



KANSAS STATE UNIVERSITY

VETERINARY HEALTH CENTER — MOSIER HALL

HILL'S PET HEALTH & NUTRITION CENTER | MANHATTAN, KANSAS

[Pre-Sloped Trench Drain System](#) | [Paw-Friendly Grates](#) | [6" Channel](#) | [1800 Denison Ave, Manhattan, KS 66506](#)

Kansas State University's Veterinary Health Center is one of the Midwest's most advanced veterinary teaching hospitals, providing routine, specialty, and emergency care while training the next generation of veterinarians. A landmark renovation of Mosier Hall — funded by the largest corporate gift in the college's history from Hill's Pet Nutrition — created the Hill's Pet Health & Nutrition Center: a modern primary care facility designed to replicate the experience of a private veterinary practice. Swiftdrain supplied the trench drainage solution purpose-built for this demanding veterinary environment.



Kansas State University Veterinary Health Center — Small Animal facility, Manhattan, Kansas

PROJECT OVERVIEW

Project: Hill's Pet Health & Nutrition Center
Facility: Mosier Hall — College of Veterinary Medicine
Institution: Kansas State University
Location: 1800 Denison Ave, Manhattan, Kansas 66506
Industry: Veterinary Teaching Hospital / Higher Education
Sponsor: Hill's Pet Nutrition (largest gift in college history)
Renovation: 16,000 sq ft — 6 exam rooms, waiting area, service desk
System: Swiftdrain 6" Pre-Sloped Trench Drain
Grates: Paw-friendly design — animal-safe openings
Shipped: 2023

THE DRAINAGE CHALLENGE

Veterinary treatment environments impose unique demands on drainage infrastructure that standard commercial systems cannot meet. The Mosier Hall renovation required a solution addressing multiple critical factors:

- Floors washed down multiple times daily with water and disinfectants
- Animals walk directly across drain grates — claws must not become trapped
- Six separate exam rooms each requiring independent drainage points
- Chemical resistance to veterinary disinfectants and cleaning agents
- Pre-sloped channels essential for sanitation in healthcare environments

SWIFTDRAIN PRE-SLOPED SOLUTION

Swiftdrain supplied a modular pre-sloped trench drain system configured specifically for veterinary treatment areas — combining factory-engineered slope, paw-friendly grates, and independent end-outlet connections for each exam room.

SYSTEM SPECIFICATIONS

Product: Swiftdrain 6" Pre-Sloped Trench Drain
Channel: 6-inch wide pre-sloped polymer channel
Slope: Factory-engineered internal pitch to outlet
Units: 23 individual trench drain sections
Length: 4 feet per section
Total: 92 linear feet installed
Outlet: End-outlet configuration per section
Grates: Paw-friendly — small-opening animal-safe design

WHY PRE-SLOPED?

Factory-engineered internal slope eliminates reliance on field-formed gradient — ensuring consistent hydraulic performance in every exam room. In a veterinary hospital where sanitation is critical, reliable water evacuation is non-negotiable.

KSU VETERINARY HEALTH CENTER — FACILITY & INSTALLATION

Pre-Sloped Trench Drain | Paw-Friendly Grates | Mosier Hall | design@swift drain.com

MOSIER HALL — THE FACILITY



Mosier Hall — Veterinary Health Center, Kansas State University, Manhattan, Kansas

ABOUT THE RENOVATION

The Hill's Pet Health & Nutrition Center renovation transformed a key section of Mosier Hall's first floor into a modern primary care facility. Funded by Hill's Pet Nutrition — the largest corporate gift in the college's history — the 16,000 sq ft project created:

- Six new exam rooms to handle growing small animal caseload
- A dedicated waiting area for pet owners and patients
- A primary care service desk for daily clinical operations
- Space for short anesthetic procedures and basic radiographic imaging
- Environment modeled on a private veterinary practice setting

EDUCATIONAL MISSION

Beyond patient care, the center enhances KSU's educational capacity in preventive medicine, client communication, basic diagnostic procedures, and veterinary practice management — giving students hands-on experience in a real-world clinical environment while the resources of a full teaching hospital remain available.

TREATMENT ROOM ENVIRONMENT



Renovated treatment and exam space inside the Hill's Pet Health & Nutrition Center — Mosier Hall

DRAINAGE IN VETERINARY FACILITIES

Veterinary treatment rooms impose drainage requirements unlike any standard commercial or industrial application. The environment demands:

- Multiple daily wash-downs with water and chemical disinfectants
- Rapid water evacuation to maintain hygienic conditions between patients
- Grate surfaces safe for animals — no large openings, no sharp edges
- Independent drainage per room — not continuous trench runs
- Long-term chemical resistance to veterinary cleaning agents

WHY MODULAR DRAIN SECTIONS?

