

# EXCLUSION SERIES

Bird Strike Committee USA  
Operations and Policy Standing Committee/AAAE Wildlife Working Group  
2026



# GAP SPACE RECOMMENDATION

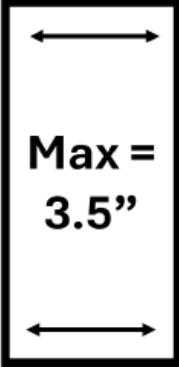
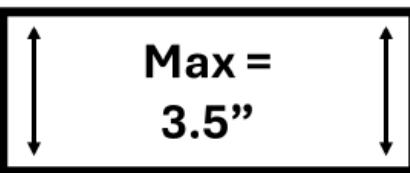
General gap space recommendation	Gap width when gap height is greater than 4"	Gap height when gap width is greater than 4"
(A)  <p>Examples: pipes, drains, general exclusion</p>	(B)  <p>Examples: between fence gate leaf and post, between gate leaves, between decorative fence pickets, spacing between culvert grating</p>	(C)  <p>Examples: bottom of fence to the ground, bottom of fence gate to the ground</p>

Figure 1. Evidence-based recommendations for standardizing and reducing gap-space limits at DTW's airfield perimeter, including (A) general gaps, (B) select gap widths, and (C) select gap heights.

