

SOUTH DAKOTA SHOOTING SPORT COMPLEX



PROJECT SUMMARY

PROJECT DESCRIPTION

The Game, Fish and Parks South Dakota Shooting Sport Complex aims to be the premier firearms range complex in the region. Four hundred acres of rolling topography, solitude and natural beauty offer the perfect site for sporting enthusiasts within minutes from several surrounding communities.

Organized in two separate areas (north and south), the complex offers a wider variety of options for all levels from hunters and recreational shooters to law enforcement training spaces. Designed with safety in mind, the range complex will offer people and families a world class opportunity to participate in multiple shooting sports. There is plenty of room for beginners and experts to shoot side by side with facilities for education, outreach, and organized shooting competitions. The Master Plan is presented in phases for development based on funding availability and indicating potential for future growth based on the growing needs of the sporting population.

This Master Plan is a celebration of the outdoor heritage of western South Dakota and an invitation to what lies ahead for the recruitment, retention and reactivation of shooting sports in the region.

PROJECT GOALS

- » To provide a safe designated place for people to go.
- » To create one complex that provides all amenities.
- » To layout the range so that it is well organized and flows nicely.
- » To build a range that supports the R3 Efforts: To recruit, retain, reactivate outdoor enthusiasts.
- » To build a community partnership project.
- » To design a complex that feels convenient, safe, and easy to use - just a few minutes from surrounding communities.



“GROWING UP IN SOUTH DAKOTA, SHOOTING SPORTS WERE A BIG PART OF HOW I WAS RAISED. OUR RESIDENTS AND OUR VISITORS SHOULD HAVE ACCESS TO QUALITY SHOOTING RANGES WHERE THEY CAN LEARN SAFE AND RESPONSIBLE USE OF FIREARMS. THIS NEW PUBLIC RANGE IS JUST MINUTES FROM RAPID CITY AND WILL OFFER THE FINEST OUTDOOR SHOOTING RANGE EVER CONSTRUCTED BY GAME, FISH AND PARKS. THIS WILL PROVIDE OPPORTUNITIES SO THAT GENERATIONS TO COME CAN LEARN TO LOVE SHOOTING SPORTS JUST AS I DID.”

GOVERNOR KRISTI NOEM



WHY DOES SOUTH DAKOTA GAME, FISH AND PARKS CARE ABOUT SHOOTING SPORTS AND SHOOTING RANGES IN SOUTH DAKOTA?

The SD Game, Fish and Parks (GFP) has a history of promoting safe and accessible shooting sports opportunities for residents and visitors to SD. We have a commitment to providing shooting range opportunities on public lands and a shooting range grant program to assist with maintenance and development of private ranges in exchange for public access to those ranges. Currently GFP operates eighteen shooting ranges across SD.

In the late 1930s, an existing excise tax on firearms and ammunition was redirected to state fish and wildlife agencies for wildlife species restoration. What became known as the Pittman-Robertson (PR) Federal Aid in Wildlife Restoration

Act has provided over \$12 billion to states since it was put in place. While the bulk of the funding is used for wildlife management, PR funds have also been used by states to build and maintain shooting ranges. Now, with the Target Practice and Marksmanship Training Support Act signed into law in 2019, states have even more flexibility to use these funds to construct and enhance public shooting ranges. Recreational shooters are a key constituency helping to pay into the PR funding program. GFP recognizes that recreational shooters pay a large portion of excise taxes on their guns and ammunition that put funds into the PR program.

55%

Approximately 55% of South Dakota voters own a firearm.

In 2007, PR apportionments were approximately \$267 million and in 2015 increased to \$808 million almost entirely due to non-hunting recreational shooters.

Southwick Associates estimates that there are approximately **159,400 shooting sports participants in South Dakota** that spend an average of **1,336,200 days of shooting annually**. This activity is estimated to support **846 jobs** with salaries and wages totaling **\$27 million** in South Dakota.

Shooting sports in South Dakota generate an estimated...

\$55
MILLION
in retail sales

\$6
MILLION
in federal taxes annually

\$4
MILLION
in state and local taxes

Support for the second amendment, recreational shooting and acceptance of firearms in the public is a key factor in keeping our hunting heritage alive now and in the future.

South Dakota receives approximately 11.7 million dollars in PR funding, which is used to wildlife management and other conservation efforts.

POTENTIAL IMPACT

The total economic impact of the firearm and ammunition industry in the United States increased from \$19.1 billion in 2008 to \$63.5 billion in 2019, a 232 percent increase, while the total number of full-time equivalent jobs rose from approximately 166,000 to over 342,330, a 106 percent increase in that period, according to a report released by the National Shooting Sports Foundation®, the industry's trade association.

Southwick Associates' reports that Federal Aid in Wildlife Restoration excise taxes are generated by hunting related and non-hunting related activities. Non-hunting activities are generally comprised of recreational shooting, home and self-defense, firearms collecting and non-law enforcement or military work-related purchases. As of 2020, firearms represented 59.9% of all U.S. consumer sales obligated to pay into the Wildlife Restoration program. The other sources are ammunition (33.9% of taxable sales) and archery products (6.2%). Of U.S. retail firearms sales, 22.0% can be assigned to hunting purposes, and the remainder (78.0%) to non-hunting purposes. Of U.S. retail ammunition sales, 32.3% can be assigned to hunting purposes, and the remainder (67.7%) to non-hunting purposes.

