

DCOMP25 TECHNICAL SPECIFICATIONS

DCOMP 2025

A FIRST-OF-ITS-KIND DRONE COMPETITION

WHEN: WED. OCTOBER 8 &
THURS. OCTOBER 9

WHERE:



THE RANGE COMPLEX
2850 TIGERSWAN DR
AUTRYVILLE, NC 28318



Register at fcedc.com/drone-challenge

SUBJECT TO CHANGE
Accurate as of 04SEP25

**Direct all questions to
the DCOMP25 Signal chat:**



Signal is a private messaging app that does not collect user data. It is available for free through Google Play and the Apple Store.

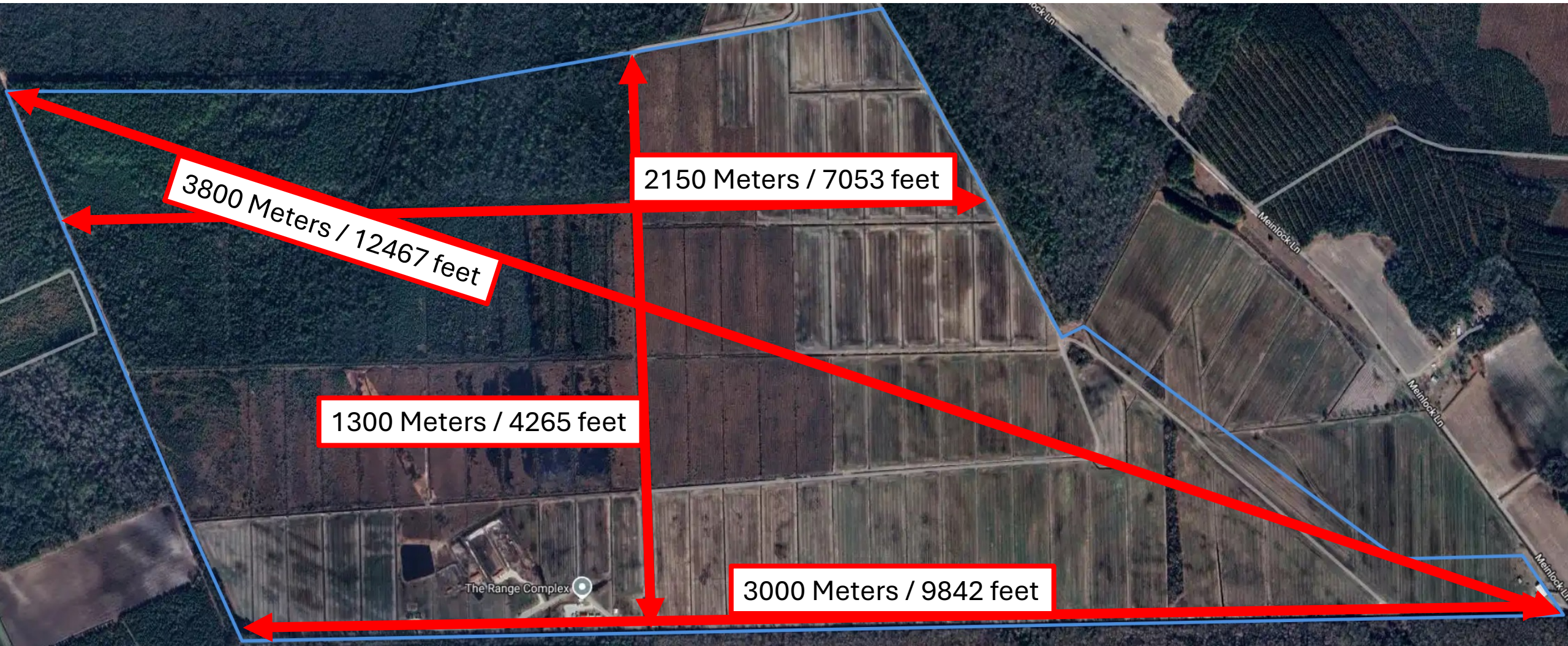
Airspace – Public Release



17S QU 11313 69371
17S QU 10211 69152
17S QU 09263 69131
17S QU 09715 68129
17S QU 09845 67862

17S QU 12944 67994
17S QU 12843 68129
17S QU 12551 68116
17S QU 11802 68641
17S QU 11751 68613
17S QU 11536 68995

Airspace Overview – Public Release



[illegible]

- Testing, Pre & Post flight conducted out back

Vendor Only Airspace

Only when competition is done for the day.

