add realism.

Note: Lane #1 is restricted to 9 mm only.

SUPERVISION

6. An OIC Practice will be appointed to perform the duties outlined in Chapter 1.

MEDICAL

7. First Aid personnel, of Corporal or higher rank, trained to the level described in Annex B to CFAO 9-5 (Standard First Aid Course) with a first aid kit, two litters, four blankets and a designated vehicle, will be present during range practices.
8. The OIC Practice will appoint a qualified supervisor for each lane.

TARGETS

9. Targets will be set up and taken down by user units for each practice. Targets may be drawn from Range Control. No hard targets will be used.
10. When pop-up mechanisms are used, all wire will be removed on completion of the practice (except Lane 1 and 3).
11. Targets must be positioned so that the bearing from the fire position to the target does not exceed arcs designated in para. 12.

ARCS OF FIRE

12. The start point and arcs of fire are as follows: (Templates are available at Range Control). All bearings are GRID.

<u>LANE</u>	<u>SL(GR)</u>	<u>LEFT ARC</u>	<u>RIGHT ARC</u>
1	010-704	3470	4640
2	015-695	3620	4970
3	019-689	3500	4750
4	024-681	3650	4720
5	031-669	3590	4970
6	035-658	4170	4900
7	036-650	4470	5455

13. The limit of advance from Drummond Road is 300 m. The initial firing line is 10 m from the road. Lateral movement is restricted to 25 m right and left of the cleared path.

RESTRICTIONS

14. Only one firer is permitted on a lane at one time, however, personnel may work in pairs, bypassing each other after a target is engaged, provided the necessary weapon safety precautions are observed.
15. The area from which firing may take place at each target, must be clearly identified and known by all participants and supervisors.
16. Obstacles, booby traps, pyrotechnics or any other devices, placed such that it may cause a hazard or apprehension, are prohibited.
17. Target operators will not move forward of firers. They will expose targets on orders from the safety supervisor only.
18. Vehicles will not be parked so as to cause a hazard to traffic on the Drummond Road.
19. Lane #1 is limited to 9 mm ammunition only.

ACCESS CONTROL

20. Prior to using the CQBLs, the OIC Exercise will check the Drummond Road to the extent of their danger area for evidence of civilians having entered the area, i.e., parked vehicles, fresh tracks.

FLAGS AND SENTRIES

21. Flags and sentries will be used at the entrance of each lane in use.

COMMUNICATIONS

22. The OIC must maintain continuous communication on the Range Safety Net and to each lane in use. Procedures detailed in Chapter 1 will be adhered to.

FIRE FIGHTING

23. Fire fighting is a user responsibility and the OIC Practice must be prepared to fight fires in accordance with Chapter 1.

AURAL PROTECTION

24. All personnel must wear proper ear defenders when participating on this range.

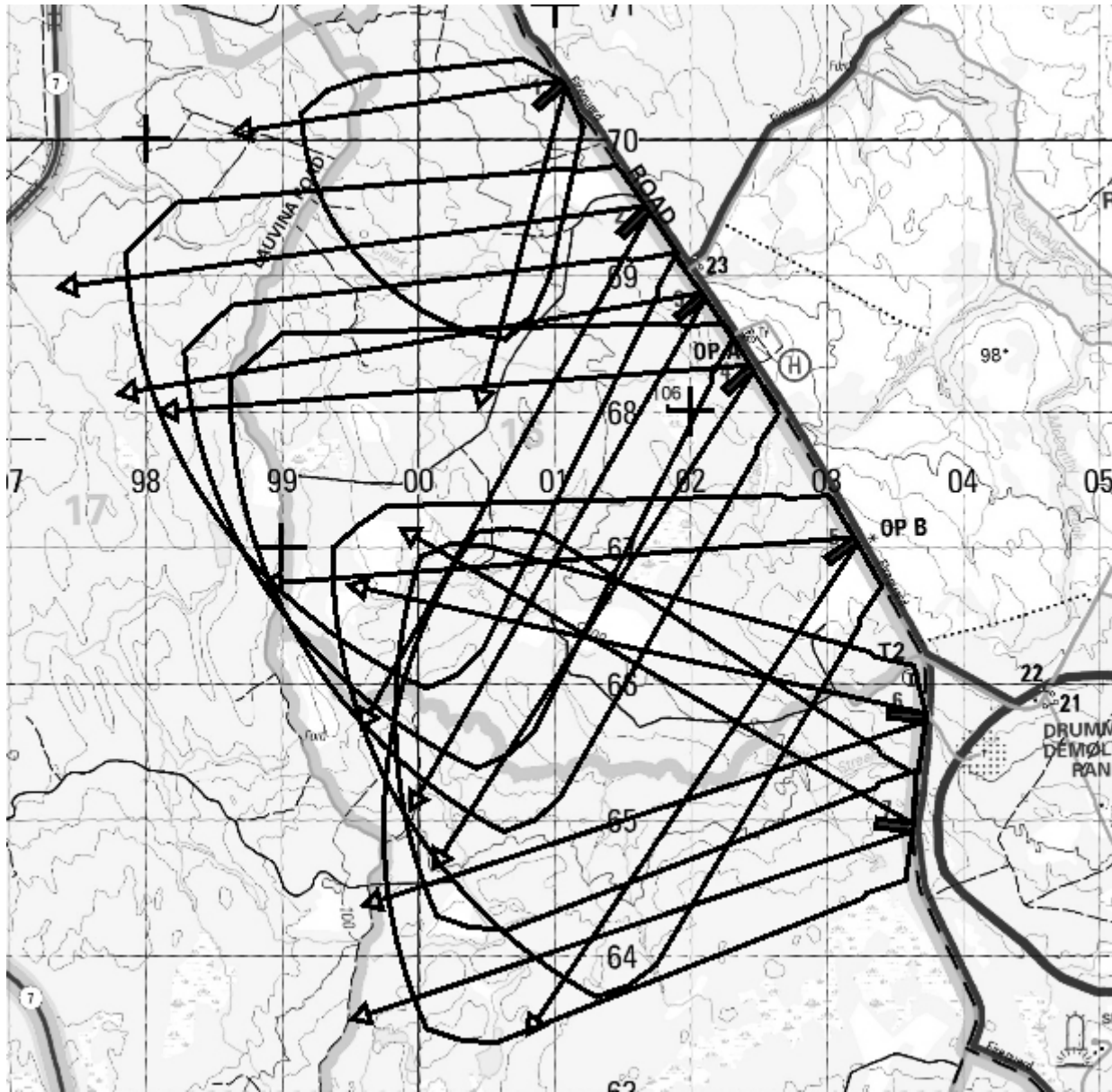
MAINTENANCE

25. Range Control is responsible for maintenance of the lanes. All requirements or suggestions for improvement are to be noted on the Range Clearance certificate.

RANGE CLEARANCE CERTIFICATE

26. On completion of the practice and when all casings and garbage has been cleaned up, a Range Clearance Certificate will be submitted immediately to Range Control before closing down on the Range Control Net.

TRACE DRUMMOND ROAD CQBLs
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EDITION 20 2018



Not to Scale

CQBLs – Drummond Road

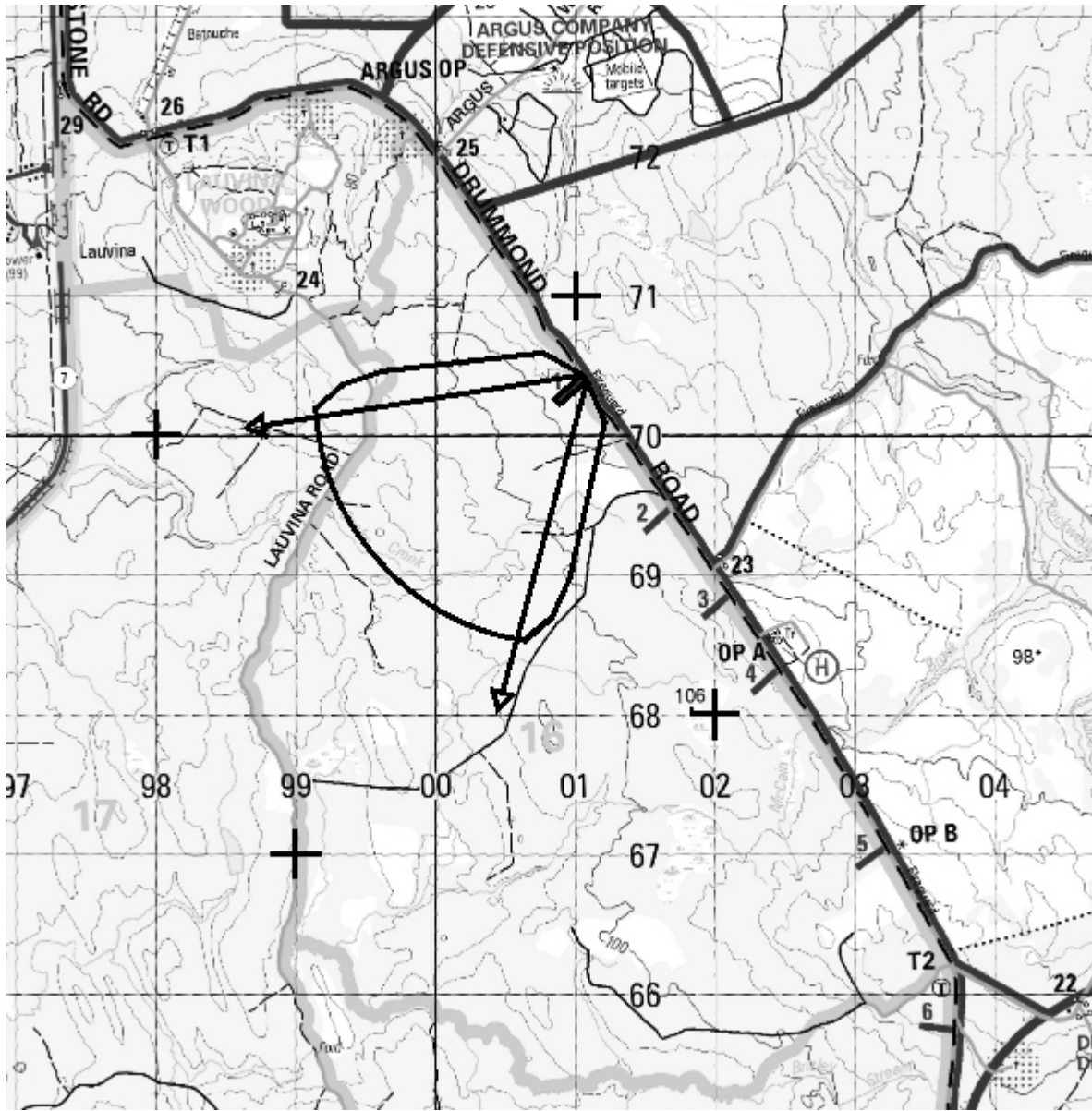
CQBL's

Lane 1 restricted to 9mm only

Lanes 2 to 7: 9mm, 5.56mm, 7.62mm, 12 Gauge Shotgun/Slug

Training Areas Live: 15, 16, 17

TRACE DRUMMOND ROAD CQBLs LANE 1
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Not to Scale

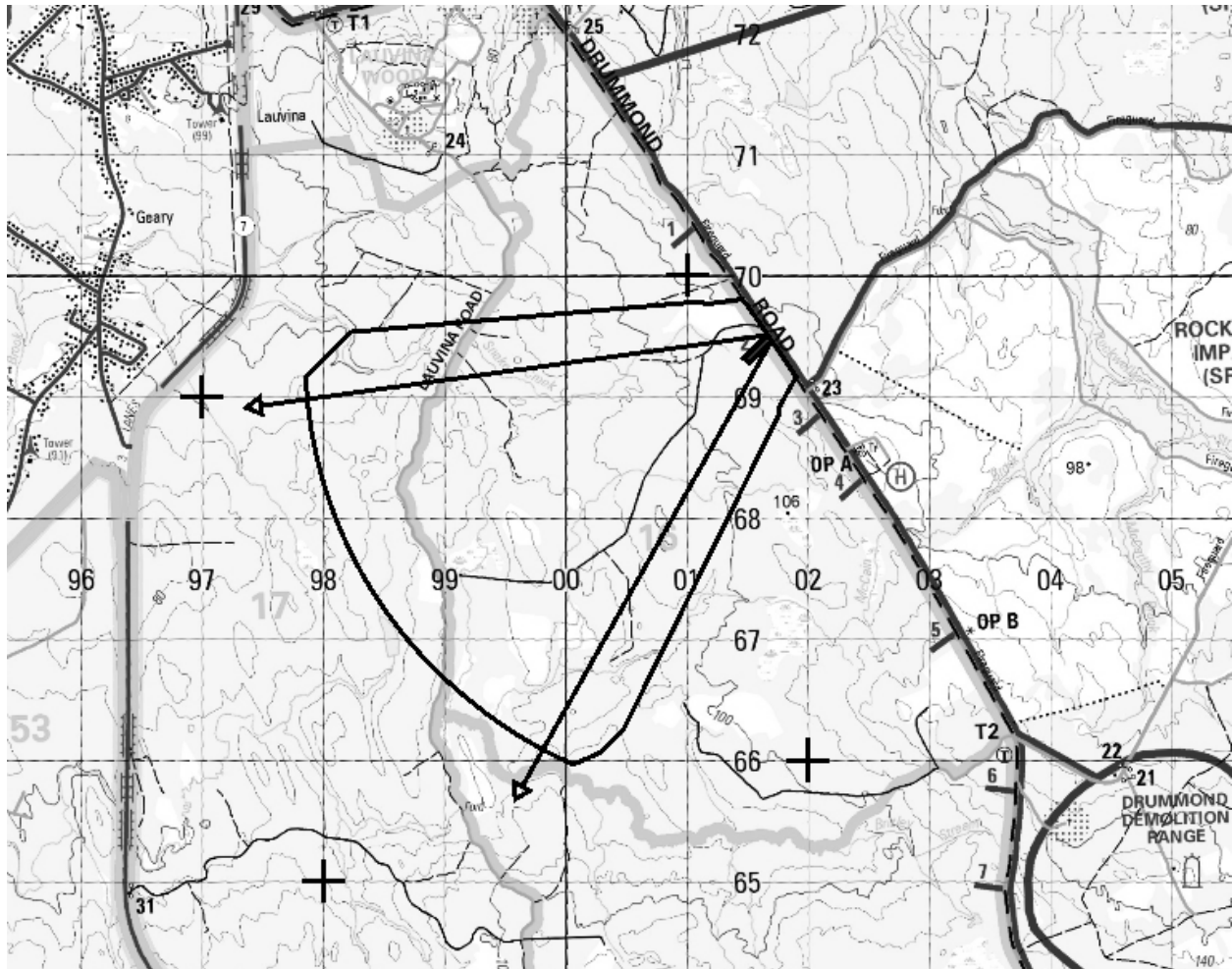
CQBL Lane 1

Lane 1
LBP: 01084 70385
RBP: 01049 70429
LFP: 00889 70221
RFP: 00854 70260
LOA: 3470 mils
ROA: 4640 mils
Restricted to 9mm only

Training Areas Live: 16, 17

I Drummond Rd CQBLs Lane 1

TRACE DRUMMOND ROAD CQBLs LANE 2
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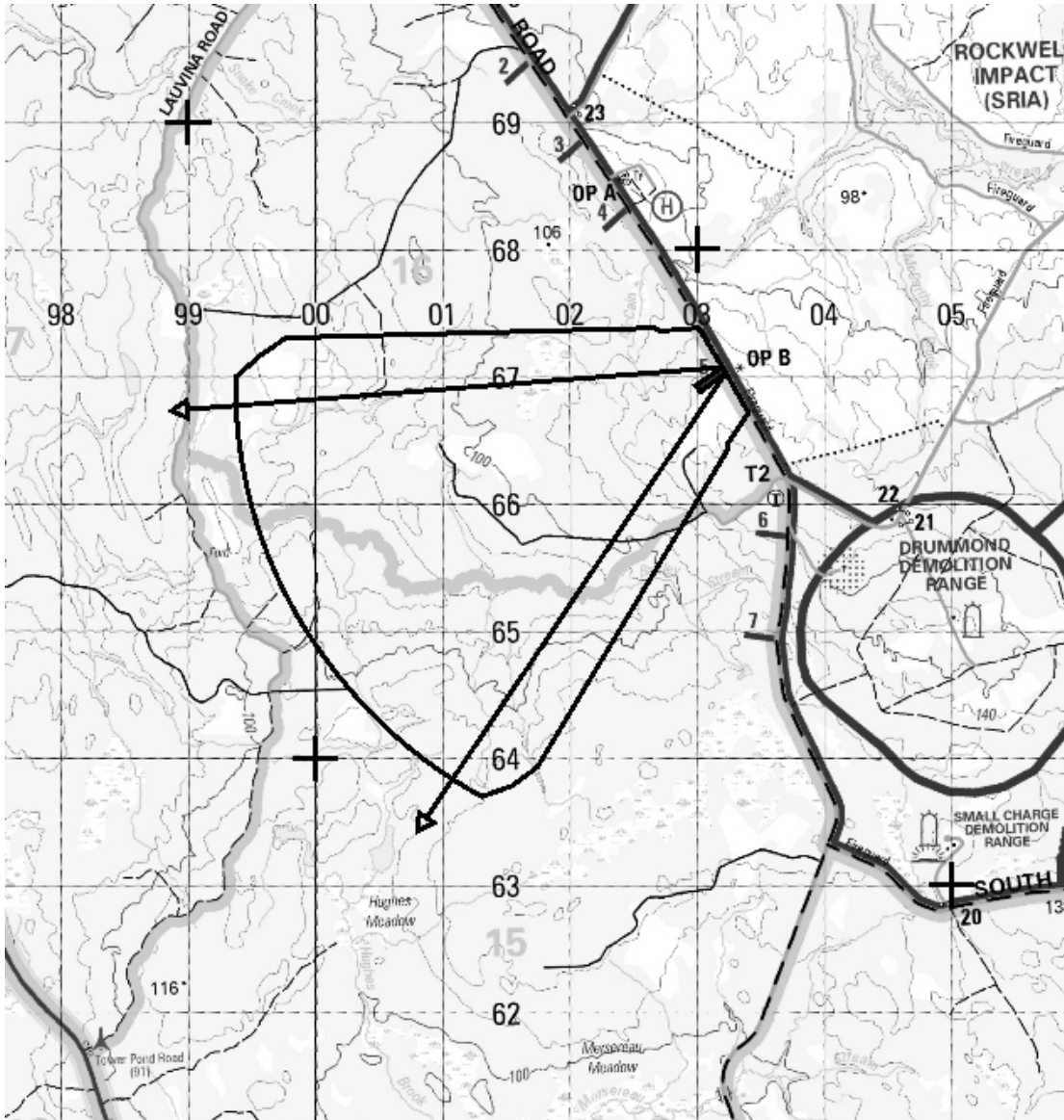


CQBL Lane 2

Lane 2
LBP: 01698 69463
RBP: 01660 69507
LFP: 01514 69278
RFP: 01469 69316
LOA: 3719 mils
ROA: 4659 mils
Ammo: 9mm, 5.56mm, 7.62mm, 12 Gauge Shotgun/Slug

Training Areas Live: 16, 17

TRACE DRUMMOND ROAD CQBLs LANE 5
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Not to Scale

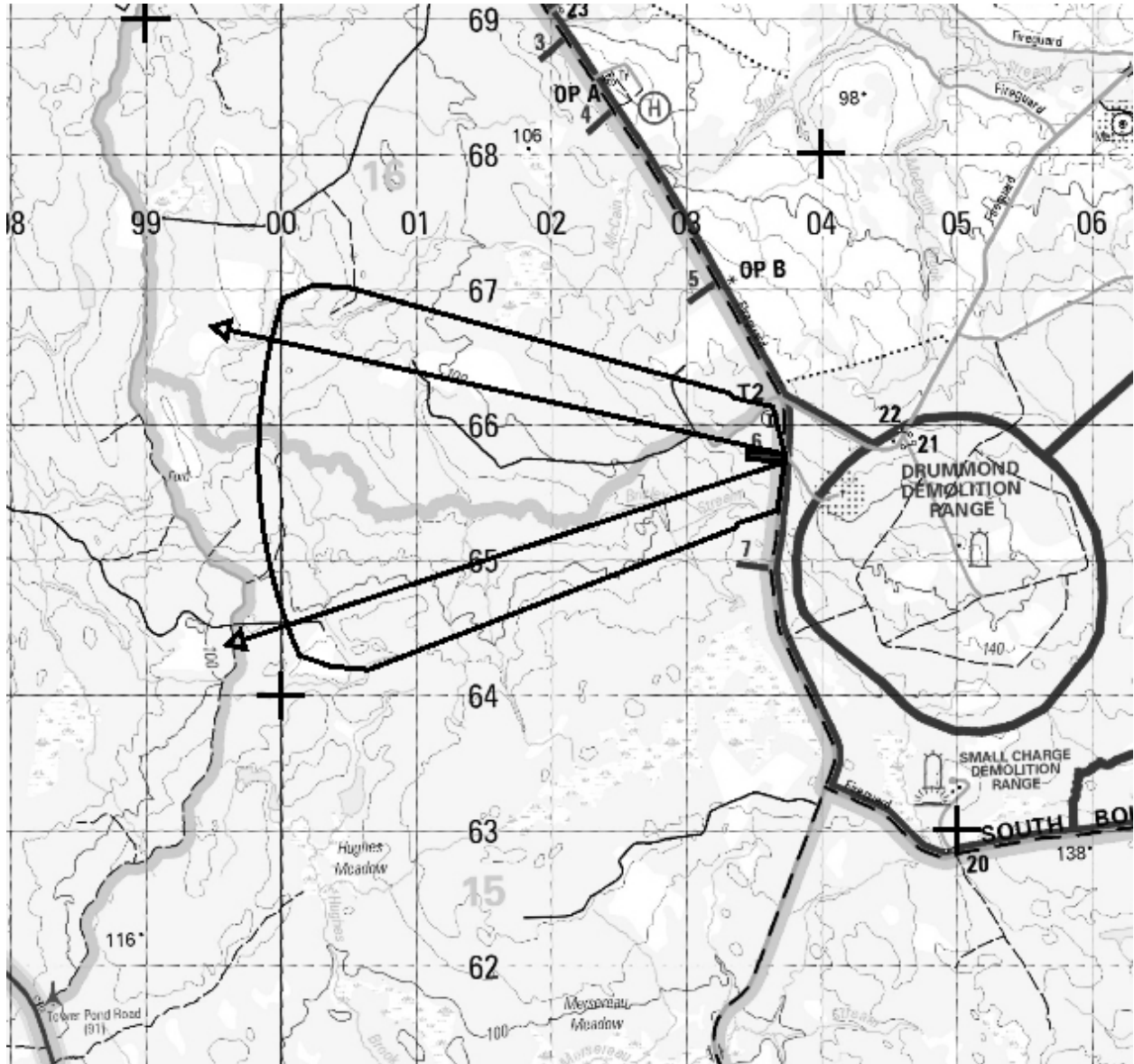
CQBL Lane 5

Lane 5
LBP: 03226 67028
RBP: 03195 67072
LFP: 03027 66880
RFP: 02989 66928
LOA: 3803 mils
ROA: 4720 mils
Ammo: 9mm, 5.56mm, 7.62mm, 12 Gauge Shotgun/Slug

Training Areas Live: 15, 16

I Drummond Rd CQBLs Lane 5

TRACE DRUMMOND ROAD CQBLs LANE 6
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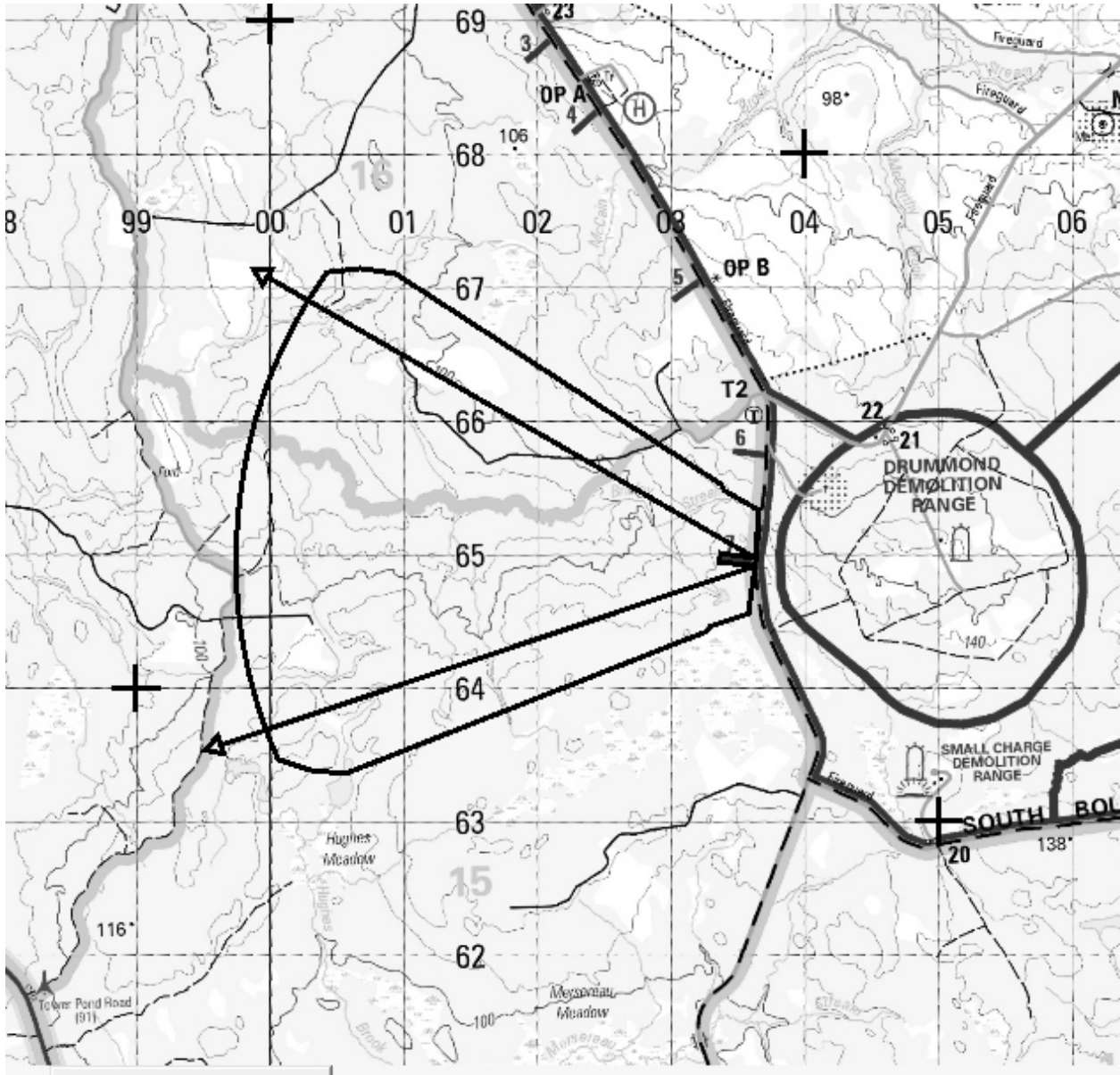
Not to Scale

CQBL Lane 6

Lane 6
LBP: 03725 65722
RBP: 03727 65781
LFP: 03449 65745
RFP: 03454 65805
LOA: 4477 mils
ROA: 5023 mils
Ammo: 9mm, 5.56mm, 7.62mm, and 12 Gauge Shotgun/Slug
Training Areas Live: 15, 16

I Drummond Rd CQBLs Lane 6

TRACE DRUMMOND ROAD CQBLs LANE 7
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Not to Scale

CQBL Lane 7

Lane 7
LBP: 03629 64913
RBP: 03633 64969
LFP: 03363 64939
RFP: 03369 65008
LOA: 4470 mils
ROA: 5333 mils
Ammo: 9mm, 5.56mm, 7.62mm and 12 Gauge Shotgun/Slug

Training Areas Live: 15, 16

I Drummond Rd CQBLs Lane 7

MINE WARFARE AND DEMOLITION RANGES

GENERAL

1. Mine Warfare and Demolition training may be conducted with Range Control authority in any part of the training area with the following exceptions:
 - a. underwater demolition; the Shirley Road Pit is the only area which can be used for underwater demolitions (300m template only), and when live, sentries are to be employed on Shirley Road IAW the template;
 - b. danger area shall not extend outside the training area boundary allocated in DRSOs or outside CYR 724;
 - c. chemical and white phosphorous munitions will only be authorized for use within the boundaries of authorized impact areas and on the Fixed Demolition Range; and
 - d. steel cutting will take place in the designated steel cutting area of the Demolition Range, and may be done elsewhere in the training area provided a trace is submitted to Rge Ctl who will consult with B Env.

DESCRIPTION / AUTHORIZED AMMUNITION

2. A detailed description of the Fixed Ranges is found in the following appendices:
 - a. Appendix 1: Dry Mine Warfare Training
 - b. Appendix 2: Drummond Demolition Range
 - c. Appendix 3: Small Charge Demolition Range
 - d. Appendix 4: South Boundary Demolition Range

GENERAL SAFETY REGULATIONS

3. All related direction included in CFP 381(1) apply.
4. An OIC Exercise will be appointed for every exercise or demonstration in which live mines, explosives or accessories are used. He will be responsible for the exercise and for the strict observance of all safety precautions. He may delegate the task of overseeing all safety precautions to a qualified RSO who must be present at every exercise or demonstration where live explosives or accessories are used. Before going live, the OIC will confirm with Range Control or his Unit Operations Center that the MET center does not predict an electrical, dust, sand or snow storm of a severity great enough to produce atmosphere static electrical charges within 16 km and/or 30 minutes of the planned training.
5. All demolitions training will be supervised by an instructor who has qualified on the "Demolition Instructor All Arms" course, qualifying him to TSQ HE, or who has one of the following trade speciality qualifications: HA, HB, HE, HF, Fd Engr 041 TQ5B or higher. Personnel holding these specialities are authorized to instruct on demolitions up to the level covered by the scope of the speciality. (As detailed in the applicable Chapter of CFP 123 or trade specification).
6. Duties of safety supervisors are covered in Chapter 1 and in B-GL-381-001/TS-000, Chapter 7.
7. Detonators will not be removed from protective boxes/cartons/wrappings until required for use. Demolition

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charges will not be primed (stage 2 - ARMED) until ordered by the officer/NCO in charge.

8. Demolition charges will be primed at the location the detonation is to take place. Primed charges will not be carried or moved about. If required to be moved, the detonator will be removed and the charge rendered SAFE (Stage 1).
9. The priming of the charge will be performed at a distance of not less than 25 metres from other explosives or ammunition excluding, in the case of blinds, the item to be destroyed.
10. C4 explosives are not to be initiated by placing the detonator in direct contact with the explosive. The only exception to this method at present is during the destruction of blinds where CFTO C-74-050/MS-00 authorizes the placing of the detonator in direct contact with C4.
11. During demolitions training, the OIC must have in his possession a copy of the Range Instructions, plus the appropriate technical publication (s).
12. Prior to cutting steel on the Demolition Range, the OIC Exercise will ensure that the 1000 m danger area is clear of all personnel. When using explosives in the training area, the OIC Exercise is responsible to ensure that the danger area is clear of all personnel. The appropriate danger radius will be strictly adhered to in all cases. The use of charges for Battle Simulation, Battle Inoculation or Demonstrations is covered in B-GL-381-001/TS-000 Chapter 8.
13. All incidents involving ammunition, weapons or personnel will be report to Range Control.
14. **Lightning** - Lightning is an atmospheric electrical discharge (spark) accompanied by thunder. Silent lightning also occurs where airborne matter muffles the thunder, such as heavy snow in winter storms (thunder snow), dust and sand storms. In some instances, heavy falling snow has silenced thunder from cloud to ground lightning strikes as close as 1.6 to 3.2 km from the observer and severe dust storms are even more effective in many cases. Lightning may also be silent because it occurs too far away for the thunder to be heard as the sound waves dissipate before they reach the observer. A direct lightning strike on an electrical firing system will usually fire it, and a lightning strike on the ground sets up a very high static charge, which can have sufficient energy to fire an electric detonator in the ground up to 11km away.
 - a. Lightning strikes or near misses may initiate both electrically and non-electrically fired demolition circuits. Therefore, all blasting activities shall be suspended during electrical storms or when the possibility of lightning is predicted by the MET center within 16 km (when thunder is audible) or 30 min.
 - (1) Where the necessary conditions for the formation of lightning are assessed by the MET center, all blasting activities must cease, or
 - (2) As soon as lightning is seen or thunder is heard, all blasting activities will cease.
 - b. All personnel must be evacuated to a suitable location away from ammunition and explosives until 30 min after the last thunder or lightning or until the MET center confirms that the threat has left the area. All other work not involving ammunition and explosives may be continued during the storm provided suitable distance is maintained from ammunition and explosives.
 - c. Vehicles loaded with ammunition should be moved under cover where possible. Loads of weather sensitive stores such as small arms ammunition and pyrotechnics in cardboard packaging, which cannot be moved under cover, should be covered with tarpaulins.

ROUTE DENIAL

15. Units wishing to conduct route denial training may, with Range Control authority, use any black track within the training area. Roads on which demolition takes place must be returned to original state. Roads designated as MSRs will not be cratered.

Bridge Demolitions.

16. The following rules shall apply to all bridge demolitions:

- a. charges that are placed underwater must be positioned such that the resulting water plume will not damage the bridge structure;
- b. the danger to personnel in the water must be considered (patrols or divers). Safety distances are contained in CFP 381(1) Chapter 7;
- c. live charges and detonators must not touch the bridge components. Flour/soil charges will be used to create any special effects necessary; and
- d. the maximum charge to be used around a bridge is 0.5 kg.

CRATERING

17. All cratering activities require review from Environmental staff. Proposed cratering locations have to be submitted to Range Control before they are submitted to Environmental staff. Before and after photos must be supplied to Range Control indicating the repaired condition of the road after the exercise is completed. The road must be repaired with material that is equivalent or better in its integrity.

DUDS AND BLINDS

18. The user will destroy all blinds before leaving the area.

AIR SAFETY

19. When firing has already taken place by means of a safety fuse, and it is likely that an aircraft would be in the danger area, when the detonation occurs, the RSO will immediately contact Range Control.

20. If an aircraft approaches the danger area, firing shall be stopped and Range control informed immediately.

ACCESS CONTROL

21. A barrier and/or sentry shall block all access routes to the danger area. Requirements will depend on the type of explosive. For Field Firing, a Danger Template will be provided to Range Control. All bookings will be published in DRSOs.

