2026–2027 Field Acceptance Checklist

All events are expected to meet the minimum field acceptance requirements:

- Complete the following checks prior to the start of matches on each event day.
- Ensure all competition fields are identically constructed and set up.
- Re-check affected items each time a field repair or adjustment is made by event staff.

Section 1 – Field Observation

Item	#	Acceptance Criteria	☑
General Field	1.1	The entire field is clean and dry (including tiles).	
	1.2	Field is anchored, or two field **straps are correctly placed and tensioned**. *Straps should be approximately 6 in. (15.25 cm) from the centerline of the field, offset towards the audience and audience-left (see Figure 1).*	
Scoring Elements	1.3	There are **(40x) POLLEN** (yellow), **(8x) Red NECTAR**, and **(8x) Blue NECTAR**.	
	1.4	No obvious cracks, gouges, marks, discolorations, or deformities. *Look for significant marks and discolorations that may interfere with vision-based systems.*	
FLOWERS (4x) Total	1.5	Four FLOWERS are securely fastened at the correct field wall joints (see Figure 2).	
	1.6	Each FLOWER bottom ring rests flush against the tile floor and is firmly connected to the under-tile mount	
	1.7	Each FLOWER top opening is **21.5 ± 0.25 in.** (54.6 ± 0.65 cm) from the tile floor	
HIVE Assembly	1.8	All four ends of the HIVE frame foot bars end in the center of the fourth tile tooth from the tile junction ± 0.50 in. (± 1.30 cm) (see Figure 3)	
	1.9	All four wing nuts on the HIVE frame foot bars are tight. *Each frame foot bar should sink into the foam tile slightly.*	
	1.10	All HIVE Assembly bolts are tight.	
	1.11	CELLS are arranged correctly relative to the audience (see Figure 4). *Audience-facing CELLS have AprilTags 34–41 (in order).*	
CELLS (2x) Red, (2x) Blue	1.12	No obvious marks or damage to the AprilTags. *Look for significant marks and discolorations that may interfere with vision-based systems.*	
	1.13	When upright (opposite damper is fully depressed), the **bottom of each CELL opening** is **53.5 ± 0.50 in.** (135.90 ± 1.30 cm) above the tiles.	