The statewide average of shooting sport participants in South Dakota is 5.55% of the total population. One of the goals of the South Dakota Shooting Sports Complex is to recruit and reactivate shooting sport participants in Meade and Pennington Counties and surrounding areas to increase the percentage of shooting sport participants. With this increase we could expect approximately 865 more shooters in Pennington County and 300 more in Meade County. Shooting sport participants spend between \$100 and \$250 per month or \$1,200 - \$3,000 per year on shooting equipment, ammo, guns, etc. These numbers are considered to be low due to the current demand for and availability and prices of shooting sport products. Increasing the number of shooting sport participants in Meade and Pennington Counties would generate an estimated increase of \$503,570 in Meade County and \$1,038,000 - \$2,595,000 in Pennington County of additional money spent on shooting sports annually. Elevate Rapid City estimates that the proposed shooting sports complex will generate an additional \$2.7 million in sales at sporting goods stores in the Meade/Pennington area annually. The shooting sports complex locally will support 55 new jobs with \$1.8 million in additional payroll. They estimated an additional \$376,000 in tax payments.

The South Dakota Shooting Sports Complex will host a number of local and national shooting competitions and events which will generate significant positive economic impact to the area. As an example, Southwick Associates reported that the 2015 SSSF National Championship at the World Shooting and Recreational Complex in Sparta, Ill. contributed \$15,797,787 to the Illinois GDP, generated \$3,960,917 in tax revenues, and supported 245 jobs in the state.



PROJECT PROGRAM



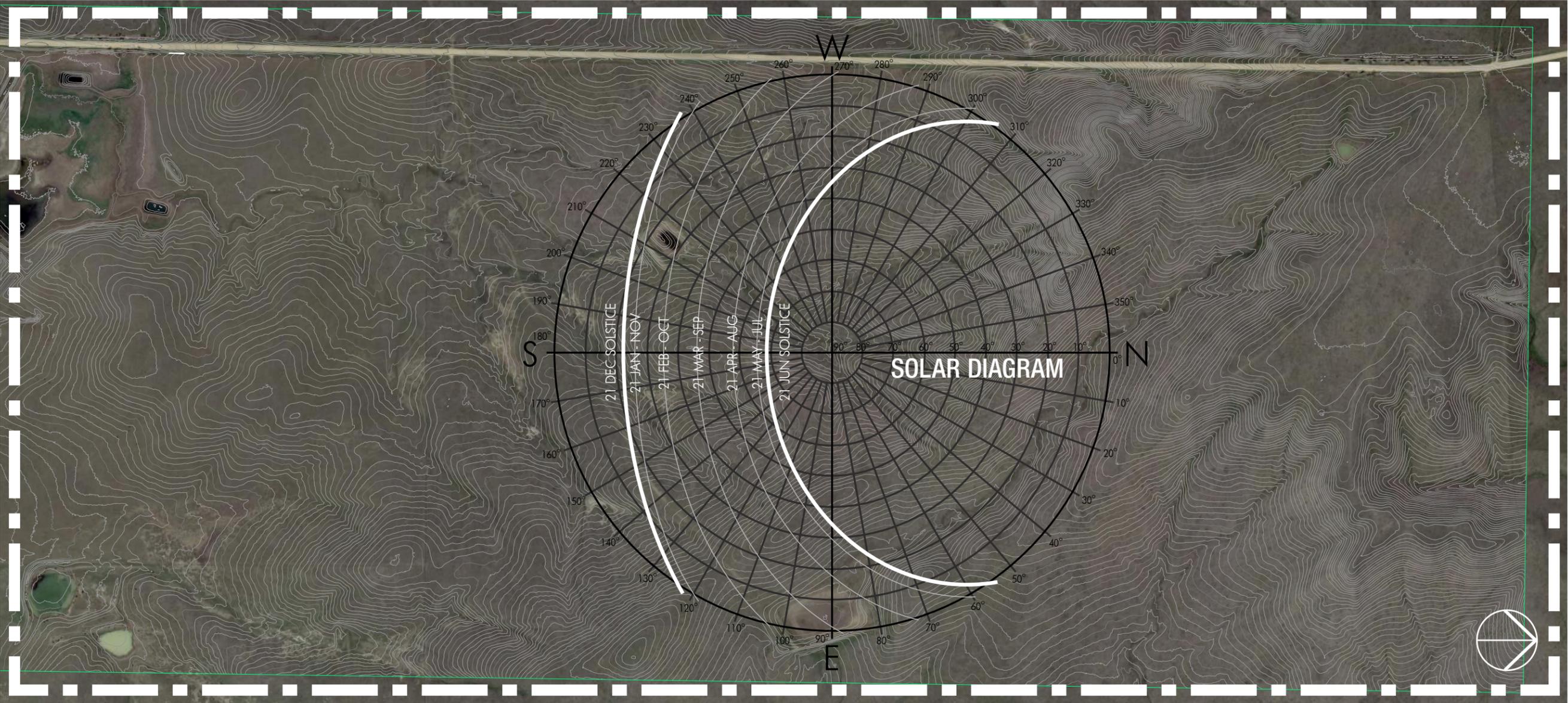
SD Shooting Sport Complex PROJECT PROGRAM

	Area / Activity	Qty	Lanes	Dimension	Requirements	Equipment	Adjacencies	NOTES:
BUILDING FACILITY NET AREAS:								
SOUTH END								
	Hunter Ed Building	1		60' x 110'	Overhead door into storage (for driving equipment in / out)		Good visual control of area from office window	Potential of using the space for air rifles. Will have a mezzanine, office space, bathrooms (single use - two), multiuse space for shooting lanes, classes, meetings, storage for equipment and targets.
	50-yard Bay	5	5 lanes per bay	18 yds x 50 yds per bay	Side and back berms	Two bays with shooting benches for .22, muzzleloader, etc.		
	100-yard Bay	6	10 lanes per bay	36 yds x 100 yds per bay	Side and back berms	Shooting Benches		
	200-300 yard Shooting Area	1	40 shooting positions	43,000-yard area		Metal targets and shooting benches		
	Stationary Shotgun Clay Target Area	10 stations	1 lane per station	10' x 10' shooting pad and 900' fallout range	Shooting window mounted to shooting area	Mounted clay bird throwers		
LONG RANGE								
	Long Range	1	20 lanes per bay	72 yds x 1,200 yds per bay	Longest target range set to 1,200-yds	Staggered targets from 300-yds to 1,200-yds		
NORTH END								
	Action Bay	11	-	30 yds x 50 yds per bay	Each action bay to have a shelter and electrical power			
	Action Bay	3	-	30 yds x 75 yds per bay	Each action bay to have a shelter and electrical power			
	Action Bay	3	-	30 yds x 100 yds per bay	Each action bay to have a shelter and electrical power			
	Versatile Training Area	1	-	50 yds x 300 yds	Gravel path around the action area. Includes berming on all sides			
	Sporting Clays	12 stations	1 lane per station	10' x 10' shooting pad and 900' fallout range	Shooting window mounted to shooting area	Mounted clay bird throwers		