MEDICAL

22. For all demolition training a qualified medical assistant with fully equipped ambulance shall be in attendance IAW CFP 381-1.

FLAGS/LIGHTS/SENTRIES

23. The following flags/lights will be raised prior to firing:

- a. **Main Entrance Flag**. A red flag will be raised/lowered by user unit;
- b. **Firing Point and Butts** - Red or green flags/lights will be flown on the firing point.
- c. A similar flag/light and a sentry will be positioned at Barrier # 18 if Sheriff Lake is used.

TARGETS

24. Units are to conduct a recce of fixed demolition area before requesting special targets from Range Control. Targets are to be requested as per Ann O to Chapter 1.

COMMUNICATIONS

25. Communications will be kept at all times with Range Control on Safety Net. The unit will require permission to go live and will report the following:

- a. call sign
- b. request permission to go live
- c. IAW with DRSOs serial _____
- d. OIC (Rank, Initial, Name)

26. In the case of demolitions being used in an area other than the fixed demolition range, permission to fire will be requested from Range Control prior to each charge being detonated. When requesting authority, the Grid Reference and size of charge must be specified.

FIRE FIGHTING

27. Fire fighting is a user responsibility. Units will be prepared to action regulations contained in Chapter 1, Section 7.

RANGE CLEARANCE

28. The user is responsible to fill all craters, clean up all debris and return area to original condition at the end of practice.

29. The range will be left clean and buildings will be swept. Garbage will be removed from firing range by user unit. All brass will be picked up.

30. The OIC Practice will report any unsatisfactory condition on a Range Clearance Certificate and turn it in to Range Control before closing down on the Range Control Net.

31. Range cleanliness will be inspected by Range Control the day following the range practice or immediately upon completion. (A forty-five minute notice of inspection must be given to Range Control).

DRY MINE WARFARE TRAINING AREA

Trg Area Name	Dry Mine Warfare Trg Area, CS – 2F	
Area Number	Engineer Skills Training Area (ESTA)	
Responsible Sub-Unit	CFSME / FETS	
Trg Area Description	Trg area consisting of a trg and storage bldg and a trg minefield located at GR 095 796	
Authorized Trg	Minefield hand, and mechanical laying drills	Minefield
	Minefield hand breaching and safet lane drills	Minefield
	Classroom trg	Bldg SW-6
Restrictions on Use	Not for live mine trg	
	No mounted manoeuvre, dismounted only	
	Authorized Ammo	
	C2 Trg Mines	
	Chg spotting mine C3	
	Flare surface trip	
	Coupling base firing device F4	
	Firing device dml F1A1	
	Paraflare – hand fired	
	Fuse blasting instand Mk 3	
	Auth eqpt – HLVW and MLVW	
<u>Vehicle Movement</u>	Off-road movement restricted to minelayer towing eqpt and mine carrying vehicles only	
<u>Bldg Access</u>	Co-ordinate through CFSME Ops	
<u>Booking</u>	Rge Ctl, and co-ord through CFSME	

SMALL CHARGE DEMOLITION RANGE

Trg Area Name	Small Charge Demolition Range, CS – 2 I	
Area Number	Rockwell Wood South	
Responsible Sub-unit	Range Control	
Trg Area Description	<ol style="list-style-type: none"> 1. Live Engr Dml range for small charges and battlefield simulation training located at GR 050 634 2. The Dml Rge is enclosed within the fol Grids: 049 635,057 635,057 632, 049 632 3. The Fixed Dml Rge illustrated at Diagram 1 to this SOP consists of: <ol style="list-style-type: none"> a. One troop rain shelter (berm); b. One explosive storage shelter; c. One crimping shelter; d. Seven Target Bays; e. One heated ATCO trailer. 	
Authorized Trg	Small charges (up to 3 kg) 0.5 per bay for a total of 3.0kg	6 x Small target bays in the front row from the East and the large target bay to the North
	Battlefield simulation	All bays
Authorized Ammo	<ol style="list-style-type: none"> 1. C-4 2. det cord 3. fuse blasting time M700 4. electric and non-electric blasting caps, 5. fuse blasting instantaneous 6. igniter blast fuse elect C2. 7. igniter percussion M60 8. specified approval must be provided for test, experimental or non DND supplied ammunition, explosives or explosive accessories. 9. detaprime boosters 	
Range Clearance	The user is responsible to fill all craters, clean up all debris and return area to original condition at the end of practice.	

Restrictions on Use	<p>General</p> <ol style="list-style-type: none"> 1. The appropriate danger radius will be strictly adhered to in all cases. 2. No mounted or dismounted trg. 3. Individual areas shall only be used for their specified purpose.
	<p>Safety</p> <ol style="list-style-type: none"> 1. All instructors involved in initial demolition training must have a current demolition instructor qualification. 2. Safety Supervisors <ol style="list-style-type: none"> a. An OIC Range will be appointed for all training in which explosives or accessories are used. The OIC will be responsible for the training and for strict observance of all safety precautions. A qualified RSO who must be present at all training where live explosives or accessories are used b. Duties of the safety supervisors are covered in Chap 1 and in B-GL-381-001/TS-000, chapter 7.
	<ol style="list-style-type: none"> 3. Small Charge Range (SCR) Safety Considerations <ol style="list-style-type: none"> a. SCR is used primarily for basic demolition charge training. As such, a low level of contamination exists on this range. Users shall not fire any charge on this range, which will cause fragmentation or contaminate the area with scrap. b. Users shall conduct a thorough clean up before departing the range. c. Users shall repair the bays before departing the range.
	<ol style="list-style-type: none"> 4. Misfires <ol style="list-style-type: none"> a. The user will destroy all misfires before leaving the range.
	<ol style="list-style-type: none"> 5. Air Safety <ol style="list-style-type: none"> a. When firing has already taken place by means of a safety fuse, and it is likely that an aircraft would be in the danger area when the detonation occurs, the RSO will contact Range Control. b. If an aircraft approaches the danger area, firing shall be stopped and Range Control informed immediately.
	<ol style="list-style-type: none"> 6. Access Control <ol style="list-style-type: none"> a. A barrier and/or sentry shall block all access routes to the danger area.
	<ol style="list-style-type: none"> 7. Flags/Lights/Sentries <ol style="list-style-type: none"> a. IAW this 5 Canadian Division Support Base RSO's and range layout. b. Sentry hut, gate and flag located at access road from South Boundary Road. Sentry hut will be manned at all times during demolition training. c. Second flag located at troop rain shelter
Medical	Qualified medical staff with wheeled ambulance equipped with comms will be on range during all training.
Communications	All units conducting demolition training are to be working stations on the Range Control Safety Net.
Booking	Range Control.

DRUMMOND DEMOLITION RANGE

Trg Area Name	Drummond Demolition Range, CS – 2 H
Area Number	Rockwell Wood South
Responsible Sub-unit	Range Control
Trg Area Description	<ol style="list-style-type: none"> 1. Demolitions, EOD and munitions disposal range located at GR: 050 652. 2. Dml Rge is enclosed within the fol Grid Sq: 0464, 0465, 0564, 0565. 3. The fixed Dml Rge consists of: <ol style="list-style-type: none"> a. One observation bunker b. One general demolition/disposal area c. Five bays suitable for steel cutting and ordnance disposal d. One crater/land clearance area
Authorized Trg	<p>All demolition, dud destruction, munition disposal and render safe procedures as detailed in SOP's and manuals, approved for use by the Cdn Forces, are permitted on this range, general references are as fol:</p> <ol style="list-style-type: none"> a. B-GL-320-009/FP-001 Demolition All Arms b. B-GL-361-008/FP-003 Demolition Engineers and Assault Pioneers c. C-09-008-001/FP-000 Destruction of Surplus, Obsolete and Deteriorated Ammunition. d. Explosive Ordnance Disposal Bulletins
Authorized Ammunition	All military and commercial explosives supplied through the CFSS. Specific approval must be provided for test, experimental or non DND supplied ammunition, explosives or explosive accessories.
Range Clearance	The user is responsible to fill all craters, clean up all debris and return area to original condition at the end of practice.

<p>Restrictions on Use</p>	<p>General</p> <ol style="list-style-type: none"> 1. The appropriate danger radius will be strictly adhered to in all cases. The danger radius shall not exceed 1200 meters. Sentries will be located at the perimeter of the danger area determined for the particular demolition/disposal practice. 2. No mounted or dismounted trg. 3. Maximum explosive charge size for a single detonation is 200 kg. 4. Individual areas shall only be used for their specified purpose.
	<p>Safety</p> <p>All training will be conducted IAW the safety requirements of B-GL-381-001/TS-000 Chapters 1 and 7.</p> <p>Safety Supervisors</p> <ol style="list-style-type: none"> 1. All instructors involved in initial demolition trg must have a current demolition instructor qualification. 2. An OIC Range will be appointed for all training in which live mines, explosives or accessories are used. The OIC will be responsible for the training and for strict observance of all safety precautions. A qualified RSO must be present at all training where live explosives or accessories are used. 3. Duties of the safety supervisors are covered in chapter 1 and in B-GL-381-001/TS-000, Chapter 7.
	<p>Drummond Range Safety Regulations</p> <ol style="list-style-type: none"> 1. Drummond Range is used as a munitions disposal area. Accordingly a level of range contamination exists. Users are cautioned not to touch or tamper with duds, munition components or items that were not totally consumed during the disposal process. Units not having adequately qualified EOD pers shall mark, cordon and report these items to Range Control. 2. Users should limit access of wheeled vehicles into the destruction area due to the large volume of sharp fragmentation laying on the surface. 3. Drummond Range does not have a dedicated explosives storage site. Users must ensure that: <ol style="list-style-type: none"> a. explosives (stores awaiting disposal, etc) are placed into a pit which is sufficiently deep enough to ensure that all items are out of line of site from the disposal site; b. explosives remain in their original inner and outer packaging until immediately before use; or c. explosives are retained on a dedicated vehicle, which is removed from the danger area during each firing relay, and not permitted reentry into the danger area until the “all clear” has been signaled.

	<p>Duds & Blinds</p> <p>The user will destroy all blinds before leaving the range.</p> <hr/> <p>Air Safety</p> <ol style="list-style-type: none"> 1. When firing has already taken place by means of a safety fuse, and it is likely that an aircraft would be in the danger area when the detonation occurs, the RSO will immediately switch to frequency 45.8 and contact the aircraft. 2. If an aircraft approaches the danger area, firing shall be stopped and Range Control informed immediately. <hr/> <p>Access Control</p> <p>All access routes to the danger area shall be blocked by a barrier and/or sentry.</p>
	<p>Flags/Lights/Sentries</p> <ol style="list-style-type: none"> 1. IAW this 5 Canadian Division Support Base RSO's and range layout. 2. A sentry and flag will be located on the access road at the perimeter of the danger area at all times when the range is live. 3. Second flag located at blast shelter.
<p>Range Layout</p>	<ol style="list-style-type: none"> 1. Demolition/Disposal Area. This area is loc directly to the front of the bunker. The area is divided by an access road which leads to the bays. All demolition, EOD and munition disposal procedures are permitted within this area with the fol restrictions: <ol style="list-style-type: none"> a. The range explosive limits shall not be exceeded. The OIC/RSO must consider both the blast effects and the fragmentation distance when determining charge size and construction. b. No demolitions/disposals are permitted on the access road. c. No charge may be fired within 90 meters of the bunker. d. Cratering is not permitted in the demolition/disposal area. 2. Firing Bay Area. This area has 5 large bays. The bays may be used when greater control of the trg activity is desired (initial demolition trg). 3. Crater/Land Clearance Area. This area is located approximately 100 meters to the east of the bunker. This area shall not be used for steel cutting, concrete breaching, ordnance destruction or munitions disposal.
	<p>Ordnance Destruction. Ordnance types permitted for destruction:</p> <ol style="list-style-type: none"> 1. All conventional ordnance which has a positive ground burst safety radius of the less than 1000 metres; 2. Destruction of WP munitions is not permitted.

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Medical	Qualified medical staff with wheeled ambulance equipped with comms will be on range during all training.
Communications	All units conducting demolition training are to be working stations on the Range Control Safety Net. Communication between the bunker and sentry location must be established by means of the permanent land -line drop.
Booking	Range Control.

SOUTH BOUNDARY DEMOLITION RANGE

Trg Area Name	South Boundary Demolition Range, CS – 2 J
Area Number	Rockwell Wood South
Responsible Sub-unit	Range Control
Trg Area Description	<ol style="list-style-type: none"> 1. The Live Engr Dml Range is located at GR 119 645. 2. The Dml Rge is enclosed within the fol Grid Sqs: (N 1/2) 1163, (N 1/2) 1263, 1164, 1264, (S 1/2)1165, (S 1/2) 1265. 3. The Fixed Dml Rge consists of: <ol style="list-style-type: none"> a. One observation bunker b. One ammo storage shelter c. One POL storage hut d. One target storage area e. Two crimping shelters f. One concrete/wood cutting area g. One steel cutting area h. One crater/land clearance area i. One propellant disposal pad
Authorized training	<p>All demolition, dud destruction and render safe procedures as detailed in SOPs and publications, approved for use by the Cdn Forces are permitted on this range. General references are as follow:</p> <ol style="list-style-type: none"> a. B-GL-320-009/FP-001 Demolition All Arms. b. B-GL-361-008/FP-003 Demolitions Engineers and Assault Pioneers. c. C-09-008-002/FP-000 Destruction of Dud and Misfired Ammunition. d. Explosive Ordnance Disposal Bulletins.

<p>Authorized Ammunition</p>	<p>All military and commercial explosives supplied through the CFSS.</p> <p>Specific approval must be provided for test, experimental or non DND supplied ammunition, explosives or explosive accessories.</p>
<p>Restrictions on Use</p>	<p>General</p> <ol style="list-style-type: none"> 1. The appropriate danger radius will be strictly adhered to in all cases. The danger radius shall not exceed 1200 meters. Sentries will be located at the perimeter of the danger area determined for the particular demolition/disposal practice. 2. No mounted or dismounted trg. 3. Only det cord is permitted on the bridge. <hr/> <p>Safety</p> <ol style="list-style-type: none"> 1. All training will be conducted IAW the safety requirements of B-GL-381-001/TS-000 Chapters 1 and 7. <p>Safety Supervisors</p> <ol style="list-style-type: none"> 2. All instructors involved in initial demolition trg must have a current demolition instructor qualification. 3. An OIC Range will be appointed for all training in which live mines, explosives or accessories are used. The OIC will be responsible for the training and for strict observance of all safety precautions. A qualified RSO must be present for all training where live explosives or accessories are used. 4. Duties of the safety supervisors are covered in chapter 1 and in B- GL-381-001/TS-000, Chapter 7.
	<p>South Boundary Demolition Range (SBDR) Safety Considerations</p> <ol style="list-style-type: none"> 1. SBDR is used as a demolition and dud destruction training area. Accordingly, sharp target pieces, ammunition fragmentation and components may be found in the area. 2. Users shall clean up target pieces thrown out of the bays and remove all sharp fragmentation laying on the road surface. 3. Users shall repair the bays before departing the range. 4. Users shall fill craters (or arrange the filling of craters) before departing the range. <hr/> <p>Duds & Blinds</p> <ol style="list-style-type: none"> 1. The user will destroy all misfires before leaving the range. <hr/> <p>Air Safety</p> <ol style="list-style-type: none"> 1. When firing has already taken place by means of a safety fuse, and it is likely that an aircraft would be in the danger area when the detonation occurs, the RSO will immediately switch to frequency 45.8 and contact the aircraft. 2. If an aircraft approaches the danger area, firing shall be stopped and Range Control informed immediately.

	<p>Access Control</p> <ol style="list-style-type: none"> 1. All access routes to the danger area shall be blocked by a barrier and/or sentry.
	<p>Flags/Lights/Sentries</p> <ol style="list-style-type: none"> 1. IAW this 5 Canadian Division Support Base RSO's and range layout. 2. Sentry hut, gate and flag located at access road from South Boundary Road. Sentry hut will be manned at all times during demolition training. 3. Second flag located at blast shelter. 4. All roads other than access road are blocked by concrete barrier.
<p>Range Layout</p>	<ol style="list-style-type: none"> 1. Concrete/Wood Cutting Area. Total NEQ 75 Kg. 2. Bridge Structure. Only Det Cord is for firing circuits in this area. 3. Steel Cutting Area. <ol style="list-style-type: none"> a. Steel – The total NEQ per bay 20 Kg per bay; b. Manufactured Charges – 11 lb Hayrick – 15 and 40 lb Beehives; c. Bangalore Torpedo – 1 section per bay; d. Destructor – 18 kg Trigran per bay.

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	<p>4. Ordnance types permitted for destruction:</p> <ul style="list-style-type: none"> a. All conventional ordnance, which has a positive ground, burst safety radius of less than 1000 meters. b. Destruction of WP munitions is not permitted. <p>5. Cratering Area. Total NEQ 250 Kg :</p> <ul style="list-style-type: none"> a. Crater 27 Kg of Trigran per crater b. Total 81 Kg of Trigran per line of cut. c. Maximum Total Explosives 243 Kg of Trigran per crater group. d. 40/15 lb beehive e. AT Mines, on outer perimeter of area only. f. Bangalore torpedo 10 sections permitted on outer perimeter of area only. <p>6. Propellant burning is permitted on the propellant disposal pad or surrounding ground surface area.</p> <p>7. Burning of HE permitted maximum NEQ 22.5 Kg/burn – except Tetryl which is limited to 4.5 Kg/burn</p>
Medical	Qualified medical staff with wheeled ambulance equipped with comms will be on range during all training.
Communications	<ul style="list-style-type: none"> 1. Telephone drop located at sentry hut – 4584 (South Boundary Road) and bunker telephone 4581. 2. All units conducting demolition training are to be working stations on the Range Control Safety Net.
Booking	Range Control.

CHEMICAL BIOLOGICAL RADIOLOGICAL AND NUCLEAR DEFENCE (CBRN) TRAINING

LOCATION OF TRAINING

1. Areas for CBRN training shall be allocated by Range Control in keeping with the nature of training.
2. The area for use of chemical training agents is the respiration fitting and testing chamber located in Bldg N-6 at GR 981 809.
3. The use of Nuclear (Radium), Biological or other Chemical Training Agents requires the authority of the CO Ops Svcs Br. This includes the use of the sodium chloride training injection and the use of nerve gas stimulants.
4. Use of chemical training agents will not take place at night without the authority of the CO Ops Svcs Br Operations.
5. Chemical agent CS vials or capsules only may be used in Bldg N-6.
6. 38 mm speed-heat and flite rite will only be fired at the CBRN site on the Demolition Range and Wellington Range.
7. CS gas grenades and vials may be used in all areas of 5 Canadian Division Support Base.
8. All other types of chemical irritants and dispensers except those listed above shall be approved by CO Ops Svcs Br Operations prior to being brought onto the Base.

SAFETY SUPERVISORS

9. The OIC Exercise/Practice will be appointed prior to the commencement of training. The OIC must be qualified and current in the use of chemical training agents.

MEDICAL

10. First Aid personnel, and a designated vehicle, will be present during range practices IAW CFP 381-1.

SAFETY RESTRICTIONS

11. An individual shall not be allowed to remain alone in the gas chamber N-6.
12. Chemical irritants shall not be used in a manner such that the gas may reach outside the training area boundaries, the area allocated, interfere with other units, or cross a road open to traffic. If use of chemical irritants may affect others or cross roads, sentries will be posted, and Range Control will be advised prior to their use. Chemical irritants shall not be used against personnel in confined spaces such as bunkers and buildings with limited exits.
13. Fire precautions will be observed as all chemical irritants create a fire hazard.
14. The .38 mm Riot Gun has no **safety catch**, therefore, during training it will not be carried while loaded.

COMMUNICATIONS

15. There is no requirement for radio communication on the Range Control Safety Net when training takes place at Building N-6. However, Range Control must be informed by either radio, or cell at local 2482 or in person at Building K-69 when training commences and ceases.

DUDS AND BLINDS

16. All duds and blinds will be destroyed prior to the user leaving the area. Users will advise Range Control immediately when a dud or misfire occurs. Range Control will then issue disposal instructions.

RANGE CLEARANCE CERTIFICATE

17. Once the facility used is clean and tidy after training has ceased, the OIC Practice will complete a Range Clearance Certificate and turn it in to Range Control before closing down on the Range Control Net.

18. All unsatisfactory conditions will be reported on the Range Clearance Certificate.

19. Users are responsible for snow removal around the door/entrance to the facility etc. Range Control can provide units with snow removal equipment.

AUSTERE VILLAGE

Trg Area Name	Austere Village
Area Number	Engineer Skills Training Area (ESTA)
Trg Area Description	<p>Austere Village</p> <ol style="list-style-type: none"> 1. This austere village is located within the ESTA and contains 12 bldgs designed for trg of Construction and Field Engrs in bldg repair, IED, and fortification training. 2. The following buildings are OUT OF BOUNDS unless, the type of training being conducted is such that the building is designated for: <ol style="list-style-type: none"> a. AV 1 – Admin and Storage; b. AV 5 – Fortification and Display House; and c. AV2, 3, 10, 11 & 12 – Tradesmen and IED/IEDD, Search Ops Trg, Engr Only. 3. Pyrotechnics are authorized in all buildings that are not designated as Out of Bounds. (See Restrictions On Use). 4. The following bldgs are suitable for URBAN Operations trg IAW the restrictions listed in this annex: <ol style="list-style-type: none"> a. AV4/6/7/8/9
Bivouac	<p>The purpose of the Bivouac Area is to provide a designated area for the training and deployment of a tented camp while courses are training in the Austere Village and Airfield Training Area. No Bivouacs are authorized anywhere inside the AV compound or Bldgs. Parking is to be confined to the gravel area to the South East of the AV or on the gravel route. Parking is NOT authorized within the bivouac area. Coordination for the use of this facility is thru Range Control.</p>
Authorized Trg	HAZMAT Clean-up Trg.
	Fortification display and trg
	IED/IEDD, Search Ops
	Dismounted Urban Operations up to Coy size. To include Battle Simulation in designated areas
	Emergency services and infrastructure repair and IED/IEDD trg

Restrictions on Use	General <ol style="list-style-type: none">1. No unauthorised trg in AV-1 and AV-5 as these are display and storage bldgs.2. No non-Engr related trg in AV-2, AV-3, AV-10, AV-11 and AV-12 as these contain live services and utilities.3. No modifications or damages to bldgs and contents. Bldgs are to be left as they were found.4. All fortification materials brought into buildings must be removed at the end of the training.5. Care must be taken not to overload upper floors with excessive fortification materials.6. If not required for training, all furniture and refrigerators inside the buildings will be removed at the start of training and replaced when completed to avoid damages.7. All empty casings are to be picked up after trg is completed.8. All IED's and accessories must be cleared and removed from the buildings upon completion of trg. No mounted attacks within the Austere Village without Range Control authorization
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Authorized Ammo	<ol style="list-style-type: none"> 1. Small arms blank (5.56,.50cal, .338, BLK and BLK link, 7.62 BLK link). 2. Pyrotechnics: <ol style="list-style-type: none"> a. Outside only - SMK, CS, sim proj ground burst C1. b. Thunder Flash. 3. Coupling base firing device F4, fuse blasting instant Mk 3 (FBI), and igniter blast fuse elect C2 (squib). 4. Firing device dml F1A1. 5. C4 and dml accessories for battle simulation, max chg not to exceed 1 blk. 6. No Smoke Pots authorized within the AV Compound. 7. Sim Munitions are authorized in AV-4/AV-6/AV-7/AV-8/AV-9. Danger Trace must be submitted to and authorized by Range Control. Detailed coordination must be conducted during periods of shared use. No Sim Munitions authorized outside of designated blds during shared use.
Authorized Equipment	Hand and power tools, ladders, grappling hooks
Vehicle Movement	Restricted to roads and parking areas, no cross-country movement
Booking	Range Control will conduct march in/out when required

AIRFIELD TRAINING AREA

Trg Area Name	AIRSTRIP 1, CS – 2G	
	Engineer Skills Training Area	
Trg Area Description	The purpose of the Airfield Training Area is to train 640 Series NCMs and 46 AF Engr officers on realistic airfield related facilities and equipment. The designated training area includes a 500 m long by 20 m wide runway c/w taxiway and ADR training pad, AS1-1 (cold storage bldg), AS1-3 (fuel compound), AS1-2 (airfield lighting bldg) and a pole orchard.	
Authorized Trg	Fuel storage/handling	Fuel Trg Compound
	Airfield lighting power distribution (high voltage)	Airfield Regulator Bldg
	Cold storage	Airfield Trg Bldg
	Classroom training	Airfield Trg and Airfield Regulator Bldgs
	Airfield Damage Reconnaissance	Runway
	Airfield Bed Down Ops	Runway
	Airfield Sustainment Ops	Runway
	Airfield Reconnaissance	Runway
	Airfield EOD Ops	Runway
	Airfield NBC Decontamination	Runway
	Rapid Runway repair	Runway
	Mobile Arrestor Gear	Runway
	Spill Response	Runway

Restrictions on Use	<p>General</p> <ol style="list-style-type: none"> 1. Dry trg only 2. Runway is not operational and will not be used to land aircraft. 3. JP 4 fuel will be used in the Fuel Trg Compound. Training will be conducted with full regard to safety regulations in this area. This area has a 100 m radius where no ammo or pyro will be used. 4. No trg other than trg conducted by CFSME/CEMS will take place in any of the bldgs or facilities. 5. Training in the Airfield Regulator Bldg, Fuel Trg Compound and pole orchard will only take place when a qualified instructor is present. 6. No bivouacs inside bldgs or facilities. A dedicated bivouac area is located at the west end of runway coordination thru Range Control. 7. Defensive positions/trenches will only be authorized on the north side of the runway and behind the access road on the south side of airfield. 8. No smokes, CS or pyrotechnics inside bldgs. 9. Use of cold storage in the Airfield Trg Bldg will be limited to CFSME use only. 10. Covers to cable duct system are not to be removed, except by Electrical Distribution personnel. 11. Use of pyrotechnics is prohibited within 100m of fuel compound. 12. Use of AS 1-1 and surrounding area must be coordinated thru CFSME Ops.
	<p>Authorized Ammo</p> <ol style="list-style-type: none"> 1. Small arms blanks (5.56 BLK and BLK link, 7.62 BLK link), pyrotechnics, smokes, CS, thunder flashes and arty simulators. <p>Authorized Equipment</p> <ol style="list-style-type: none"> 1. The heaviest load bearing equipment allowed to be used on the runway is 33 Tons. Line truck will be used during trg in the pole orchard. <p>Safety</p> <ol style="list-style-type: none"> 1. Approved safety practices will be followed at all times IAW 5 Canadian Division Support Base RSO's. Trg in the Airfield Regulator Bldg and Fuel Trg Compound will only take place when a qualified instructor is present. A safety vehicle must be available when training in the pole orchard and Airfield Regulator Bldg. In the event of an accident, phones have been located in the Fuel Trg Compound, Airfield Regulator and Airfield Trg Bldgs 2. There is a 100m radius restricted area around the fuel compound, where only specifically authorized trg may take place.
Booking	Range Control, will conduct march in/out.

WELLINGTON ROCKET LAUNCHER RANGE

LOCATION

1. The Wellington Anti-Tank Rocket Range is located South of the Shirley Road at GR 008 774.

DESCRIPTION

2. Wellington Range consists of a control point and four firing bays for all hand held anti-armour weapons.
3. The left of arc is 1570 mils and the right of arc is 2280 mils for all weapons.

WEAPONS

4. The following weapons are authorised to be fired on this range:
 - a. 66 mm NM72E5 Rocket Launcher;
 - b. 84 mm Carl Gustav - All types;
 - c. 60 mm Mortar - All types;
 - d. C 14; and
 - e. Pyrotechnics – All types.

SUPERVISION

5. The OIC Practice will appoint an OIC Firing Point who will control all firing from the control trench. They will also appoint an NCO to supervise each firing position.

MEDICAL

6. First Aid personnel, of Corporal or higher rank, trained to the level described in Annex B to CFAO 9-5 (Standard First Aid Course), with a first aid kit, two litters, four blankets and a designated vehicle, will be present during range practices.

RESTRICTIONS

7. **Mortar.** The mortar will be fired 150 m to the South of the firing points in the area of the trench system south of the misfire pit. All precautions applying to the firing of the mortar will be adhered to.
8. All firing will take place so that the weapon template is completely within the range danger template shown at trace WR5.

FLAGS/LIGHTS

9. A red flag/light will be flown at the entrance road at GR 006 777 (Barrier 5) at all times while firing is taking place.
10. A red or green flag/light will be flown at the control point while firing is taking place.

11. Flags/lights and keys for barriers and troop shelters will be drawn from Range Control, Bldg K-69.

TARGETS

12. Targets will be requested IAW Chapter 1, Section 6.

SENTRIES

13. A sentry will be positioned at Barrier #5 at the entrance to the range. He will have and maintain radio or telephone communications to control point.

COMMUNICATIONS

14. Users will be working outstations on the Range Control Safety Net.

SAFETY PRECAUTIONS

15. No ammunition or inflammable materials will be within 50 m of the rear of launcher. Ammunition may be stored in the bunker provided to the right of the firing bays or in the area of the shelter. Ammunition will be guarded at all times.
16. All personnel other than instructors, firers and loaders will remain outside the danger area during firing.
17. An officer or NCO who is qualified in the use of the weapon will supervise each launcher.
18. No launcher will be removed from and no one shall approach or leave the firing position without permission from the officer in charge.
19. All loading, unloading and inspection of ammunition will be carried out in correct firing positions.
20. The muzzle of the launcher **must** not be lowered immediately after firing so as to cause the rocket to impact too close to the firer.
21. Parka hoods or any other type of head dress affixed to military clothing will not be worn while firing the NM72E5 Rocket Launcher.
22. Steel helmets will be worn with ear plug type oral protectors when firing the following weapons:
- a. 66 mm NM72E5; and
 - b. 60 mm Mor.
23. No personnel shall go forward of firing point except with permission of Range Control.
24. All personnel on the firing point will be behind the appropriate cover, i.e., if standing, all personnel will be within the confines of the standing parapet.
25. Prior to firing from the trenches, covers will be removed and positioned to the side, outside of the weapon danger area and the BBDA.
26. When firing the 84mm and NM72E5, some unburned propellant, under different weather conditions, may fall to the ground around the firing bay. It cannot be seen with the naked eye. If ignited, it will flash up and burn instantaneously. Prior to firing, the OIC Exercise will take several samples of dirt and test for the presence of propellant. The test will be done by taking a shovel, removing the top layer of soil, taking it to a safe area 10 metres from the firing bay and igniting it with a match. If the OIC Exercise concludes that there is an unsafe amount of

unburned propellant present, he will immediately contact Range Control who will come and burn off the area. Firing will not commence until this test has been completed and the range is determined safe.

BLINDS AND MISFIRES

27. A misfire pit is located to the right of No. 2 firing bay. If a misfire occurs, Range Control will be informed and disposal instructions requested.
28. Blinds will be reported on the Range Clearance Certificate. Users are not to enter the target area to mark blinds.
29. When three (3) successive blinds within one lot or a total of five (5) duds or misfires occur, the practice will be stopped and Range Control informed.

FIRES

30. Fires within target area are to be reported to Range Control. No attempt to fight fires will be made without the authority of Range Control.

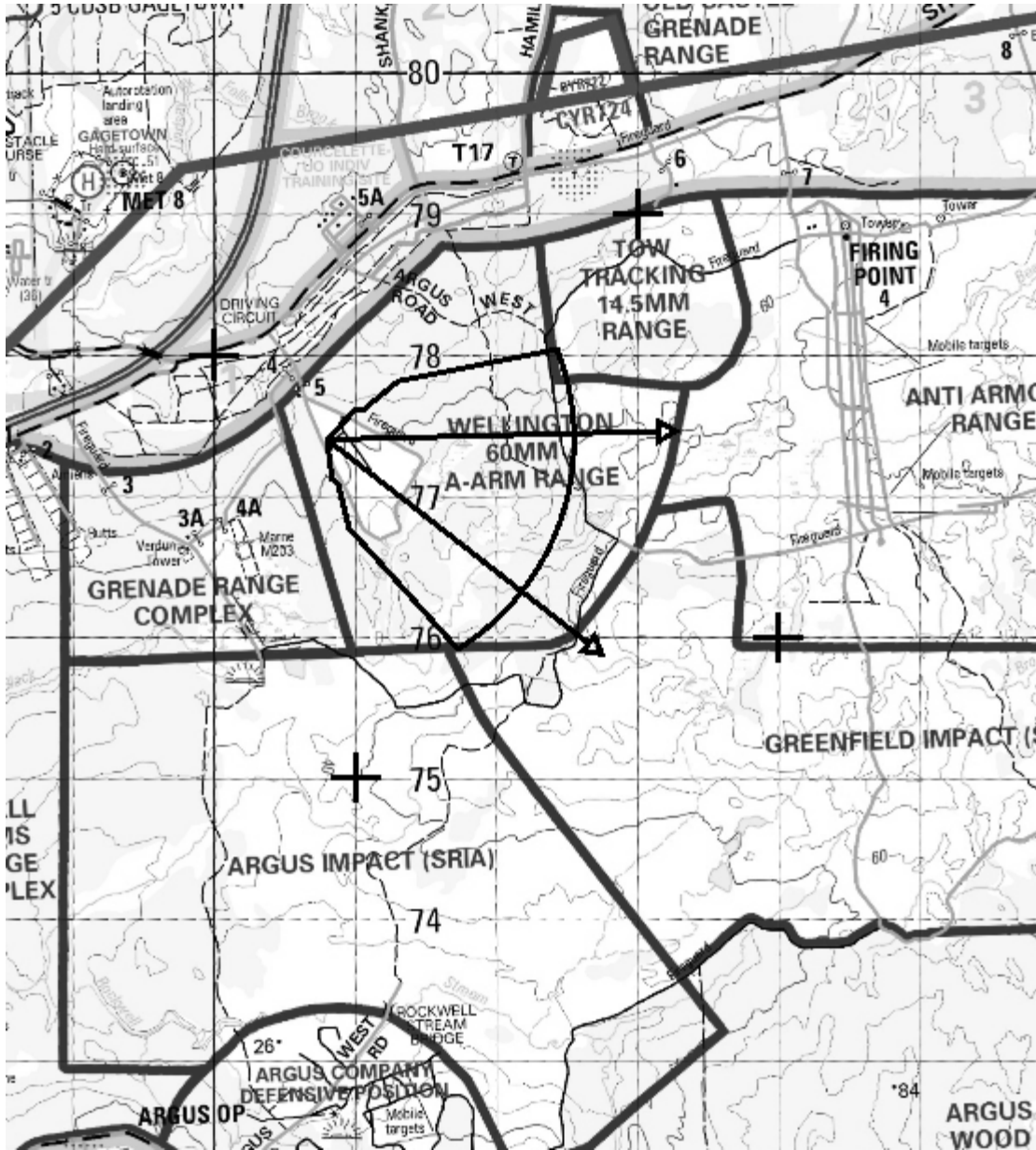
RANGE CLEANLINESS

31. On completion of range usage, the area will be left clean. The building will be swept. All paper and refuse will be placed in the proper containers or removed from the range. Trenches, if used, will have the covers replaced. Applicable items will be taken to the ASA while all garbage will be taken to the landfill site.
32. When leaving the range, all barriers will be locked.