Credit: Wayne County Airport Authority

# WILDLIFE EXCLUSION FENCING



Photo credit: Port of Portland

# SPOT TREATING



Photo credit: Wayne County Airport Authority

# GATE MODIFICATIONS



Photo credit: Port of Portland

# GATE MODIFICATIONS

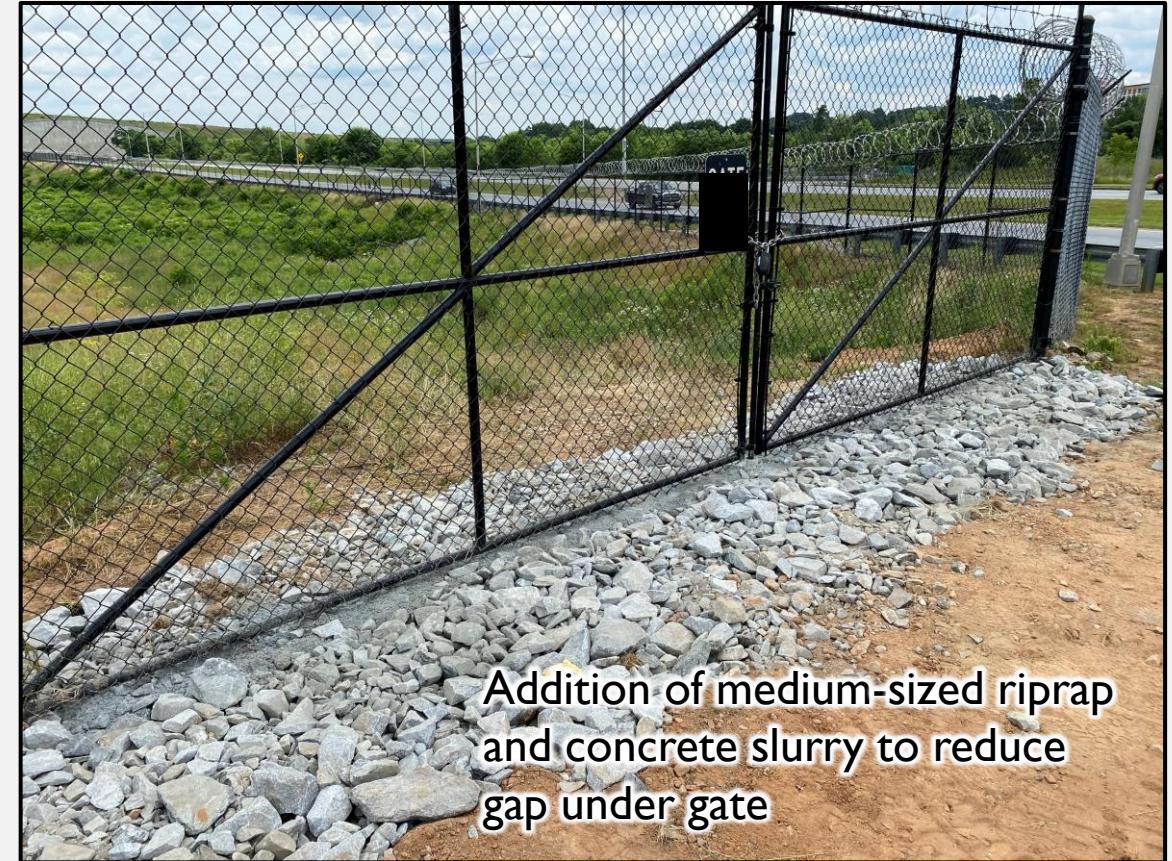
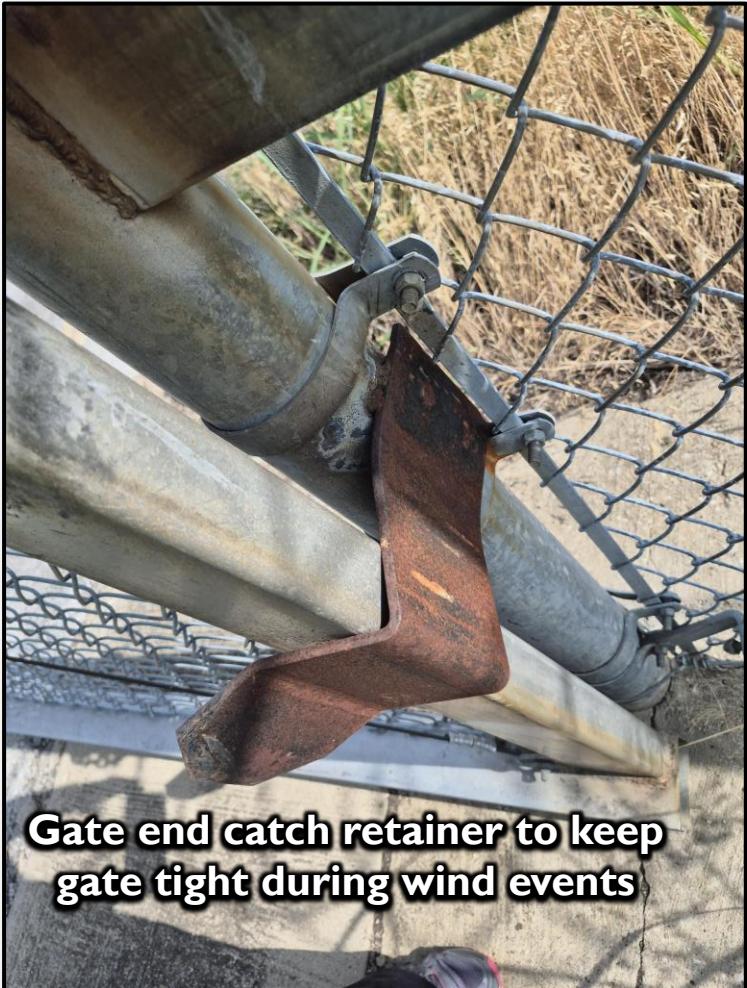