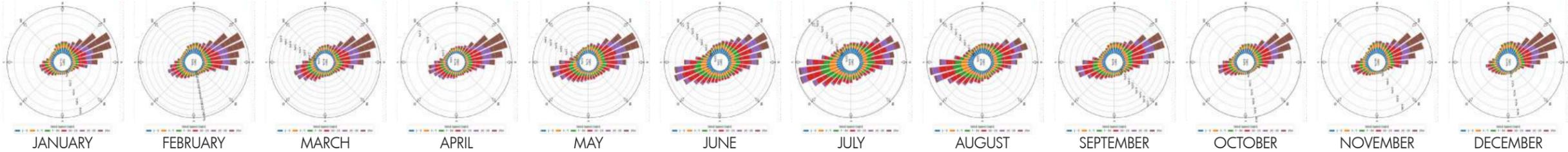
EXISTING SITE | SITE LOCATION



EXISTING SITE | SITE ANALYSIS



WIND ROSES



CASE STUDIES

CMP TALLADEGA MARKSMANSHIP PARK

CIVILIAN MARKSMANSHIP PROGRAM | TALLADEGA, AL

CMP is a national organization dedicated to training and educating U.S. citizens in responsibility uses of firearms and air rifles through gun safety training, marksmanship training and competitions.



CAMEO SHOOTING AND EDUCATION COMPLEX

CAMEO SHOOTING AND EDUCATION COMPLEX | PALISADE, CO

Thoughtfully designed by competitive shooters seeking to build a world-class shooting environment, the Cameo Shooting and Education Complex is a top destination for people from all over the world to participate in organized shooting competition.

The Complex serves as an educational and training facility, where kids can learn about the safe use of firearms and law enforcement can sharpen their skills.