RANGE CLEARANCE CERTIFICATE

33. The OIC Practice will report any unsatisfactory condition on a Range Clearance Certificate and turn it in to Range Control on completion of firing and prior to closing down on the Range Control Net.
34. The Range will be inspected for cleanliness by Range Control the day following the range practice or immediately on completion of firing in the presence of the user if so requested. Range Control must be given forty-five minutes notice for inspection.

TRACE WR 1
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Not to Scale

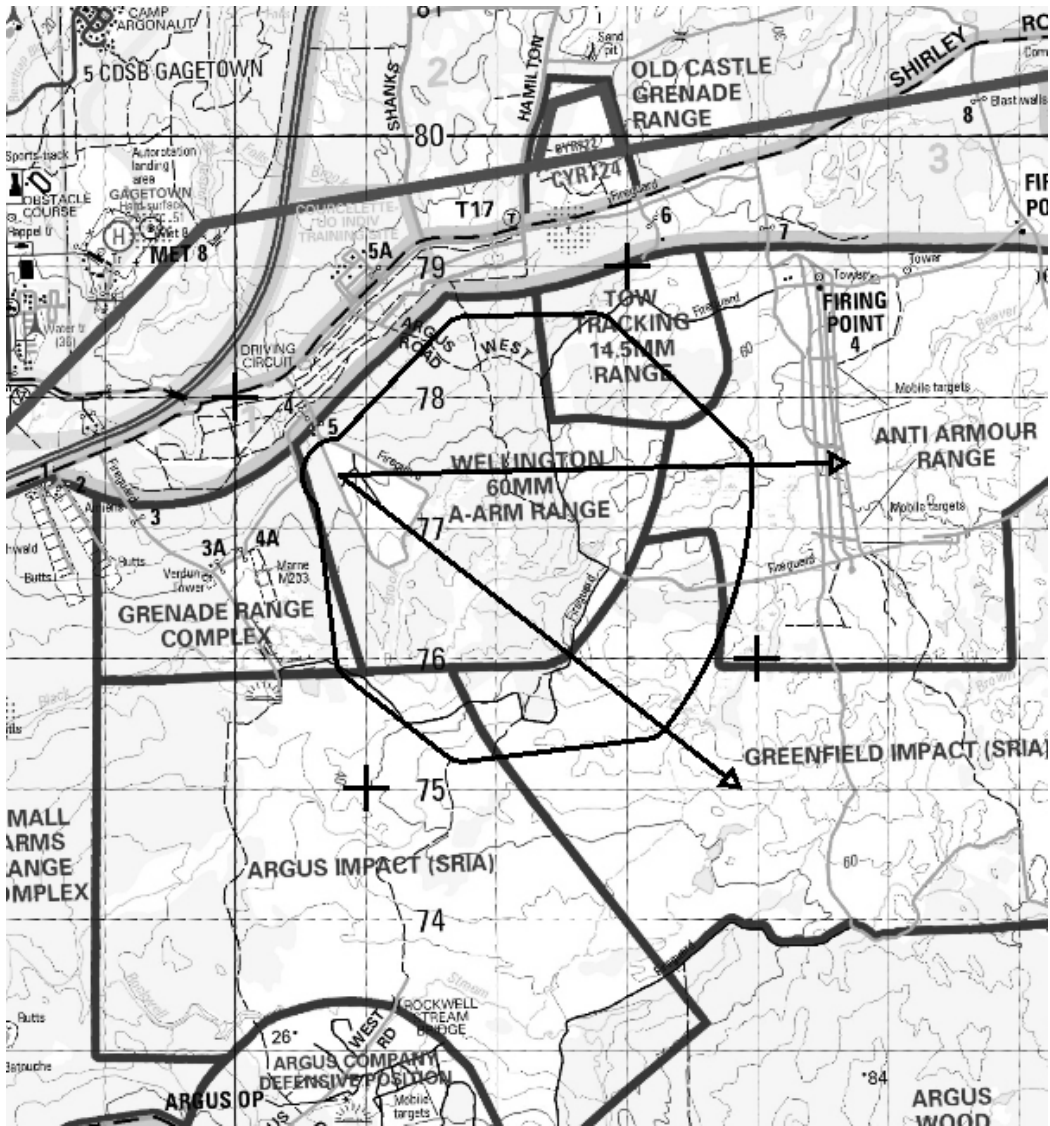
WR1

Trace WR 1
Wellington Range
Firing Point Gr: 00800 77400
LOA: 1575 mils
ROA: 2275 mils
Ammo: 66mm, 21mm Insert M72A5FF

Book Wellington Range Live

M TR WR 1

TRACE WR 2
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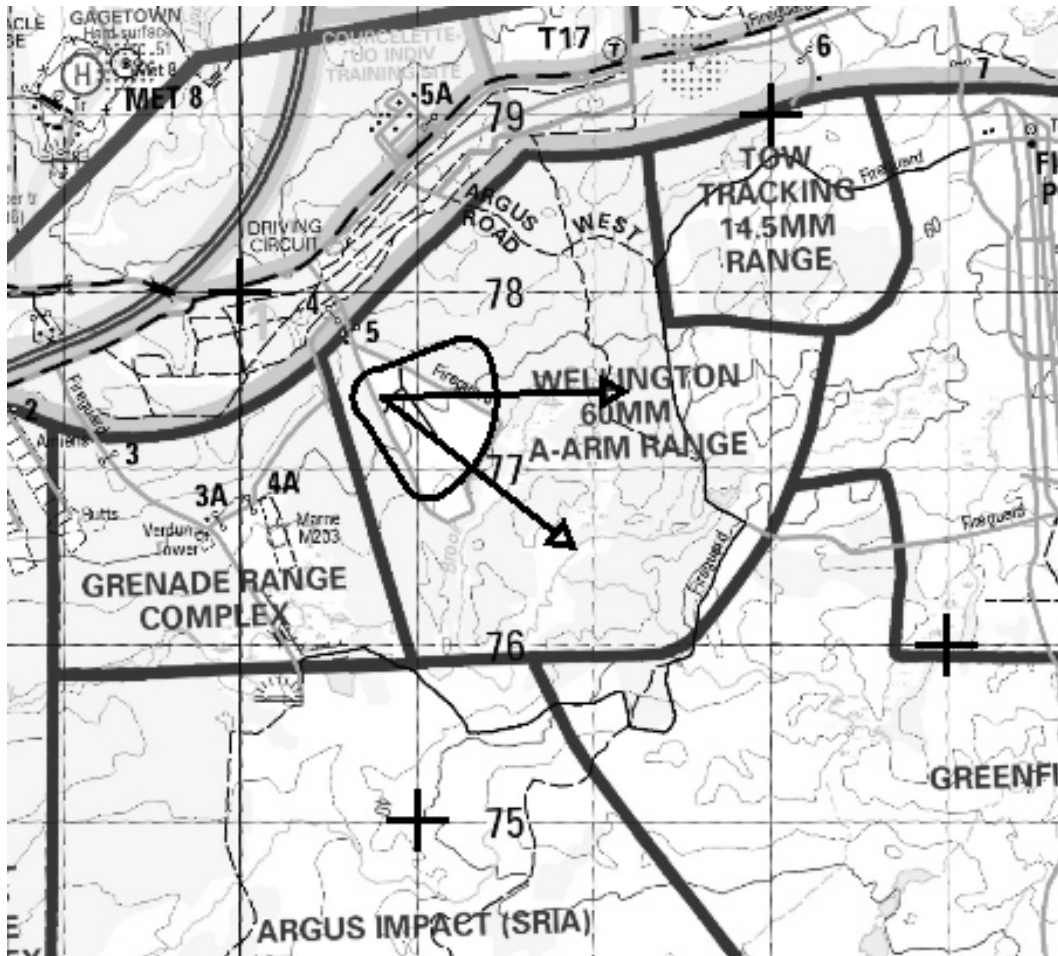
Not to Scale

WR2

Trace WR 2
 Wellington Range
 Firing Point Gr: 00800 77400
 LOA: 1575 mils
 ROA: 2275 mils
 Ammo: 84mm HEAT RAP FFV551, TP RAP FFV552 & 7.62mm FFV53B PRACTICE

Training Area: Wellington
 [5] Impact: Wellington
 [6] Ricochet Areas: Marne, 14.5(TTR), AAR, AI, GI

TRACE WR 3
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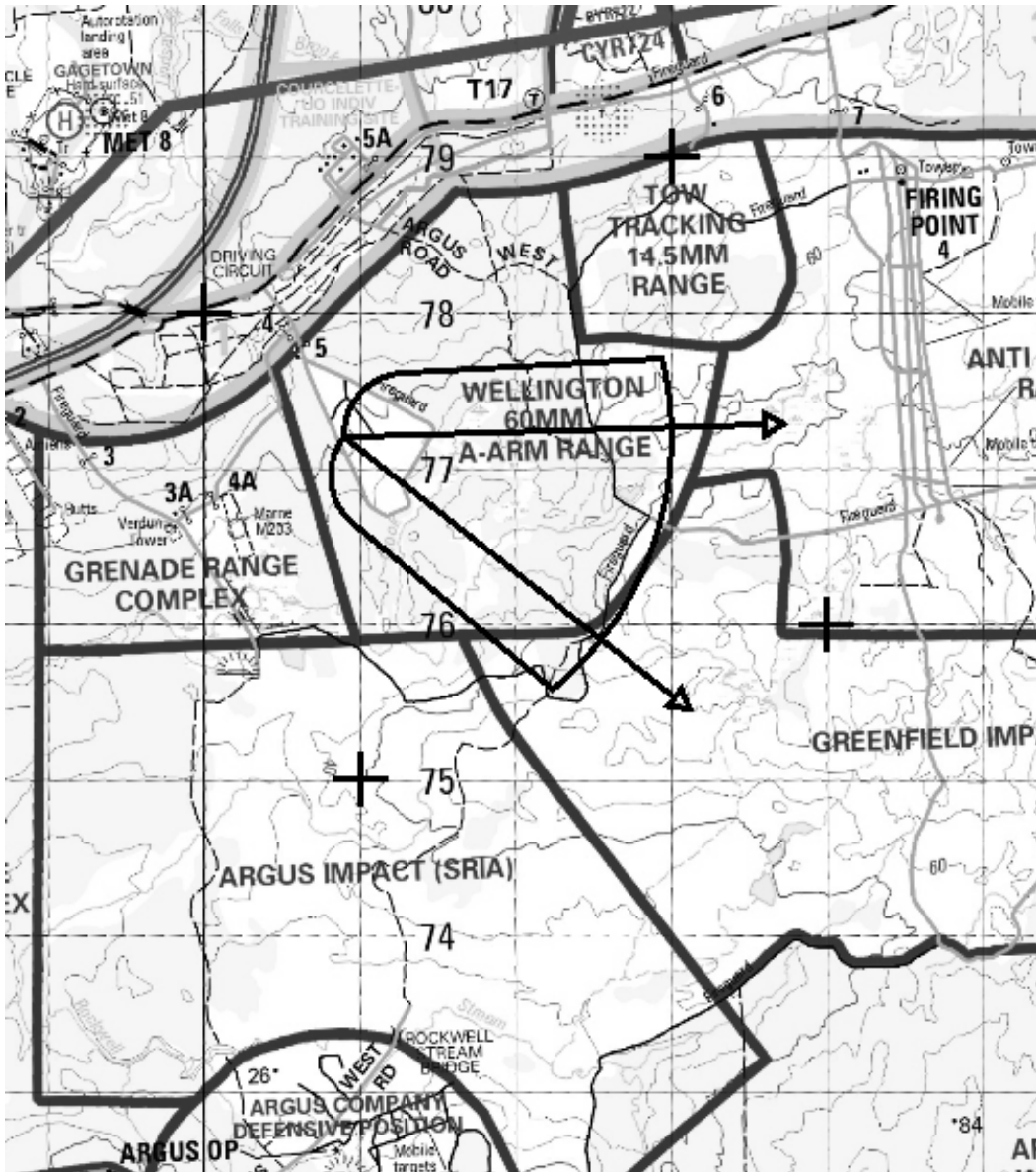
Not to Scale

WR3

Trace WR 3
Wellington Range
Firing Point Gr: 00800 77400
LOA: 1575 mils
ROA: 2275 mils
Ammo: 84mm C14 Off Route Mine

Book Wellington Range Live

TRACE WR 5
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Not to Scale

WR5

Trace WR5
Wellington range
Firing Point Gr 00900 77200
LOA: 1570 mils
ROA: 2280 mils
Ammo: 60mm HE, C-110, Max charge: Charge 2

Book Wellington Range Live
Ricochet Area: GI

M TR WR5

14.5 MM TOW TRACKING RANGE

LOCATION

1. The 14.5 mm Arty / Mortar trainer are located south of the Shirley Road in GS 0378. A troop shelter is located at the rear of the range.

DESCRIPTION

2. The 14.5 mm range is constructed on a 1:10 scale.

AUTHORIZED WEAPONS AND AMMUNITION

3. Only the following weapons/ammunition may be fired on this range:
- a. 14.5 mm Tripod Mounted - Impact and Time;
 - b. 14.5 mm 105 mm Inbore - Impact and Time;
 - c. 14.5 mm 155 mm Inbore - Impact and time;
 - d. 25 mm Calibre training round for the 60 mm and 81 mm Mortars; and
 - e. MAW 6.5 mm Sub calibre 84 mm

14.5/81 MM SUPERVISION

4. An Officer / Sr NCO qualified Adv Mors or Adv Tech will be appointed OIC Practice. They will be located either at the OP or the GP.
5. A qualified officer/Sr NCO instructor will be appointed as GPO who will ensure that safety is observed at all times.
6. A qualified NCO will be in charge of each gun.

MEDICAL

7. First Aid personnel, with a first aid kit, two litters, four blankets and a designated vehicle will be present during range practices.

FLAGS AND SENTRIES

8. A red flag will be flown on the flagpole at GR 036 794 when the range is in use. A sentry is not required. The flag is available from Range Control.

COMMUNICATIONS

9. All users of this range will maintain communication on the Range Control Net.

SAFETY PRECAUTIONS

10. Overhead fire is not permitted on the range.

11. The OIC Practice will ensure that that all personnel manning the trainer are wearing safety goggles.
12. The OIC Practice will ensure that complete maintenance procedures are carried out so those promoters do not occur. The OIC Practice will be responsible to ensure that rounds do not fall outside the confines of the range.
13. The Danger Template for the 25 mm Mortar Trainer excludes all but the weapon crew for 15 metres around the Mortar.

VEHICLE RESTRICTIONS

14. The 14.5 mm mini gun range is **OUT OF BOUNDS** to all vehicles. This includes wheeled and tracked vehicles as well as snowmobiles. Tow tracking vehicles are permitted on the road designed for that use.

MISFIRE DRILLS/BLINDS

15. Misfires will be treated in accordance with current manuals.
16. Blinds will be disposed of by Range Control.

RANGE CLEARANCE CERTIFICATE

17. Range Control is responsible to ensure that the ranges are maintained. Users will forward all requirements and problems to the Range Control.
18. Range Clearance certificates will be turned in to Range Control on completion of training and prior to closing down on the Range Control Net.

WATERMANSHIP TRAINING AREAS

LOCATION

1. Watermanship exercises using trained and experienced personnel may be conducted in any training area within 5 Canadian Division Support Base deemed suitable by the OIC Exercise. The authority of Range Control is required prior to the conduct of Watermanship Exercises. Exercises will be conducted in accordance with B-GL-381-001/TS-000.

2. Amphibious trg areas:

AREA	GR	ACTIVITY	APPENDIX
55	975 817	ALL NATURES OF FAST WATER TRG	APP 1
ESTA	095 806	ALL NATURES OF STILL WATER TRG	APP 2
	107 803		
	114 805		

AUTHORIZED EQUIPMENT

3. Only equipment currently on issue to the Canadian Forces will be used for Watermanship Training.
4. If other equipment is to be used, prior authority of the Ops Svcs Br G3 Trg must be obtained.

COMMUNICATIONS

5. During watermanship training, communications with Range Control will be maintained.
6. The OIC Exercise will advise when training is to commence and when it has ceased.

SAFETY SUPERVISION

7. A Site Commander (OIC Exercise) and a Safety Officer shall be appointed for all training. Under no circumstances may one person be named to both appointments:
 - a. the Site Commander is in command of the crossing site;
 - b. the Safety Officer is responsible for all aspects of safety. A Safety Officer shall be appointed for each crossing site, which is not in visual site of the primary site;
8. The duties of Safety Supervisors contained in CFP 381(1) and applicable training manuals shall be observed.
9. The Safety Officer shall have a copy of CFP 381(1) in his possession when conducting amphibious vehicle training. They must be thoroughly conversant with the contents of Chapter 1 annex D.

SAFETY PRECAUTIONS

10. During any activities, on or near water, foam life-jackets of MOT approved pattern, not the inflatable type, shall be worn at all times with the following exceptions:

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- a. during swimming of amphibious vehicles;
- b. while parachuting; and
- c. when tactical realism requires inflatable type jackets.

11. The exceptions in paragraph 10 will only be made on authority of CADTC . When this is done, only pers who have successfully passed the swim test will participate and inflatable jackets of approved military pattern will be worn.

12. Protective head dress of a type approved by CSA for white-water use or that has a CE 1385 certificate will be worn for all rivers graded Class III and above.

13. Qualified personnel shortly before each exercise shall carry out surface reconnaissance of routes on rivers.

14. Before training on or near water, all non-swimmers shall be identified and special precautions taken, i.e., safety lines, pairing off with good swimmers, etc.

AMPHIBIOUS VEHICLE TRAINING

15. Amphibious Vehicle Training shall be conducted in accordance with CFP 381(1).

16. Entry and exit point has been prepared at GR 107 803.

17. For swims over 60 metres a BBE or Sealander must be at swim site ready for emergencies.

18. Once the initial vehicle trim is established, no adjustment will be made to ballast without the authority of the Site Commander and Safety Officer.

OUT OF BOUNDS

19. Users will not cross the 5 Canadian Division Support Base Boundary in the area of GR 125 817 unless permission to use civilian land has been obtained.

20. When using the Fast Water Training Site, the following areas are **OUT OF BOUNDS**:

- a. adjacent civilian land, including Oromocto Island, unless permission is obtained to use civilian land;
- b. the Maugerville Dock at GR 979 825;
- c. the Burton Dock at GR 979 821;
- d. the Oromocto Marina GR 959 810;
- e. the cribs across the Saint John River GS 9862; and
- f. training will not be conducted further West than a point in the Oromocto Channel at GR 969 813.

RANGE CLEARANCE CERTIFICATE

21. On completion of training, a Range Clearance certificate will be completed by the OIC Exercise and

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submitted to Range Control prior to closing down on the Range Control Net.

22. Range cleanliness will be inspected by Range Control or in the presence of the user if requested by the user unit. A forty-five minute notice of inspection must be given to Range Control. All windows and doors must be closed and damages reported on the clearance certificate.

AMPHIBIOUS FAST WATER SITE

Trg Area Name	Amphibious Fast Water Trg Site, CS – 2A and 2B	
Area Number	Area 55	
Responsible Sub-unit	CFSME / FETS	
Trg Area Description	This area is located on the St John River, GR 975 816, and consists of three cement ramps for the launch of Medium Raft (MR) pontoons, for construction of the MR.	
Authorized Trg	MFB/MR and BBE trg	St John River
	Watermanship	St John River
Restrictions on Use	General	
	1. Amphibious and other trg will not take place concurrently on St John River.	
	Authorized Ammo	
	1. No pyrotechnic / para flare	
	2. No blank ammo	
	Safety	
	1. IAW B-GL-381-001/TS-000 and 5 Canadian Division Support Base RSO's.	
	2. Wearing of personal protective eqpt IAW MSDS.	
	3. Safety boots and gloves must be worn during bridging.	
	4. Life jackets will be worn by pers within 5 m of water.	
Environment	Spill kit will be located on site during training and will be positioned at proximity to water when using power boats.	
Booking	Range Control, Bldg K-69.	

AMPHIBIOUS STILL WATER SITE

Trg Area Name	Amphibious Still Water Training Site, 2C – 2D	
Area Number	Engr Skills Trg Area	
Responsible Sub-unit	CFSME / FETS	
Trg Area Description	This area is located on the South edge of Swan Creek Lake (GR 105 800) and consists of facilities for bridging, rafting, watermanship and water supply trg.	
Authorized Trg	Medium Girder Bridge	Dry Gap
	Acrow 700 Bridge	Dry Gap
	Bridging storage	SW-7
	Watermanship	Swan Creek Lake
	MFB/MR and BBE trg	Swan Creek Lake
	Water Supply and Water Bagger trg	SW-8 and Swan Creek Lake
	Classroom trg	SW-8
	ROWPU storage	SW-9
	BBE Maint and storage	SW-10
Restrictions on Use	<p>General</p> <ol style="list-style-type: none"> 1. No bivouac in area. 2. Amphibious and other trg will not take place concurrently on Swan Creek Lake. 	
	<p>Authorized Ammo</p> <ol style="list-style-type: none"> 1. Flare para hand-fired only. 	
	<p>Safety</p> <ol style="list-style-type: none"> 1. IAW B-GL-381-001/TS-000. 2. Wearing of personal protective eqpt IAW MSDS. 3. Emergency shower station located in SW-8 and SW-10. 4. Safety boots and gloves must be worn during bridging. 5. Life jackets will be worn by pers within 5 m of water. 	

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	<p>Environment</p> <ol style="list-style-type: none"> 1. Spill kit will be located in bldg SW-8 (RB Tp) and SW-10 (Maint). 2. Disposal of ROWPU concentrate into appropriate disposal reservoir system. Users to be briefed by qualified CFSME staff prior to use. 3. A spill kit will be positioned at proximity to water when using ROWPUs and powerboats.
Booking	Range Control; however control of facility buildings is under CFSME Ops.

HEAVY EQUIPMENT TRAINING AREA

Trg Area Name	Heavy Equipment and EOD Training Area, CS 1-E	
Area Number	Lauvina Wood	
Responsible Unit	CFSME / FETS / EOD	
Trg Area Description	<p>Heavy equipment training and operation are located at Lauvina Wood (GR 988 715)</p> <p>Lauvina Wood is enclosed within the fol Grid Square: 980 720, 994 720, 994 710, 980 710</p> <p>EOD training Gr 988 715</p>	
Authorized Trg	Crane Ops	Crane Trg Area
	Grader Ops	Grader Field
	Hvy eqpt classroom trg	LW-4
	Hvy eqpt maint	LW-3
	Hvy eqpt storage	LW-5 AND LW-6
	IEDD Op/IEDD Asst Crses	LW 4, LW 6, LW 35, LW 336
Restrictions on Use	<p>General</p> <ol style="list-style-type: none"> The enclosed area will be used for hvy eqpt and EOD training. Gun depl authorized at GR 998 719 	
	Authorized ammo : Neutrex Cartridge with det Cord detonators	
	<p>Authorized Eqpt</p> <p>ROV, robots , TEOD, graders, cranes, tractor trailers, dump trucks, administration and recovery vehicles.</p>	
	<p>Vehicle Movement</p> <p>Bulldozers will stay off the main roads and travel only on designated tracks, unless otherwise authorized by the Hvy eqpt Tp Comd</p>	
Booking	Range Control, except CFSME for the Enclosed Area. All units will coord. through CFSME Ops for the Enclosed Area.	

KNOWLTON HILL AREA

Trg Area Name	Heavy Equipment	
Area Number	Knowlton Hill	
Responsible Unit	CFSME / FETS	
Trg Area Description	Heavy equipment Dozer Graders etc	
Authorized Trg	Dozer Ops	Dozer Trg Area
	Dozer Ops	
Restrictions on Use	General 1. The enclosed area will be used for heavy eqpt/dozer training.	
	Authorized ammo : N/A	
	Authorized Eqpt Dozers	
	Vehicle Movement Bulldozers will stay off the main roads and travel only on designated tracks, unless otherwise authorized by the Heavy eqpt Tp Comd	
Booking	Range Control coord may be required through CFSME Ops for deployment within the Knowlton Hill Area.	

ADVANCED LIVE FIRE TRAINING

LOCATION

1. Advanced live fire training may be carried out on the ranges allotted for that purpose. Specific instructions are written for these ranges, namely:
 - a. Close Quarter Battle Lanes;
 - b. Overhead Fire Range; and
 - c. Argus Coy Defensive Position.
2. In addition, advanced live fire training may be carried out within the 5 Canadian Division Support Base Training Area with the following restrictions:
 - a. Static Range Impact Area (SRIA) (RED on map) Dirty and Clean Fire only when authorized;
 - b. General Manoeuvre Area (GREEN on map) Clean Fire only (no dud producing munitions); and
 - c. Existing Range Facilities. Dirty and clean fire, which does not exceed weapon and munitions authority for that range.

DESCRIPTION

3. Advanced live fire training is defined as any type of live firing that is conducted on other than a fixed range facility. It includes any mix of live and dry training, i.e., Artillery or Mortars firing live in support of a dry Combat Team Advance.
4. When planning advanced live fire exercises, Annex U to Chapter 2 should be read in detail. B-GL-381-001/TS-000 provides specific instructions for the following advanced live fire training, which may be authorized in the 5 Canadian Division Support Base Training Area:
 - a. Battle Indoctrination;
 - b. Flanking Fire;
 - c. Overhead Fire;
 - d. Field Firing Exercises; and
 - e. Combined Arms and Joint Exercises.

ALLOCATION AND APPROVAL OF EXERCISE

5. The following information is required by Range Control, at the time of booking:
 - a. the location of weapon(s);
 - b. the type of weapon(s);
 - c. the type of ammunition to be used;

- d. the type of fuses to be used;
 - e. the direction of fire of all weapons (template);
 - f. impact areas and ricochet areas;
 - g. date/time of firing;
 - h. encompassed area danger template; and
 - i. requests for reduced danger areas requiring the approval of the Area Commander.
6. Prior to the commencement of the exercise, a copy of the exercise safety instructions will be forwarded to Range Control for approval. Once approval is granted, the practice may commence.

AMMUNITION RESTRICTIONS

7. All current ammunition restrictions shall be observed for live firing. These restrictions are contained in CFP 381(1), CFP 153(1) (A) and C-09-216-001/TX 000.

WEAPONS

8. All weapons may be fired on or into the field firing area with the exception of all ammunition producing duds, provided the conditions of DRSOs are fulfilled. For SRAAW (84 mm and M72), sub-calibre or TP rounds are the only type to be used.

FIRING OF UNAUTHORIZED WEAPONS/AMMO

9. Authorization of occasional use of specific weapons/ammo not found in B-GL-381-001/TS-000, must be requested by message to LFAA.

SUPERVISION

10. A qualified officer/NCO with a current knowledge of all weapons to be used shall control every live firing practice or exercise. This officer/NCO shall be known as the Officer in Charge of the Exercise. In addition, a qualified officer, warrant officer, or NCO shall supervise the firing of each type of weapon. For example, if mortars are used, a qualified officer, warrant officer or NCO must supervise the firing of the mortars. The OIC field firing shall be responsible at all times for the proper maintenance of range discipline and the compliance with these orders.

11. For all field-firing exercises, a Safety Officer other than the OIC Exercise shall be appointed. His duties shall be solely those concerned with the enforcement of safety precautions and the maintenance of safety.

12. Officers, warrant officers or non-commissioned officers detailed as Safety Officers for individual weapons or sub-units will:

- a. follow behind each individual section, group, mortar detachment, AFV, etc, according to the type of exercise and conform exactly to their movement;
- b. describe the tactical situation, when necessary, to the men taking part; and
- c. take corrective action to prevent any dangerous firing or incident.

13. Before an exercise, the OIC Exercise, the Safety Officer and all other supervising officers shall make

themselves thoroughly conversant, by personal inspection, with the whole target area. Before the beginning of an exercise, each shall obtain a detailed map of the range. A copy of Daily Range Instructions and a copy of these Range Instructions and CFP 381(1) shall be carried throughout the exercise by the OIC Exercise.

14. A detailed briefing will precede the exercise on the ground by the OIC Exercise. All personnel involved in supervision and safety will attend this briefing, and the various firing positions will be visited and safety measures explained. All commanders must be briefed as to the arcs of fire and lines of advance.

15. Sentries must be posted to prevent persons or vehicles from entering the danger area. The position of such sentries will normally be indicated in DRSOs. If not, the OIC Exercises must carefully plan the positions of sentries. They must be given definite orders (see Chapter 1 Annex G).

16. Before an exercise, all troops must be told the pre-arranged signal necessary for all firing to stop immediately (normally a para-flare). This emergency signal to stop firing will always be based on a series of flares, **other than RED**. When it is necessary to cease firing, personnel will do so immediately, make their weapons safe and await further orders.

17. **RED** and **GREEN** control flags will be flown at the centre of the start line or in a location that can be seen by personnel in the administrative and manoeuvre areas. Once the **RED** flag is raised, it will not be lowered. The **GREEN** flag will not be raised until all weapons have been unloaded and inspected by a Safety Officer.

DANGER AREAS

18. User units are responsible for templating, marking and securing danger areas for live firing exercises in accordance with Chapter 1 of these orders and CFP 381(1), Chapter 2.

19. All shot, shell, canisters and shell fragments must come to final rest within the authorized areas as per DRSOs.

20. Danger areas must not extend outside of CYR 724 or exceed an elevation of 25,000 ft AGL.

SAFETY RESTRICTIONS

21. Firing shall not commence without authority of Range Control, the OIC Exercise and the Safety Officer. During the exercise, all personnel taking part in live firing exercise subject to availability should wear fragmentation vests. All personnel shall be notified of the signals to cease fire.

22. Firing shall cease when aircraft approach the danger area.

23. There will be no firing if there is any doubt as to the safety of either troops or civilians or if there is a possibility of damage to property.

24. No one, other than those specifically detailed, will carry or use live ammunition or explosives. At the conclusion of an exercise, all personnel will make a declaration to the OIC Exercise or a designated officer, warrant officer or non-commissioned officer not below the rank of Master Corporal, that he has no ammunition, empty casings or pyrotechnics in his possession.

25. All live firing will cease immediately if communications with Range Control fail.

26. The minimum distance between weapons deployed for advanced live fire training shall be as follows:

- a. 9 mm pistol, SMG, C1, C-7, C-8 - 3.5 metres;

- b. GPMG - 4 metres;
- c. HMG, M72, 84mm - 12 metres;
- d. 60 mm, 81 mm, 105 mm, 106 mm RR - 20 metres;
- e. TOW - 10 metres;
- f. 155mm - 35 metres; and
- g. 76 mm, 105 Tk - 10 metres.

NIGHT FIRE REGULATIONS

27. Exercises will not normally take place at night. If it is desired to conduct a field firing exercise at night, special safety precautions and safety measures must be observed.
28. Additional Assistant Safety Officers will be required. They must be detailed on the scale of one Officer, Warrant Officer or Non-Commissioned Officer (not below the rank of Master Corporal) to each LAR or heavier weapon; and one Officer, Warrant Officer or Sergeant to each rifle section (less LAR or heavier weapon), assuming that the rifle section will always remain complete. Additional Safety Officers will be required for each manoeuvre element if the exercise involves movement of troops with live ammunition.
29. Targets will **NOT** be engaged at ranges greater than 200 metres by platoon weapons, except when firing on fixed lines. Fixed lines will be established in daylight.
30. Except for support weapons for exercises involving movement, firing will be confined to an arc of 175 mils (10 degrees) **LEFT** and **RIGHT** of the axis of advance. This rule is designed to prevent troops going too far forward during an advance and being caught in the cross-fire of those on their **RIGHT** or **LEFT**. Flashing AMBER lights on posts will indicate arcs of fire.
31. When carrying out fire with movement, the sub-unit must move forward in line.
32. The start line, stop line and flanks of the firing area must be shown clearly either by natural or artificial features or by lights.
33. All night firing exercises, when the troops concerned have not previously carried out this form of training, will be preceded by a detailed daylight "dry run" for the exercise and safety staffs and the troops. Routes, fire positions, arcs of fire, start and stop lines; signals to stop firing and the various lights will be explained to all by the OIC Exercise. When the troops are well-trained and used to night work, COs are empowered to allow a dry run by the exercise and safety staffs only.
34. In set-piece exercises, the command post will normally be in telephone communication with the markers' shelters, and the safety of the markers will, therefore, present no difficulties. However, where telephone or radio communications are not available, instructions must be issued that markers will not leave their shelters until given a verbal order by the Officer, WO or NCO who is designated for this purpose.
35. On a moonlit night, targets can be sited so that they are visible to the firer and present a good service target. On dark nights, artificial illumination may be used.
36. Before an exercise is started, all troops must be informed of the prearranged signal to cease fire.

37. Fragmentation and phosphorous grenades will **NOT** be thrown or fired at night.
38. Arc of fire markers must be illuminated and clearly identified as markers.
39. Rifles, LARs, GPMGs on bipods, or any other weapon, which cannot be clamped firmly onto a pre-determined fixed line, will **NOT** be fired at night for battle inoculation. If it is necessary to fire such weapons individually for demonstration purposes, e.g., to illustrate "crack and thump", then they must be firmly fixed by some clamping device which ensures that this line of fire will not vary, and **they will only fire single rounds.**
40. Machine guns providing flanking fire at night will fire on fixed lines. The danger areas of which (as shown by the templates) will be clearly marked. A strand of wire raised knee high will be laid to delineate the safe area from the danger area along the whole line of advances as a precaution to prevent men from walking onto the danger area.
41. When a machine-gun is to be used at night, the fire of the gun will be adjusted by daylight and then the gun will be sandbagged and staked into position. The machine-gun will **not** be left unattended **NOR** be dismantled until the exercise is completed.
42. All firing points and target operators' pits will be clearly marked by exposed **RED** safety lamps.
43. Each AFV and carrier will carry **GREEN, YELLOW** and **RED** lights. If they are available, special indicator boxes or other locally approved devices should be used. Their meaning and use is described in Chapter 1.
44. During night firing, it is most important for safety reasons that all Safety Officers exercise very close supervision over the loading and unloading of all weapons and the movement of personnel on and around firing positions.
45. Infantry Section Commanders and Safety Officers will carry working flashlights for showing AFVs their locations in the event of tanks or carriers approaching. To reduce risk to personnel, routes and timings must be carefully coordinated and adhered to.