Airspace Dimensions

17S QU 10558 67983
17S QU 10537 68081
17S QU 10513 68068
17S QU 10449 68176
17S QU 10278 68094
17S QU 10211 68093
17S QU 10216 67890
17S QU 09850 67875
17S QU 09721 68135
17S QU 09268 69128
17S QU 10213 69148
17S QU 11307 69364
17S QU 11749 68604
17S QU 11801 68635
17S QU 12550 68109
17S QU 12840 68124
17S QU 12932 67999
17S QU 10815 67909
17S QU 10807 68030
17S QU 10627 68017





FLIGHT
DEMO

Briefing

PARKING

Latrine

Vendors

OPS
MEDIC

TENTS

Food Truck

EXTRA
PARKING

PARKING

Registration

DV
PARKING

The Range Complex

TigerSwan Dr

TigerSwan Dr



The Range Complex

OVERFLOW
PARKING

DV
PARKING

ARMORY /
FAB SHOP

MEETING /
INDOOR DEMO

TEAM

LATRINE

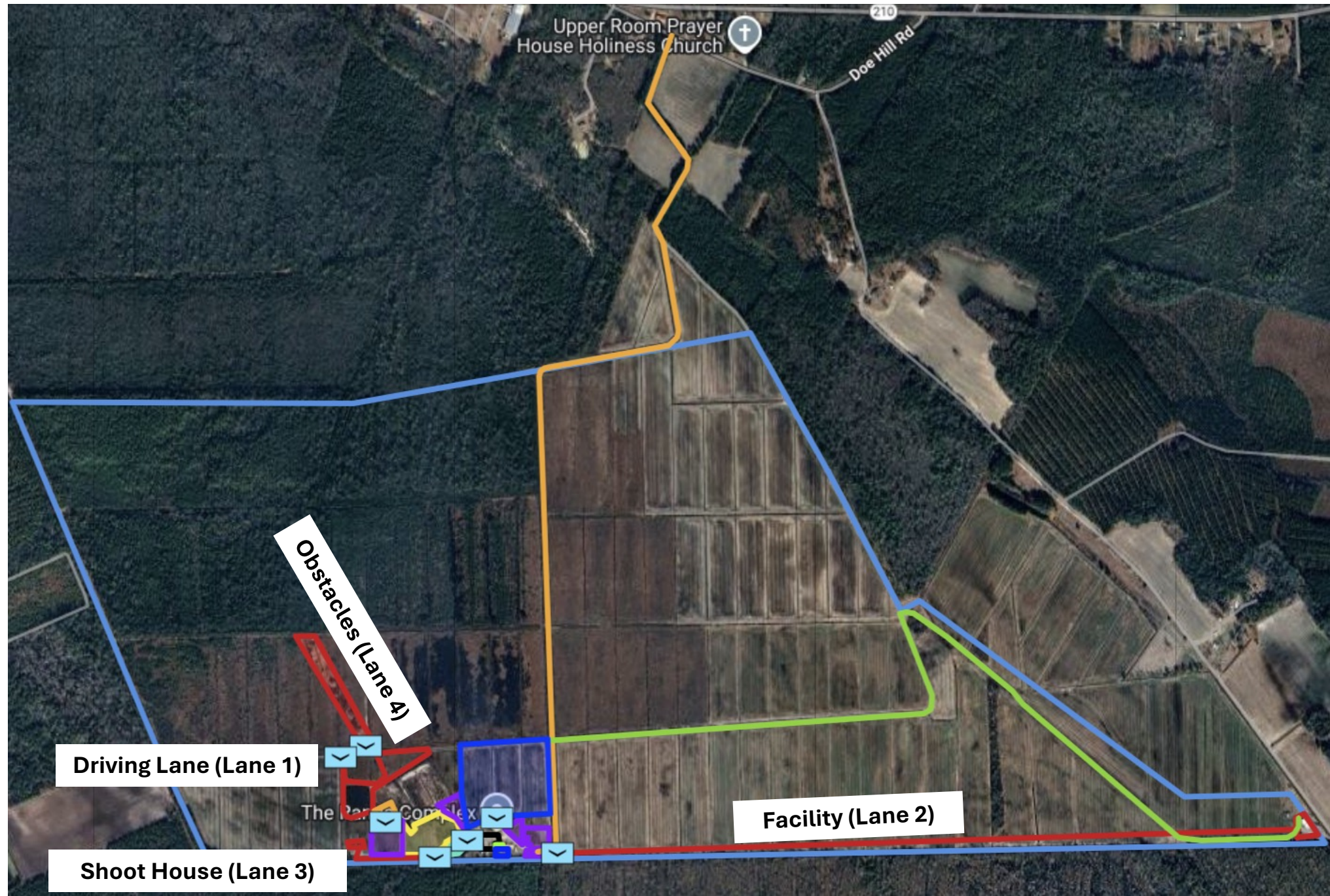
TigerSwan Dr

TigerSwan Dr

Main Travel Road



Range Overview – Day 1 – Public Release



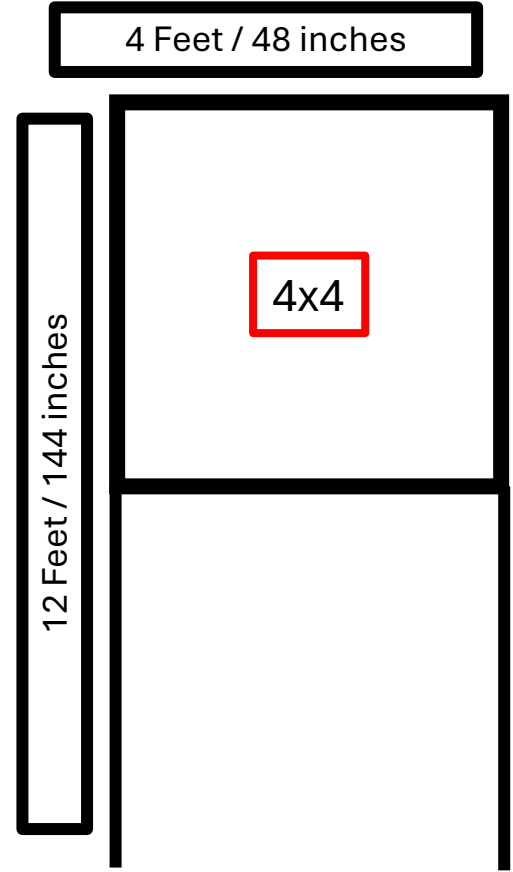
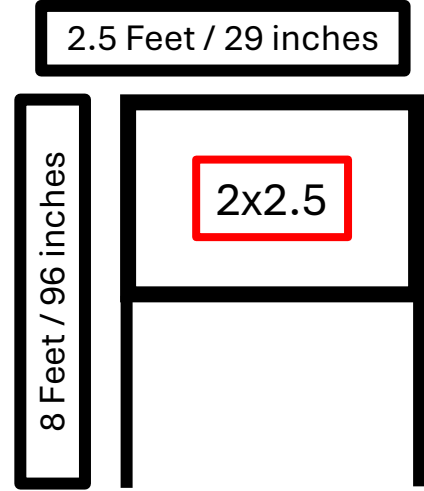
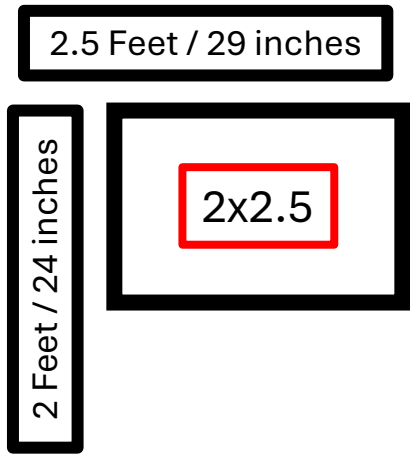
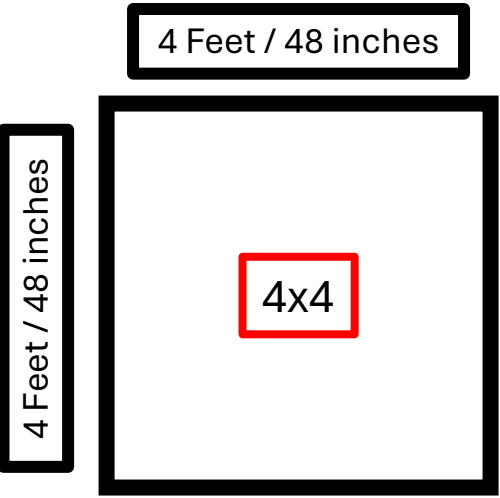
Day 1 Lanes – Public Release