CASE STUDIES

SITE SUPPORT BUILDINGS



MASTER PLAN

OVERALL SITE

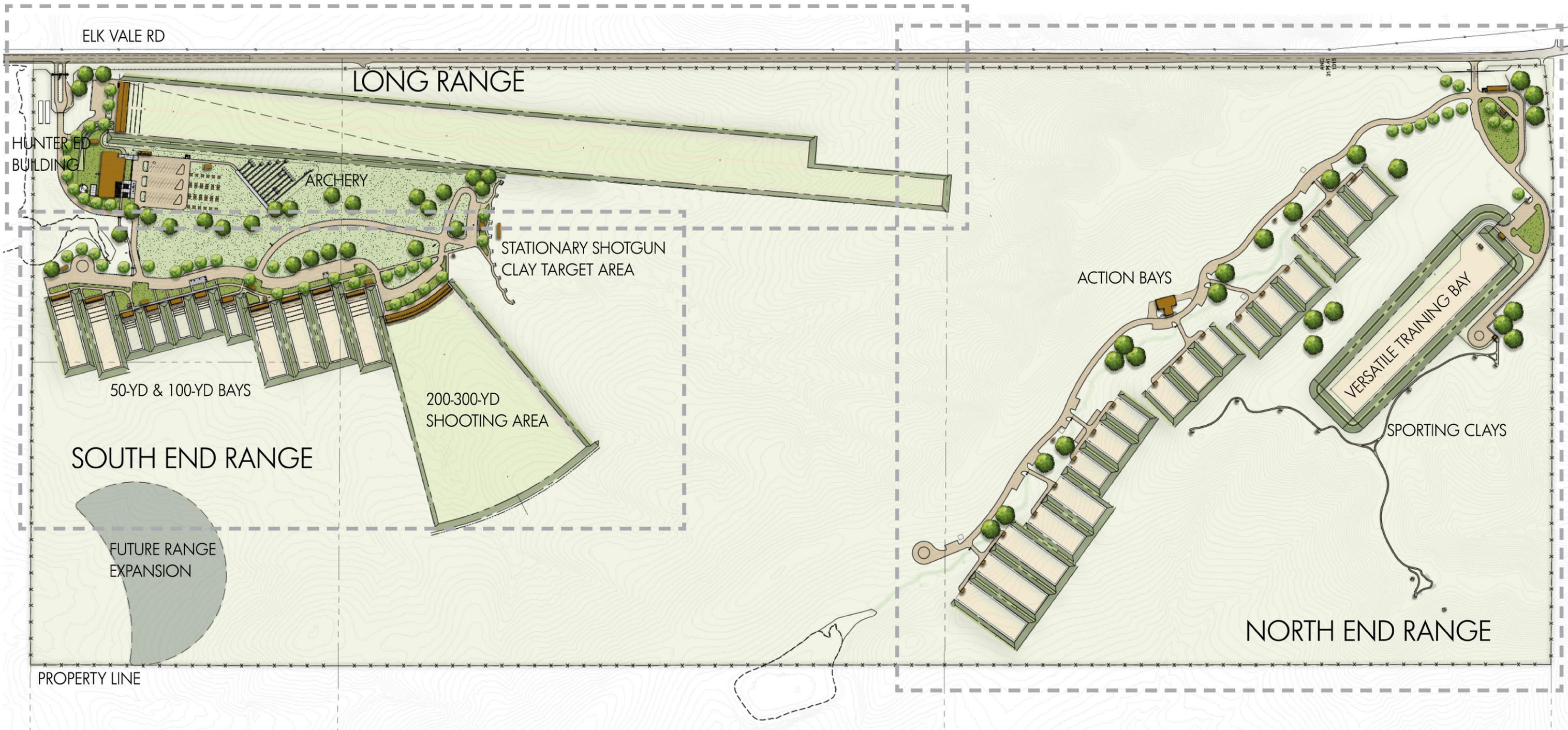


- MASTER PLAN LEGEND**
- | | |
|---|--------------------------|
| A. SOUTH ENTRY WITH TURNAROUND | Q. HAIL SHELTER |
| B. HUNTER EDUCATION BUILDING | R. SPORTING CLAYS |
| C. ENTRY PATIO | S. SEPTIC AREA |
| D. PATIO | T. STORAGE SHEDS |
| E. 1,200 YARD BAY | U. NORTH SECURED ENTRY |
| F. 1,000 YARD BAY | V. SWALE |
| G. 200/300 YARD BAY | W. 75 YARD ACTION BAY |
| H. 100 YARD BAY | X. MULTI-USE LAWN |
| I. 50 YARD BAY | Y. TURNAROUND |
| J. 50 YARD ACTION BAY | Z. 20 LANE ARCHERY RANGE |
| K. 100 YARD ACTION BAY | |
| L. 50 X 300 YARD ACTION LAW ENFORCEMENT BAY | |
| M. STATIONARY CLAY SHOOTING | |
| N. PARKING | |
| O. DRAINAGE AREA | |



MASTER PLAN

PHASING PLAN



SOUTH END RANGE



The Complex's South End Range is intended to be open to the general public. A visible entrance feature will welcome guests to the Complex and provide navigation for visitors on the different areas to be accessed. Adequate wayfinding will be incorporated into the design for ease of navigation. The range provides a wide variety of areas to cater to the varied interest of hunters and recreational shooters.

SPECIFICATIONS

- 50-yard Bays
 - » Five (5) bays with five (5) lanes each
- 100-yard Bays
 - » Six (6) bays with ten (10) lanes each
- 200/300-yard Shooting Area
 - » Forty (40) shooting positions
- Stationary Shotgun Clay Target Area
 - » Ten (10) shooting positions with mounted clay bird throwers

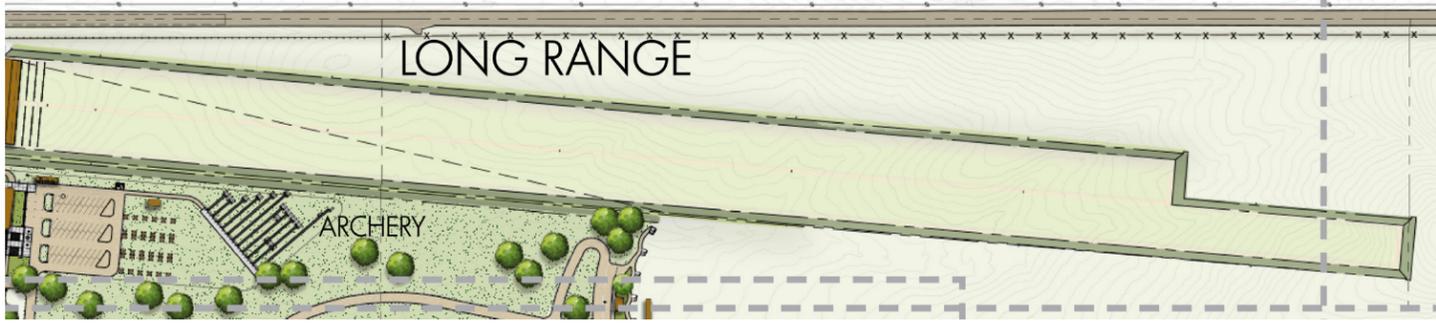
LOGISTICS

- Parking lot with approx 100 stalls
- Parking area convenient from each bay
- Storage space
- Vault toilets located throughout

SHOOTING BAY AMENITIES

- Gravel surfacing
- Shade shelter outside action line

LONG RANGE



The Long Range will share an entrance to the South End Range and will operate concurrent from other areas. This area provides the maximum shooting lengths that the site allows. The range is rotated 5° from the road in order to avoid visual distractions along the road. This area is accessible to experienced shooters. The Hunter Ed Building will provide space for a staff office with good visibility of the range for when staff is present. A Central Green space can accommodate various uses including overflow parking, but also space for outdoor events.

SPECIFICATIONS

- Long Range**
 - One (1) bay with twenty (20) lanes
 - Two (2) shooting positions each lane
 - F Class Position at 600-yards

Hunter Education Building

- Flexible use building
- Twelve (12) air rifle or archery lanes

LOGISTICS

- Parking lot with approx 100 stalls
- Parking area convenient from each bay
- Storage space