COMMUNICATIONS

46. All ranges must have a system of communication using radio or telephone. The communication plan should permit the RSO to be in communication with all safety staff.
47. The wire for telephone communication should be laid underground when possible; otherwise, omnibus surface circuits will be laid.
48. As an alternative to radio or telephone communication, periscopes in the markers' shelters and a system of flag signals may be employed.
49. Whatever the system of communication, it will be necessary for the OIC Exercise and the RSO to have a full view of the range. The RSO's control point should be sited near the back of the firing area, and, if necessary, a control tower should be provided.
50. In addition, the Range Safety Officer will be in communication with Range Control. If communications are lost, the practice will cease fire until communications are re-established.

FIRE PREVENTION

51. The OIC Exercise shall be responsible for ensuring that Range and Training Area Fire Orders are observed. In particular, he will ensure that at least one first line fire fighting unit is available at the field firing area.

MEDICAL

52. For all advanced live firing exercises, the following medical arrangements will be made:

- a. First Aid personnel, of Corporal or higher rank, trained to the level described in Annex B to CFAO 9-5 (Standard First Aid Course), with a first aid kit, two litters, four blankets and a designated vehicle (capable of carrying a prone casualty), will be present during range practices for:
 - (1) field firing exercises of Infantry Platoon strength or less; and
 - (2) water crossing with boats if less than Infantry Company strength;
- b. a Medical Technician will be employed for:
 - (1) platoon field firing with support weapons, support arms or field firing involving manoeuvre of combat and support arms; and
 - (2) company level exercises; and
- c. a Medical Officer will be employed for field firing involving company groups with support weapons or supporting arms.

INSPECTION OF WEAPONS AND CHECK FOR AMMUNITION

53. At the end of each practice or exercise, an officer, warrant officer or NCO shall inspect all weapons and equipment to ensure that weapons are unloaded and that the men are NOT in possession of any live ammunition. Each man shall be questioned to this effect and all shall be warned of the serious consequences of being in illegal possession of live ammunition at any time. All unexpended live rounds shall be collected.

BLINDS

54. The destruction of blinds is a Range Control responsibility. All blinds will be marked and reported to Range Control. Duds and misfires will, where possible, be made safe in accordance with current weapon manuals and returned to the ASA.

RANGE CLEARANCE CERTIFICATE

55. Immediately after the exercise and when all garbage and casings have been cleaned up, the OIC Practice will submit a written Range Clearance certificate to Range Control prior to closing down on the Range Control Net.

AIR WEAPONS RANGES

GENERAL

1. The Gagetown Range and Training Area (CYR 724, CYD 722 and CYR 725) is frequently used by both Land and Air Forces (helicopters and fixed wing). Range overflights and flights into weapon impact areas and ricochet areas must have prior authorization from Range Control. Areas not specifically authorized must be avoided.

AIR ACCESS AND AUTHORIZED CONTROLLERS

2. Army Individual Training Air – Air (AITA - AIR) is responsible for detailed coordination of all fixed-wing within the training area.

3. Army Individual Training Air – Aviation (AITA – AVN) is responsible for detailed coordination of helicopter activities within the training area.

4. In the absence of or in conjunction with the above personnel, the Artillery School Forward Air Controller (FAC) Cell may also coordinate either fixed-wing or helicopter activities within the training area.

5. Terminal attack controllers (FAC/FAC(A)/JTAC/ABFAC) shall be used to control the delivery of ordnance within the RTA. Qualified (combat-ready) FACs are authorized to control aircraft. Certified (limited combat-ready) FACs must be supervised by a current supervisory – FAC (SUPFAC). **All Joint Terminal Attack Controllers and Tactical Air Control Party Officers shall produce a Commander’s Designation Letter to the RCO (either electronically or in person) prior to controlling aircraft flying within the Gagetown RTA, which the RCO will then fwd to the BComd for approval. This requirement exists for live as well as dry flight training activities.**

6. IAW CFB Gagetown Flying Orders, Vol I, Chap 3, Para 9, prior to entering the CFB Gagetown Ranges and Training Areas, all aircraft must contact Gagetown Tower on 126.4 (VHF) for updates on helo traffic in the area. If unable to do so, the pilot will advise the TACP. Once contact is established the aircraft may switch to their appropriate working frequency (TACP, AGRSO, FAC, Sqn Ops). All aircraft must maintain two-way communications while inside the training areas.

a. Prior to operating in the Gagetown Training Area all visiting aircrew must receive a Range Briefing from one of the following: CTC G3 Air or 403 Sqn Ops.

b. Each aircraft in a fighter formation must obtain a “cleared hot” clearance before arming up and delivering ordnance. Each aircraft must immediately go “switches safe” after weapons release.

RANGE BOOKINGS

7. The user unit must submit a minimum of 14 days prior to the exercise a request to include the Danger Area Trace for Impact, Ricochet areas and for Overflight areas. Areas for Impact and Overflight will be booked as LIVE and will include authorization from Range Control to land helicopters or to deploy vehicles for control purposes.

RANGE SAFETY OFFICER

LIVE TRAINING

8. As authorized by the G3 Air or AITA – Air/Avn (CFAO 9-20), a qualified AGRSO, shall be present during all air to ground live fire activities, and is responsible for all safety related issue. During live training the AGRSO shall:

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- a. Have a thorough knowledge of Range Instructions, the type of mission, weapons to be employed, applicable safety precautions and templates, and thorough understanding of Laser procedures if Laser Target Markers (LTMs) are being used;
- b. maintain two way communications with the aircraft and coordinate air operations that take place in air range;
- c. ensure safety of both ground and airborne personnel;
- d. ensure detailed coordination and control of air activities in the exercise areas;
- e. have in his possession a copy of the Daily Range Safety Orders; and
- f. in the event of an emergency ensure the aircraft is “Switches Safe” on all armament switches, cease the exercise and advise Range Control.
- g. For ordinance delivery the RSO does not give the final clearance to the aircraft, which is the responsibility of the Ground Controller. However, in the event that the aircraft is outside of its mandatory attack heading or is unsafe in any other matter the RSO must be prepared to provide an “abort” or “stop” call to the aircraft if the ground controller does not.

DRY TRAINING

9. All of the above restrictions apply equally to dry training except when there is no requirement for a qualified Air RSO to be present. A qualified FAC Supervisor or Combat-Ready FAC are authorized to control aircraft during dry training.

RESTRICTIONS

WEAPONS AND AMMUNITION

10. The following restriction applies:

- a. Weapons and Ammunition that appears on the Air weapons Range Authorization (CF651) are approved for use in the Gagetown ranges. Occasional use of other weapons must be requested through the RCO. Dud producing munitions will not be used outside the Static Range Impact Area (SRIA). Approved Air to Ground weapons and ammunitions are:

WEAPON	AMMUNITION	TARGET AREA	
		SRIA	GMA
A	B	C	D
GUNS 20 mm 30 mm .50 Cal 7.62 mm	BALL TRACE HE HEI	*	*
ROCKETS 2.75” to 5.75”	INERT HE WP	*	*
BOMBS PRACTICE	MK 106 BDU 33 MPB	*	
BOMBS MK 82 MK 83 MK 84	INERT/ LIVE	*	*

PGM	TOW	*	
	GBU (12,30,31 and 32)	*	
	LGTR		
	Maverick		
	Hellfire	*	
	JDAMs	*	

- b. Weapons and ammunitions shall not be aimed or directed so as to cause damage to:
1. personnel/vehicle;
 2. buildings;
 3. power lines;
 4. telephone booths/cables;
 5. wooded areas; and
 6. bridges or other man made works.

OVERFLIGHT ALTITUDE

11. The following overflight altitude applies to overflying ammunition storage areas. The minimum altitude for aircraft flying over the ammunition storage area (GA 065802) is 1,500 feet AGL. Temporary storage areas will be restricted to overflight via DRSO;
12. All pilots and RSOs/FACs must sign as having read the CFB Gagetown Range Instructions prior to carrying out air to ground weapons exercises.

COMMUNICATIONS

13. The following communications are available:

AGENCY		VHF	UHF	FM	EMERGENCY
A		B	C	D	E
RANGE CONTROL	SAFETY			49.90	
	ADM			48.90	
GAGETOWN ADVISORY		126.4	263.3	46.80	243.0
TACP/RSO "HAWKEYE"	PRIMARY	131.4	226.6		121.5
	SECONDARY	120.2	232.4		

ORDNANCE MALFUNCTIONS

14. Aircraft with live hung weapons may attempt to release them over the target area. If they cannot be released, the aircraft will return to home base. Helicopters with hung ordnance or jammed guns will land on the range to have the problem cleared prior to landing at the heliport.
15. In the event of a runaway gun, the aircraft is to continue on the attack heading, recovery to a level altitude until the gun has fired out.
16. In the event of an inadvertent release or firing of any weapon from an aircraft, the pilot will give the following information to the FAC/RSO immediately or the Gagetown Tower immediately after landing at home base:

- a. time of occurrence;
- b. height of aircraft at the time of release;
- c. point of impact;
- d. quantity and type of weapons;
- e. amount of damage; and
- f. if weapon function.

AIRCRAFT OCCURRENCE

17. In the event of an emergency forced landing or bailout being imminent, the pilot of the aircraft should declare an emergency and attempt to jettison "safe" his weapons over the target or ensure all armament switches are "safe". The RSO/FAC shall:

- a. contact Range Control;
- b. cease the exercise and order other aircraft to return to base;
- c. go immediately to the scene of the occurrence to aid the survivors and to act as the On Scene Commander until relieved; and
- d. maintain communications with Range Control.

RANGE CLEARANCE CERTIFICATE

18. Upon completion of an air to ground weapon exercise, the RSO/FAC is to note the location of unexploded ammunition, complete the Range Clearance Certificate.

NIGHT OPERATIONS

19. Night operations for fixed wing and rotary wing aircraft are authorised in accordance with the above restrictions plus:

- a. Aircraft are authorised to work at night if they are equipped with either a Thermal/FLIR targeting pod, NVG equipped pilots, Laser Spot Tracker;
- b. Aircraft are authorised to conduct dead-eye (visual) procedures only with aid of illumination from direct fire tracer or artillery/mortar/Automatic Grenade Launcher/flare illumination;
- c. Position of Ground/Airborne Controller's (FAC/ABFAC) and or the Forward Line of Own Troops (FLOT) when working with sub-units or formations must be identified to the pilot prior to clearance being issued for ordinance delivery;
- d. Type 2 FAC controls are acceptable during night operations. However, the ground/airborne controller must receive a detailed target description and final attack heading from the pilot prior to clearing the aircraft "hot" in order to confirm target acquisition;

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- e. Either Ground or Airborne FACs are authorized to control aircraft at night but must have the corresponding equipment or resources to identify targets to aircraft equipped as stated above. The FACs require either: IR pointers and NVGs, Laser Target Marker (LTM), Thermal Imager or the capability to use a Mark (Artillery or mortar illum/smoke, direct fire with tracer, other IR or Visual flare/smoke);
- f. All personnel, vehicles and equipment must be outside of the applicable weapon template.

INITIAL POINTS / CONTACT POINTS

20. The following are the approved IP's and CP's within the Camp Gagetown training area:

IP A – Lighthouse	GL 2485 8395	45 52' 20.5"N 66 06' 10.0"W
IP B – East tip of Island	GL 1285 8225	45 51' 39.2"N 66 15' 28.7"W
IP C – NW tip of Island	GL 2095 7792	45 49' 09.9"N 66 09' 20.6"W
IP D – T-Junction	GL 2034 7040	45 45' 07.2"N 66 10' 01.2"W
IP F - Bend in Lakeshore	GL 2394 5053	45 34' 20.8"N 66 07' 47.7"W
IP G – North tip of Island	GL 2594 4082	45 29' 03.5"N 66 06' 31.7"W
IP H - Island in Lake	GL 1869 4409	45 30' 57.6"N 66 12' 00.0"W
IP I – Island in Lake	GL 1471 4000	45 28' 49.7"N 66 15' 09.7"W
IP J - T-junction	GL 0667 4515	45 31' 45.1"N 66 21' 11.8"W
IP L – North tip of Lake	FL 9318 3329	45 25' 35.1"N 66 31' 50.0"W
IP M – North tip of Lake	FL 9779 3660	45 27' 17.6"N 66 28' 13.2"W
IP N – South tip of Lake	FL 9803 4170	45 30' 02.5"N 66 27' 54.8"W
IP O – Y-Junction	FL 8910 4950	45 34' 23.9"N 66 34' 35.0"W
IP P - Covered Bridge	FL 8956 5601	45 37' 54.2"N 66 34' 04.7"W
IP Q - Fire Tower	FL 9946 5773	45 38' 39.9"N 66 26' 25.4"W
IP X – 4 Way intersection	GL 1410 5791	45 38' 30.1"N 66 15' 09.5"W
IP Y – T-Junction	GL 0569 5525	45 37' 13.1"N 66 21' 41.7"W
IP Z – Y-Junction	GL 2056 5782	45 38' 19.9"N 66 10' 11.6"W
CP LINE	FL 7030 5100	45 35' 30.0"N 66 48' 59.9"W
CP VORTAC	GL 0040 8620	45 54' 00.5"N 66 24' 59.5"W

AIR DEFENCE MANPAD RANGES

GENERAL

1. There are two permanent Air Defence MANPAD Ranges for the 5 Canadian Division Support Base Range Training Area. The first is located in Lawfield OP, and the second area is in Rockwell Impact Area OP A.

SUPERVISION AND CONDUCT OF THE EXERCISE

2. An OIC Exercise will be appointed. He will be responsible for all aspects of the exercise.
3. A Medical Assistant, with ambulance, will be present at the control point.

WEAPON SAFETY

4. The exercise will be conducted in accordance with B-GL-381-001/TS-000.

FLAGS/BARRIERS/SENTRIES

5. During the practice, a Red flag will be flown at the control points, which are either the pole at LAWFIELD OP, or at OP A depending on the range in use.
6. Appropriate colored flags will be used at the firing points.
7. Sentries will be positioned in accordance with requirements of location.

COMMUNICATIONS

8. The OIC Exercise will maintain constant communications with Range Control, requesting permission to fire and advising when firing has ceased.

FIRE FIGHTING

9. Fire fighting is a user responsibility and users will be prepared in accordance with Chapter 1, Section 7.

RANGE CLEARANCE CERTIFICATES

10. A Range Clearance certificate will be completed by the OIC Exercise and turned in to Range Control prior to closing down on the Range Control Net.
11. Range cleanliness will be inspected by Range Control the day following the range practice or immediately upon completion of firing in the presence of the user if requested by the user unit. A forty-five minute notice of inspection must be given to Range Control.

ARGUS COY DEFENSIVE POSITION

LOCATION

1. The Argus Coy Defensive position is located in the area of GS 0072 and is designed to provide battle inoculation in a Cbt Tm defensive field firing setting. Considering the ground, the conditions provided are as realistic as safety will allow.

DESCRIPTION

2. The position has been constructed to accommodate a Cbt Tm. The following is a list of fortifications to be found in the position:

- a. Coy Tac HQ Bunker with adjacent MG trench (obsn only) each x 1;
- b. 3 x Rifle Pl with 13, 2 man btl trenches; and
- c. 2 x MG trenches/1 x Mortar Pit each.

1. In support of the Coy, there are positions for 1 Tp Tanks templated as reqr);
2. The position may be used at the Coy, Pl or Sect level for field firing.
3. When conducting a defensive exercise, the only deployment flexibility allowed the participating comd is:
 - a. where to employ their weapons as permitted by the specific weapon template; and
 - b. the trenches occupied should their sub-unit(s) be under strength.

TRENCH SYSTEM

6. All trenches are constructed of reinforced concrete material and are provided with overhead protection. All trenches are numbered on the top right hand corner of the battle trench opening. Additional trenches will not be constructed without the consent of CO Ops Svcs Br.

4. Each trench must have a prepared Range Card, which gives the authorized weapons, arcs of fire and special provisions, if any, for that trench. The OIC/RCO OF THE EXERCISE MUST PHYSICALLY confirm the arc of fire of each weapon system employed in the position using a compass, map, templates and Appendix 1. Most trenches offer a variety of permissible weapon systems. Range users may not amend these instructions without Range Control authority. The user must prepare range Cards and they will be located in the trench when firing is in progress.

5. Stakes for marking safety angles are available from Target Factory. Normal Safety Arcs for each trench are detailed at Appendix 1. Weapon Arcs may be expanded when all trenches are not occupied. Range Control must then approve a safety trace before firing can commence.

TARGETS

9. There is now a permanent electronic target system on this Range, however, any combination of stationary, pop up, or moving targets may be used. Targets are to be requested in the normal manner and may only be placed in the triangulated area to the front of each trench. Operators for the electronic target system are to be requested separately on a TSR. Detailed maps indicating target locations are available through Range Control.

6. The Range has been templated to allow maximum weapon compatibility and therefore targets for maximum effectiveness should be placed in designated target areas.

PERMISSIBLE WEAPONS/AMMUNITION

11. All natures and types of weapons and ammunition that fit the range danger area are authorized for use on this range. A waiver is required when firing dud producing munitions in accordance with Para 1.109.

7. All current nature of munitions used by fixed wing aircraft or helicopters that fit the danger area are authorized for use.

8. The position may be used with live or blank ammo; however there will be no mixing of live and blank ammunition.

RANGE FLAGS, SENTRIES, BARRIERS AND KEYS

14. A RED flag will be flown on the flagpole provided at Grid 002 720. Red and green flags, as applicable, will be flown from the location of the Coy CP when firing is in progress. Lanterns will replace flags at night. Keys, flags and lanterns are available from Range Control. A locked barrier #25 controls access to the range. Keys are available for the Coy CP and the MG obsn trench.

9. Range Safety Sentries are not required, as long as gate #25 remains locked; however access control for this gate is required if it remains unlocked at any time.

FIRE FIGHTING

16. In accordance with Range Instructions, Chapter 1, Section 7.

DRESS

17. All range users must be aware of current hearing conservation precautions and ensure that all personnel are protected accordingly. Helmets will be worn by all pers participating in the exercise and firing live ammo.

MEDICAL

18. The OIC Exercise will ensure that medical coverage as follows is available:

- a. Coy Posn - MA or First aider with ambulance depending on strength of unit being exercised; and
- b. Mortar Base Plate Position - designated First Aider.

BIVOUAC/HARBOURS/ROUTE

19. No less than 12 separate sites are available within 2.5km of the position for use as bivouac or harbour areas in support of advanced exercises. The use of Lavina Woods directly East of the position is recommended for any Zulu or administrative vehicles, or prior to an approach march. There is tactical foot and vehicle routes available to occupy the 3 PI locations and the Tank run up positions as required. Use of any areas must be authorized by Range Control.

CONTROL OF MOVEMENT

20. The control of all movement within the exercise area will be the responsibility of the Exercise Director. This includes traffic control on the Drummond Road if required, and control of vehicle and foot movement East of the Drummond Road.

TRANSPORT AND STORAGE OF MUNITIONS

21. Explosives, mines and ammunition will be transported and stored in accordance with B-GL-381-001/TS-000.

DEMONSTRATIONS

22. Fire Power demonstrations are authorized to be conducted from this position. Approval for the demonstration must be requested in accordance with 5 Canadian Division Support Base SO, Vol 2, Instructions, Chapter 1.

SPECTATORS

23. Spectators must be closely controlled and contained in designated areas only. Comd 5 Canadian Division Support Group authority is required if spectators are to be closer than 300 metres to the weapons being fired and/or positioned in the trenches with the firer.

RANGE SAFETY

24. Templating will be done using the criteria for troops in the open engaging hard targets. Normal safety will be used unless more than 50 participants and spectators are involved and then positive safety will apply.

DANGER TRACE

25. All firing will template within the areas detailed in DRSOs. The boundaries of the trace may only be changed on the authority of the RCO 5 Canadian Division Support Base. When requesting use of the range the Exercise Director must specify which areas are required. The OIC/RSO will always be responsible to check arcs and apply templates according to his planned exercise.

WEAPON AND AMMUNITION RESTRICTIONS

GENERAL

26. Ammunition may be distributed and magazines loaded prior to occupying the position. However, weapons will not be made ready, until all participants are in the trenches and authority has been obtained from the Range Safety Staff. Loading of magazines or preparation of belted ammunition will only take place in the dark under close supervision. Unexpended ammunition will be collected and declarations will be given prior to troops leaving the trenches. At night white light should be employed to clear all chambers and feedways.

FORWARD MOVEMENT

27. The Range Safety staff will control movement within the Danger Trace Area as follows:

- a. debussing will be permitted forward near the trenches in an area approved by Range Safety staff;
- b. before firing commences, all non-essential vehicles will be cleared of the position;
- c. authorized routes or run up positions between trenches or exercise vehicles such as tanks and APCs will be clearly marked so as to prevent disruption of communications cable and to ensure dismounted personnel are safe during night operations;
- d. authorized routes for men on foot will be clearly marked so as to avoid possible UXO hazards or battle simulation devices, which have been installed;
- e. once in the trenches and firing commences, all personnel, including safety staff, will not move into the open until cease fire or check fire has been given and weapons proved safe; and

- f. targeting will not take place without authority of Range Control who will ensure that a Check Fire is given to other impact area users whose fire may endanger targetry personnel.

AIR SAFETY

28. Air safety is the responsibility of the AGRSO who is required to brief all pilots separately. Helicopter arming points and ordnance disposal areas will be requested from Range Control. Where possible, the SA complex is to be kept safe from overfly, and aircraft should approach from the South over Lauvina Wood.

COMMAND AND CONTROL

29. The Range Safety Officer will be responsible to the Exercise Director.

10. The Range Safety Officer will ensure that current copies of these Range Safety Orders, CFP B-GL-381-001/TS-000 and these instructions are available at:

- a. Exercise Headquarters;
- b. Air, Artillery and Mortar Command Posts; and
- c. Tank Troop Comds vehicle and other participating Headquarters.

11. The Exercise Director assisted by the Range Safety Officer is responsible to produce Exercise Safety Instructions, which amplify and clarify these instructions as they apply to the conduct of his particular exercise. The Exercise Instructions will be approved by Range Control prior to commencement of the exercise.

12. When demonstrations are conducted on this range, all safety, communications and safety staff provisions of this instruction will apply unless special authority is obtained from the Comd 5 Canadian Division Support Group for such actions as danger close shoots.

13. **RANGE SAFETY STAFF - ORGANIZATION**

- a. The minimum requirement for safety staff is as follows:
 - (1) Range Safety Officer at Exercise Control Headquarters;
 - (2) Assistant Range Safety Officers at participating Headquarters (Coy, Pl or Sect);
 - (3) one Safety NCO per crew served weapon;
 - (4) one Safety Officer/NCO per tank/APC. If deployed in close proximity pairs need only one safety staff per two;
 - (5) one Safety NCO qualified advance TOW per TOW weapon system;
 - (6) one Safety Officer at the CP and one Safety NCO qualified Advance Mortar at the BP for each group of 81mm mortar;
 - (7) one Safety Officer (SO) per battery when employing normal safety and a minimum of one SO per three guns when positive safety procedures are employed;
 - (8) one pilot FAC, Air Safety Officer, qualified on all air resource weapons being employed; and

- (9) one Safety NCO Advanced Pioneer or Engineer qualified at least HA for battle simulation.
- b. Safety staff may hold other exercise appointments, but will not participate in the exercise; and

SAFETY STAFF IDENTIFICATION

34. All members of the safety staff will be equipped and identified in such a manner as to be easily recognizable. A piece of white mine tape encircling the helmet plus the standard red and white armband are examples of these.

14. SAFETY STAFF DUTIES AND RESPONSIBILITIES

- a. Safety staff are responsible to provide for the safe conduct of the exercise. They should not restrict or interfere with the exercise unless safety is, or is about to be, jeopardized;
- b. Safety staff will remain just to the rear of the trenches and positions as per para 2 above and conform to all participant procedure. Safety staff will be to the rear of the trenches and observing when firing is in progress;
- c. Briefings will be arranged by the Range Safety Officer to ensure that all exercise participants and safety staff are fully conversant with the conduct and safety requirements of the exercise;
- d. Prior to the conduct of the exercise, the Range Safety staff will brief all participating troops on:
 - (1) the description of the position and target system;
 - (2) pertinent extracts from Appendix 1 to this Annex;
 - (3) forward movement;
 - (4) use of the Range Card and permissible weapons;
 - (5) use of flares; and
 - (6) exercise instruction as required.
- e. Prior to the conduct of an exercise, Range Safety staff will conduct the following inspections:
 - (1) all natures of ammunition will be checked to ensure only authorized quantities and natures are being used;
 - (2) each trench will be checked to ensure all occupants understand the use of the range card and that only authorized weapons are being used; and
 - (3) all participants will be checked to ensure they are using hearing protection devices.
- f. Field firing will only commence after the provisions of sub-paras d and e have been satisfied;
- g. Safety NCOs detailed to supervise the safety of a specific weapon will read CFP B-GL-381-001/TS-000 Range Training Safety in detail as concerns his weapon of responsibility; and
- h. The Range Safety staff is responsible for the safe carriage and storage of all natures, types and

classes of munitions used on the range.

CONTROL OF FIRE

36. The Range Safety staff will control magazine loading and making weapons ready/safe.

15. The Exercise Director may only issue EX CEASE FIRE. When a breach of safety occurs, the word **CHECK FIRE** will be issued. **CHECK FIRE** will normally only be issued by the Safety staff, however, any participant or spectator who observes a breach of safety may issue **CHECK FIRE**. Before firing commences after a **CHECK FIRE** the term **CANCEL CHECK FIRE** will be used. The Range Safety Officer or his delegated authority will only issue this term. Before movement forward of the position is permitted, **CHECK FIRE** must be in effect and **weapons proved safe**. In this case, only Range Control will issue the **CHECK FIRE** to ensure other ranges are made safe.

16. Back Deck Safety for tanks and TOW and additional GP/BP safety will be the responsibility of the participating unit.

17. Indirect fire will not be directed so as to land amongst targets or their control systems.

DUD DISPOSAL

40. Dud disposal is the responsibility of Range Control. All duds must be immediately reported to Range Control. The defensive position, which includes the trenches and all newly excavated ground, have been cleared to level 1. Due to the high level of contamination prior to the construction it is strongly recommended that a level one clearance be conducted by HA qualified pers prior to the conduct of any exercise. Strict adherence to a track plan both by day and night and vigilance by tgt setting crews travelling to the front of trenches is recommended.

18COMMUNICATIONS

41. Communications will be maintained on the Range Control Safety Net (49.9) at all times. This net will not be used as an Exercise Control or Exercise Safety Net.

42. Exercise participants will use lower power on all radio communications to avoid sympathetic detonation of any Battle Simulation charges that are in place.

RANGE CLEARANCE.

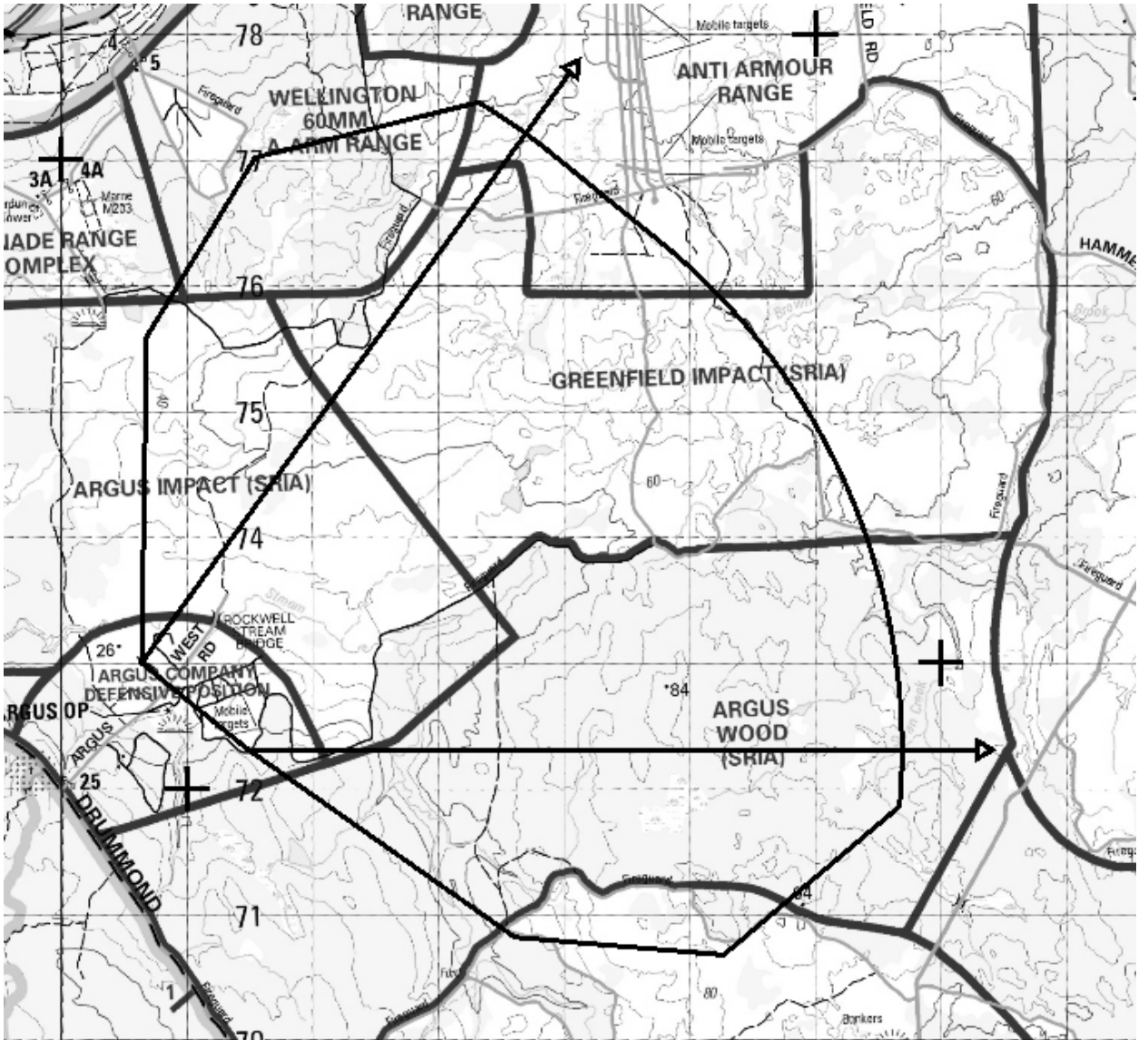
43. The range will be left clean and buildings will be swept. All target pull systems and battle simulation wires will be picked up. Wooden targets will be salvaged and returned to Target Shop or disposed of at the landfill site. TOW wires will be picked up. Trenches will be cleared, swept out and inspected **immediately** by dedicated Range Control Staff. Covers will then be replaced.

44. Prior to leaving the range, the OIC Practice will ensure that all barriers are locked.

45. The OIC Exercise will submit a Range Clearance certificate to Range Control, prior to closing down on the Range Control Net.

46. Range cleanliness will be inspected by Range Control during the march out of the exercising unit immediately following the range practice. Maximum notice of inspection (forty-five minute notice) must be given to Range Control.