- 4 Total Lanes.
- Maximum of 10 Minutes to complete each lane.
- Furthest distance to fly (Longest Lane) – 2,100 meters / 6,890 feet.
- Three lanes (1 to 3) will be active at the same time. (1 FPV/Quad per lane)
- Lane four will be a traditional style FPV race. (5 FPVs/Quad each race)
- You will need to have the ability to fly through obstacles.
- Could have issues flying in and around structures of various materials.
- Will need to find targets.
- Use of autonomous features is unauthorized. (GPS is authorized)
- Quadcopters only – Recommended sizes 3 inch up to 10 inch. Bring multiple sizes.
- NO PROP GUARDS
- Arrive No Later Than 0800 (8AM)
- Event Start Time: 0900 (9AM)
- Event Stop Time: 1600 (4PM)

Day 2 Lanes – Public Release

- **Team Size: 9**
- **Top competitors will be team captains.**
- **Have the ability to drop munitions.**
- **Have the ability for one way attack.**
- **Use of autonomous features is unauthorized. (GPS is authorized)**
- **The Armory can be utilized to modify aircraft on site.**
- **Quadcopters and Fixed wings are authorized.**
- **Arrive No Later Than 0800 (8AM)**
- **Event Start Time: 0900 (9AM)**
- **Event Stop Time: 1600 (4PM)**

Square Obstacle Dimensions – Public Release



NO PROP GUARDS ALLOWED

10 Minutes to Complete

Unknown Obstacles

An aerial photograph of a landscape featuring a large, dark, rectangular pond in the lower-left quadrant. A red line is drawn across the image, starting from the top left, following the top edge of the pond, then curving around its right side, and extending towards the top right corner. A white rectangular box with a red border is positioned in the upper-left corner, containing the text "Start & Stop". The surrounding terrain is a mix of brown, textured ground and some green vegetation. In the bottom right corner, there are some small, orange-roofed buildings.

Start & Stop

NO PROP GUARDS ALLOWED

10 Minutes to Complete

Red Route is 2,932 feet

Unknown Obstacles

Red Line = Vehicle Lane

Drive Lane

17S QU 10205 68170
17S QU 10212 68023
17S QU 10220 68007
17S QU 10235 68004
17S QU 10293 68025
17S QU 10296 68042
17S QU 10293 68083
17S QU 10435 68177
17S QU 10444 68188
17S QU 10442 68199
17S QU 10303 68186
17S QU 10301 68176
17S QU 10324 68124
17S QU 10321 68113
17S QU 10301 68099
17S QU 10220 68103
17S QU 10211 68111
17S QU 10208 68171

Facility (Lane 2) – Public Release

Start & Stop



Task

Fly to area.

Finding items.