SHOOTING BAY AMENITIES

- Gravel surfacing
- Shade shelter outside action line



HUNTER ED BUILDING

NORTH END RANGE



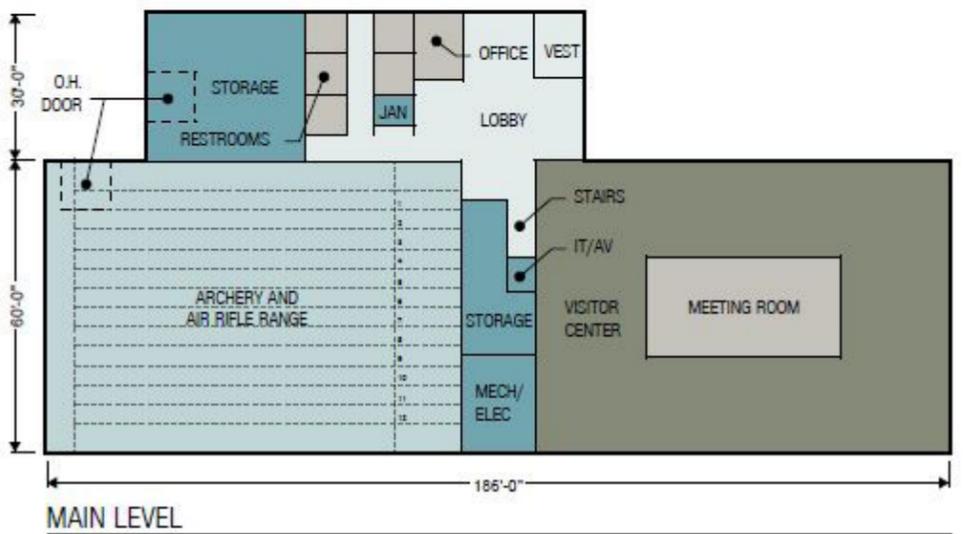
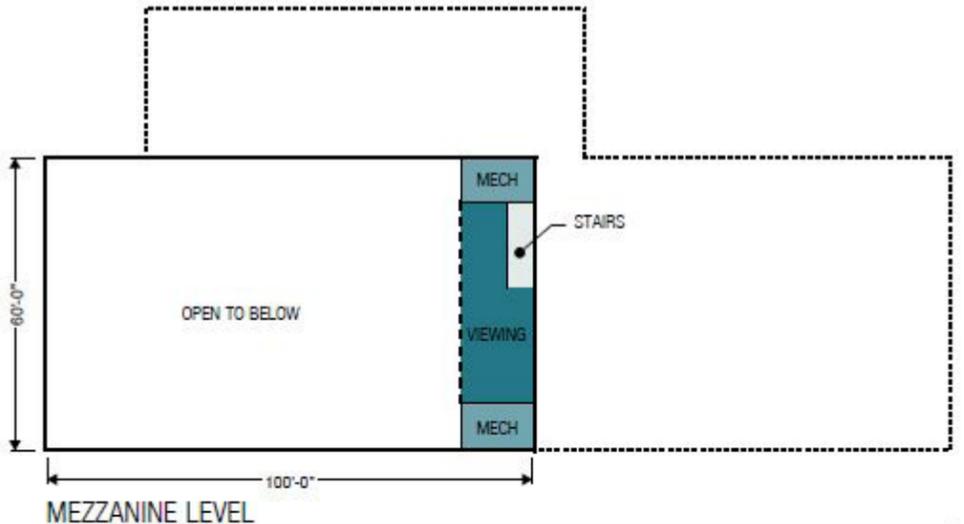
The Complex's North End Range is located in the highest point of the site, the area with the most challenging topography, lending itself nicely to the Sporting Clays area. The North End Range will have controlled access and the entrance will not be prominently noticeable from the road. Adequate way-finding will be incorporated into the design for ease of navigation. The range provides a variety of areas to cater to the varied interest of the experienced shooters, shooting clubs and law enforcement groups.

SPECIFICATIONS

- Action Bays
 - » Eleven (11) 50-yard bays
 - » Three (3) 75-yard bays
 - » Three (3) 100-yard bays
- Versatile Training Bay
- Sporting Clays (Shotguns)
- Twelve (12) shooting positions with mounted clay bird throwers

LOGISTICS

- Parking area convenient from each bay
- Area for placement of storage sheds
- Vault toilets located throughout



SPECIFICATIONS

Dimensions: 60' x 110'

POTENTIAL USES

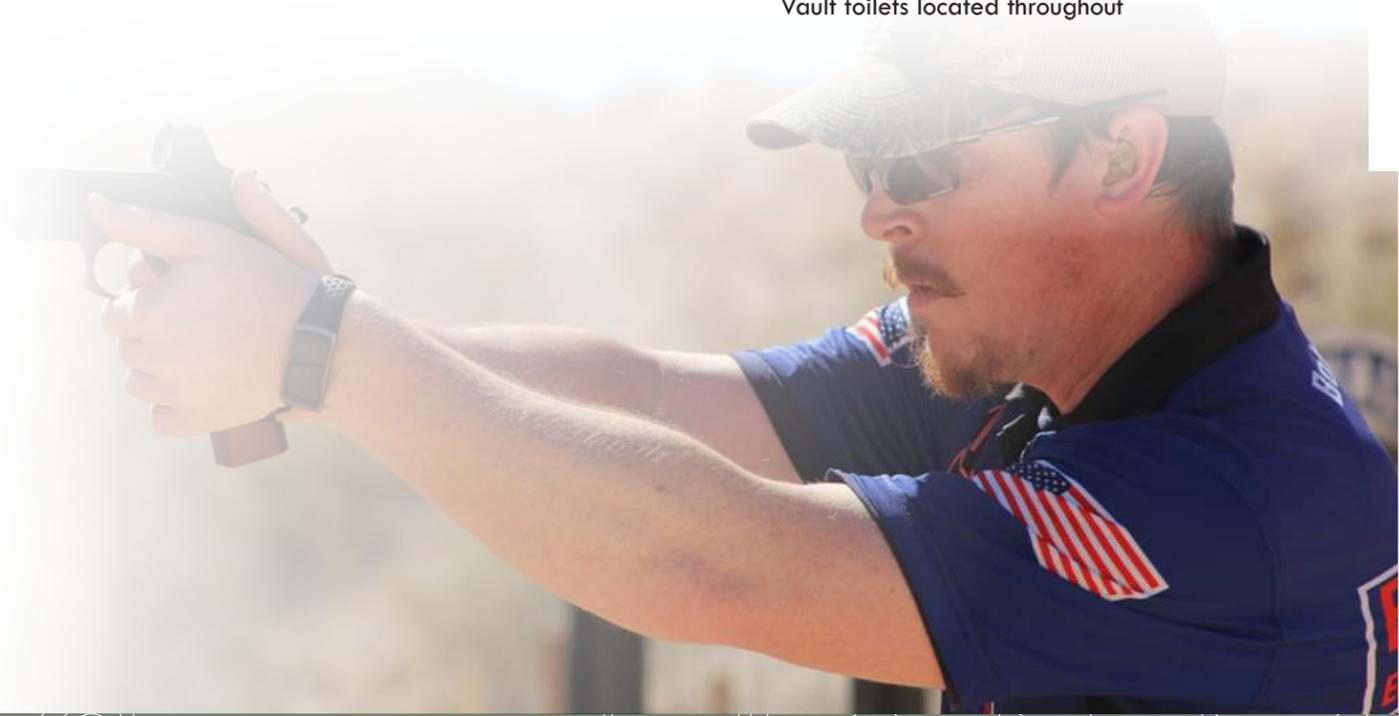
- Hunter Education Classes
- Large / Small Meeting Capacity
- Staff Office
- Storage with direct exterior access
- Air Rifle or Archery lanes with twelve (12) shooting lanes at 20-yds