TRACE 1D
APPENDIX 1
ANNEX T
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EDITION 20 2018



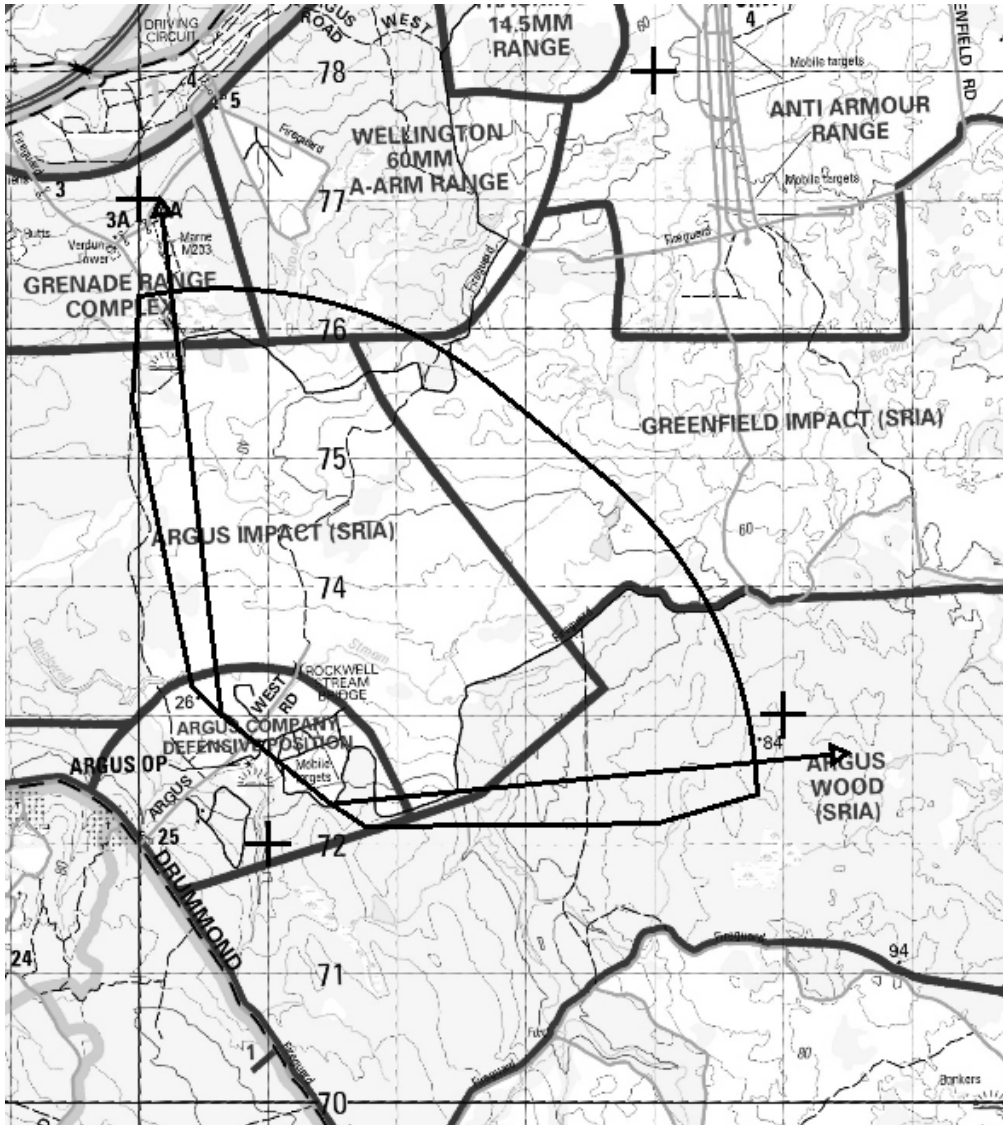
Not to Scale

Trace 1D

Trace 1D
LFP: 00640 73000
RFP: 01490 72310
LOA: 0640 mils
ROA: 1600 mils
Ammo: .50 cal, Max QE 240 mils (hard/soft target)

Training Area: Coy Def Posn
[5] Impact Areas: AI, GI, AAR
[6] Ricochet Areas: Wellington, AW, RI

TRACE 1F
APPENDIX 2
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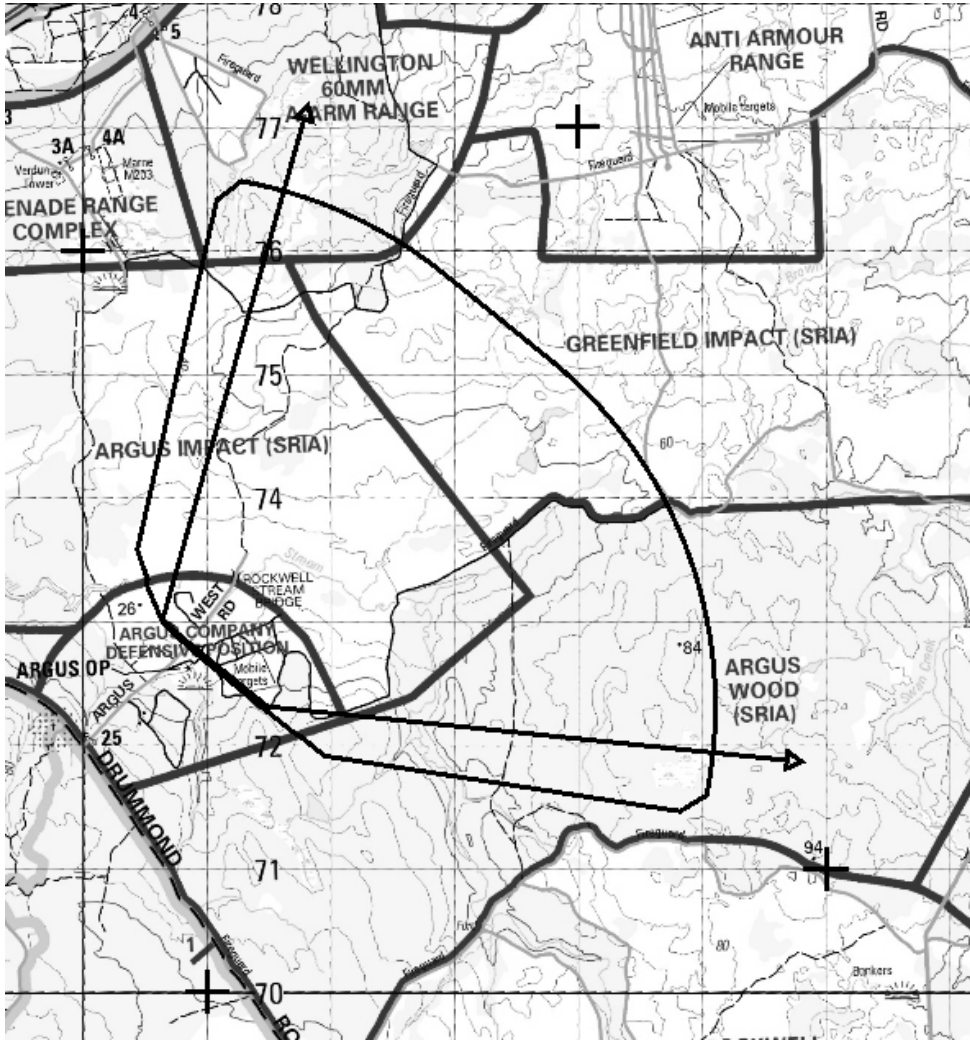
Not to Scale

Trace 1F

Trace 1F
LFP: 00640 73000
RFP: 01490 72310
LOA: 6280 mils
ROA: 1500 mils
Ammo: 5.56mm, Max QE 200 mils

Training Area: Coy Def Posn
[5] Impact Areas: AI, GI
[6] Ricochet Areas: GRC, Wellington, AW

TRACE 1G
APPENDIX 3
ANNEX T
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Not to Scale

Trace 1G

Trace 1G
LFP: 00640 73000
RFP: 01490 72310
LOA: 0280 mils
ROA: 1705 mils
Ammo: 5.56mm, 7.62mm Max QE 200 mils

Training Area: Coy Def Posn
[5] Impact Areas: AI, GI
[6] Ricochet Areas: Wellington, AW

T1 TR 1G

ENNISKILLEN TRAINING AREA

DISMOUNTED LIVE FIELD FIRING RANGE

GENERAL

1. The Enniskillen dismounted live field firing range is designed to train soldiers in stage 4 (individual) and stage 5 (collective) field firing IAW the Shoot To Live Program.

LOCATION

2. The Enniskillen dismounted live field firing range area is located on the West Side of Highway 7 and incorporates areas 42 to 48 inclusive. Note that area 47 includes areas E2 and E3 and they both make up the western half of Area 47. There is no off-road mounted manoeuvre permitted anywhere in Area 47, and dismounted manoeuvre is only permitted in areas E2 and E3 due to the UXO threat.

DESCRIPTION

3. The area contains pre-templated manoeuvre boxes designed for the conduct of live fire stage 4 (Individual) and stage 5 (collective) field firing training. The ranges are designed to use the Direct Fire Targetry System (DFTS) with each manoeuvre box containing pre-sighted concrete pits designed to provide protection for the DFTS. Some ranges also contain bunkers sighted to provide flank and overhead fire for battle simulation.

4. A more detailed description of the ranges are as follows:

- a. 4 X individual field firing ranges (IFFR), 10-20 m wide, 300 m long, each containing 10 Static Inf tgt pits (App 1);
- b. 2 X Section level manoeuvre boxes 500-800 m wide, 800-1000 m long each containing 20 Inf and 2-3 Veh tgt pits (App 2); and
- c. 3 X Platoon level manoeuvre boxes 800-1000 m wide, 1000-1500 m long, each containing 35 Inf and 5 Veh tgt pits (App 3).

TARGETRY

5. The DFTS is the same system that it is used on the Coy Def Posn (Argus) and the AFV Battle Runs on Anti Armour Range. The DFTS is an electronic, remote controlled target system consisting of the following:

- a. static inf tgts(SITs);
- b. static vehicle targets(SVTs);
- c. moving inf tgts(MITs);
- d. moving veh tgts (MVTs); and
- e. hostile fire simulators (HOFs).

6. The DFTS can be programmed by calibre and number of rounds for targets to fall. It can also record scores and can simulate muzzle flash for night firing. The HOF simulates enemy fire using a propane fuel tank slaved to a target. The protective concrete target pits are designed to provide frontal and flank protection for the SITs, SVTs and HOFs with overhead protection for the SITs mechanism.

7. The tgts are arranged in groups of 3-5 targets spread laterally and in depth with a HOF pit located near the central rear most tgt. This allows for both width and depth in each position thus enabling fire and manoeuvre at the section, group and fire team level.

PERMISSIBLE WEAPONS/ AMMUNITION

8. All natures and types of weapons and ammunition that fit the Range Danger Area traces are authorized for these ranges. With the exception of hand held fragmentation grenades, no dud producing munitions will be used in this area. For Short Rge Anti-Armour Weapons (SRAAWs) the sub caliber adapters or TPT rds will be used.

9. The positions may be used “live” or “dry” (ie for rehearsals) however there will be no mixing of live and blank ammunition.

COMMUNICATIONS

10. Communications will be kept at all times with Range Control on Safety Net. Unit will require permission to go live and will report the following:

- a. call sign
- b. request permission to go live, Enniskillen Trace # _____
- c. IAW with DRSOs serial _____
- d. OIC (Rank, Init, name)

SAFETY PRECAUTIONS

11. Not all ranges from Enniskillen can be fired at the same time. The Range Safety Officer will verify the ranges in use, and confirm prior to ask to go live if the arcs of fire from all the ranges are not interlocking.

RANGE FLAGS, SENTRIES, BARRIERS AND KEYS

12. When any of the various ranges are being used sentries will be placed at the extreme East and West ends of Enniskillen road at barriers # 42 and #38. In addition prior to commencing the live firing, the OIC or one designated person, will drive the area of responsibility and conduct a visual sweep of the area including all access roads into the RDA. The aim of this sweep is to confirm that no unauthorized personel are in the area, that no unattended forestry eqpt is within the template and that the live fire barriers are in place on the secondary access roads and sentries are in loc.

13. For each rge a red or green flag will be flown at the start line and at the two barriers previously mentioned. For exercises proceeding through large open areas, a portable red flag will proceed with the exercise. This can be done by att a small red flag to the accompanying signaler’s 10’ antennae.

FIRE FIGHTING

14. In accordance with Range Instructions, Chapter 1, Section 7.

DRESS

15. Helmets and fragmentation vest are compulsory for live-fired firing combined with tactical movement where fragmentation-producing munitions are being used.

MEDICAL

16. The OIC exercise will ensure that medical coverage as follows is available:

- a. Live fire field firing up to and including Pl level: First Aider Cpl; and
- b. Live fire field firing Coy level: MA or Cpl Cas Aide TQ4.

BIVOUAC/HARBOURS

17. Only two bivouacs are authorized in the Enniskillen Area:

- a. Hogan Bivouac Gr GL 040 495; and
- b. Enniskillen Gr FL 983 478.

18. To facilitate movement and the establishment of admin areas the Enniskillen rd and Hogan Bivouac will always be maintained as safe areas. No RDA will incorporate either area.

CONTROL OF MOVEMENT

19. As stated when conducting rges on any of the manoeuvre boxes movement into the Enniskillen will be controlled by sentries at the barriers 38 and 42.

RANGE TRAINING SAFETY

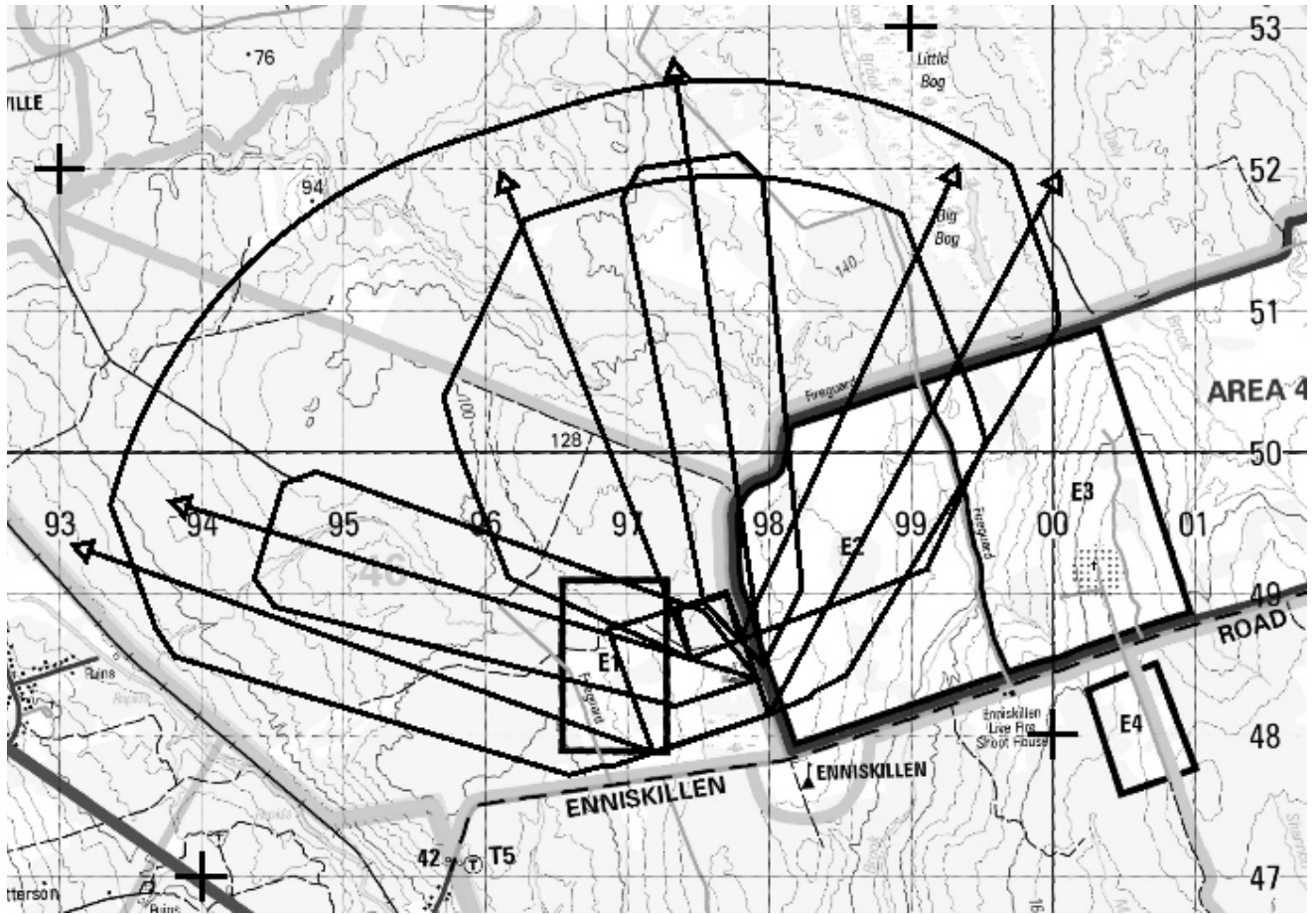
20. The following Rge Trg Safety points specific to field firing involving fire and movement should be noted:

- a. Prior to range conduct:
 - (1) All targets must be triangulated to ensure they fall within the rge arcs of fire when engaged by any participant;
 - (2) Rehearsals must be conducted with the Rge staff including tgt operators, to ensure all are aware of their responsibilities;
 - (3) Mils angle measuring sticks should be prepared and ARSOs briefed in their use; and
 - (4) Participants must be reminded of the problem of tunnel vision when employing optical sights on the C7 rifle and C9 LMG.
- b. During range conduct:
 - (1) A minimum of one ARSO should be present with each manoeuvre element, sp weapon or, if grenades are being used, with the designated grenadier when the grenade is being used; and

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- (2) Comms either visual and by radio must be maintained between fire base and manoeuvre elements.
- c. After range conduct:
- (1) Thorough debrief covering any unsafe actions; and
 - (2) Thorough sweep to ensure no ammunition, wpns or pers eqpt is left behind.
- d. Grenades: Fragmentation hand grenades can be employed on Field firing rges and therefore specific safety points must be considered. Grenades can be employed using two methods - Grenades can be thrown from blast proof cover or placed into blast proof cover provided the fol procedures are adhered to:
- (1) Only one grenade will be thrown or placed at a time;
 - (2) Enemy positions that are prepared specifically for grenade assault must be away from the DFTS;
 - (3) If grenades are to be thrown, then all participants (including safety staff) must have available, prepared or natural cover (minimum thickness 750mm and 600mm depth/high) to move into while grenade is thrown;
 - (4) If grenades are to be placed into the en obj it must be constructed to the minimum dimensions of a 2 man fire trench or blast proof bunker riveted with sandbags and inspected fol each assault and protection, as per sub-para (3), must be provided for the grenadier and ARSO; and
 - (5) Also, CFP 381 (1), Chap 8, sect 5 must be followed.

TRACE RANGE E2W
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Not to Scale

Range E2W

Section Manoeuvre Box

LBP: 97183 47874
 RBP: 98001 48141
 LFP: 96868 48739
 RFP: 97701 49006
 LOA: 5150 ROA: 0500
 OHF Gr 97920 48390 Brg 5100
 Ammo: 5.56mm, 7.62mm, C13 Grenade, BATSIM (C4), and 84mm TPT (in 84mm Manoeuvre Box only)

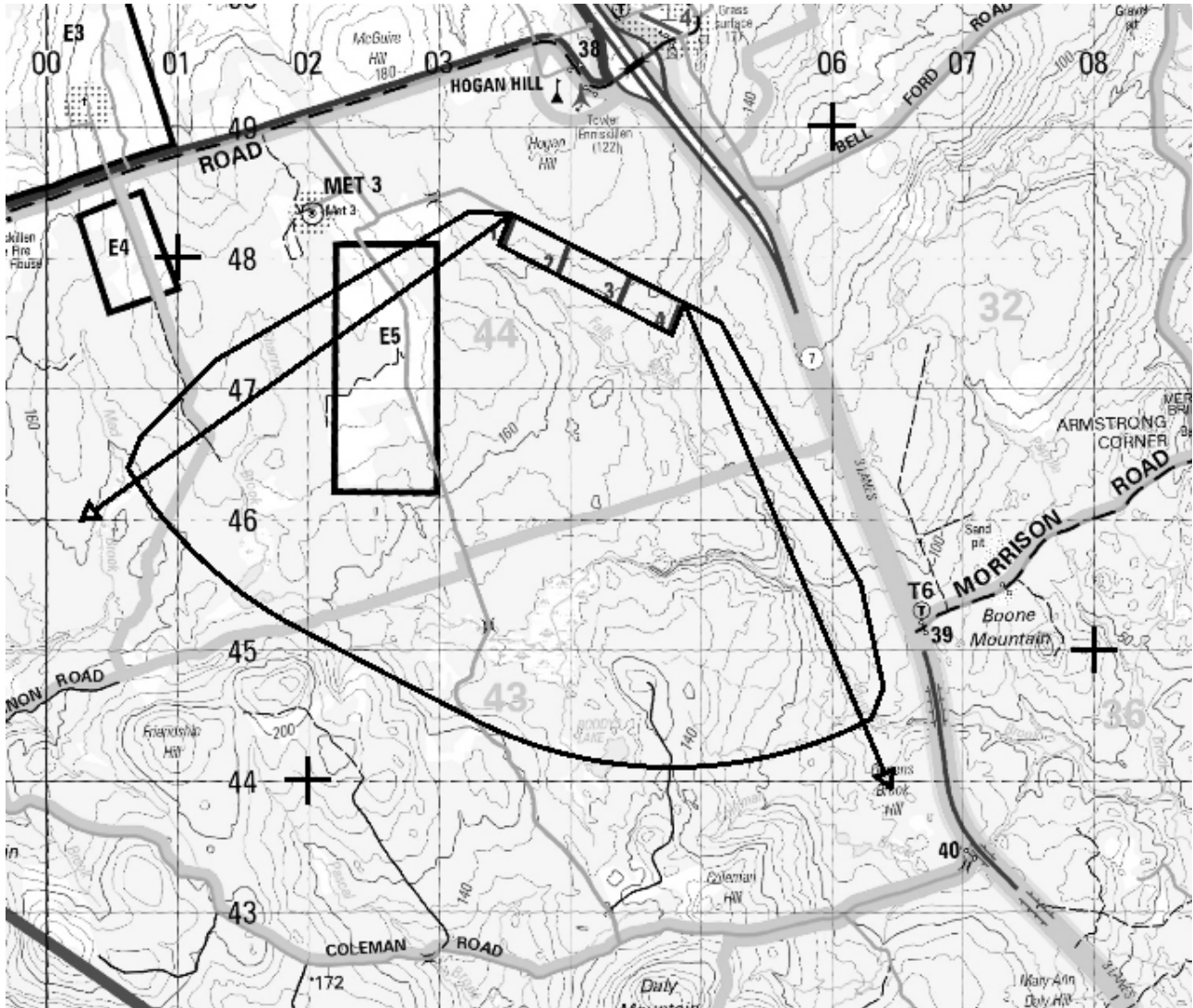
84mm Manoeuvre Box

LBP: 97450 48536
 RBP: 97794 48669
 LFP: 97357 48880
 RFP: 97701 48986
 LOA: 6021 ROA: 0438
 FFG Gr 97960 48490 Brg 6250

Book Areas 46, 47, 48 Live

U Range E2W

TRACE ENNISKILLEN CQBLs
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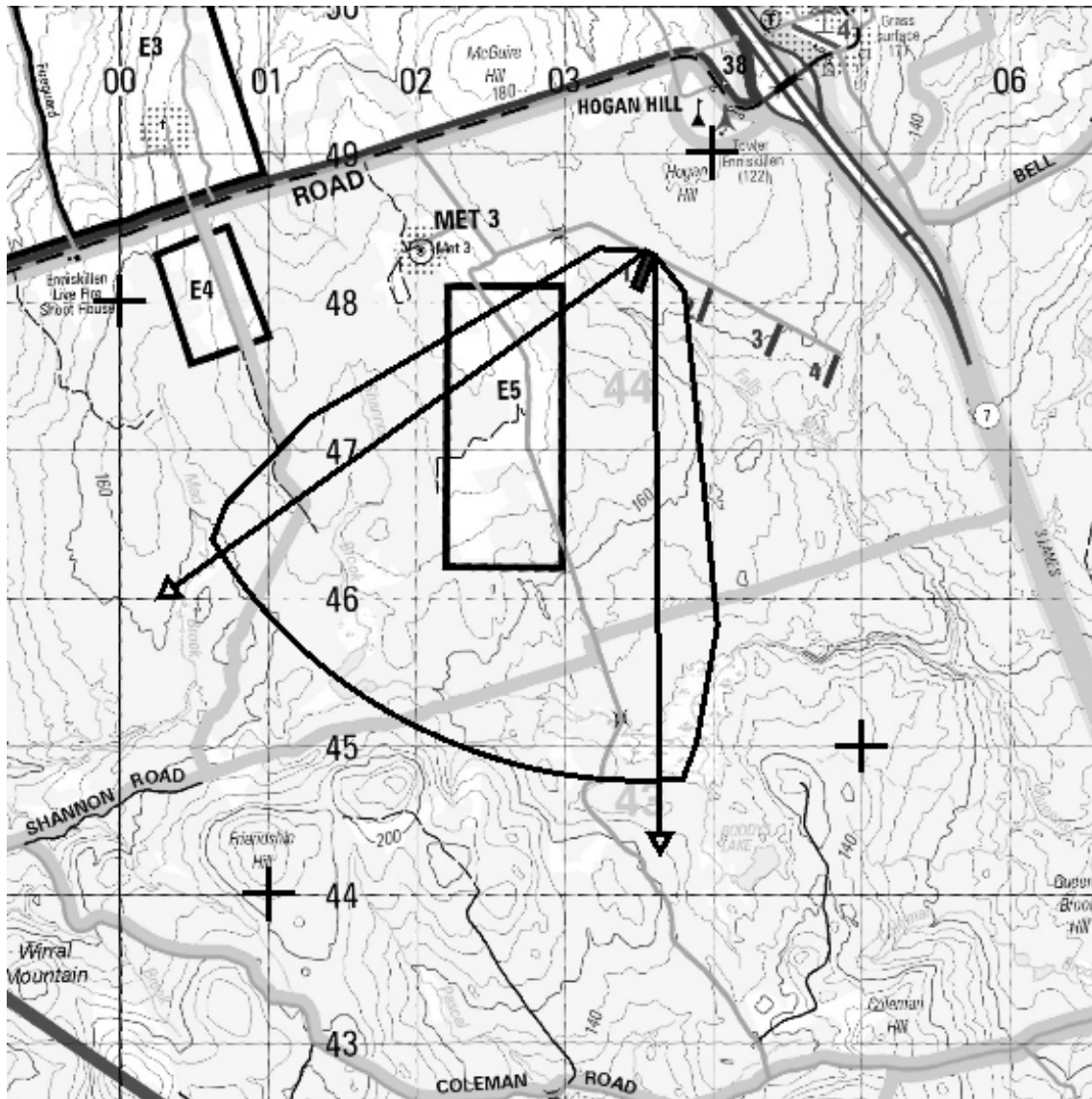
Enniskillen CQBL's

LBP: 04872 47651
RBP: 03553 48331
LFP: 04780 47409
RFP: 03457 48097
LOA: 2790
ROA: 4170
Ammo: 5.56mm Ball, 9mm

Book Areas 43, 44, 45 Live

U Enniskillen CQBL's

TRACE ENNISKILLEN CQBLs LANE 1
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Not to Scale

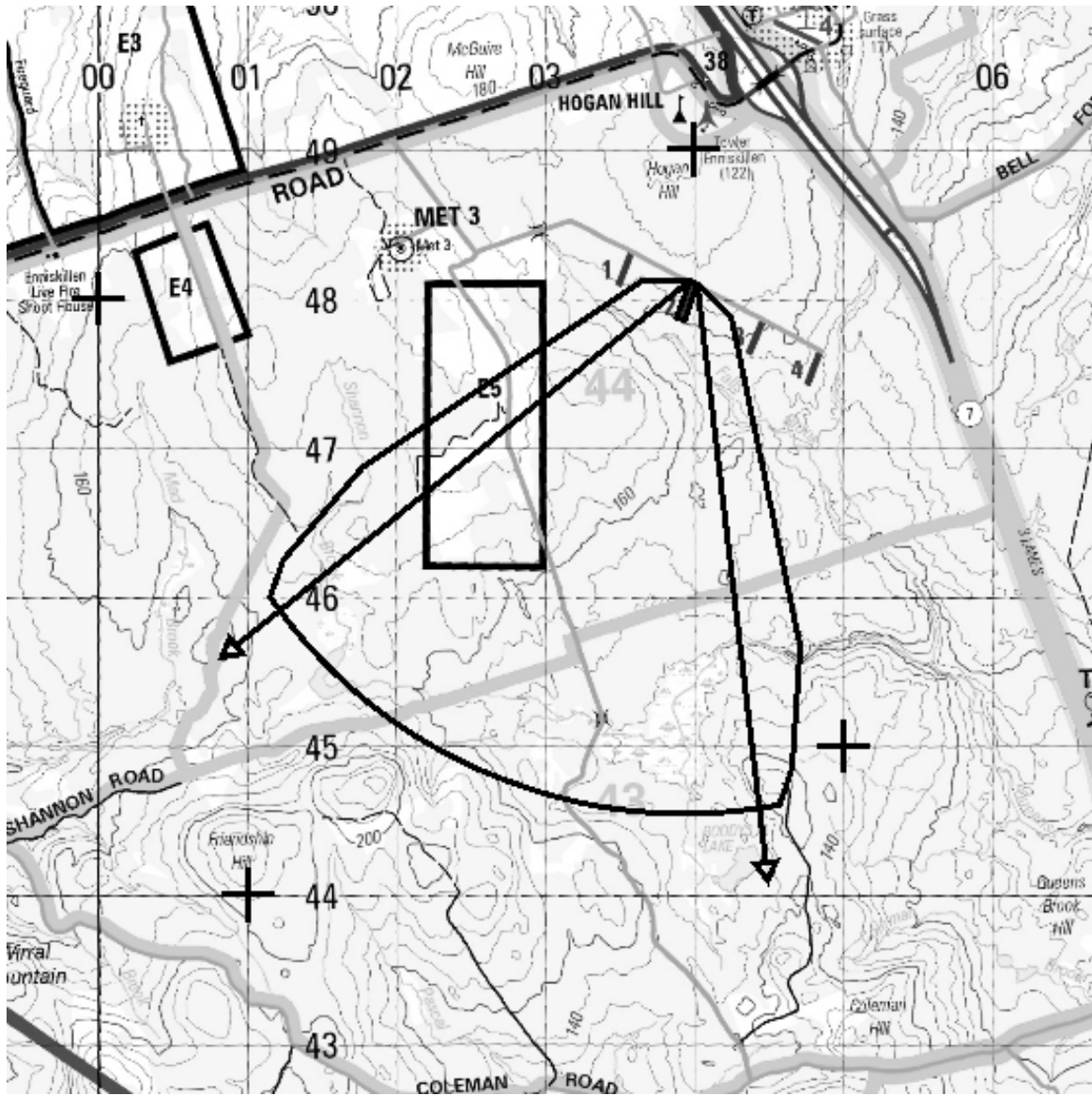
EN CQBLs Lane 1

Lane 1
LBP: 03606 48311 RBP: 03550 48336
LFP: 03516 48074 RFP: 03459 48100
LOA: 3190 mils
ROA: 4170 mils
Ammo: 5.56mm ball, 9mm

Book Areas 43, 44, 45 Live

U Enniskillen CQBLs Lane 1

TRACE ENNISKILLEN CQBLs LANE 2
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Not to Scale

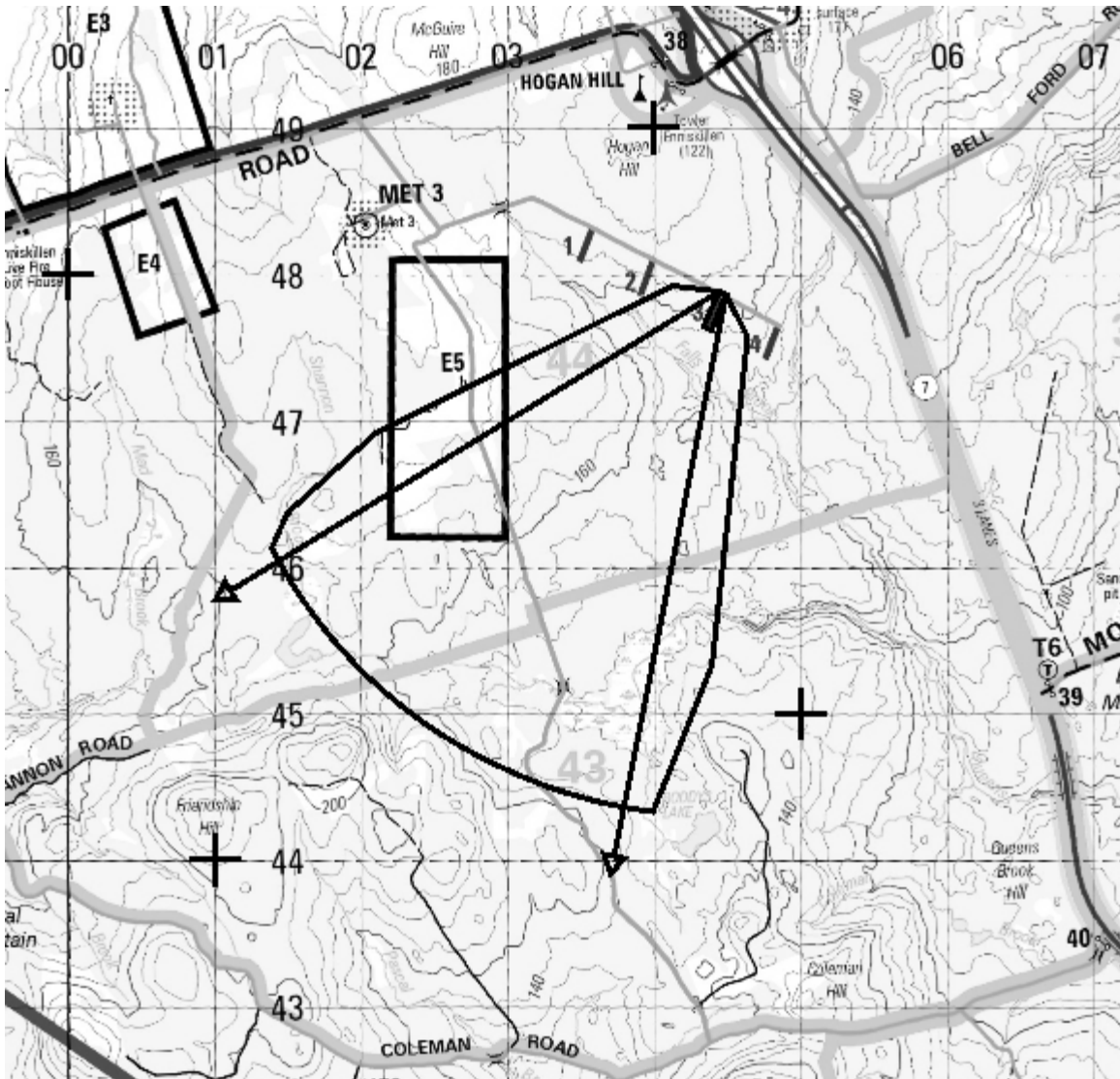
EN CQBLs Lane 2

Lane 2
LBP: 04020 48098
RBP: 03970 48121
LFP: 03936 47853
RFP: 03881 47873
LOA: 3080 mils
ROA: 4110 mils
Ammo: 5.56mm ball, 9mm

Book Areas 43, 44 Live

U Enniskillen CQBLs Lane 2

TRACE ENNISKILLEN CQBLs LANE 3
ANNEX U
VOLUME 2
CFB GAGETOWN SO - RANGE STANDING ORDERS
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Not to Scale