Return to finish.

Time

10 Minutes to Complete

Maximum Range

2,100 meters



Shoot House (Lane 3) – Public Release



Task

Fly to area.

Finding items.

Return to finish.

Time

10 Minutes to Complete

Maximum Range

250 meters

Obstacles (Lane 4) – Public Release

Task

Fly Though Obstacles.

Fly through final gate to finish.

Time

10 Minutes to Complete

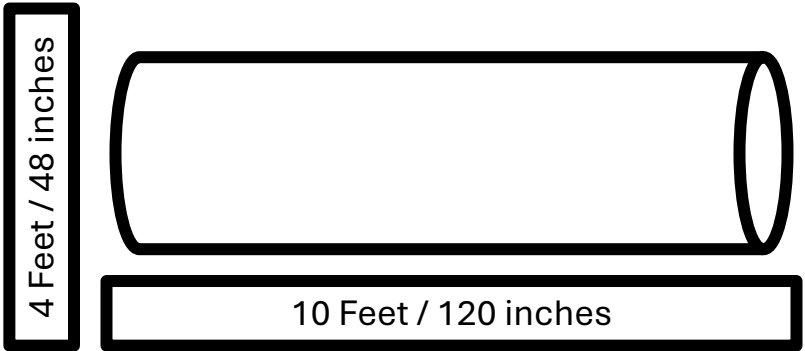
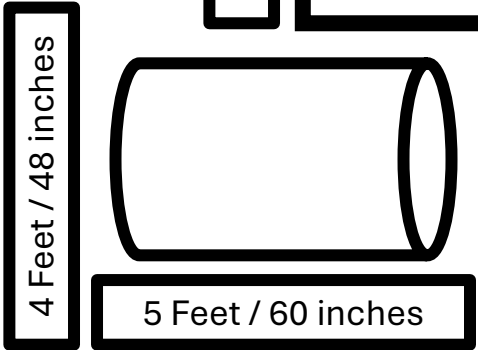
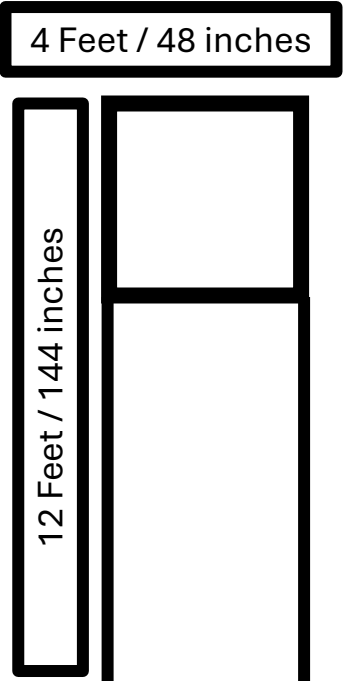
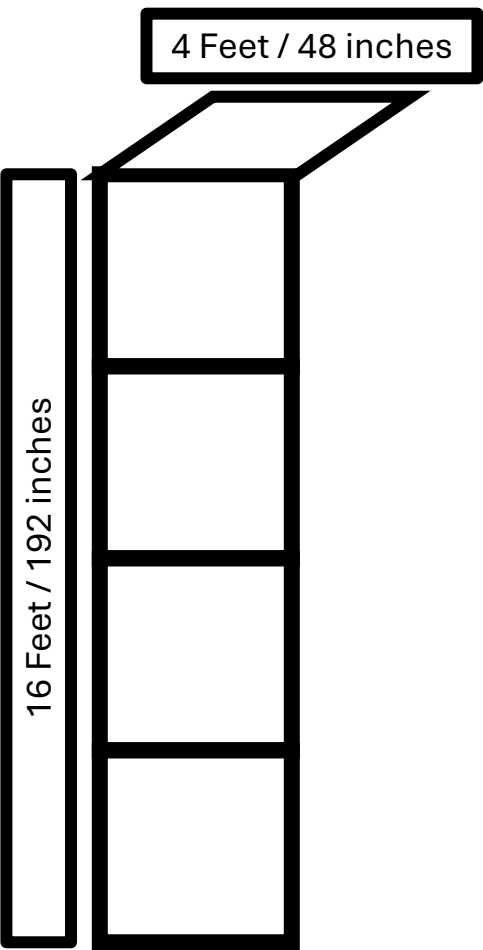
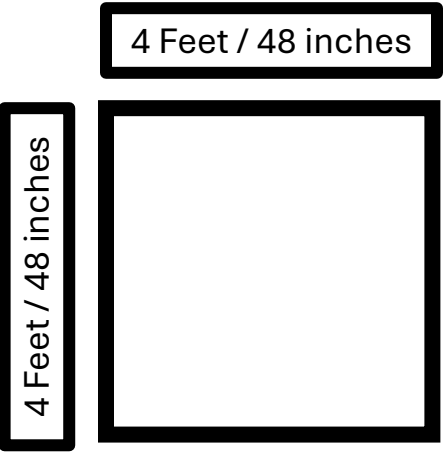
Maximum Range