Photo credit: Hartsfield-Jackson Atlanta International Airport

# GATE MODIFICATIONS



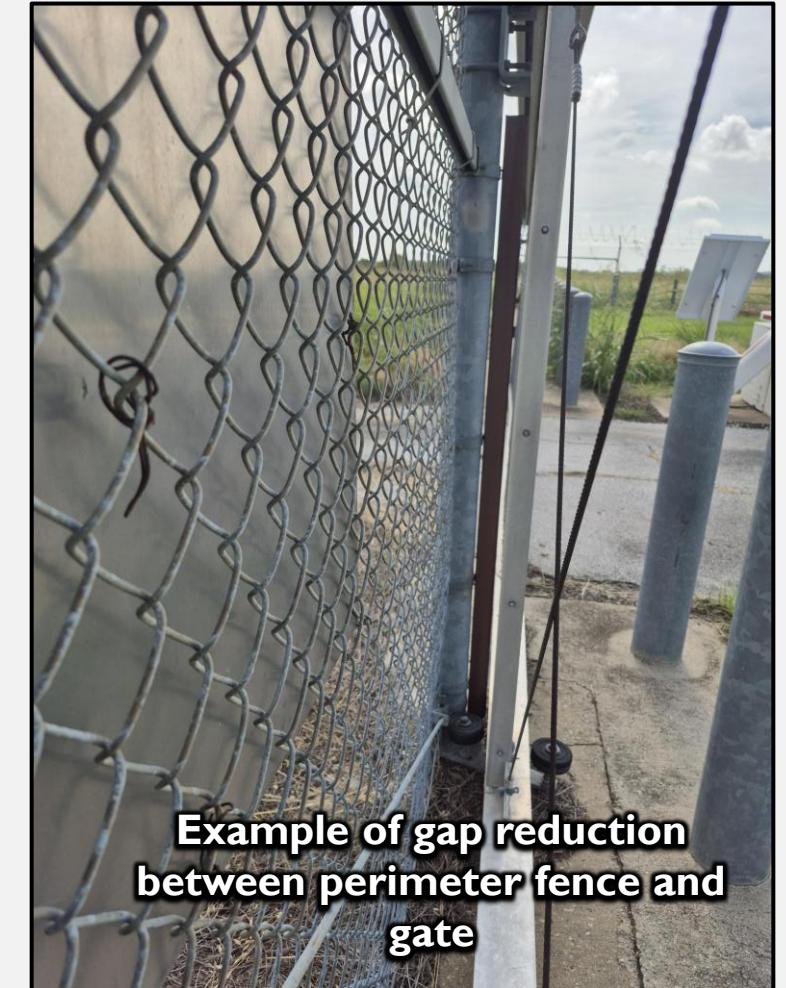
# GATE MODIFICATIONS



**Gate end catch retainer to keep gate tight during wind events**



**Gate end catch retainer to keep gate tight during wind events**



**Example of gap reduction between perimeter fence and gate**

# CULVERTS AND DITCHES



- Tidal ditch exclusion
- Photo credit PANYNJ

# CULVERTS AND DITCHES



Photo credit: Hartsfield-Jackson Atlanta International Airport

# CULVERTS AND DITCHES



Photo credit: Port of Portland



Photo credit: Salt Lake City International Airport



# CULVERTS AND DITCHES

## Before:

*Contractor attempt to exclude culvert. Gaps exceeded 4"x4" allowing large mammals, like coyotes, through.*

## After:

*"We added (2) fence posts and metal brackets across the grate to support it and prevent it from moving. We were going to add chain link fencing but are afraid it will eventually block the drain with debris because of the small gaps in the fence."*