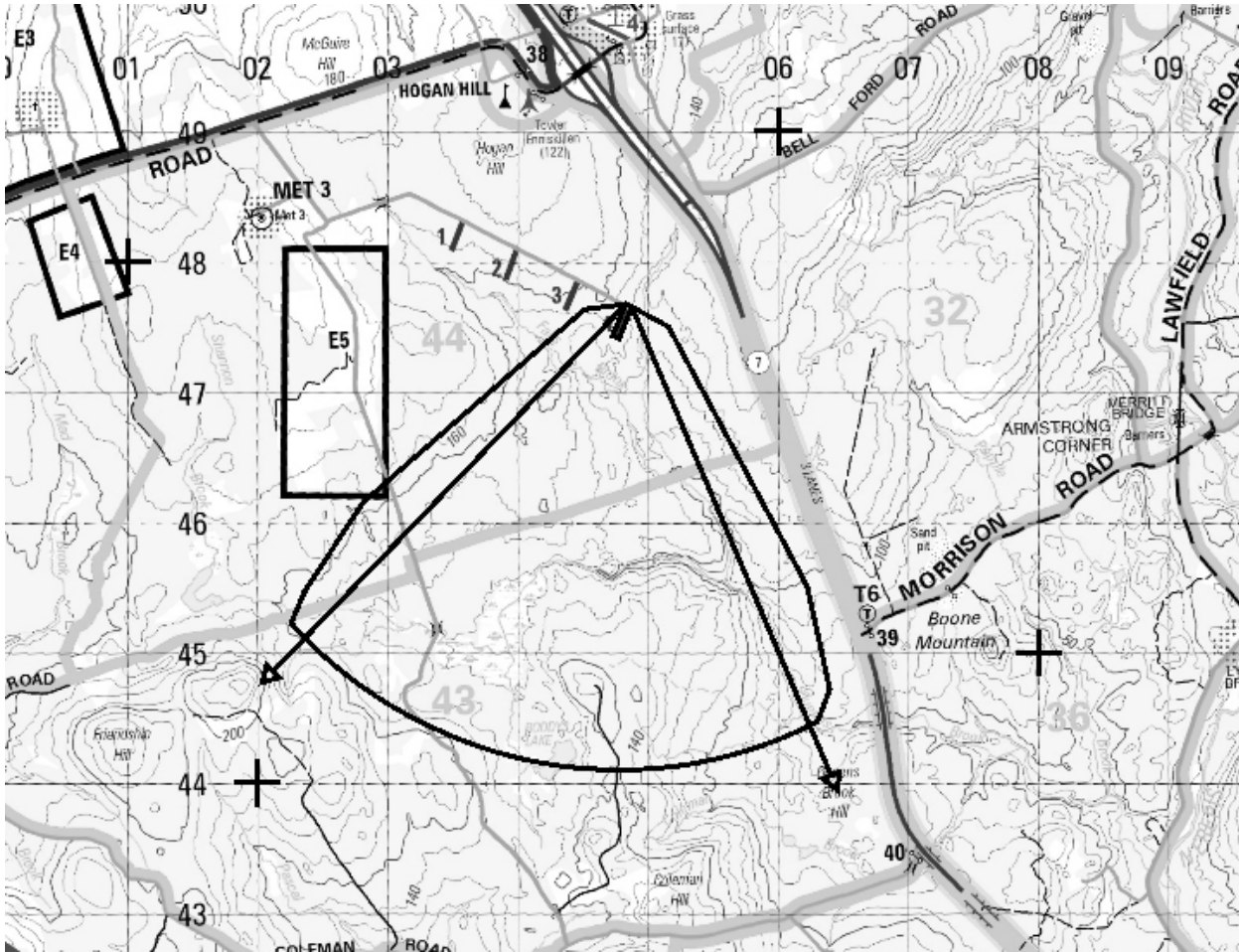
EN CQBLs Lane 3

Lane 3
LBP: 04489 47859
RBP: 04442 47882
LFP: 04390 47616
RFP: 04335 47642
LOA: 3400 mils
ROA: 4240 mils
Ammo: 5.56mm ball, 9mm

Book Areas 43, 44 Live

U Enniskillen CQBLs Lane 3

TRACE ENNISKILLEN CQBLs LANE 4
ANNEX U
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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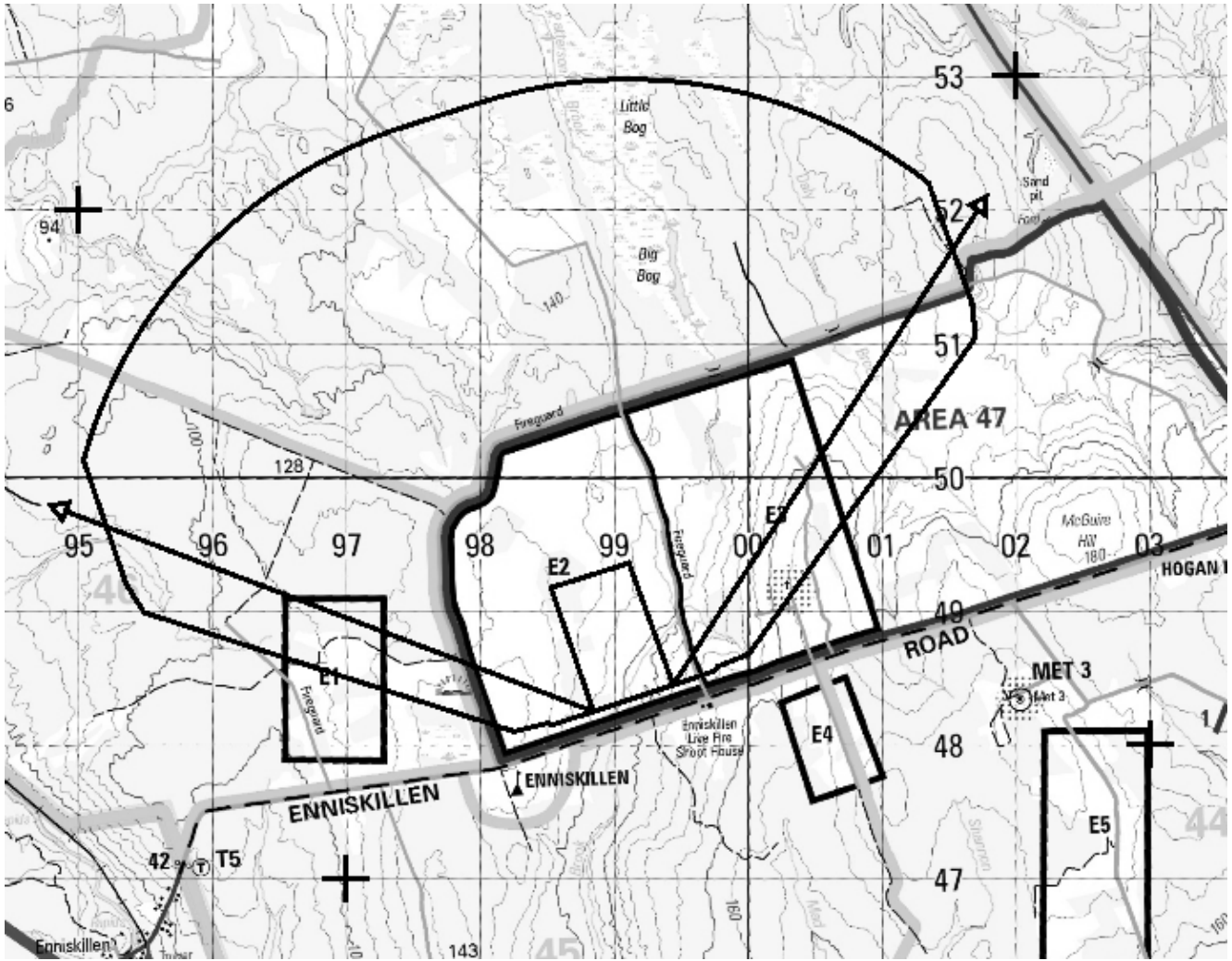
EN CQBLs Lane 4

Lane 4
LBP: 04875 47654
RBP: 04829 47676
LFP: 04779 47409
RFP: 04726 47432
LOA: 2790 mils
ROA: 3980 mils
Ammo: 5.56mm ball, 9mm

Book Areas 43, 44 Live

U Enniskillen CQBLs Lane 4

TRACE RANGE E2
ANNEX U
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5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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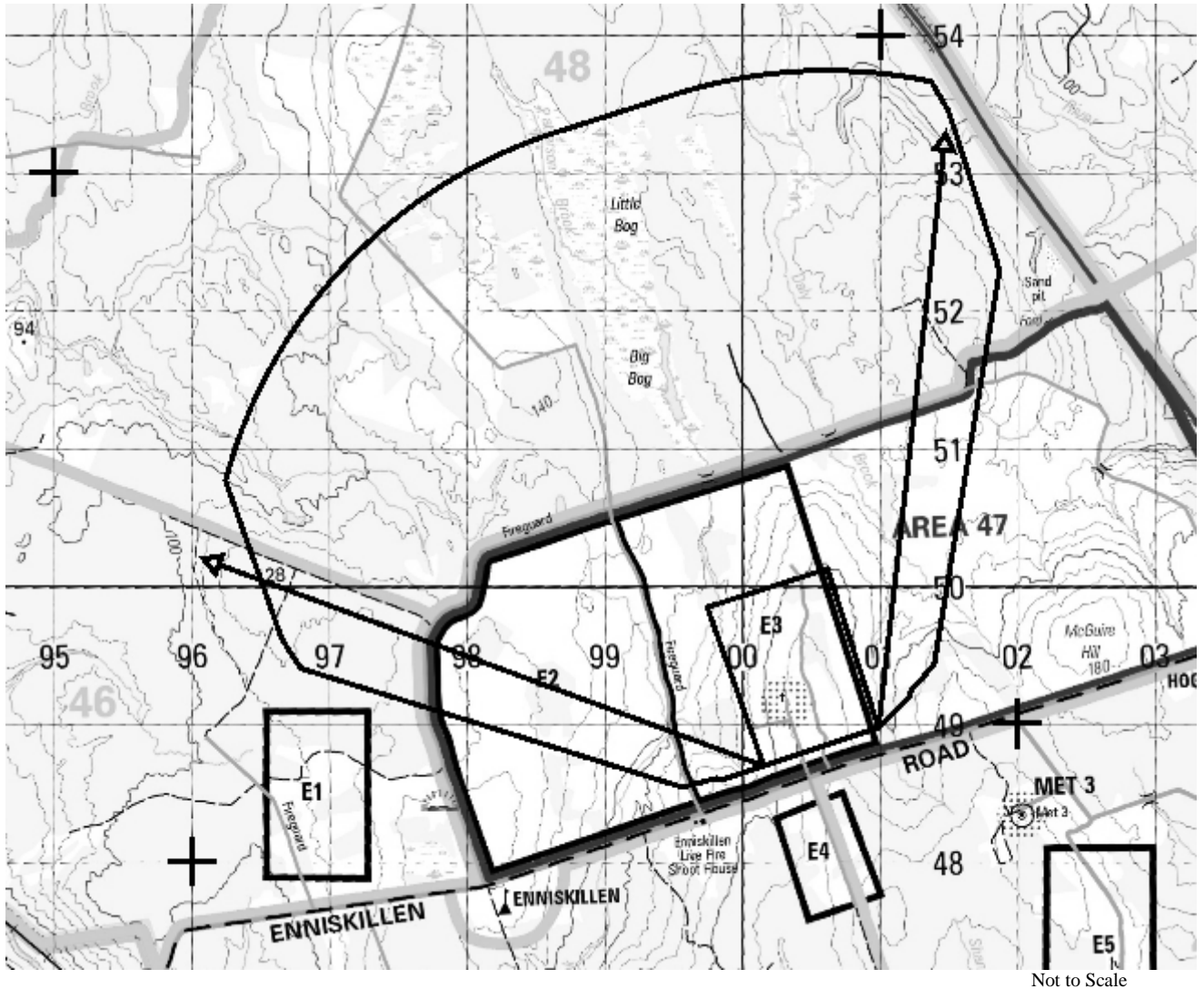
Range E2

Section Manoeuvre Box
LBP: 98846 48245
RBP: 99441 48444
LFP: 98528 49171
RFP: 99110 49356
LOA: 5170 mils
ROA: 0580 mils
Ammo: 7.62mm & 5.56mm ball/link

Book Areas 46, 47, 48 Live

U Range E2

TRACE RANGE E3
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5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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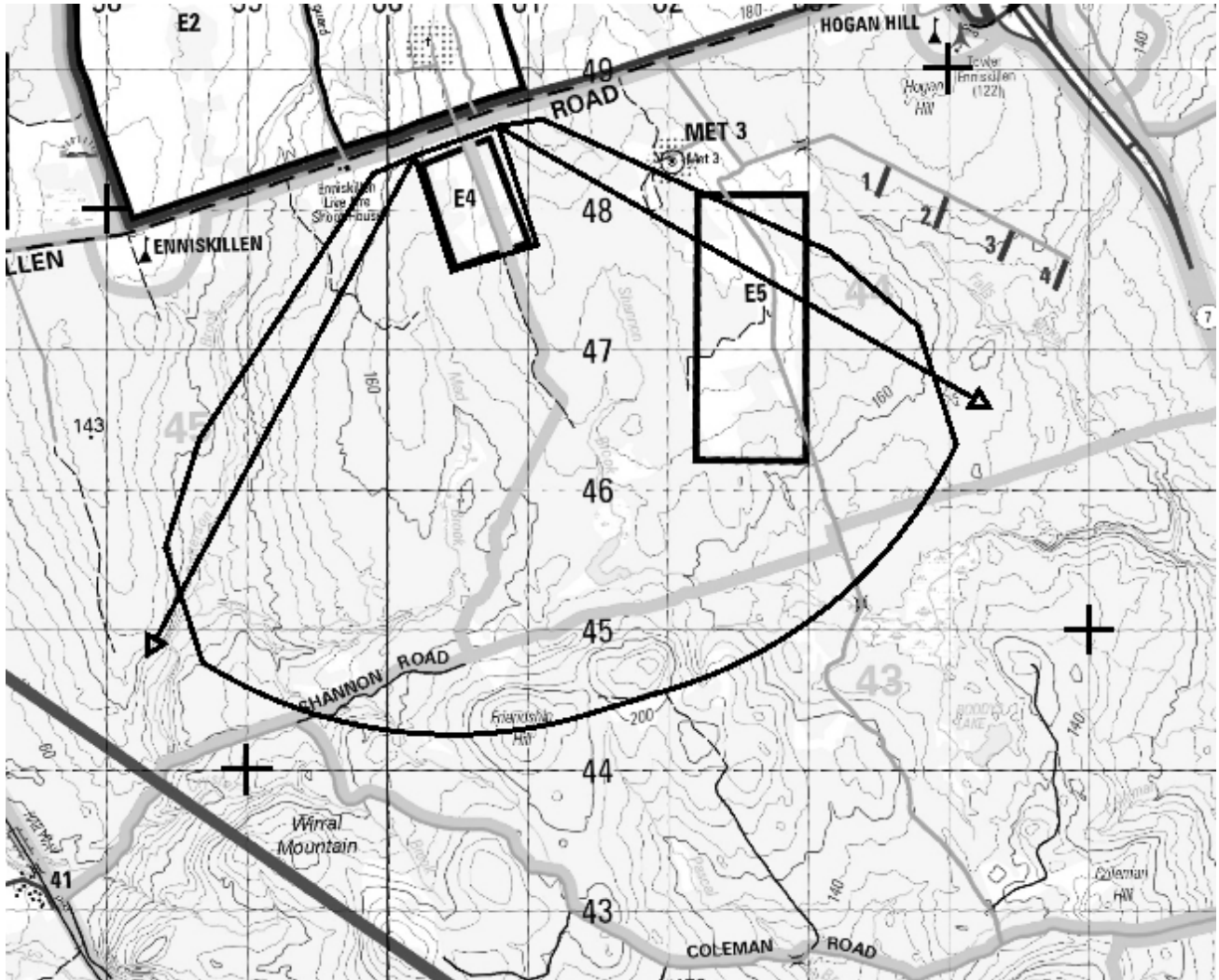
Range E3

Section Manœuvre Box
LBP: 00155 48695
RBP: 00989 48973
LFP: 99745 49846
RFP: 00618 50124
LOA: 5160 mils
ROA: 0115 mils
Ammo: 7.62mm & 5.56mm ball/link

Book Areas 46, 47, 48 Live

U Range E3

TRACE RANGE E4
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5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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Not to Scale

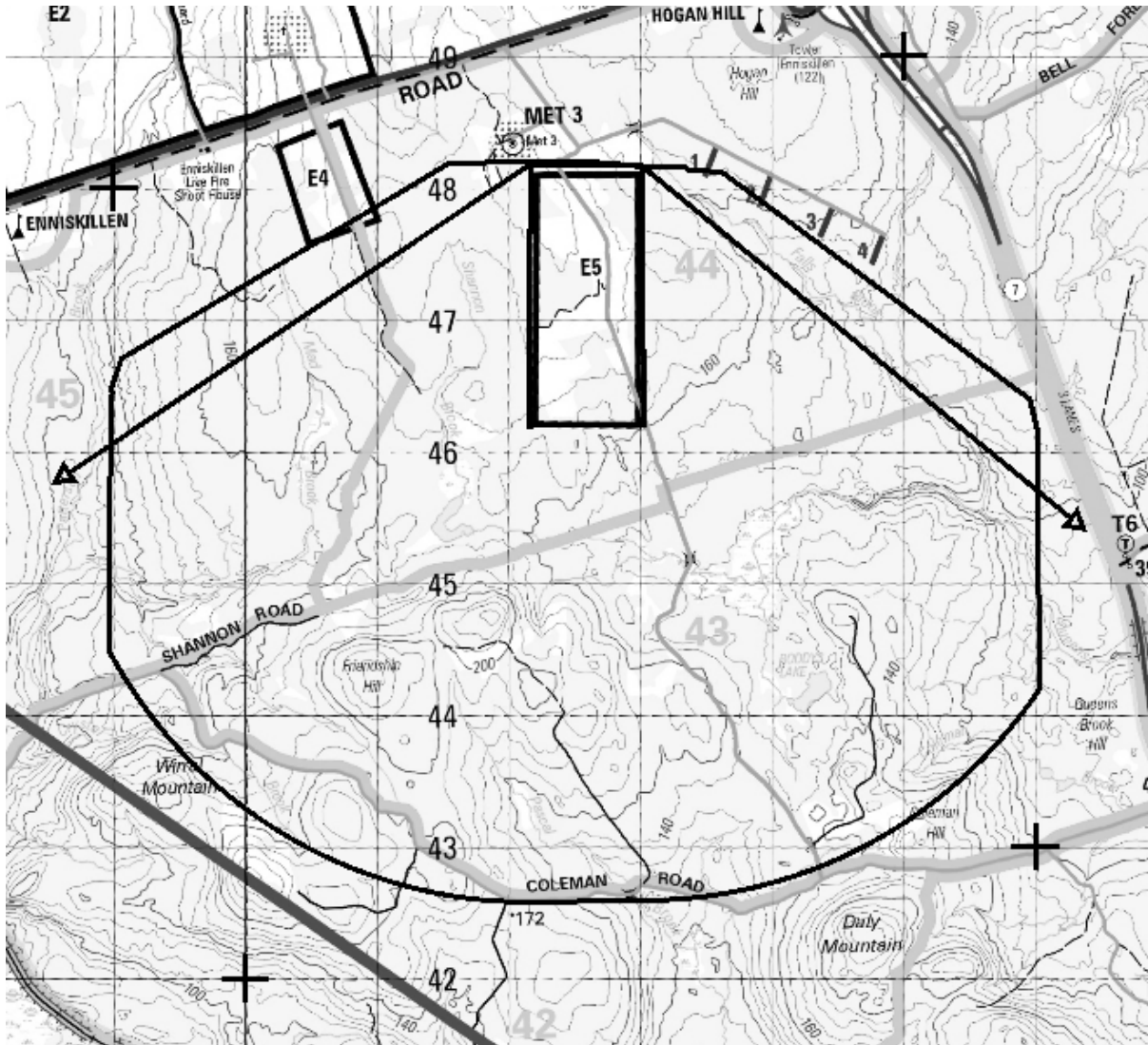
Range E4

Section Manoeuvre Box
LBP: 00790 48589
RBP: 00195 48377
LFP: 01068 47742
RFP: 00460 47557
LOA: 2130 mils
ROA: 3700 mils
Ammo: 5.56mm ball/link

Book Areas 43, 44, 45 Live

U Range E4

TRACE RANGE E5
ANNEX U
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5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
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Not to Scale

Range E5

Platoon Maneuvre Box
LBP: 03013 48166
RBP: 02166 48179
LFP: 03026 46208
RFP: 02153 46195
LOA: 2300 mils
ROA: 4200 mils
Ammo: 7.62mm & 5.56mm ball/link

Book Areas 42, 43, 44, 45 Live

U Range E5

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ENNISKILLEN PLATOON RANGES

PLATOON # 1			PLATOON # 2			PLATOON # 3		
TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS
Posn 1		SE corner woods	Posn 1			Posn 1		Open Area
001	97215 48118		051	02491 47830		101	00551 49050	
002	97169 48006	HOF	052	02472 47802		102	00495 49051	
003	97168 47998		053	02469 47723	HOF	103	00551 49090	
004	97076 48004		054	02490 47724		104	00491 49123	HOF
			055	02491 47689		105	00521 49072	SVT
Posn 2		Center of wood line	Posn 2			Posn 2		Defile
005	97083 48324		056	02623 47792		106	00457 49421	
006	97059 48322	HOF	057	02592 47800		107	00399 49411	
007	97034 48227		058	02589 47791	HOF	108	00437 49511	HOF
008	97025 48220		059	02571 47694		109	00440 49567	
			060	02574 47680		110	00398 49557	
			061	02589 47786	SVT			
Posn 3		E corner of gap	Posn 3			Posn 3		Right woodline
009	96946 48258		062	02268 47604		111	00462 49872	HOF
010	96874 48276		063	02267 47589	HOF	112	00496 49876	
011	96822 48287	HOF	064	02270 47569		113	00528 49871	
012	96800 48276		065	02245 47573		114	00549 49898	
			066	02246 47593		115	00595 49900	
						116	00592 49910	SVT
Posn 4		Center of open area	Posn 4			Posn 4		Left of gap
013	96873 48537		067	02724 47316		117	00320 49387	
014	96939 48542		068	02765 47313		118	00260 49420	HOF
015	97020 48661		069	02755 47302	HOF	119	00165 49990	

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016	96884 48641	HOF	070	02776 47289		120	00092 49980	
				02786 47285				
017	97032 48085	SVT		02755 47302	SVT			
Posn 5		NE corner of box	Posn 5			Posn 5		Left of 2 nd wood
018	97050 49002		071	02775 46971		121	00085 49866	
019	97077 49064	HOF	072	02796 46967	HOF	122	00135 49863	
020	97120 48904		073	02820 46999		123	00263 50027	HOF
021	97161 49860		074	02812 46968		124	00242 50011	
			075	02800 46634				
022	97100 48922	SVT	076	02798 46967	SVT			
Posn 6		SW end of box	Posn 6			Posn 6		Left wood line
023	96737 48090		077	02361 46801		125	00444 49929	
024	96666 48110		078	02350 46832		126	00443 49923	
025	96609 48170		079	02321 46799		127	00416 49929	HOF
026	96730 48172	HOF	080	02318 46828	HOF	128	00381 49912	
027	96635 48200	SVT	081	02316 46835		129	00452 49782	SVT
Posn 7		NW corner of gap	Posn 7			Posn 7		In woods
028	96610 48460		082	02433 46531		130	00366 49936	
029	96674 48490		083	02402 46529	HOF	131	00425 49960	
030	96742 48531	HOF	084	02384 46531		132	00463 49805	
031	96765 48472		085	02499 46498		133	00495 49803	
			086	02432 46450				
Posn 8		NE corner of box	Posn 8			Posn 8		C/Atk posn
032	96605 48480	HOF	087	02860 46647	SVT	134	00312 50235	
033	96670 48479		088	02889 46674	SVT	135	00363 50203	
034	96692 48621					136	00410 50187	HOF

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035	96701 48611					137	00476 50173	
036	96650 48521	SVT				138	00504 50161	
Posn 9		Open area				139	00388 50191	SVT
037	96731 48739	HOF				140	00507 50112	SVT
038	96708 48741							
039	96721 48810							
040	96762 48747	SVT						
041 - 050		Spares	089 - 100		Spares	141 - 150		Spares

- Note:
- (1) SIT: Static Infantry targets;
 - (2) SVT: Static Vehicle Targets;
 - (3) HOF: Hostile Fire Simulator. (Located within 8m of the tgt pit).

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5 CANADIAN DIVISION SUPPORT BASE – RANGE INSTRUCTIONS
EDITION 2017
ENNISKILLEN SECTION RANGES

SECTION# 1			SECTION # 2			SECTION # 3		
TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS
Posn 1		SE Corner of woods	Posn 1			Posn 1		1 st gap in woods
151	9790 4800		175			199	98831 48406	
152	9786 4804	HOF	176			200	98830 48285	HOF
153	9783 4806		177			201	98830 48246	
						202	98830 48248	
Posn 2		E side of woods	Posn 2			Posn 2		2 nd gap defile
154	9788 4823		178			203	98863 48536	
155	9793 4825		179			204	98832 48456	
156	9787 4828	HOF	180			205	98834 48457	HOF
Posn 3		NW Corner woods	Posn 3			Posn 3		3 rd gap in woodland
157	9781 4864		181			206	98628 48961	
158	9777 4862	HOF	182			207	98638 48946	HOF
159	9770 4860		183			208	98675 48973	
139	9780 4870	SVT						
160	9770 4836	SVT						
Posn 4		W Tip center wood	Posn 4			Posn 4		E side of woods
161	9765 4812		184			209	98904 48689	
162	9761 4811		185			210	98990 48675	
163	9759 4819	HOF	186			211	99198 48672	HOF
Posn 5		W of bunker	Posn 5			Posn 5		E side 3 rd gap
164	9774 4833		187			212	98824 48945	
165	9775 4836	HOF	188			213	98779 48929	
166	9775 4841		189			214	98805 98903	HOF
Posn 6		Center N wood line	Posn 6			Posn 6		E side wood line
167	9759 4860		190			215	98806 49200	
168	9756 4865	HOF	191			216	98874 49300	
169	9750 4858		192			217	98837 49264	
	9791 4835	Overhead bunker				218	98806 48877	SVT

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170-174		Spares	193-198		Spares	219-222		Spares
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SECTION # 4			SECTION # 5					
TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS			
Posn 1		Corner of woods	Posn 1		SE end woods			
223			247	99982 48777				
224	0052 4818		248	00012 48758				
225			249	00066 48725	HOF			
Posn 2		In woods running S	Posn 2		E side woods			
226	0069 4864		250	00062 48946				
227	0071 4837		251	00092 48923				
228			252	00120 48982	HOF			
Posn 3		Right edge of gap	Posn 3		NE corner woods			
229			253	99982 49200				
230	0056 4797		254	99976 49230	HOF			
231			255	00098 49312				
Posn 4		Edge of wood line	Posn 4		N of woods/brush			
232			256	99750 49276				
233	0086 4808		257	99725 49266				
234			258	99812 49310	HOF			
Posn 5		Gap in copses	Posn 5		Open area			
235			259	00131 49520				
236	0062 4778		260	00067 49518				
237			261	00012 49527	HOF			
			262	00072 49552	SVT			
Posn 6		Track at end of box	Posn 6		C/Atk N of box			
238			263	99781 49731				
239	0082 4766		264	99791 49801	HOF			

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240			265	99800 49991			
			266	99782 49741	SVT		
			267	00104 49241	Overhead bunker	00301 49177	Overhead bunker
241-246		Spares	268-270		Spares		

Note: (1) SIT: Static Infantry targets;
(2) SVT: Static Vehicle Targets;
(3) HOF: Hostile Fire Simulator. (Located within 8m of the tgt pit)

ENNISKILLEN IFF RANGES

IFF # 1			IFF # 2		
TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS
SP	03581 48332		SP	04001 48142	
FP	03432 48050		FP	03834 47842	
271			281		
272			282		
273			283		
274			284		
275			285		
276			286		
277			287		
278			288		
279			289		
280			290		
IFF # 3					
TGTS #	GRID	REMARKS	TGTS #	GRID	REMARKS
SP	04473 47905		SP	04879 47708	
FP	04330 47603		FP	04726 47413	
291			301		
292			302		
293			303		
294			304		
295			305		
296			306		
297			307		
298			308		
299			309		
300			310		

Note: (1) SIT: Static Infantry targets;
(2) SVT: Static Vehicle Targets;
(3) HOF: Hostile Fire Simulator. (Located within 8m of the tgt pit).

LIVE FIRE SHOOT HOUSE

LOCATION AND DESCRIPTION

1. Live Fire Shoot House (LFSH) located within the Enniskillen area at Gr 9969 4835 The LFSH is designed to allow troops qualified to PWT level 3 the opportunity to conduct Live Fire Interior Close Quarter Battle (ICQB) as well as live breaching and entry drills.

RESTRICTIONS

2. No targets will be engaged at an angle above the safety mark painted on the wall of each room.

DRESS

3. Dress is as follows: Helmets, Ballistic Eye Wear, and Fragmentation Tactical Vest (TV).

MEDICAL

4. A Medical Assistant or First Aid qualified person (Corporal or higher rank) will be in position within a safe zone of the LFSH with a designated ambulance vehicle containing a first aid kit, two litters and four blankets. When explosive breaching is being conducted a medic with ambulance IAW 381-1 will be on site.

KEYS

5. Keys are available at Range Control.

FLAGS AND LIGHTS

6. **By Day.** When the range is occupied for the purpose of firing, a red flag will be hoisted at the front gate and one will be hoisted on the corner (any corner) of the LFSH and both shall remain hoisted throughout the period the range is to be occupied for this purpose.

7. **By Night.** When the range is occupied for the purpose of night firing, then red warning lights will be turned on prior and displayed in clear view throughout the time the range is occupied.

COMMUNICATIONS

8. Communications will be kept at all times with Range Control on the Safety Net. Units will require permission to go live and will report the following:

- a. Call sign;
- b. Request permission to go live IAW DRSOs line ----;
- c. OIC (Rank, Initial, Name);
- d. Medical resources;
- e. Confirmation that an Urban Ops Instructor is on site (Name, Initial, Rank).

SAFETY PRECATIONS

9. The OIC and Range Safety Officer will be appointed in accordance with Chapter 1 and the applicable training manuals for the type of weapon used.
10. The appointment and duties of the Range Safety Officer will be in accordance with B-GL-381-001/TS-000 and the applicable training manuals for the type of weapon used.
11. All related direction included in 381-1 apply.
12. No ricochet producing debris or obstacles will be placed within the LFSH.
13. Candidates must be qualified PWT Level 3.
14. Tracer will not be used within the LFSH.
15. During night firing an instructor is required to have a flashlight for clearing of weapons.
16. No targets will be engaged above the designated safety line within each individual room.
17. All incidents involving ammunition, weapons or personnel will be reported to Range Control.
18. All personnel will wear authorized aural protection when participating in the range practices.
19. Weapons may be loaded and readied outside of the structure in the designated safe area but will not be fired until inside the LFSH.

TARGETS

20. Targets will be placed only in areas designated by the Range OIC.
21. No ricochet producing targets are to be used within the structure.
22. Tgt's to be used can be held by the unit but must be cleared through Range Control prior to use.

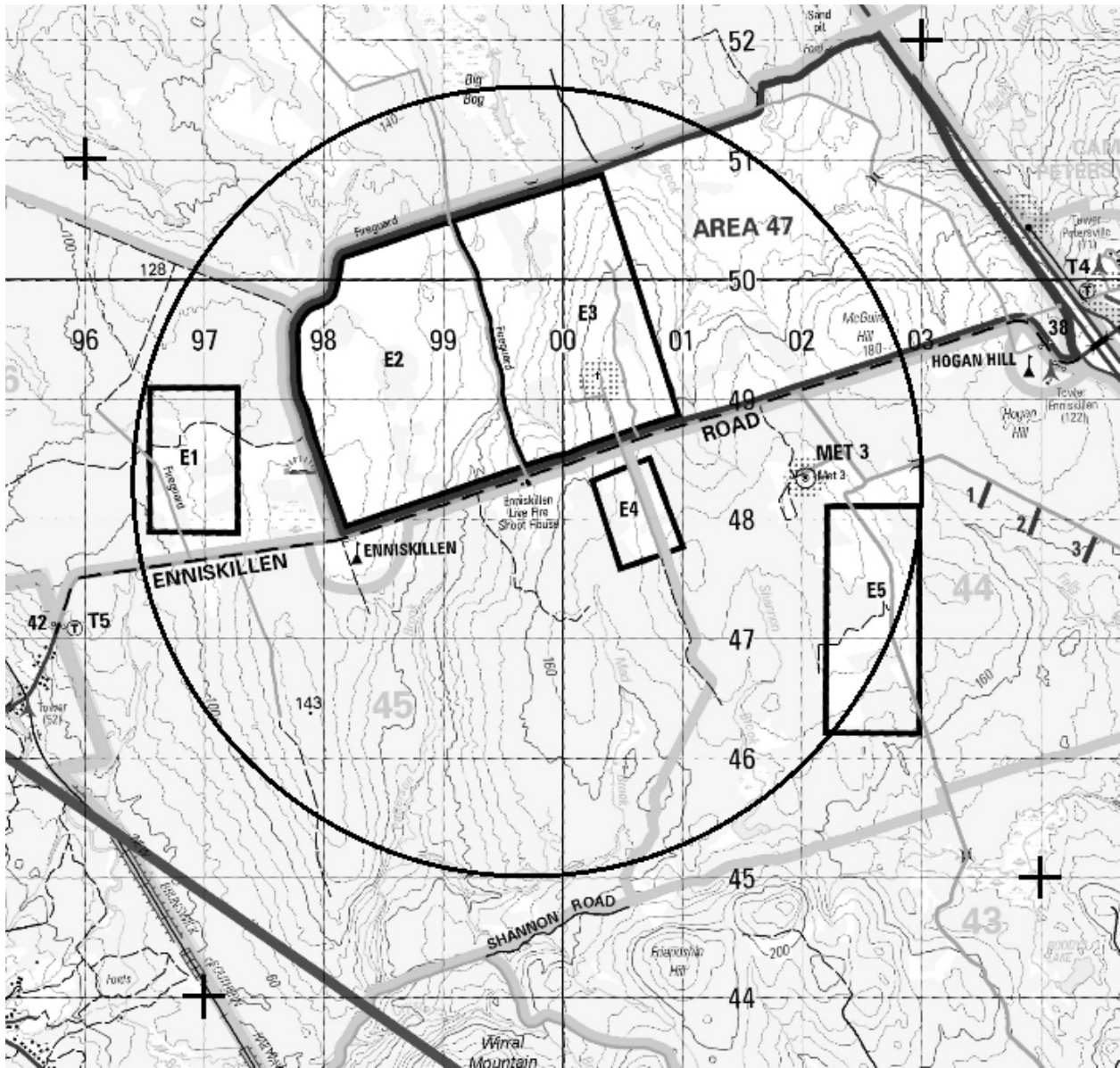
RANGE CLEARANCE

23. The LFSH will be left clean. This site will be swept, and all debris picked up. All garbage will be removed from the range. All brass will be picked up.
24. The OIC Practice will report any unsatisfactory condition on the Range Clearance Certificate and turn it into Range Control on completion of firing.
25. Range cleanliness will be inspected by Range Control at the end of the practice.

AUTHORIZED WEAPONS / AMMUNITION

26. The following weapons may be fired in the LFSH:
 - a. C-7/C8
 - b. C-9
 - c. 9mm
 - d. Shotgun Slug (Ballistic Breaching Only)

TRACE RANGE ESH
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Not to Scale

Range ESH

Enniskillen Shoot House

This trace employs a 6400mils arc of fire with a 3300m radius

Shoot House: Gr 19TFL 99704 48306

Ammo: 9mm, Shot gun slug (ballistic breaching only), 5.56mm ball

Book Areas 44, 45, 46, 47, 48 Live

U Range ESH

MARNE RIFLE GRENADE RANGE

LOCATION

1. The Marne Rifle Grenade Range is located at GR 002 768.

DESCRIPTION

2. The Marne Rifle Grenade Range consists of a control point and four firing bays for all short-range rifle fired grenade weapon systems.
3. The left of arc is 2550 mils and the right of arc is 3070 mils for all weapons.