1,100 meters

- 14 Obstacles
- NO PROP GUARDS



Square Obstacle Dimensions – Public Release



NO PROP GUARDS ALLOWED

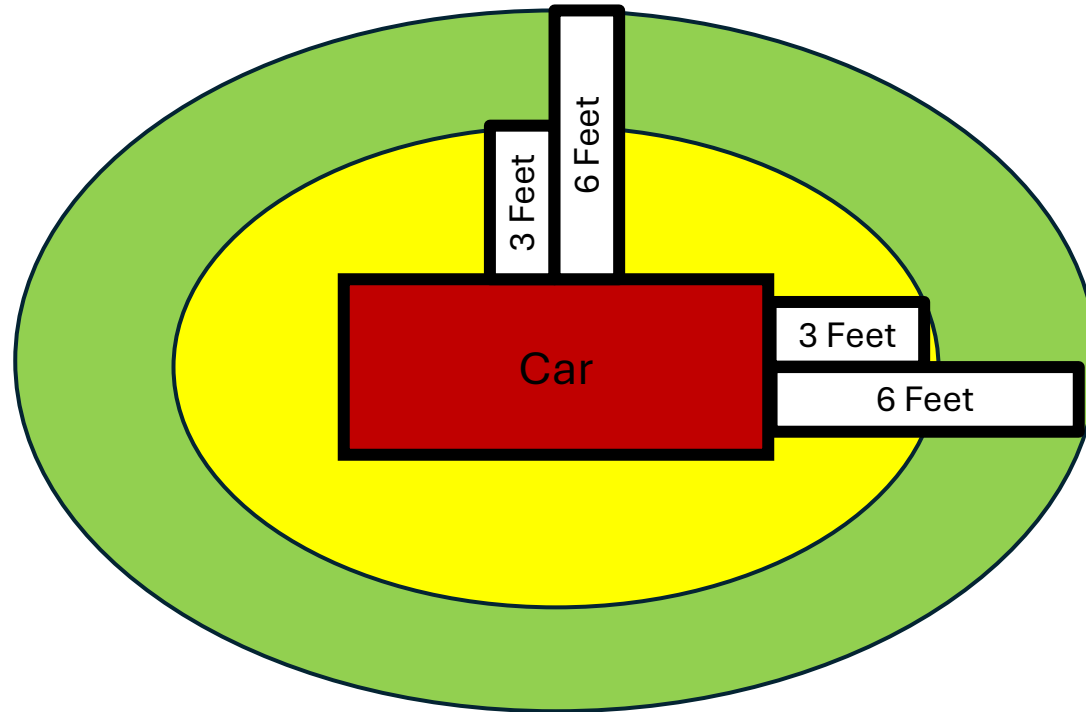
10 Minutes to Complete

Unknown Obstacles

Range Overview – Day 2 – Public Release



