

PRINCE ALBERT PISTOL & RIFLE CLUB
WEST RANGE BERM UPGRADE PROJECT

PROBLEM STATEMENT

During the last inspection of the West Range, issues were identified that require changes and upgrades in order to fully utilize all of the ranges. More specifically the Silhouette and Multi-gun Ranges must have the backstops rebuilt to bring them to the approved height as well as an addition to the three hundred meter backstop to prevent any errant ricochets from leaving the Silhouette Range and endangering anyone down range of the Trap/Skeet range and the Black Powder range. An addition of a backstop at the 100m target holder must also be added.

BACKSTOPS

Pursuant to the *“Prince Albert Pistol and Rifle Club – Silhouette Range Renewal Inspection Results – 2018”* as written by Lana Kerr – Firearms Officer, **“the main backstops at the 100m, 200m, 300m, 400m and 500m need to be built up to meet the requirements as all just fall short of the required 6M height mostly due to erosion, weather and amount of use.”**

As per attached appendices, the backstops range from 3 to 4m in height. These must be brought up to the proper height.

300 Meter Berm

Pursuant to the *“Prince Albert Pistol and Rifle Club – Silhouette Range Renewal Inspection Results – 2018”* as written by Lana Kerr – Firearms Officer, **“the safety area of the Silhouette range encompasses the down range area of the Trap and Skeet range but not the actual shooting area. Shooters are not normally required to move down range during trap and skeet activities but if they need to for whatever reason it presents a risk – this must be communicated to all members and signage is required to be put in place to initiate a cease fire on the Silhouette range when shooters are down range on the Trap and Skeet range.”**

“The safety area of the Silhouette range encompasses the down range area of firing line of the Black Powder range – this must be

communicated to all members and signage is required to be put in place to cease fire on the Silhouette range when shooters are using the Black Powder range and vice-versa.”

A sign has been installed at the front of the Silhouette range with changeable wording indicating which range is occupied and in use. An email has been sent to all members informing them of this requirement.

It is proposed to install a berm running 10m north and south off of the east end of the 300m backstop.

Pursuant to the “RCMP Range Design and Construction Guidelines” section 2.5 Berms,

2.5.1. Earthen Berms

For the purpose of these guidelines, a berm is defined as a significant raised mound of earth associated to a range. Berms are usually intended to:

- *Prevent movement of people/animals onto the active range area;*
- *Reduce the risk of an errant shot escaping the active range areas;*
- *Separate adjacent ranges and protect people in areas adjacent to the range; and*
- *Protect buildings or equipment (e.g. a target shed).*

If used to separate adjacent ranges, earthen berms shall:

- *Have a minimum height of 2.5m, measured from the range floor;*
- *Have a minimum face slope of 30⁰, relative to the horizontal;*
- *Have a minimum crest thickness of 1.5m; and,*
- *Join to at least one backstop.*

If used to separate adjacent range areas or to shelter adjacent areas, the crest of the berm shall not have any trees, poles or other similar features positioned such that a ricochet could be directed into the adjacent area.”

MULTI-GUN RANGE

Pursuant to the “Prince Albert Pistol and Rifle Club – Silhouette Range Renewal Inspection Results – 2018” as written by Lana Kerr – Firearms Officer, “The backstop and berms need to be built up in the spring – the main backstop measures at 5m and should be 6m. The berms on either side do not meet the requirements – 2.5m minimum height, minimum 1.5m crest thickness and minimum 30⁰ slope face. The west berm measures 3m but does not meet the other requirements and the east berm only measures at 2.15m.”

In addition the Multi-Gun range Director has asked to have a second lane of fire built directly to the east of the existing berm which would require the upgrading of the existing east berm and the addition of a second berm.

REQUIRED WORK

1. Addition of 2m (2m x 40m) of soil to the top of the 200m backstop. (Appendix #1)
2. Addition of 2.5m (2.5m x 43m) of soil to the top of the 300m backstop. (Appendix #2)
3. Addition of a 10m berm (10m x 2.5m x 1.5m) attached to the 300m backstop. (Appendix #2)
4. Addition of 3m (3m x 36m) of soil to the top of the 400m backstop. (Appendix #3)
5. Addition of 3m (3m x 55M) of soil to the top of the 500m backstop. (Appendix #4)
6. Addition of soil to provide 1.5m crest on top of the west berm of the Multi-gun range. (Appendix #6)
7. Addition of .25m (.25m x 100m) of soil on top of the east berm of the Multi-gun range. (Appendix #6)
8. Removal of vegetation and installation of a new 2.5m (2.5m x 100m x 1.5m) berm on east side of the Multi-gun range new shooting lane.
9. Installation of a 6m backstop at the end of the new Multi-gun range shooting range.
10. Addition of a backstop at the 100yd target holder which is .5m taller than the target holder and 4m wider at each side of the target holder.

ISSUES TO CONSIDER

1. The cost of the earthen work to bring the backstops up to regulation height.
2. The cost earthen work to build the 300m berm to protect the Black Powder and Trap & Skeet ranges.
3. The cost of the earthen work to develop the second lane of fire at the Multi-Gun range.
4. Environmental approval to remove vegetation and rework the earth to provide the soil to bring the backstops up to regulation and build the new additions.
5. Results of the proposed gun re-classification by the Liberal Government which would ban the use of carbine style rifles and semi-automatic weapons and hand guns. This could have an impact on whether additional work would be justified at the Multi-gun range.