WEAPONS

4. The following weapons are authorised to be fired on this range:
 - a. 40mm M203 Grenade Launcher; and
 - b. 40mm M79 Grenade Launcher.
5. The targets are numbered from left to right, the weapons and types of ammunition authorized to be fired at each target are as follows:
 - a. 40mm grenade HE/FRAG, C-149;
 - b. 40mm grenade HE/DP, M-433;
 - c. 40mm grenade TP M-781 (NOT AUTHORIZED);
 - d. 40mm grenade TP C-158 (NOT AUTHORIZED).

SUPERVISION

6. The OIC Practice will appoint an OIC Firing Point who will control all firing from the control tower. They will also appoint an NCO to supervise each firing position.

MEDICAL

7. First Aid personnel, of Corporal or higher rank, trained to the level described in Annex B to CFAO 9-5 (Standard First Aid Course), with a first aid kit, two litters, four blankets and a designated vehicle, will be present during range practices.

RESTRICTIONS

8. A minimum of 6 metres will be enforced between each firing position.
9. Cross lane firing is prohibited.
10. Firing not permitted where local ground level winds exceed 35 knots.
11. High collar fragmentation vest and ballistics eye wear must be worn when firing at targets between 30 and

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165 metres.

12. All firing will take place so that the weapon template is completely within the range danger template shown at Map 1 to this Annex.
13. All grenades must impact within 450 metres from the firing point.
14. Absolutely no snow removal forward of the firing points.
15. When the ground is covered with 12 inches or more of snow - absolutely no firing of the M433. The OIC will monitor the dud rate of the C149 and CEASE FIRE when three duds have occurred. The unit will contact Range Control for direction.

FLAGS/LIGHTS

16. A red flag/light will be flown at the entrance road at GR 005 778 (Barrier 4) at all times while firing is taking place.
17. A red or green flag/light will be flown at the control point while firing is taking place.
18. Flags/lights and keys for barriers and troop shelters will be drawn from Range Control, Bldg K-69.

TARGETS

19. Targets are propositioned on the range, addition and deletion of targets will not take place without permission from Range Control.

SENTRIES

20. A sentry will be positioned at Barrier #4 at the entrance to the range. He will have and maintain radio or telephone communications to control point.

COMMUNICATIONS

21. Users will be working out of stations on the Range Control Safety Net.

SAFETY PRECAUTIONS

22. Ammunition will be stored in a designated ammunition point provided to the rear of the firing points. Ammunition will be guarded at all times.
23. All personnel will remain outside the danger area during firing.
24. An officer or NCO who is qualified in the use of the weapon will supervise each launcher.
25. No launcher will be removed from and no one shall approach or leave the firing position without permission from the officer in charge.
26. All loading, unloading and inspection of ammunition will be carried out in correct firing positions.
27. The muzzle of the launcher **must** not be lowered immediately after firing so as to cause the grenade to impact too close to the firer.

28. Steel helmets will be worn with ear plug type aural protectors when firing.
29. **No personnel shall go forward of the firing point** except with permission of Range Control.
30. All personnel on the firing point will be behind the appropriate cover, i.e., if standing, all personnel will be within the confines of the standing parapet.

BLINDS AND MISFIRES

31. If a misfire occurs, Range Control will be informed and disposal instructions requested.
32. Blinds/duds will be reported on the Range Clearance Certificate. Users are not to enter the target area to mark blinds.
33. When three (3) successive blinds/duds within one lot or a total of five (5) duds or misfires occur, the practice will be stopped and Range Control informed.

FIRES

34. Fires within target area are to be reported to Range Control. No attempt to fight fires will be made without the authority of Range Control.

RANGE CLEANLINESS

35. On completion of range usage, the area will be left clean. The building will be swept. All paper and refuse will be placed in the proper containers or removed from the range.
36. When leaving the range, all barriers will be locked.

RANGE CLEARANCE CERTIFICATE

37. The OIC Practice will report any unsatisfactory condition on a Range Clearance Certificate and submit it to Range Control on completion of firing and prior to closing down on the Range Control Net.
38. The Range will be inspected for cleanliness by Range Control the day following the range practice or immediately on completion of firing in the presence of the user if so requested. Range Control must be given a forty-five minute notice for inspection.

CAMP PETERSVILLE, AMY TANK PARK & WORTHINGTON TANK PARK

GENERAL

1. The primary purpose of Camp Petersville (PV), Amy Tank Park (ATP), and Worthington Tank Park (WTP) is to provide administrative field accommodations, kitchen facilities, and an “A” echelon support system for all courses and collective training exercises in 5 Canadian Division Support Base Training Area. The establishment of a field camp at PV is authorized by Commander 5 Canadian Division Support Group and is operationally controlled by the CO Ops Svcs Br. Under no circumstance will these facilities be employed as tactical positions. No blank ammunitions, pyrotechnics of any sorts will be used within the limits of PV, ATP. And WTP.

RESOURCES

2. The following austere facilities are available at PV, ATP, and WTP:

- a. Bed Space for approximately 350;
- b. Tented/Bivouac site areas approximately 650;
- c. Limited shower and ablution facilities;
- d. POL point;
- e. Kitchen facilities (booked through G1 Food Services);
- f. Classrooms;
- g. Telephone and LAN drops;
- h. Airfield;
- i. Maintenance shelters;
- j. TDM; and
- k. Parking areas.

BOOKING

3. 5 Canadian Division Support Base Units will book their required facilities on the spreadsheet located on the L drive in accordance with timelines detailed in Chapter 1 Section 6 Para 1.601 Table 1-5. External units will submit request using the Range and Training Area Request form Annex H. Kitchen and dining facilities must be booked separately through G1 Food Services.

RESPONSIBILITIES

4. The G3 Coord Ops Svcs Br is responsible:

- a. Operational level planning of infrastructure development;
- b. Initial point of contact for visiting units requesting support through PV, ATP, and WTP; and
- c. Establish resource allocation priorities.

OPERATION

5. The RCO is responsible for the daily operational effectiveness and allocation of resources for PV, ATP, and WTP. Range Control will maintain the following resources:

- a. Administrative facility staffed from Monday to Friday from 0730 to 1600 hrs;
- b. Emergency medical recovery resources on a 24/7 basis when required; and
- c. POL point.

CAMP CUSTODIAN

6. The Camp Sergeant-Major is responsible for the daily operations of PV, ATP, and WTP and is responsible for the following:

- a. Staffing tactical level infrastructure improvements to RCO;
- b. Site maintenance requirements ;
- c. Conduct inspection of facilities to ensure that they are being utilized as per RSOs;
- d. March In/Out all users units of PV, ATP, and WTP as per booking authority;
- e. Coordinate PV, ATP, and WTP infrastructure maintenance; and
- f. Oversee ambulance vehicle maintenance.
- g. Operate POL point.

OUT OF BOUND AREAS

7. The following areas are **out of bounds**:
 - a. 5 Canadian Division Support Base staff facilities;
 - b. Sewage Lagoon; and
 - c. Airfield.

RESTRICTIONS

8. The following restrictions apply:
 - a. Vehicles will only be parked in authorized parking areas coordinated through Camp Sergeant-Major;
 - b. No vehicles will be parked within 6 m of any buildings;
 - c. AFV CPs, may be remoted into a camp building to support training;
 - d. Wheeled vehicles carrying dangerous goods (ammunition, POL, etc) are not permitted into PV except when authorized by the Camp Sergeant-Major to affect resupply;
 - e. Parking of administrative vehicles within Camp PV must be obtained from Camp Sergeant-Major;
 - f. No roads or areas may be closed off without prior authority from Camp Sergeant-Major;
 - g. Vehicles will not be washed in Camp PV, ATP, and WTP without prior approval from Env O through Camp Sergeant-Major;
 - h. Alcohol consumption in accordance with Section 4 para 1.413;

COMMUNICATIONS

9. Telephones and LAN drops have been installed in the PV HQ bldg, PC 43 and PC 44. Units requiring access to telephone lines or LAN drops for routine business must make arrangements for additional drops through the G6.

TENTED AREAS

10. Bivouac sites must be booked through Range Control as per para 3. The user is responsible for all aspect of site set up and tear down including submitting request to the proper agencies for portable toilets, electricity, fire pickets/smoke detectors, hygiene, environmental compliance, sanitation, etc. The proper inspections in accordance with RSOs must be coordinated through the Camp Sergeant-Major.

MEDICAL

11. Range Control is responsible for emergency medical recovery within the RTA. Units are responsible to ensure their own medical requirements in accordance with 381-1. Units may also coordinate additional medical resources such as sick parade through the 42 Health Services.

CHEMICAL TOILETS AND GARBAGE BINS

12. Units are responsible for coordinating their requirements for chemical toilets and garbage bins through CE Branch at local 2677.

CANTEEN

13. Units must obtain permission from CO Ops Svcs Br info Range Control, before establishing canteen facilities.

WEAPONS SECURITY

14. Weapons security is a units' responsibility.

POL

15. Users are responsible for the storage of their POL products in accordance with SO 5-11. 5 Canadian Division Support Base will maintain access to the POL pumps in accordance with Appendix 1.

HAZMAT SPILL RESPONSE

16. Hazmat spill response is a unit responsibility, in the event of a spill 5 Canadian Division Support Base SOPs are to be adhered to.

WASTE POL AND RECYCLING

17. To ensure that the environment is properly protected waste POL and recycling facilities have been established in ATP and WTP. These include metal and glycol recycling; waste POL containers, waste storage sheds, secondary containment pallets, and horizontal barrel holders. Users are to coordinate the maintenance and emptying of these facilities with the Camp Sergeant-Major. SO 5-11 are to be enforced at all times. Weekly inspections will take place by Range Control PV staff.

AMMUNITION

18. Ammunition and pyrotechnics will not be brought into Camp PV. Rather all ammunition and pyrotechnics must be properly stored in the TDM, as requested through ASA info Camp Sergeant-Major.

FIRE ORDERS

19. All users must read and obey the posted PV fire orders.

ACCIDENTS

20. Range Control through the Camp Sergeant-Major must be advised of all vehicle accidents and personnel injuries that occur within the confines of PV, ATP, and WTP. Medical and accident investigation support must be requested through Range Control PV staff.

CAMP PETERSVILLE (PV) POL POINT

1. Range Control PV staff and Supply Company will operate a 24/7 Diesel and a ME gas pump at the ATP. These pumps will support, on a users pay basis, units and course training in Petersville and the surrounding training area.
2. The following SOP defines the procedures and responsibilities for the access of POL:
 - a. PV main gate Commissionaires:
 - (1) will ensure that the keys to the pumps are available on a 24/7 basis;
 - (2) that unit convoy sheets are available for all users;
 - (3) issue keys and convoy sheets to drivers and or unit;
 - (4) confirm meter reading after fuel issue to ensure accuracy; and
 - (5) completed convoy sheets turned into Range Control PV Staff.
 - b. Range Control PV Support Staff:
 - (1) conduct and maintain records of daily dips for both tanks;
 - (2) confirm daily accuracy of meters readings with commissionaire;
 - (3) gather convoy sheets and submit to Sup Coy Sect as required. It should be noted that the convoy sheets must be done in a legible fashion as to avoid financial errors; and
 - (4) staff resupply requirements through Sup Coy.
 - c. Supply Coy:
 - (1) ensure the resupply of fuel when requested by the Range Control PV Support Staff;
 - (2) assume initial cost of fuels received from contractor; and
 - (3) Sup Coy POL Sect will compile usage reports for the PV convoy sheets and submit to the Sup Coy Financial Mgt Cell for cost recovery from the users units.

GRONINGEN URBAN OPERATIONS TRAINING SITE (UOTS)

Note: 26. The UOTS site is scheduled for instrumentation throughout the summer/fall of 2018. Once complete, RSO's will be amended to reflect the new equipment and EXCON building scope of use.

GENERAL

1. This annex in conjunction with CFP 381-1 contains all details necessary to conduct training within the Urban Operation Village. Unit COs are responsible to ensure those assigned to run the range practice are qualified to oversee each aspect of the practice. The Urban Operation Village must be booked through Range Control and appear within DRSOs.

LOCATION AND DESCRIPTION

2. The Urban Operations Village consists of a series of pads of various sizes, which are built to represent a portion of the village. The infrastructures themselves are designed from either Sea Can or permanent material representing buildings of various sizes and shapes. The location or footprint of the village is located at the junction of Area 14/13 at the corner of McCulton Road and Mallory Road at Grid 092 580.

RESTRICTIONS

3. The village is designed for both mounted and dismounted operations; however the mounted operations are restricted to the areas marked by signs indicating such activities.
4. No dud producing munitions authorized.
5. Rappelling is authorized when a qualified instructor is on site (MOI/RM).
6. Explosive breaching will only be authorized when appropriate breaching doors are installed.
7. Units will not deploy furniture, derelict vehicles or junk of any sort without prior approval from Range Control.
8. Glass windows will not be installed without authority from Range Control.
9. Users are not authorized to modify any of the infrastructures; recommendations on improvements or modifications can be staffed thru Range Control.

DRESS

10. Dress for live fire is as follows: Helmets, LBV, Ballistic Eye Wear, Fragmentation Tactical Vest (with plates) and Proper protective Gloves. Anyone within the safety zones will wear protective equipment. OIC exercise may dictate a variance in the dress depending on the activities taking place.

MEDICAL

11. A minimum of a First Aider on site with safety vehicle. Advanced training (explosive/live) will require a higher level of medical requirement such as Box Amb and Medic. Training Safety and RSOs will dictate.

KEYS

12. Keys are available at Range Control.

FLAGS AND LIGHTS

13. **By Day.** When the range is occupied for the purpose of firing, a red flag will be hoisted at the three entrance points/flags locations.

14. **By Night.** When the range is occupied for the purpose of night firing, the red warning lights will be turned on and displayed in clear view throughout the time the range is occupied at all three gates/flag locations.

SENTRIES

15. When live fire is taking place sentries will be posted at the entrance to the site when gates are open. Units may lock gates when sentries are not available.

COMMUNICATIONS

16. Communications will be kept at all times with Range Control on the Safety Net. Units will require permission to go live/join net and will report the following:

- a. call sign;
- b. request permission to go live / join net IAW DRSOs line ----;
- c. OIC (Rank Initial, Name); and
- d. medical resources.

SAFETY PRECAUTIONS

17. The appointment and duties of the OIC are in accordance with applicable training manuals.

18. All related instructions included in CFP 381-1 apply.

19. If firing must stop temporarily during the practice, weapons will immediately be made safe and the green flag hoisted. Participants will remain in location until further instructions are received from the OIC exercise.

20. All incidents will immediately get reported to Range Control if the incident involves munitions or weapons; the appropriate staff work will commence in accordance with this SOP.

TARGETS

21. Target request must be coordinated thru Range Control.

RANGE CLEARANCE

22. The unit will ensure that the site is left clean. All infrastructures used will be swept of debris and all pyrotechnics and spent ammunitions will be picked up. Garbage will be removed from the village.

23. Units will be marched into and out of the village. Range Control will provide a patrol person to complete these inspections; however, forty-five minutes notice must be given to Range Control with the intention of avoiding delays.

24. The OIC exercise will report any unsatisfactory condition within the village on the Range Clearance Certificate and return it to Range Control for appropriate action.

AUTHORIZED WEAPONS / AMMUNITION

25. The following are authorized weapons / ammunition:

- a. Sim/Frangible Munitions;

- b. Pyrotechnics; and
- c. Blanks.

INSTRUMENTATION UPDATE

26. Groningen Village will be fully instrumented / digitized by September 2019. It will provide excellent simulation of in urban training venue up where Section / Platoon and up to Company/Cbt Team can train using enhanced WES gear and high fidelity tracking. Additionally, peripherals can be used during the exercise which include equipment such as pop-up targets, improvised explosive devices (IEDs), trackable grenades with flash/bang effects and smoke and odour generators. All this equipment is controlled and monitored via EXCON. The entire live exercise including fire fights, hits, misses and explosive effects will be able to be viewed in real time in a 3D environment or reviewed as part of the after action review process.

COURCELETTE URBAN OPERATION INDIVIDUAL TRAINING SITE

GENERAL

1. This annex, in conjunction with CFP 381- (1), contains all the details necessary to conduct training within the Courcelette Urban Operations Individual Training Site (UO Site).

LOCATION AND DESCRIPTION

2. The UO Site is located in Area 2 at Grid NE ¼ of 00/78. It consists of the following stands:

- a. UOT 1 - Simulated Underground Trainer;
- b. UOT 2 - Clearance Techniques;
- c. UOT 3 - Urban Defence Layout Area and storage Bldg;
- d. UOT 4 - Destiny Doorway (A);
- e. UOT 5 - Destiny Doorway (B);
- f. UOT 6 - Vault and Fight;
- g. UOT 7 - Dodge City (A);
- h. UOT 8- Dodge City (B)
- i. UOT 9 - Molotov Cocktail;

3. Unit COs are responsible to ensure that those assigned to run the range practice are qualified as Urban Operation Instructor. The UO Site must be booked through Range Control and appear in DRSOs.

RESTRICTION

4. No mounted tactics are authorized within the UO Site.

5. An RSO/OIC will be appointed as overall controller and will assign one OPI per stand. Personnel will be briefed on safety precautions before the commencement of any activities.

6. Vehicles will be parked in designated parking areas only.

7. The danger area of some weapons being fired outside of individual stands may encompass other stands; therefore, personnel **will not** enter the UO Site or move from stand to stand without authorization of the RSO. All personnel inside of the applied template must wear protective equipment.

8. The danger area of each individual stand will depend on where the firing will take place, i.e.: if all firing takes place inside an enclosed stand then a zero templated trace will be applied; therefore, those on the outside do not require protective equipment.

MEDICAL

9. A Medical Technician with ambulance or a First Aid Qualified person (Corporal or higher rank) will be positioned at the entrance to the range with a designated ambulance vehicle containing a first aid kit, two litters and four blankets. All medical recovery must go through Range Control. When a unit deploys its own medical resources, they must inform Range Control.
10. Burn kit and first aid supplies must be signed for through Range Control when signing for the Keys to the Range.

FLAGS/LIGHTS

11. The following flags/lights will be raised prior to firing:
 - a. Main Entrance Flag. A red flag will be raised/lowered by user units.
 - b. At each live stand. Red or green flag/lights will be flown at the stand when live activities are ongoing.

COMMUNICATIONS

12. Communications will be kept at all times with Range Control on safety net. Units will require permission to go live and will report the following:
 - a. call sign;
 - b. request permission to go live;
 - c. IAW with DRSOs line-----; and
 - d. OIC (Rank, Initial, Name).

SAFETY PRECAUTIONS

13. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the types of weapons or activities being used.
14. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the types of weapons being used.
15. All related direction included in CFP 381(1) apply.
16. If firing must stop temporarily during a practice, weapons will immediately be made safe and the green flag hoisted. Firers will remain in location until further instructions are received from the OIC exercise.
17. All incidents involving ammunition, weapons, or personnel will be reported to Range Control and appropriate staff work will commence in accordance with RSOs.
18. Firing will cease when an aircraft approaches the area.
19. All personnel will wear appropriate safety equipment and aural protection when required.

RANGE CLEARANCE

20. The UO Site will be left clean. All infrastructures used will be swept of debris and all pyrotechnics and spent ammunitions will be picked up. All garbage will be removed from the range.

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21. Units will be marched into and out of the UO site. Range Control will provide a patrolman to complete these inspections; however, a forty-five minutes notice of inspection must be given to Range Control with the intention of avoiding delays.

22. THE OIC exercise will report any unsatisfactory conditions on the range clearance certificate and return it to Range Control on completion of the exercise.

MOLOTOV COCKTAIL SITE

LOCATION AND DESCRIPTION

1. The Molotov Cocktail Site is located in Area 2 within the parameters of the Courcelette Urban Operation Individual Training Site (UO Site). This Molotov Cocktail site is designed to allow troops to experience the effects of preparing and throwing a Molotov Cocktail. When this facility is used it will be considered live training.

RESTRICTION

2. Vehicles will only be parked at designated parking areas.
3. All POL products will be controlled and remain in designated areas.
4. No smoking within the Molotov Cocktail Site.
5. When conducting Crowd Confrontation Operations Molotov cocktail inoculation, the OIC/RSO must be the rank of Sergeant or above and a qualified Crowd Confrontation Operations Instructor (CCOI). These activities will be conducted in accordance with regulation contained in 381-1 Training Safety and the CCOI TP and Lesson Plans.
6. The exercise area must meet all environmental regulations.

MEDICAL

7. A Medical Assistant or a First Aid Qualified person (Corporal or higher rank) will be position at the entrance to the range with a designated ambulance vehicle containing a first aid kit, two litters and four blankets.
8. A qualified Medical Assistant is required when conducting CCO Molotov cocktail inoculation.
9. All medical recovery must go through Range Control. When a unit deploys its own medical resources they must notify Range Control.

FLAGS/LIGHTS

10. The following flags/lights will be raised prior to firing:
 - a. Main Entrance Flag. A red flag will be raised/lowered by user units.
 - b. Red or green flag/lights will be flown at the stand when live activities are ongoing.

COMMUNICATIONS

11. Communications will be kept at all times with Range Control on safety net. Units will require permission to go live and will report the following:
 - a. call sign;
 - b. request permission to go live;

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- c. IAW with DRSOs line-----; and
- c. OIC (Rank, Initial, Name).

TARGETS

12. Hard targets have been placed at the range; no other targets will be used without prior approval of Range Control.

SAFETY PRECAUTIONS

- 13. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the types of weapons or activities being used.
- 14. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the types of weapons being used.
- 15. All related direction included in CFP 381(1) apply.
- 16. If firing must stop temporarily during a practice, weapons will immediately be made safe and the green flag hoisted. Firers will remain in location until future instructions are received from the OIC exercise.
- 17. All incidents involving ammunition, weapons, or personnel will be reported to Range Control and appropriate staff work will commence in accordance with RSOs.
- 18. All personnel will wear appropriate safety equipment and aural protection when required.

PREPARATION AND REQUIRED EQUIPMENT

FIRE FIGHTING/FIRST AID EQUIPMENT

- 19. The following firefighting equipment is required before commencing the practice:
 - a. 2 X fire brooms; and
 - b. 2 X 20lb Purple K Dry Chemical Extinguishers.
 - c. 2 X 5lb fire ext
 - d. Burn/first Aid Kit

PREPARATION

20. The Molotov Cocktail mixture is normally prepared by mixing 2 parts gas with one part oil, the fuel must be completely mixed, sugar or soap may be added to demonstrate the effect of the mixture sticking to the target. However, for environmental reasons pure gas is authorized in the preparation of Molotov Cocktails. The fuel is then poured into the bottle filling the bottle to no more than 7/8 of its capacity. The next step is to tie two knots at one end of a cotton rag with a distance between the knots equal to the length of the neck of the bottle. One knot is slipped inside the bottle leaving one outside – this is to prevent the wick from falling out or disappearing inside the bottle. Before use, the bottle is turned on its side allowing the wick to become soaked with the fuel mixture. When the firer is given the order to fire he/she will light the wick and throw the bottle at the intended target with enough force to ensure that the bottle breaks on impact; which will cause the gas mixture to ignite. Units will not deploy or prepare more than 25 liters of fuel at any one time.

- 21. **No other chemicals or fuels** will be added or substituted to those listed above during training.
- 22. Only **Glass** bottles not to exceed 750ml will be used.

23. The RSO must ensure the following:
- a. that a safe distance is maintained when throwing the Molotov Cocktail.;
 - b. that the firer does not drop the device once lit;
 - c. that only one Molotov cocktail is thrown at a time;
 - d. no smoking when making, carrying or delivering the device; and
 - e. maximum of two bottles per individual at the firing point.

ENVIRONMENTAL RESTRICTIONS

24. All environmental and HAZMAT precautions will be enforced. In the event of a spill, notify Range Control immediately. The OIC practice will ensure that all measures are taken to control the spill.

RANGE CLEARANCE

25. The UO Site will be left clean. This site will be swept and all debris will be picked up. All garbage will be removed from the range. Glass residue will be swept and disposed of into the 45-gallon drum provided at the site. Range Control will ensure that the drums are emptied and contents disposed of as per S0 5-11.

26. Units will be marched into and out of the Molotov Cocktail Site. Range Control will provide a patrolman to complete these inspections; however, a forty-five minute notice of inspection must be given to Range Control with the intention of avoiding delays.

27. The OIC exercise will report any unsatisfactory conditions on the Range Clearance certificate and return it to Range Control on completion of the exercise.

UNMANNED AIRCRAFT SYSTEM (UAS) TRAINING

GENERAL

1. RSO article 1.206 Control of Airspace/Aircraft will be adhered to when operating UAS.
2. Unmanned Aircraft Systems (UAS) are by definition, a powered, Aircraft System that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or non-lethal payload. Ballistic or semi-ballistic vehicles, cruise missiles and artillery projectiles are not considered unmanned Aircraft Systems.

3. UASs are classified dependant on their size and ranges at which they operate.

Tactical UAS (TUAS)
Normal Operating Alt 5000 ft AGL
Range Max by LOS only – 100 plus kms

Small UAS (SUAS)
Normal Operating Alt up to 5000 ft AGL
Range – up to 100 kms

Mini UAS (MUAS)
Normal Operating Alt up to 1000 ft AGL
Range – 10 kms

Micro UAS
Normal Operating Alt up to 200 ft AGL
Range – Up to 5 kms

AIRWORTHINESS CERTIFICATION

4. UAS systems will operate within the specific Concept of Operations (CONOPS) for that particular system.
5. UAS systems operating in the training area will be properly certified for airworthiness by the DND/CF airworthiness program, through either of the two following processes:
 - a. Full Release To Service (FRTS), which includes Operational Airworthiness Certification and Technical Airworthiness Certification; or
 - b. Specific Purpose Flight Permit (SPFP).

LOCATION

6. UAS training may be conducted in allocated areas in the training area within the boundaries of CYR 724.
7. UAS training conducted outside CYR 724 (i.e., on Base for Armed Forces Day, etc) requires NOTAM clearance, if authorized within FRTS or SPFP. This authority must be requested through the RCO 21 days in advance.
8. UAS Launch and Recovery sites will be detailed in DRSOs. Depending on the types of training conducted, details will read as follow:
 - a. For planned static operations, 6 figure grids should be provided for each launch and recovery sites;
 - b. For planned mobile GCS operations where launch sites will change based on operator locations:

- 1) intended launch areas should be no bigger than a grid square when not marked on an exercise trace; or
 - 2) when part of a maneuver exercise, launch areas will correspond to maneuver boxes.
- c. Hasty launches should not be authorized by Range Control unless they are coordinated through an active Airspace Coordination Center (ASCC) or Tactical Air Control Party (TACP) that controls CYR 724 as part of combined training.
9. UAS launch and recovery sites will be laid out as detailed in Appendix 1. If the UAS Safety Template crosses a MSR during launch or recovery, sentries will be placed at each point where the template intersects the MSR.

AIR SPACE COORDINATION

10. Air space coordination for all UAS flights must be carefully coordinated in order to de-conflict from other aircraft and indirect fire weapons. This can be done in the following manners:
- a. Directly with Range Control when UAS activities are self-contained as per DRSOs;
 - b. With the use of a Liaison Team inside Range Control when UAS flights are conducted in a fluid and on-call nature across the entire CYR 724; or
 - c. With an ASCC or TACP that controls a significant Restricted Operating Zone (ROZ) or all of CYR 724 in support of combined training IAW SOPs and the promulgated Airspace Control Plan. Prior to the devolution of airspace control to an ASCC or TACP, Comd 5 CDSB's approval authority is required. This request is to be sent through the RCO and will include the exercise airspace control plan, comms plan and JTAC Commander's Designation Letters.
11. When air users are vertically separated in their range bookings, a buffer should be accounted for in one of the bookings. In the case of fixed wing resources, 1000 ft buffer should be ensured. In the case of helicopters, 500ft should be ensured. The inclusion of buffers should be discussed between members at the Range Control Air Coordination meetings. If an Exercise OIC wishes for more separation, it should be discussed at this meeting or presented prior in their Range Request.
- a. CU173 Raven-B is mandated to have a minimum 500m lateral buffer with other aircrafts (including other CU173s) if operating at the same altitude. Because this restriction only applies to the Raven-B, the 500m lateral buffer should be encompassed within that range booking when other air users are out. If the MUAS users put in effect this buffer inside the limit of an existing range area boundary (ie Area 21, buffer towards the inside), there is no need to publish a CFRIS trace. On the other hand, as soon as the 500m buffer goes to the outside of an area boundary or is not related to areas at all, a CFRIS trace needs to be submitted. If there is uncertainty, the need for a CFRIS trace should be confirmed at the Range Control Air Coordination meeting.
 - b. Other UAS are not yet mandated to such lateral buffer during land operations, thus inside CYR 724.
12. Airspace for UAS training can be reserved using the following methods:
- a. A booking of restricted airspace IAW 5 CDSB Gagetown Training Area Trace, coupled with a vertical volume of airspace over the desired areas (ie. Area 21, from surface to 1500 ft AGL); or
 - b. A combination of ROZs, to include the launch area, the recovery area (if not the same), emergency recovery area (if applicable), planned transit corridors and search ROZs.

13. When initial operator training is conducted with a UAS that allows direct operator control (not only with waypoints on the GCS), airspace should be booked for restricted use with enough room (either vertically or horizontally) to encompass any potential flight errors from students.

CONTROL, SUPERVISION AND SAFETY OF AV DURING FLIGHT

14. Range Safety personnel are required to supervise the launch of the AV and/or monitor the AV in flight, depending on their tasks. Range Safety personnel do not have to be Flight Safety qualified (unless mandated for certain systems), but need to meet the qualification stated below.

15. Range Safety personnel consist:

- a. Small (SUAS);
 - 1) Range Safety Officer or NCO (STA O or TSM qualified);
 - 2) Launch and Recovery (L/R) ARSO (ATT, civilian FSRs, but in the future SUAS Det Comd qualified); and
 - 3) GCS ARSO (Mission Commander certified).
- b. Mini (MUAS);
 - 1) Range Safety Officer (Officer DP 1.2 qualified) and Range Safety Officer (MCpl and above MUAS Det Comd qualified); and
 - 2) GCS ARSO (MUAS Det Comd qualified).
- c. Micro (TBD).

16. The Range Safety Officer and NCO duties include:

- a. verify flight plan;
- b. supervise all aspects of the flight including launch, handovers, recovery and emergency procedures;
- d. ensure UAS Rules Of Safety (ROS) are included in the flight plan; and
- d. authorize the launch of the AV when granted permission from Range Control.

17. The Launch and Recovery ARSO duties include:

- a. verify system checks are correctly done; and
- b. if applicable for system, supervise all aspects of the flight including launch and recovery.

18. The GCS ARSO duties include:

- a. verify system checks are correctly done;
- b. if applicable for system, verify flight plan;
- c. supervise all aspects of the GCS operations to include launch, handovers, recovery and emergency procedures;
- d. monitor the AV in flight to ensure its position remains on its intended flight plan, by using one of the following;
 - 1) duplicate AV and MP workstation video terminal;

- 2) an independent AV tracking workstation; or
 - 3) direct supervision of the Air Vehicle work station if only one GCS is available.
19. All flight operations will be conducted IAW Safety templates and tables included in SOPs.
20. System checks are to be done and verified before each flight as detailed in SOPs.
21. Personnel not directly involved with the UAS operations will be handled as per SPFP or FRTS for the system in use, with special attention to launch, recovery and GCS locations.
22. Personal Protective Equipment must be worn at all times.
23. Rules of Safety must be included in the flight plan. SOPs will detail how the ROS are defined but must include:
- a. air space safety zones;
 - b. air space corridors;
 - c. alternate Recovery points;
 - d. ROS entry points; and
 - e. lost communications waypoint.
24. Overflight of the TDM is not authorized. When conducting an overflight of Hwy #7, troops, vehicles, buildings the crossing must be conducted IAW the flight permit restrictions.

FLIGHT SAFETY OCCURRENCES AND INVESTIGATIONS

25. All flight safety occurrences are to be reported IAW A-GA-135-001/AA-001 Flight Safety for the Canadian Forces and the Unit Flight Safety SOPs.
26. All flight safety occurrences are to be investigated IAW A-GA-135-001/AA-001 Flight Safety SOPs as per Tier 3 rules.
27. All UAS crashes other than bad takeoffs or rough landings will be reported IAW SOPs. Range Control will immediately be notified of the general location of the crash site before recovery efforts take place.

ALLOCATION AND USE

28. When requesting authority to use an area for UAS training, the OIC Exercise will state the Air Space requirements in ft AGL, the range areas to be used and if possible an outline of the intended flight plans or activities.
29. All units flying UAS will be reflected on DRSOs, either as a single range booking when flown individually, or in the remarks for a range booking of a major unit when part of combined training.

COMMUNICATIONS

30. The OIC Exercise will establish and maintain communications with Range Control.
31. Communications between the AV and GCS must be maintained at all times. Failure to maintain communications with the AV will result in the immediate recovery of the AV if there is a possibility that it will fly out of the authorized flying areas

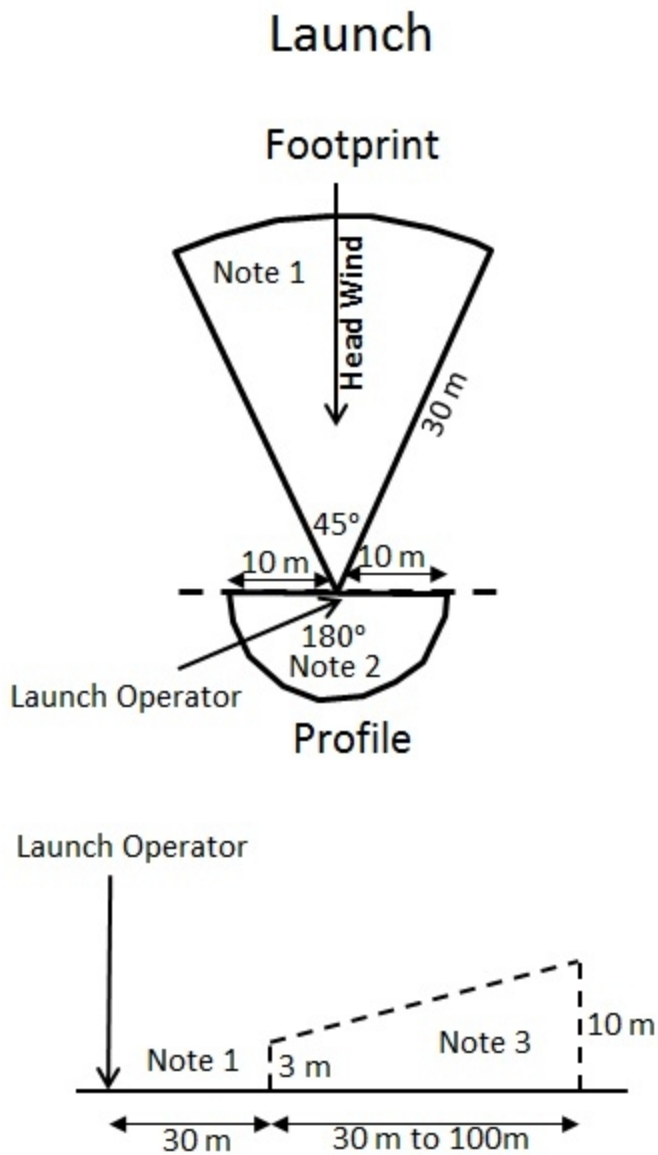
CONDUCT OF EXERCISES

32. Units must provide a 30 minute notice before activation or deactivation of airspace by Range Control. If range users deconfliction is complete by Range Control prior to the 30 minutes window, they may advise to launch earlier.
33. When time between launches or recoveries of more than one UAS exceeds 30 minutes, individual permission will be requested from Range Control 30 minutes before each launch or recovery.
34. When multiple launches and recoveries are planned inside 30 minutes (common during conduct of UAS individual training), the OIC should inform Range Control of the maximum number of UAS that will fly at any given time. Permission will then be requested from Range Control 30 minutes before the first launch, and Range Control shall be advised of the last recovery.
35. Once UAS operations are complete

RANGE CLEARANCE

35. On completion of UAS training, a Range Clearance Certificate will be completed and turned in to Range Control. If crashes have occurred, they should be included with a 10 figure grid and a statement on the recovery (i.e. *Crash grid 19T GL 12345 67890, all parts found* or *Crash grid 19T GL 12345 67890, damaged blue rocket, investigation ongoing*), even though they have been reported at the moment of the crash.
36. When UASs are used in conjunction with live firing, the UAS clearance will be included in the live fire certificate.