Photo credit: Charlotte Douglas International Airport

# CULVERTS AND DITCHES



Exclusion improvements. Photo credit: Wayne County Airport Authority

# CULVERTS AND DITCHES



Photo credit: Wayne County Airport Authority

# CULVERTS AND DITCHES



Photo credit: Columbus Regional Airport Authority

## OTHER PERIMETER EXCLUSION



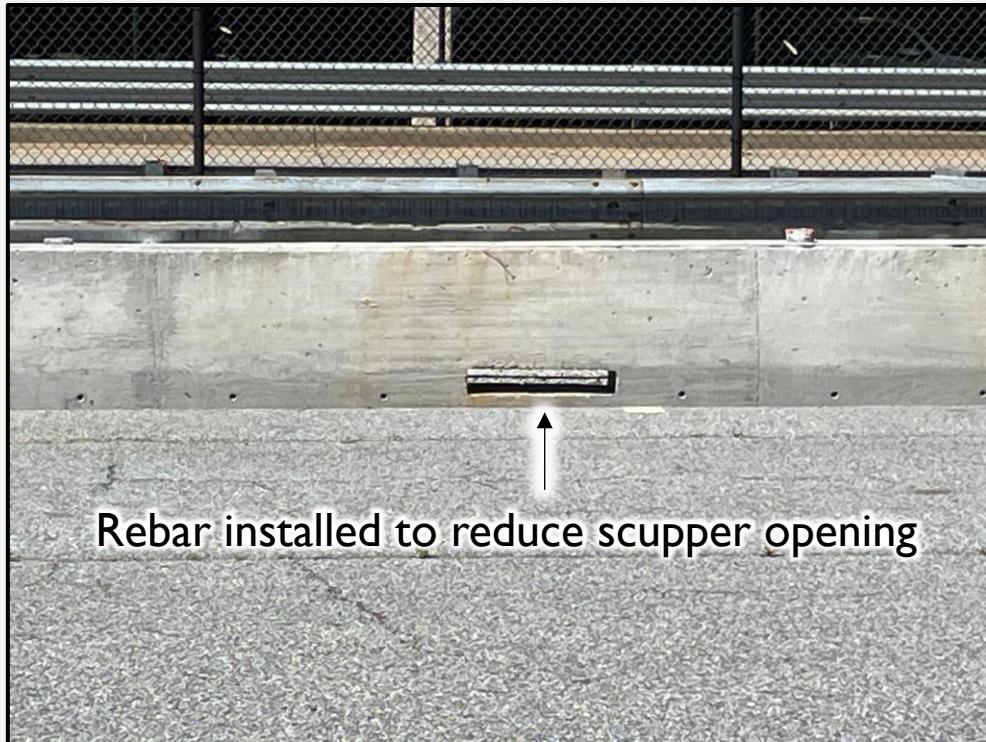
Stainless steel scupper reducer



Stainless steel scupper reducer  
installed on jersey barrier

Photo credit: Hartsfield-Jackson Atlanta International Airport

## OTHER PERIMETER EXCLUSION



Rebar installed to reduce scupper opening



Rebar installed to reduce scupper opening

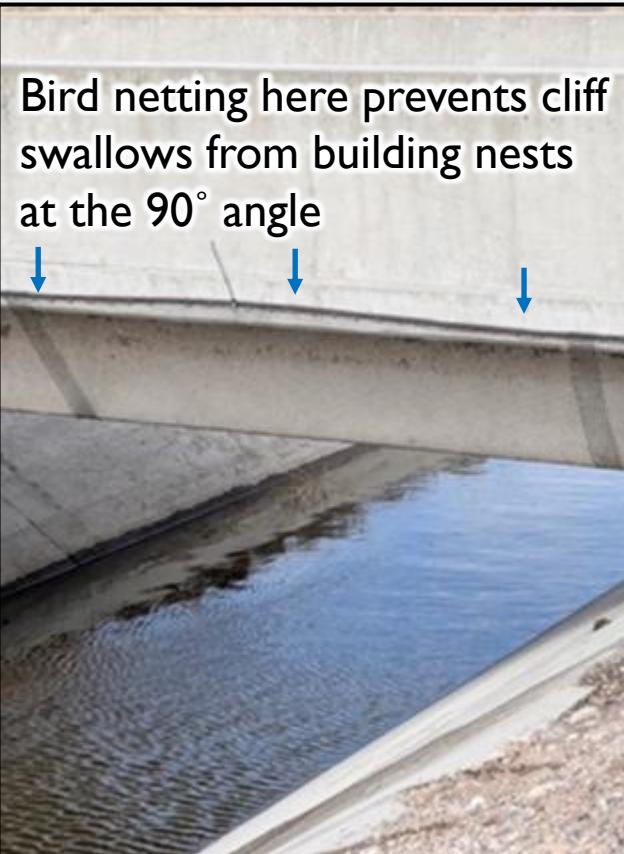
Photo credit: Hartsfield-Jackson Atlanta International Airport