USERS

- Education staff and students
- Youth Groups
- Shooting sport groups

AMENITIES

- Power
- Water
- Technology
- Views of South Range



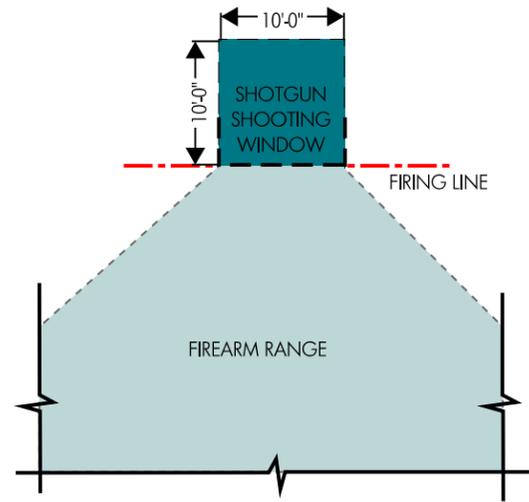
HUNTER ED BUILDING AND PLAZA



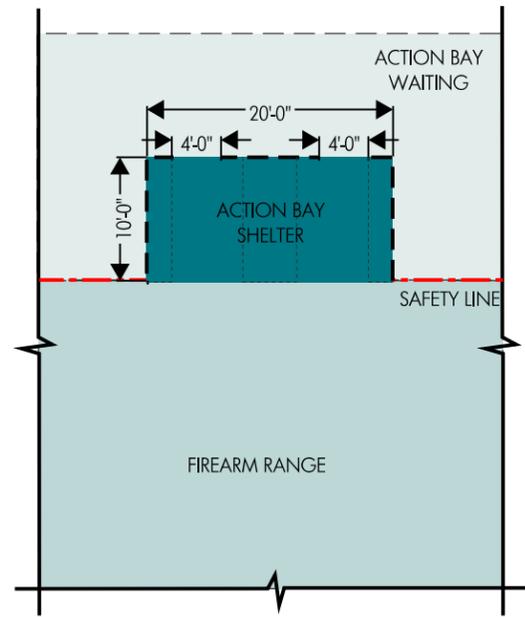
HUNTER ED BUILDING 3D RENDERING



TYPICAL RANGE SHELTERS



SHOTGUN BAY SHELTER LAYOUT



ACTION BAY SHELTER LAYOUT



TYPICAL LAYOUTS

50 YARD RANGE

LOCATION

South End Range

SPECIFICATIONS

Five (5) bays with five (5) lanes each
Two (2) of the lanes with benches
Storage shelf / table at shooting lanes

DIMENSIONS

Lane: 10' wide
Side Boundary: 8' wide
First Target Line: 25 yards
Second Target Line: 50 yards
Back Berm: 52 yards

TARGETS

Paper Targets on Target Backer

BERM HEIGHT

Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Pistols, muzzle loaders, and possibly rifles for sighting in

Age Range: Users of all ages

Experience Level: Novice to Experienced

Potential associated use: Possibly some competition shooting and club days for local gun clubs.



100 YARD RANGE

LOCATION

South End Range

SPECIFICATIONS

Six (6) bays with ten (10) lanes each
All lanes with benches - ambidextrous

DIMENSIONS

Lane: 10' wide
Side Boundary: 8' wide
First Target Line: 50 yards
Second Target Line: 75 yards
Third Target Line: 100 yards
Back Berm: 106 yards

TARGETS

Paper Targets on Target Backer

BERM HEIGHT

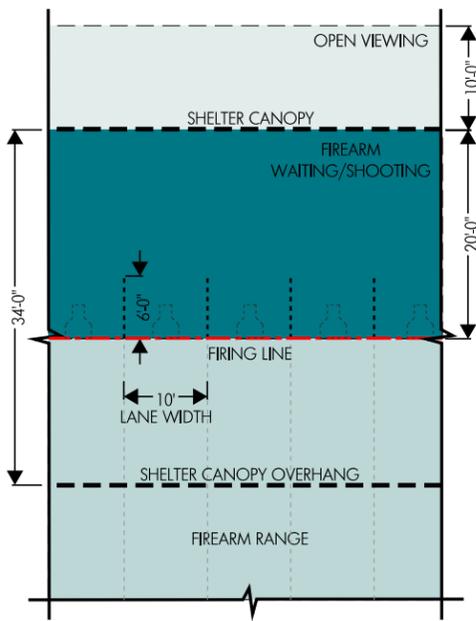
Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Rifles

Age Range: Users of all ages

Experience Level: Novice to Experienced

Potential associated use: Possibly some competition shooting and club days for local gun clubs.