Each of the six exam rooms required its own independent drainage point. A modular system of 23 individual 4-foot sections allowed the installation team to place drainage exactly where it was needed — no long continuous trench runs, no unnecessary excavation, and precise placement within each treatment space.

KSU VETERINARY HEALTH CENTER — PRODUCT DETAIL & PAW-FRIENDLY DESIGN

Swift drain 6" Pre-Sloped System | Paw-Friendly Grates | End Outlet | design@swift drain.com

PAW-FRIENDLY GRATES — INSTALLED



Swift drain paw-friendly grates installed in kennel floor — small circular openings protect claws and paws

PAW-FRIENDLY GRATE DESIGN

Standard industrial bar grates present real hazards in veterinary environments — claw entrapment, unstable footing, and discomfort during animal movement. Swift drain's paw-friendly grates are engineered specifically for animal-occupied spaces:

- Small circular perforations — sized to prevent claw entrapment
- Flat, stable surface — secure footing even when wet
- Smooth edges — no sharp protrusions that could injure paws
- Easy to clean — perforations do not trap debris
- Resistant to veterinary disinfectants and cleaning chemicals

ANIMAL SAFETY PRIORITY

In a veterinary teaching hospital, animals may be stressed, injured, or recovering from procedures. A grate that causes additional discomfort or injury is unacceptable. Swift drain's paw-friendly design eliminates these risks while maintaining full drainage performance — making it the standard choice for veterinary and animal care facilities.

PRODUCT DEMONSTRATION



Swift drain pre-sloped trench drain with paw-friendly grate — small dog standing comfortably on grate surface

PRE-SLOPED CHANNEL TECHNOLOGY

The 6-inch pre-sloped channel is the foundation of the Swift drain system used at Mosier Hall. Unlike traditional trench drains that depend on field-formed gradient, every channel section is factory-manufactured with built-in slope directing water to the end outlet:

- Consistent hydraulic performance — same slope in every section
- Faster installation — no field slope adjustment required
- Fewer errors — gradient is fixed at manufacture, not in the field
- Improved drainage efficiency — rapid water movement to outlet
- Ideal for healthcare settings where sanitation is critical

SWIFT DRAIN — BUILT FOR VETERINARY ENVIRONMENTS AND DOG KENNELS

- Paw-friendly grates — engineered for animal safety
- Pre-sloped channels — consistent drainage without field adjustment
- 6" width — ideal capacity for wash-down procedures
- End outlet — independent connection per exam room
- Chemical resistant — withstands veterinary disinfectants

PRODUCT — END OUTLET CONFIGURATION



Swift drain pre-sloped 6" channel with end-outlet — modular sections connect independently to facility plumbing

PROJECT RESULTS

The Swift drain pre-sloped trench drain installation at Mosier Hall delivered a complete drainage solution tailored to the demands of veterinary healthcare:

- ✓ 23 individual 4-foot sections — 92 linear feet installed
- ✓ Paw-friendly grates protecting animal patients in all exam rooms
- ✓ Pre-sloped channels ensuring consistent drainage performance
- ✓ Independent end-outlet connections per treatment space
- ✓ Chemical-resistant system withstanding daily disinfectant use
- ✓ Modular design enabling precise placement in each exam room
- ✓ Shipped 2023 — supporting renovation construction schedule

SWIFTDRAIN PROJECT SUPPORT

Swift drain configured the trench drain system specifically for the Mosier Hall renovation layout — pre-sloped sections, paw-friendly grates, and end-outlet connections arrived ready to install, reducing field modification and supporting the project construction schedule.

WHY SWIFTDRAIN FOR VETERINARY FACILITIES

The KSU Mosier Hall project demonstrates Swift drain's core capabilities for healthcare and veterinary drainage applications:

- Purpose-built paw-friendly grates for animal safety
- Pre-sloped channels — reliable drainage without field adjustments
- Modular sections — independent drainage per treatment room
- End-outlet design — flexible plumbing connections
- Chemical resistant construction for disinfectant environments
- Fast delivery — pre-configured systems ready to install on arrival

SWIFTDRAIN SERVES INDUSTRIES INCLUDING:

- * **Veterinary & Animal Care:** Hospitals, kennels, grooming, animal shelters
- * **Healthcare & Medical:** Hospitals, clinics, labs, clean rooms
- * **Higher Education:** University facilities, research buildings
- * **Retail & Commercial:** Shopping centers, big-box retail, agricultural stores
- * **Industrial & Warehouse:** Loading docks, distribution centers, manufacturing
- * **Hospitality & Resort:** Hotels, pools, resorts, outdoor entertainment

DRAINAGE DESIGNED AROUND ANIMAL SAFETY

- Paw-friendly grates — zero claw entrapment risk
- Pre-sloped channels — consistent sanitation performance
- Swift drain ships nationwide — support from quote to install
- Trusted by healthcare and veterinary facilities across North America