CU173 Raven B Launch and Landing Safety Template



Recovery

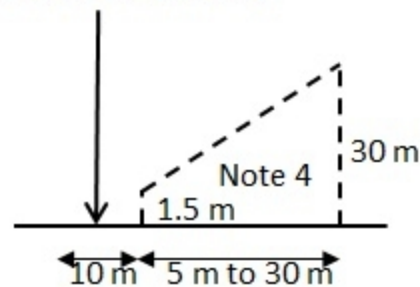
Footprint



10 m

Profile

Landing Area (Note 2)



Note 1: Area with no obstruction other than low brush

Note 2: Area clear of personnel, vehicle or damageable man-made objects

Note 3: Area beyond 30 m with no obstruction higher than 1/10 of the distance from launch operator, within the 45° angle

Note 4: Overflying area with no obstruction higher than 1:1 ratio from the distance to the landing point

**RANGE & TRAINING AREA LICENCE
WEAPON AND AMMUNITION AUTHORIZATION**

#	RANGE	WEAPON	AMMUNITION	SAFETY/RESTRICTIONS
1	Amiens Range (20 lanes) 600 meters	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C7.62mm, Shotgun	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge	-Civ SA – No auto wpns -No veh mounted firing
2	Ardennes/Somme/ Flanders 50m Range	C6, C7, C8, C9, Pistol, 7.62mm MP5 9mm	5.56mm, 7.62mm, 7.62 Match CTG .22, .223, .45, 9MM, Shot Gun	No magnum, hand or shotgun loads. C8 single round C6 & C9, 2-3 rd burst only
3	Batouche Rifle Range (12 lanes) 900 meters	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C7.62mm, MG .50, Shotgun,	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge inc Slug/BS .50 spotter tracer	-Civ SA – No auto wpns -No veh mounted firing -No laser
4	Drummond CQBL x 7 (150m– 200m)	C6, C7, C9, 9mm Pistol	5.56mm, 7.62mm, 9mm	-lanes 1 is rest to 9mm only -Arty Sim/Smk Gren auth
5	Marne M203 Grenade Range	Grenade Launcher 40mm	40mm Smk , 40mm Frag	N/A
6	Mons Range (12 lanes) 400 meters	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C7.62mm, Shotgun	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge	-Civ SA – No auto wpns -No veh mounted firing
7	Reichwald ATS Range (20 lanes) 600 meters	C7, C8, C9, Rifle C1, C2 & (Sniper) C3, 7.62mm , 9mm, .5 cal sniper	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge	Auto Fire is limited to 2-3 rd burst only
8	Verdun Grenade Range	Grenades Frag	Grenade Frag C13 Grenade Practice M69	N/A
9	Vimy Ridge Range (12 lanes) 400 meters	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C7.62mm, Shotgun	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge	-Civ SA – No auto wpns -No veh mounted firing
10	Courcellette UO Indiv Training Site	C6, C7, C8, C9, Pistol,) C3 7.62mm, MP5 9 mm, Pyrotechnics,	Pyrotechnics Blank Ammunition Simunition Ammunition	- Arty Simulators only IAW 381-1. - CN/CS gas on approval from RCO.
11	FIBUA	C6, C7, C8, C9, Pyro, Pistol 9mm	Blank Ammo	CS/CN gas, para flares, pen flares with permission from G3 Ops.

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12	Drummond DML Range		Explosives to include: - Cratering max 27 kg - trigan +0.3 kg C4 per - crater. Max 3 - simultaneously. Total 90 - kg. - Steel - max 10 Kg - Beehive - (15 lb, 40 lb) - DREStructor linear - shaped chg 9 kg. - DREScavator shaped chg - 9 kg, hayrick, bangalore - torpedo set. Max 6 - simultaneously, total 60 - kg. - Timber - Max 10 kg tgts, - 6 tgts simultaneously. - Concrete - Max 20 kg - tgts, 3 tgts - simultaneously. - Civ expls, Mills approved - civ expls only. Max 6 - tgts simultaneously. - Total 60 kg.	No 155mm destruction Indiv area shall only be used for their specific purpose. See appendix 3 to annex J (RSO's) for more detailed info.
13	Fast Water Site	None	None	N/A
14	Small Charge Range		Explosives to include: - Basic charges - Battle simulations - C4 – 0.5 kg per bay	See appendix 2 to annex J (RSO's) for more detailed info.
15	South Boundary DML Range		Explosives to include: - Cratering max 27 kg - trigan per crater. Max 3 - simultaneously. Total 81 - Tirgary and Max total - Expl 90 kg or 40 lb - beehive. - Steel - max 5 kg C4 per - bay. Beehive - 15 lb mfg - chg. Hayrick – 11 lb mfg - chg. Total 20 kg per bay. - DREStructor & - DREScavator 18 kg - trigan per bay. - Bangalore Torpedo 12.6 - kg 3 sect per bay. - Concrete - Max 5 kg, 3 - tgts simultaneously. - Wood - Max 5 kg, 3 tgts - simultaneously. - Wood + concrete 10 kg - max x 3 simultaneously. - EOD furnace for SAA - and Propellant burning.	No 155mm destruction Indiv area shall only be used for their specific purpose. See appendix 4 to annex J (RSO's) for more detailed info.

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16	Still Water Site	None	None	N/A
17	Underwater DML Range	(C6, C7, C8, C9, Pistol - as per RTA licence)	Chg DML Block C4 (1.25 lbs) Chg DML Block C4 (0.5 lbs) MK54 Depth bombs, MK1 Cav Chgs, Data sheet, TNT hose, Cable cutters, Satchel chgs, civ dynamite. (5.56mm, 7.62mm, 9mm, Pistol as per RTA Gagetown licence)	<u>Small arms fire only</u> until further notice. Contact RCO at 3774 for more info if reqr'ed
18	Air Weapons Range	Gun 20 mm Gun 30 mm Rockets 2.75 in	RKT 2.75 in INERT RKT 2.75 in HE RKT 2.75 in WP RKT 2.75 in HEAT RKT 2.75 in SMOKE Bomb Live Mk 82 Bomb Live Mk 83 Bomb Live Mk 84	See Annex R (RSO's) for more detailed info.
19	IMPACT AREAS	All CF issued weapons	All CF ammunition issued, and some Civilian ammunition upon approval.	Range Control must approve all traces, prior to any ammo authorization.

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20	14.5 mm Range	14.5 mm Arty Trainer, Mortar 25 mm Sub-Cal 81 mm, MAW 6.5 Sub-Cal 84 mm, Missile TOW M70 Simulator.	CTG 25 mm Sub-cal Mortar CTG 6.5 mm W/T (CG) CTG 6.5 mm Gallery (CG) CTG 14.5 mm	N/A
21	FP 4 & FP 6	C6, C7, C8, C9, Pistol, MAW 84mm, Rifle (Sniper) C3 7.62mm, MG .50, Shotgun, Rifle .303, 105mm TK, 105mm, 120 TK How, 155mm How, Laser, Mortar 81mm, 25mm LAV.	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge inc Slug/BS CTG .303, .50 spotter tracer, .50 cal, 25mm, 84MM HEAT FFV 105 mm HOW – 155 mm 105 mm TK – 1200MM TK Pyrotechnics.	105 mm Direct Fire only 155 mm Direct fire only NO dud producing ammo within the Anti-Armour Range without written approval from the G3. Other ammo / wpn may be authorized upon request to Range Control.
22	Wellington Range	LAW M72, MAW 6.5 mm Sub-cal 84mm, MAW Gun 84mm (CG) Mortar 60mm, Pyrotechnics	60mm Mortar HE, SMK WP, MOR111 66mm HEAT (M72) 84mm HEAT FFV 551,502, TP/P Pyrotechnics	N/A
23	Enniskillen Range Complex	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C3 7.62mm, MG .50, Shotgun Pyrotechnics, M203 Rifle Grenade Launcher	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge inc Slug/BS CTG .50, Grenade Frag M67 & M61, Grenade prac M69, Pyrotechnics, Blank ammunition, M203 rifle grenade 40mm - (PRAC ONLY) . C4 to 0.5 lbs DML shaped M2 (15 lbs) DML Neclace #14 (55 lbs) DML shaped M3 (40 lbs)	Cratering/Abatis is authorized with approval from the RCO. ERC includes areas 41,42,43,44,45,46,47,48,& 49. NO DUD producing ammunition to be fired.

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24	Argus Coy Def Position	C6, C7, C8, C9, Pistol, 6.5mm sub cal 84mm, Rifle (Sniper) C3 7.62mm, MG .50, Shotgun, Pyrotechnics, M203 Rifle Grenade Launcher, LAW M72, MAW 6.5 mm Sub-cal 84mm, MAW Gun 84mm (CG) Mortar 60mm, Mortar 81mm, 105mm TK, 105mm How, Smoke dischargers.	5.56mm, 6.5 mm (CG) 7.62mm, 9mm, CTG Shotgun up to 10 gauge inc Slug/BS CTG .303, .50 spotter tracer, .50 cal, 25mm 84MM HEAT FFV. 105 mm HOW 155 mm 105 mm TK 60mm Mortar 66mm HEAT (M72) 81mm Mortar, Bedding Rd Pyrotechnics.	See RSO, Argus Coy Def for more detailed data. (Para 26 ammo and wpn restrictions) Only non-dud producing ammo may be fired at the 1856 tgts.
25	Gas Chamber N-6		CS Riot Gas	

NOTES

1. This Annex is intended for use as a guide for planning purposes only. The RSO for each individual range details the types of ammunition and weapons with applicable traces. Different types of ammunition / weapons other than those listed in this annex, may be authorized by the RCO.
2. Any changes or proposed amendments to this Annex can be directed to the RCO via E-mail or local 3774.

LASER SAFETY

INTRODUCTION

1. Application. In accordance with the references noted in Chapter 1, these Standing Orders apply to all users of lasers in the 5 CDSB Gaagetown RTA.

2. Definitions

- a. Laser. Laser is an acronym for "Light Amplification by Stimulated Emission of Radiation". Lasers are a family of devices that generate monochromatic electromagnetic radiation within the ultraviolet, visible and infrared spectrum. Lasers can be dangerous if operated without the necessary safety precautions. The light from the laser, which may be invisible to the eye, can cause temporary or even permanent blindness. Moreover, the extremely high voltage required to generate the laser pulse can cause electrocution;
- b. Laser Operator. A laser operator is a person who is responsible for firing a laser;
- c. Laser Supervisor. A Laser supervisor is a person who directly supervises the daily activities of laser operators and users and others who work with or around lasers;
- d. Laser Safety Officer (LSO). A LSO is an officer of the CF or civilian employee of officer status who is appointed by the Base Commander or visiting Commanding Officers and has successfully completed the CF Laser Safety Course or any equivalent course approved by NDHQ. The LSO is responsible for determining the full extent of hazard and implementing effective protection programs for areas and facilities assigned to him;
- e. Permissible Exposure Level (PEL). PEL is the level of laser radiation which, when exceeded, could cause adverse biological effects.
- f. Nominal Ocular Hazard Distance (NOHD). The NOHD is the distance beyond which the laser light from a particular laser system may be viewed by the unaided eye without harmful effects. This distance could be interpreted as a direct line of sight from the laser to the observer, or more commonly as the total distance from the laser to the target, and back to the eye of the observer. Note: In spite of the implications that lasers may be viewed directly beyond the NOHD distance, this practice should be avoided. Observers should especially avoid looking into the aperture of ANY laser, however weak;
- g. Laser Hazard Distance. Same as for para 2.f. above, but includes additional safety distance required for viewing with magnifying optics. The Extended NOHD can be calculated simply by multiplying the NOHD distance by the power of the observation system used;
- h. Diffuse Reflection. Reflection of laser light from a multi-layered object such as ground, trees, foliage, essentially, any object that doesn't reflect an image. This is the safest surface at which to aim a laser. The reflection is strong enough to obtain a range reading, but there is very little reflected hazard, especially beyond the NOHD distance.

- i. Specular Reflections. Reflection from a flat mirror-like surface such as glass, mirrors, water, snow, ice, chrome objects. The basic criteria is if the object reflects an image it is specular. Laser beams reflected from specular surfaces are as hazardous as the direct beams. Laser Safety Officers should ensure that the firing of lasers at specular surfaces is avoided.
 - j. Laser Secure. The laser secure state means:
 - (1) for lasers with key locks, the key is turned to the "OFF" position.
 - (2) for lasers without key locks, the on/off switch is turned to the "OFF" position.
 - (3) Lasers are considered "secure" when they are disconnected from their power source.
 - k. Laser Armed. Lasers are considered armed when the key or the on/off switch has been switched to the on position.
3. Background. The laser system, except for its inability to penetrate targets and absence of a trajectory, can be treated like a direct-fire line-of-sight weapon; thus the hazard control precautions taken for direct-fire weapons will provide most aspects of the safe environment required for laser use.

4. Classifications.

All laser systems can be grouped into one of four classes. These classes indicate the degree of potential hazard based on the laser output.

- a. Class 1: The lowest powered lasers are called Class 1 lasers. This group is normally limited to very low power semiconductor lasers or enclosed laser systems and is not hazardous, even if the output beam is collected by 50 mm collecting optics and concentrated into the pupil of the eye.
- b. Class 1M: Class 1M lasers are safe for unaided viewing, but may be hazardous if magnifying optics is employed with the beam.
- c. Class 2: Class 2 lasers operate in the visible part of the spectrum. Deliberate ocular exposure for longer than 0.25 s may be hazardous, but protection is afforded by the eyes' natural aversion response to bright light even when 50 mm collecting optics are used.
- d. Class 2M: Class 2M lasers operate in the visible part of the spectrum. Deliberate ocular exposure for longer than 0.25 s may be hazardous, but protection is normally afforded by the eyes' natural aversion response to bright light. This group may be hazardous if magnifying optics are employed within the beam.
- e. Class 3R: Class 3R lasers have an accessible output power or radiant energy within five times the Accessible Emission Limit (AEL) of Class 2 within the wavelength range from 400 to 700 nm, or within five times the AEL of Class 1

for other wavelengths. Direct ocular exposure of Class 3R lasers may be hazardous, but the risk is lower than for Class 3B lasers. Class 3R lasers are not capable of causing injury to skin and cannot produce a hazardous diffuse reflection.

- f. Class 3B: Class 3B lasers are of all wavelengths. Direct ocular exposure of Class 3B lasers is normally hazardous, but viewing of diffuse reflections is generally safe. There is unlikely to be a skin hazard.
- g. Class 4: Class 4 lasers are capable of causing serious injury to both eye and skin; and may also produce diffuse reflections that are hazardous to the eye. They can also cause combustion of flammable materials

5. Hazards.

The lasers listed below are commonly used in Gagetown.

System	Class	NOHD	EOHD (Aided)	OD	Divergence	Wavelength
GLTD II	4	20 km	65 km	5.3		1064 nm (not visible)
TO-46 (raven laser)	4	4 m	37 m	2.8		
MX-15HDI	4	413 m	2500 m	3.1		
IZLID 1000	4	807 m	4.4 km	3.0 unaided 3.0 aided		856 nm (not visible)
AN/PEQ 4	4	460 m	2600 m	2.5		
SNIPER ATP	4	14.5 nm (26.8 km)	34 nm (26.8 km)	5.3		1064 nm (Tactical – not visible)
	3B	600 m	3.5 km	2.7 aided 2.0 unaided		808 nm (Marker not visible)
	1M	0 m	470 m	1.1 aided 0 unaided		1576 nm (Training – not visible)
PEQ 2 01-511-8907	Training mode 3R Tactical mode 3B	Training – 25m Tactical – 220m	Training – 160 m Tactical – 1300 m	1.7	0.5 mRad spot thru 105 mRad flood	820-850 nm
Type 163	4	28.1km	202km	>5	>5	
PLDR II	4	25.6 km	154.8 km	3.1	3.1	1064 nm (not visible)
					3.0	

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Leopard Tank	3B?	3300 m	20 km	7		
ESL-200 Rangefinder	3B	12 m	20 m			
PLDR	3B	14 km	41.4 km	3.7 5.3		1064 nm (not visible)
Laser Pointer – LPL-30	3B	200 m	1300 m (7X50 Binos)	2	0.5 mRad	830 nm
Laser Gas Model 8601	3R	75 m	432m	2.5		
Laser Weapon Fire Sim	3R	1 m	10m	2		
AN/PAQ 4B	3R	80 m	550 m (7X50 Binos)		0.2 mRad	850nm
Laser Weapon Fire Sim	3R	1 m	10m	2		
AN/GVS 5A LRF	3B	1170 m	7 km (7X50 Binos)		0.5 mRad	1.06 um
LTM - 91	4	10,500 m	32 km (7X50 Binos)	4	0.2 mRad	1064 nm
Laser Pointer -30	3B	200 m				
Small Arms weapons Effect (SAWES)	2	50 m				

b. Detailed safety information for all Canadian Land Forces laser systems can be found in B-GL-381-001/TS-000, (latest edition) Chapter 10, or in the technical manuals for each weapons system. Note Chapter 10 is out of date for classification and NOHD.

RESPONSIBILITIES

6. **Range Control.** Range Control is responsible for:

a. The safe allocation of ranges, training areas and air space for laser use;

- b. Being the laser safety advisor and co-ordinator in respect of personnel in the areas and facilities assigned to them;
 - c. Investigating and reporting laser accidents to higher HQ; and
 - d. Ensuring that units using lasers, have in place laser safety plans, and qualified laser RSOs IAW the provisions set out in B-GL-381-001/TS-000, Chapter 10.
7. User Units. User units are responsible for:
- a. Formally assigning responsibilities to RSOs and laser supervisors;
 - b. Provision of laser warning signs and dissemination of laser safety instructions to personnel;
 - c. In the case of Canadian Units, assigning officers who have successfully completed the CF Laser Safety Course or equivalent;
 - d. Evaluating the hazard potentials and provide adequate protective measures; and
 - e. Investigating and reporting all laser accidents to Range Control and Unit higher HQ IAW .

DANGER AREAS

8. Lasers will not be fired at areas containing specular surfaces. Danger areas will be considered free of specular surfaces when the following precautions have been taken:
- a. The area around artificial targets has been physically cleared to a radius of 50 m prior to initial use of lasers against target;
 - b. The target area is scanned by the RSO or his representative prior to each firing of lasers and any apparent specular surfaces are covered or removed;
 - c. Natural terrain features (hill, woods) such as would be engaged by Arty OPs need not be physically cleared but must be thoroughly scanned using binoculars; and
 - d. All specular objects are covered or removed from personnel who are in laser controlled areas (i.e. rings, watches, zippers, buttons and badges, etc).

LASER TEMPLATING

9. Unless outlined in the individual weapon's manual, the following safety criteria will be applied when constructing laser safety templates:
- a. The firing arc will be extended out from the planned firing point to the full NOHD distance throughout the left and right of arc.
 - b. The divergence factor will be added to each end of the planned firing arc based on the divergence of each LRF;
 - c. Laser Templating will have a buffer zone based on the platform used. The recommended buffer zone for Laser templating for a stabilized and aimed

platform will be 5 mils (i.e. tripod mounted or vehicle mounted) For an unstable platform with sighting optics (i.e. rifle mounted laser) will be 10 mil and for unstable platform without sighting optics (i.e. a hand held laser) the buffer angle will be 15 mil. The buffer angle is added to each laser systems beam of divergence;

- d. Templates must be applied horizontally and vertically;
 - e. The full extent of the NOHD need not be applied if the laser beam can be terminated by diffuse backstop such as a hill or trees; and
 - f. Danger areas may be defined by danger area trace method using arc markers or by templating each target.
10. The following atmospheric effects may modify the NOHD and consequently the laser danger area:
- a. Visible "Heat waves" at ground level cause refraction and could increase the safety template by diverting the beam causing it to overshoot the intended target area.
 - b. Fog, cloud, smoke or other particles in the air will scatter or absorb the laser beam and reduce its intensity; and
 - c. Precipitation may scatter or absorb the laser.

SAFETY PRECAUTIONS

11. Accidental Discharge. The rules for preventing accidental firing are:
- a. The laser shall be considered to be an unloaded weapon when in the "laser secure" state;
 - b. The laser shall be considered a loaded weapon with safety catch applied when it is in the "laser safe" state; and
 - c. Lasers shall be placed in the "laser armed" state only when an order to fire has been issued.
12. Unattended lasers. Lasers shall not be left unattended unless in secure state.
13. Warning Signs. Unit LSOs are responsible for placing warning signs on lasers and around laser danger areas. Range flags will be used as per normal range practices.
14. Aircraft/Airspace. Normally over flight of laser danger areas will be restricted, through the DRSO's, to an altitude equivalent to the maximum NOHD. In exercises involving use of lasers and aircraft, the RSO is responsible for briefing pilots and co-ordinating safe overflight of the area of the exercise.
15. Civilian Property. Under no circumstances will lasers be fired when the NOHD extends outside the RTA boundary unless the beam is terminated by a diffuse backstop.
16. Presence of Explosives/Flammable Materials. Unpackaged bulk explosives or explosives not enclosed in metal casings are not to be exposed to direct laser beams.

ACCIDENT INVESTIGATION AND REPORTING

17. All accidents, accidental discharges, malfunctions and potentially hazardous conditions on the range or RTA, related to lasers, must be reported to Range Control and unit LSO regardless of whether an injury or damage was sustained. If anyone suspects that they have been 'lased' they are to report the following to Range Control and their Unit LSO for further investigation:

- a. time of incident;
- b. location (for aircraft – include MGRS and altitude);
- c. approximate location of laser source;
- d. colour of laser beam;
- e. relative intensity; and
- f. duration of exposure.

FLAG PROCEDURES

18. Normal flag procedures will be used with the tank laser:

- a. GREEN flag - LASER SAFE - NO FIRING; and
- b. RED flag - LASER ON - FIRING PERMITTED.

HERSEY LIGHT BREACHING FACILITY

LOCATION AND DESCRIPTION

1. The Hersey Light Breaching Facility (HLBF) is located in the Area of Hersey OP Grid 104 771. The HLBF is designed to allow troops to experience the effects of breaching doors and windows. When this facility is used it will be considered live training.

RESTRICTION

2. Only service issued munitions and /or explosives will be used.
3. RSO will be appointed in accordance with BGL-381-001/TS-001 Training Safety.
4. The exercise area must meet all environmental regulations.
5. Laser will not be used on this range.
6. Vehicles will only be parked at designated parking areas.
7. OIC exercise will ensure that the effects of weapons and explosive are directed down range.
8. Troops will not move forward of the marked areas ie no more that 100 m in front of the structure without EOD Support.
9. No digging authorized without EOD Support.

MEDICAL

10. A Medical Assistant or a First Aid Qualified person (corporal or higher rank) will be positioned within a safe area with a designated ambulance vehicle containing a first aid kit, two litters and four blankets when firing shot guns.
11. A qualified medical assistant is required when conducting any type of explosive breaching.
12. All medical recovery must go through Range Control. When a unit deploys its own medical resources they must inform Range Control.

FLAGS/LIGHTS

13. The following flags/lights will be raised prior to firing:
 - a. Main Entrance Flag. A red flag will be raised/lowered by user units (Gate 10).
 - b. Red or green flag/lights will be flown at the stand when live activities are ongoing.
 - c. Gate 10 must either be locked or a sentry posted to control access.

COMMUNICATIONS

14. Communications will be kept at all times with Range Control on the safety net. Units will require permission to go live and will report the following:

- a. call sign;
- b. request permission to go live;
- c. IAW with DRSOs line-----; and
- d. OIC (Rank, Initial, Name).

TARGETS

15. Targets must be approved by Range Control.

16. Target requests must be submitted to Range Control 14 days in advance of activity.

SAFETY PRECAUTIONS

17. The appointment and duties of the OIC Exercise will be IAW Chapter 1 and the applicable training manuals for the types of weapons or activities being used.

18. The appointment and duties of the Range Safety Officer will be IAW B-GL-381-001/TS-000 and the applicable training manuals for the types of weapons being used.

19. All related direction included in CFP 381(1) apply.

20. If firing must stop temporarily during a practice, weapons will immediately be made safe and the green flag hoisted. Firers will remain in location until future instructions are received from the OIC exercise.

21. All incidents involving ammunition, weapons, or personnel will be reported to Range Control and appropriate staff work will commence in accordance with RSOs.

22. All personnel will wear appropriate personal protection equipment – ballistic eye protection, hearing protection, helmets, gloves, and fragmentation vest / body armour.

23. The following are not authorized without CO Ops Svrc Br approval, Level 3A Blast Blankets, and/or Kevlar Shields.

ENVIRONMENTAL RESTRICTIONS

24. All environmental and HAZMAT precautions will be enforced. In the event of a spill, notify Range Control immediately. The OIC practice will ensure that all measures are taken to control the spill.

RANGE CLEARANCE

25. The HLBF will be left clean. This site will be swept and all debris will be picked up. All garbage will be removed from the range. Glass residue will be swept and disposed of into appropriate containers and removed by the unit in accordance with S0 5-11.

26. Units will be marched into and out of the HLBF. Range Control will provide a patrolman to complete these inspections; however, a forty-five minute notice of inspection must be given to Range Control with the intention of avoiding delays.

27. The OIC exercise will report any unsatisfactory conditions on the range clearance certificate and return it to Range Control on completion of the exercise.

28. Weapons and Explosives

The following weapons and munitions are authorized

- a. C7, C8, C9 Frangible munitions only,
- b. 9mm Frangible munitions only,
- c. Shot gun – breaching round, bird shot or slug,
- d. Battering ram,
- e. Pry bar,
- f. Exothermic Broco Torch,
- g. Window Rake,
- h. Detonation Cord,
- i. Deta sheet,
- j. Deta prime Booster and detonators,
- k. Electric and Non-Electric Initiation Systems,
- l. Shock Tube Firing Systems.

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29. Safety Distance

Charge Type	Targets	Explosive/Weapon	Non Explosive Materials	Safe Distance and/or Fragmentation Hazard Zone
Flex linear/Slant	Hollow Core Door	2 m of det cord 1 init system	Gun Tape Breacher's Tape	1.5m
Flex linear/Slant	Solid Core Door Particle Filled	4 m det cord 1 init system	Gun Tape	1.5 m
Flex linear/Slant	Solid Core Door Wood	6 m det cord 1 init system	Gun Tape	2 m
IDC 50	IDC 50	Hollow Core Door	78" of det cord 6' 6" 1 init system	Gun Tape, Velcro Hydro Gel, Breacher's Tape, M9 Bunch Block, GE-C2 Det Cord Connector
IDC 100	Solid Core Door Particle Filled	150" det cord 1 init system	Gun Tape, Velcro Hydro Gel, Breachers Tape, M9 Bunch Block, GE-C2 Det Cord Connector	3 m /FHZ 50 m
IDC 200	Solid Core Door Wood / Aluminum	294" det cord 1 init system	Gun Tape, Velcro Hydro Gel, Breacher's Tape, M9 Bunch Block, GE-C2 Det Cord Connector	5m/FHZ 62 m
Water Impulse (IV Bag)	Solid Core Door Wood / Aluminum	8 ft Det Cord Or 20 grm Deta Prime Booster, 24" Det Cord. 1 init system	Gun Tape, IV bags Hydro Gel, Breacher's Tape, M9 Bunch Block, GE-C2 Det Cord Connector	3 m /FHZ 40 m
Breacher's Strip Deta Sheet	Solid Core Door Wood / Aluminum Wood / Metal Gate	78" X 1 "C3 Deta sheet, 5 grm Deta Prime Booster, 14" Det Cord 1 init system	Gun Tape, Hydro Gel, Magnets, Breacher's Tape, M9 Bunch Block, GE-C2 Det Cord Connector	7m/FHZ 80 m

For all other targets not found on this table, deliberate calculations are required that shall be performed by either a 0081 Engineer Officer BEOC (AHQ) or a 00339 Combat Engineer, Q15A, (CAIRE).

TRACE: ROZ KNOWLTON
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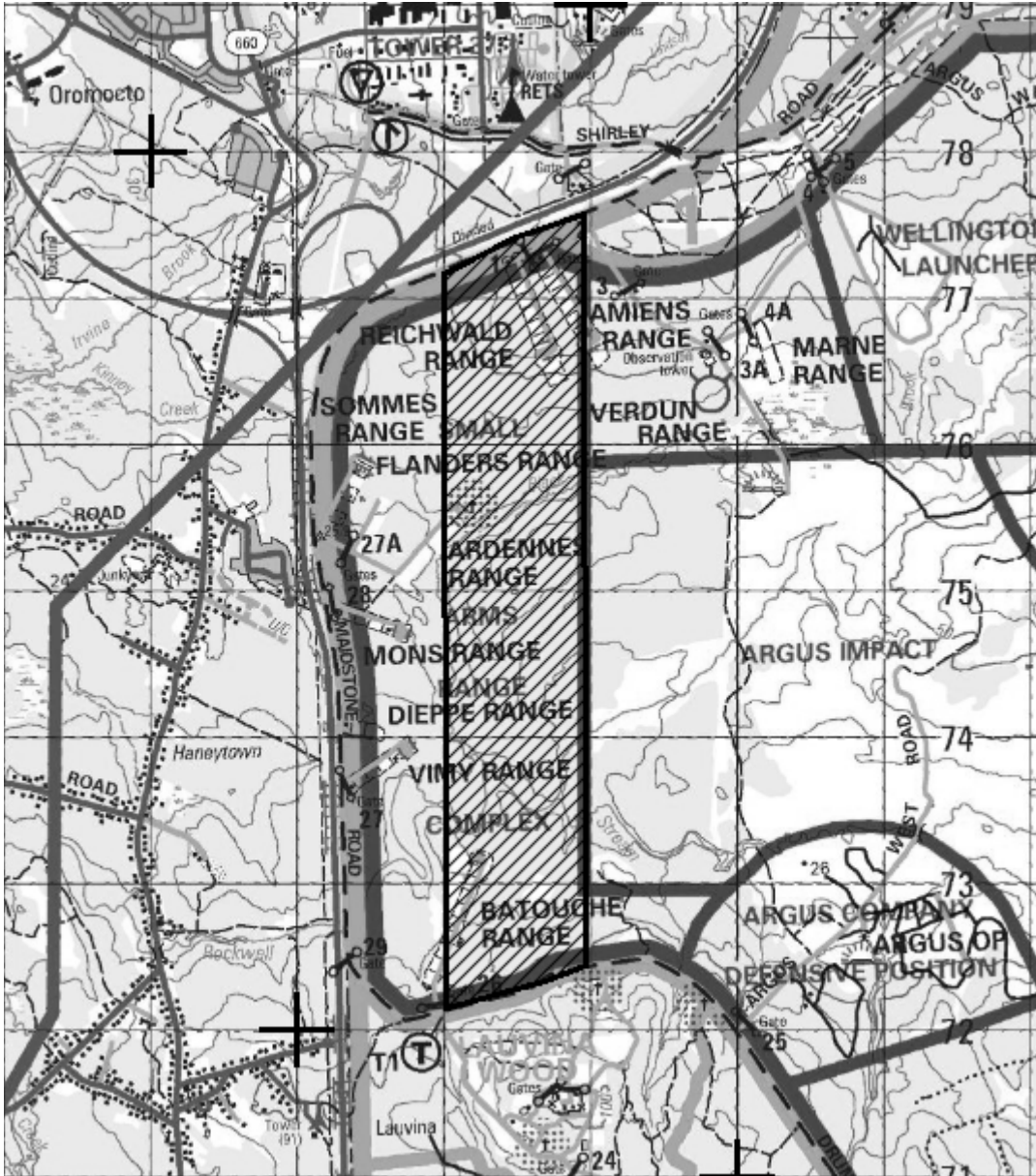
Not to Scale

Trace ROZ Knowlton

Trace: ROZ Knowlton
For SAR Tech parachuting, equipment and flares drops
Alt: 0-to-3000ft AGL

Note: This ROZ was created due to the high frequency of use by 430 Sqn (SAR Techs) from Greenwood.

ROZ - SARC-TCW
ANNEX AC
VOLUME 2
5 CANADIAN DIVISION SUPPORT BASE - RANGE STANDING ORDERS
EDITION 2018



Not to Scale

Trace SARC-TCW

Trace: SARC-TCW

Low Level Air Transit Corridor ONLY (LLTR)

Alt: 1000 to 3000ft AGL

Note: This LLTR was created to minimize the impact of flight operations on neighbours to the West of the Base, and is above the danger template for most weapons being used in the SARC. When the .338 sniper rifle is in use by snipers, the base altitude for the LLTR changes to 1200' AGL and will be reflected in DRSO's on the cover page. If .338 is being fired by anyone other than qualified snipers, then there is no overflight permitted of the SARC. This ROZ needs to be activated by anyone wishing to use it, and will not be automatically activated by Rge Ctl.

AB APP 2 TR – Small Arms Range Complex – Transit Corridor West (SARC-TCW)