RIFLE / HANDGUN BAY SHELTER LAYOUT



TYPICAL LAYOUTS

200-300 YARD RANGE

LOCATION

South End Range

SPECIFICATIONS

Forty (40) shooting positions
All lanes with benches - ambidextrous

DIMENSIONS

Lane: 10' wide
Side Boundary: 8' wide
First Target Line: 100 yards, then at each 25 yard line after
Back Berm: 306 yards

TARGETS

Steel Targets

BERM HEIGHT

Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Rifles
Age Range: Teenager and older
Experience Level: Novice to Experienced
Potential associated use: Used for long range shooting matches and precision rifle competitions.



1,000 AND 1,200 YARD RANGE

LOCATION

Long Range

SPECIFICATIONS

One (1) bay with twenty (20) shooting positions
All lanes with benches - ambidextrous

DIMENSIONS

Lane: 10' wide
Side Boundary: 8' wide
First Target Line: 300 yards, then at each 100 yard line after
Back Berm: 1,200 yards

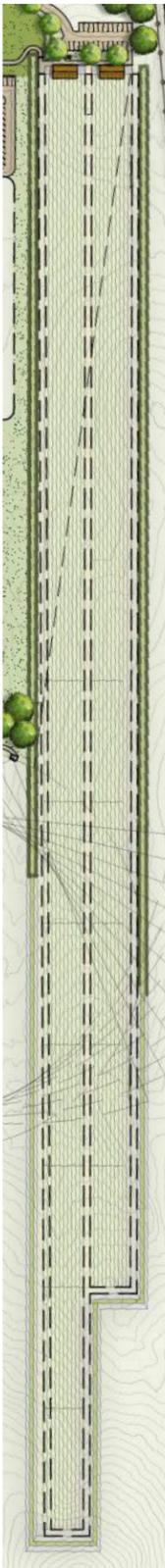
TARGETS

Steel Targets

BERM HEIGHT

Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Rifles
Age Range: Teenager and older
Experience Level: Experienced
Potential associated use: Open to the public. Used for long range shooting matches and precision rifle competitions.



TYPICAL LAYOUTS

STATIONARY SHOTGUN CLAY TARGET AREA

LOCATION

South End Range

SPECIFICATIONS

Ten (10) shooting locations
Clay bird throwers bolted down

DIMENSIONS

10' x 10' concrete pad
Shooting frame
900' fall out area

TARGETS

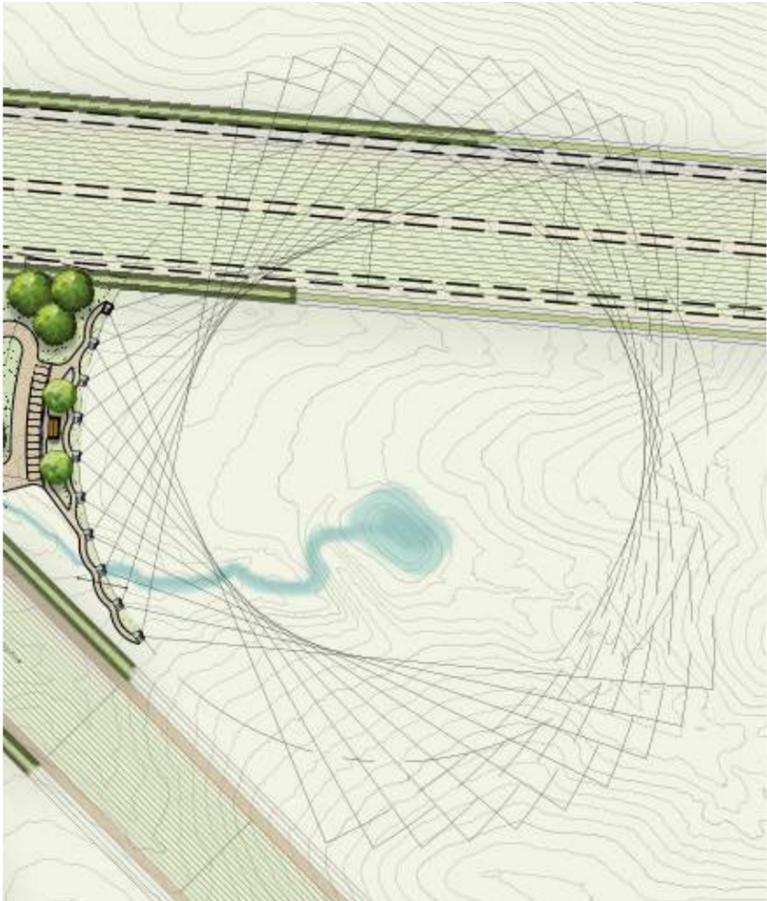
Clay birds

Primary Weapons: Shotguns with non-toxic ammo

Age Range: Users of all ages

Experience Level: Novice to Experienced

Potential associated use: Used by local clubs for contests.



ACTION BAYS

LOCATION

North End Range

SPECIFICATIONS

Eleven (11) bays - 50 yard length
Three (3) bays - 75 yard length
Three (3) bays - 100 yard length

DIMENSIONS

Bay: 30 yards wide
Side Boundary: 8' wide
Targets: By user group
Back Berm: 56 yards, 81 yards, 106 yards depending on bay length

TARGETS

By user group

BERM HEIGHT

Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Multiple Weapons

Age Range: Teenager and older

Experience Level: Experienced - Limited public access to range

Potential Associated Use: Primarily used by shooting groups.