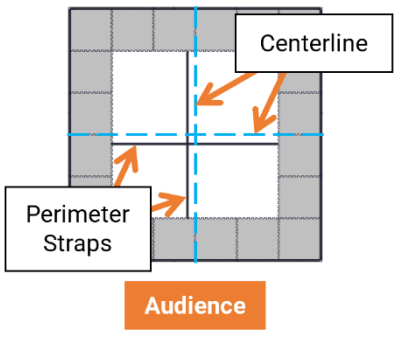


Figure 1: Perimeter strap offsets

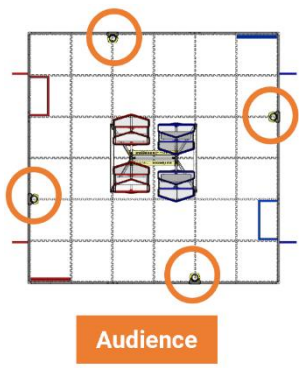


Figure 2: FLOWER locations

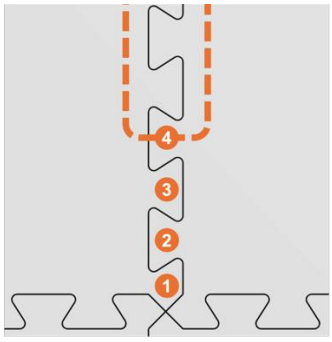


Figure 3: HIVE frame foot bar relative location

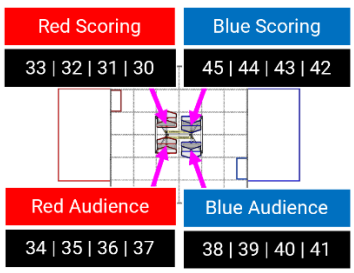


Figure 4: AprilTag layout

Section 2 – Functional Tests

Item	#	Acceptance Criteria	☑
HIVE Calibration (2x) Red, (2x) Blue	2.1	HIVE has been calibrated as described in the Event Field Setup Guide. *Subtle variations may occur. Prioritize consistency between red and blue HIVES on each field.*	
	2.2	HIVE experiences continuous, smooth movement when moved by hand.	
		Note: for 2.3 – 2.6, confirm the opposite damper is fully depressed before each test.	
	2.3	Place only 3x NECTAR and 2x POLLEN in upright CELL (should **not tip**)	
	2.4	Toss 1x additional POLLEN into CELL (should **tip** and damper should depress)	
	2.5	Place only 7x POLLEN in upright CELL (should **not tip**)	
	2.6	Toss 1x additional POLLEN into CELL (should **tip** and damper should depress)	
	2.7	Ensure **dampers are functioning** and prevent HIVES from "bouncing" after a tip.	
FLOWER Operation (4x) FLOWERS	2.8	Load FLOWER with 2x POLLEN followed by 1x NECTAR. Confirm FLOWER bottom ring **prevents static POLLEN from exiting FLOWER**.	
	2.9	Using two sideways hand movements, confirm **both POLLEN can be removed** from the FLOWER bottom ring. Confirm **NECTAR does not escape** FLOWER.	
	2.10	Load 2x POLLEN into FLOWER atop NECTAR. Confirm POLLEN remains in FLOWER atop NECTAR.	
	2.11	Confirm **POLLEN cannot escape** FLOWER in any direction other than through FLOWER top, even with gentle pressure applied to "bend open" the FLOWER pipes.	

Section 3 - Tape Lines

Item	#	Acceptance Criteria	☑
Tape Quality	3.1	All tape is in "good condition" with no visible damage	
LOADING ZONE (1x) Red, (1x) Blue	3.2	Red LOADING ZONE is **adjacent to Seams (4) and (5) ± 0.125 in.** (± 0.30 cm)	
	3.3	Blue LOADING ZONE is **adjacent to Seams (1) and (2) ± 0.125 in.** (± 0.30 cm)	
	3.4	Each LOADING ZONE is **11 ± 0.125 in.** (27.95 ± 0.30 cm) wide. *Measure distance from inside of field wall to furthest edge of tape.*	
GARDEN (1x) Red, (1x) Blue	3.5	Red GARDEN is **adjacent to audience-side edge of tile A1 ± 0.125 in.** (± 0.30 cm)	
	3.6	Blue GARDEN is **adjacent to scoring-side edge of tile F6 ± 0.125 in.** (± 0.30 cm)	
	3.7	Each GARDEN extends **full width of the tile** ± 0.125 in. (± 0.30 cm)	
	3.8	Each GARDEN comprises **one piece of 2 in.** (5.10 cm) wide tape **or two pieces of 1 in.** (2.5 cm) wide tape that are adjacent ± 0.125 in. (± 0.30 cm)	

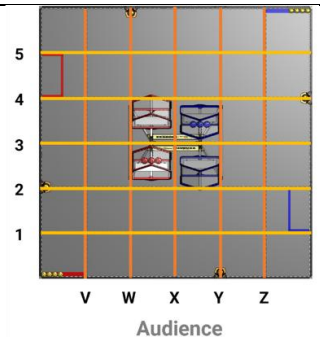


Figure 5: Tile seams

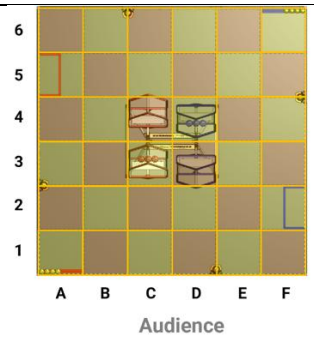
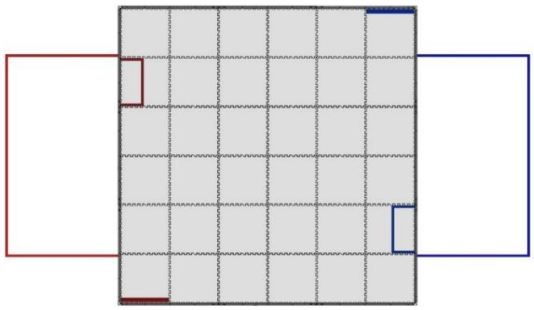


Figure 6: Tile locations


Figure 7: Tape overview