Bomb Drops – Public Release



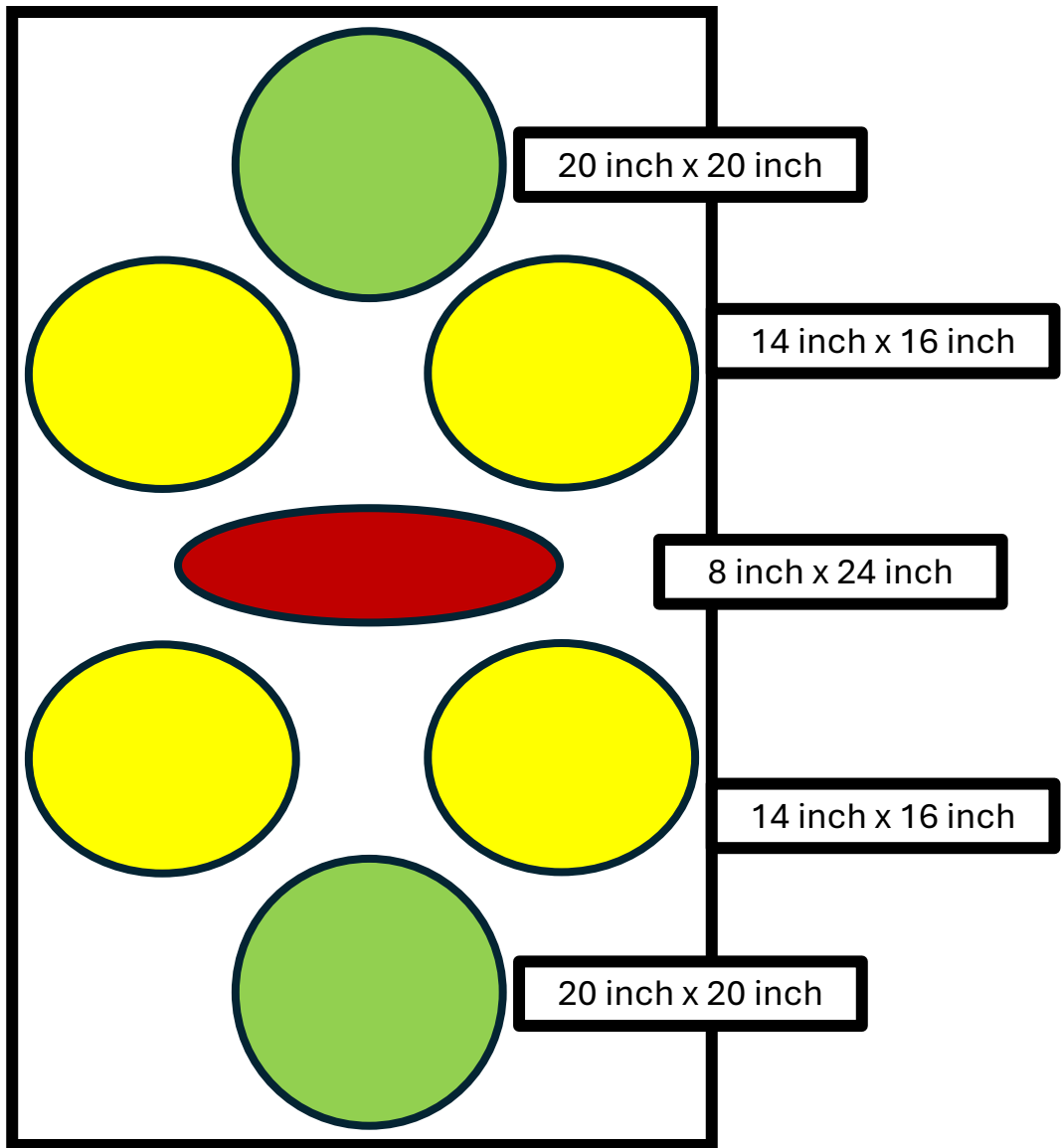
Red = x Points

Yellow = x points

Green = x Points

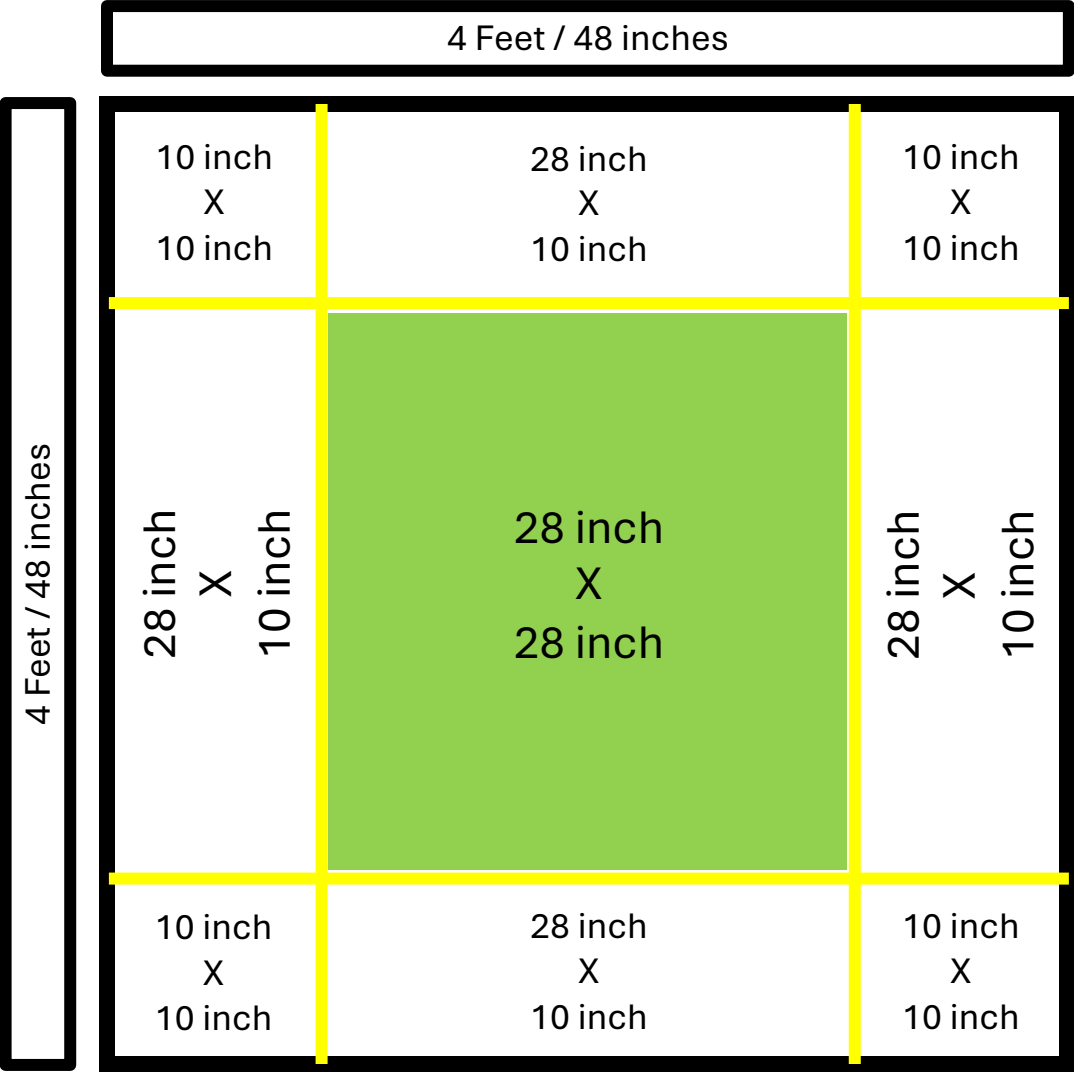
Anything else = 0 Points

One Way Attack Target – Public Release



Red = x Points
Yellow = x points
Green = x Points
Anything else = 0 Points

Square Obstacle Dimensions – Pay to play – Public Release



NO PROP GUARDS ALLOWED

10 Minutes to Complete

Unknown Obstacles