TYPICAL LAYOUTS

VERSATILE TRAINING BAY

LOCATION

North End Range

SPECIFICATIONS

One (1) bay - 50 yards by 300 yards

DIMENSIONS

Bay: 300 yards wide
Side Boundary: 8' wide
Back Berm: 56 yards

TARGETS

By user group

BERM HEIGHT

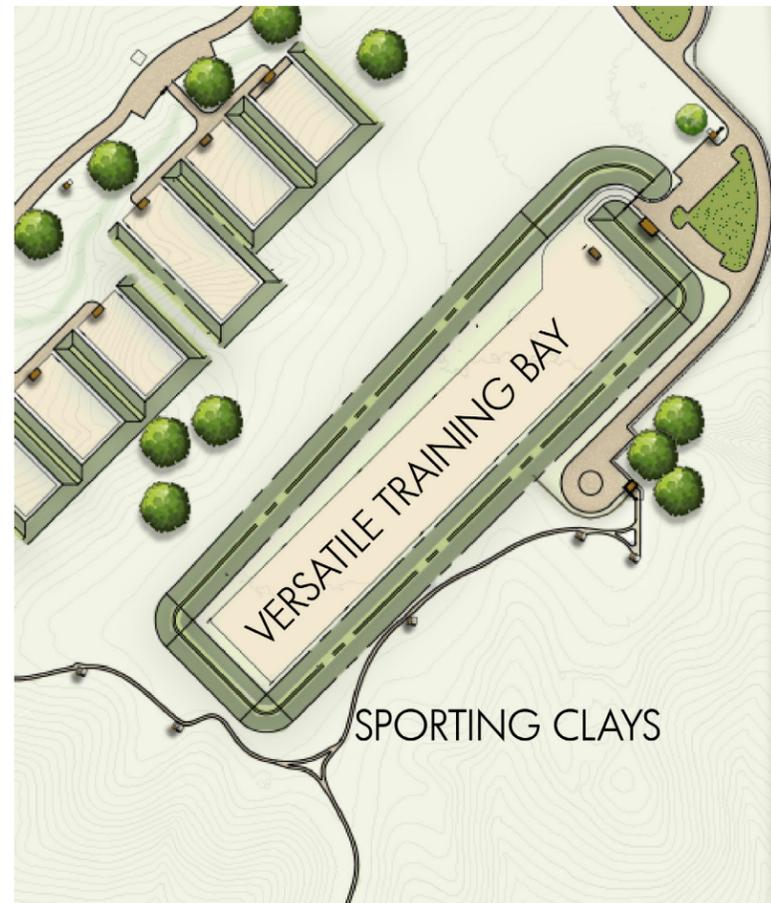
Sides: 12' minimum design height
End: 20' minimum design height

Primary Weapons: Multiple Weapons

Age Range: Teenager and older

Experience Level: Experienced / Professional - Limited public access to range

Potential Associated Use: Multiple use area for competition matches, shooting clubs, archery, general public use and law enforcement training and qualifying area. Used by local police, sheriff, federal agencies and GFP LE.



SPORTING CLAYS

LOCATION

North End Range

SPECIFICATIONS

Twelve (12) shooting locations

DIMENSIONS

10' x 10' concrete pad
Shooting frame
900' fall out area

TARGETS

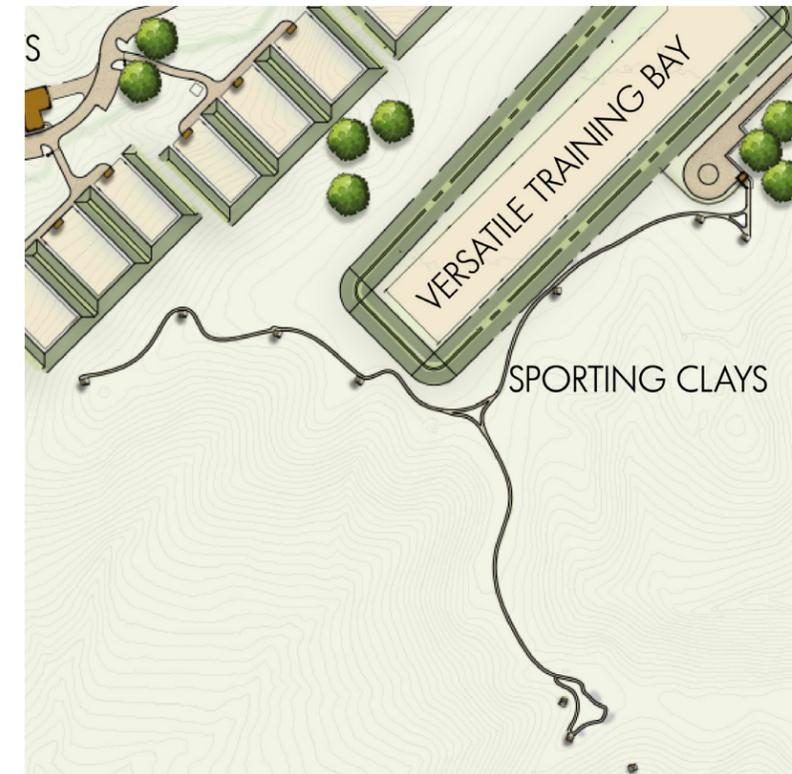
Clay birds

Primary Weapons: Shotguns

Age Range: Users of all ages

Experience Level: Novice to experienced - Limited public access to range

Potential Associated Use: Used by local clubs for contests and limited public access.



**WE SERVE AND CONNECT PEOPLE AND FAMILIES TO THE
OUTDOORS THROUGH EFFECTIVE MANAGEMENT OF OUR STATE'S
PARKS, FISHERIES AND WILDLIFE RESOURCES.**