# BIRD NETTING



- Canopy netting to eliminate bird nesting and roosting
- Photo credit: Port of Portland

# BIRD NETTING



- Swallow exclusion
- Photo credit: Salt Lake City International Airport

# BIRD NETTING

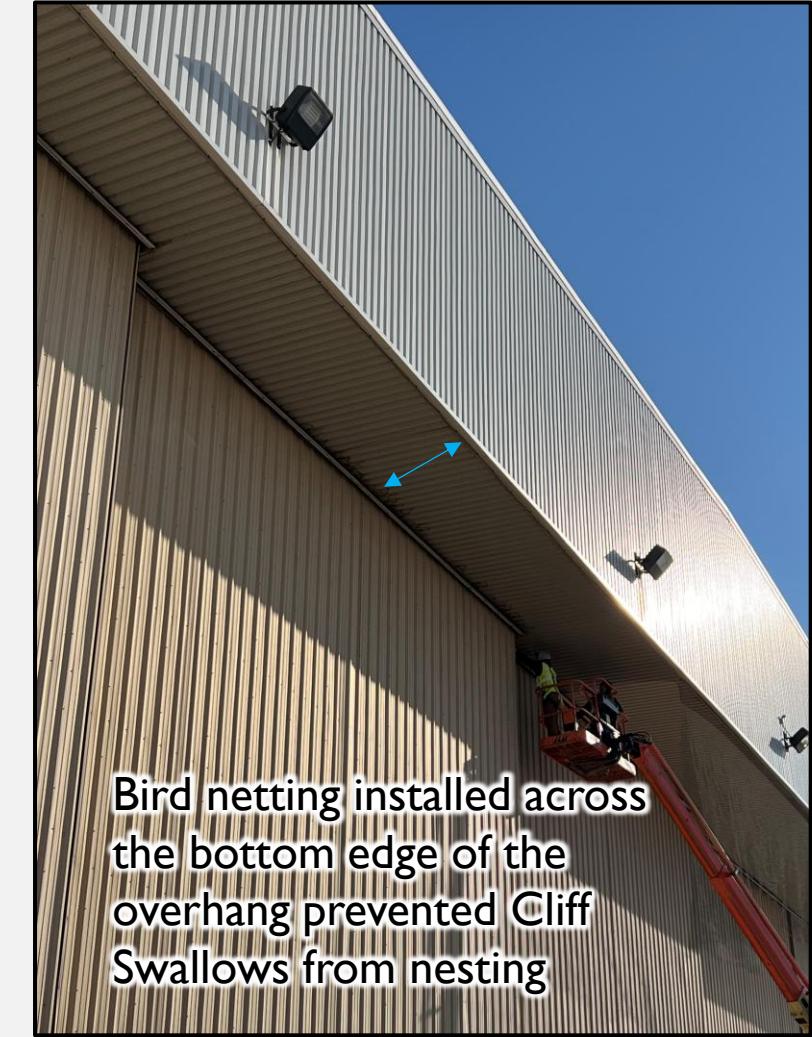


Bird spikes should be used to discourage perching versus nesting.

Photo Credit: Wayne County Airport Authority



Cliff Swallow nests under overhang



Bird netting installed across the bottom edge of the overhang prevented Cliff Swallows from nesting

# BIRD NETTING



Cliff Swallows nesting under corrugated roof on top of I-beams. Canopy ceilings should be fully enclosed to avoid this.



Photo Credit: Wayne County Airport Authority

Please send any additional exclusion images to [opspolicy@birdstrike.org](mailto:opspolicy@birdstrike.org)