Trivia Question: How is this nest associated with equestrians?
Equestrian Design Guidelines:

1. Overview of New Guidelines Book
2. Understanding Horses & Mules
3. Key Trail Design Elements
4. Desirable Equestrian Trailheads
5. Designing for Equestrians with a Disability
6. Questions & Answers
Quick Facts:

- 6.9 million horses in the United States
- Large economic industry
- Rapid increase in equestrians who ride for recreation
Understanding Horses & Mules
HOW BIG IS A HORSE, ANYWAY?
HOW HIGH IS A RIDER ON A HORSE?

96” H

HOW WIDE IS A HORSE AND RIDER?

48” W
HOW DOES A HORSE SEE?

EQUINE HAS AN ELONGATED EYEBALL (REDUCES FOCUS CAPACITY)

REFRACTING OF LIGHT TWICE (IMPROVES NIGHT VISION)

NOTE: HORIZONTAL PUPIL NOT SHOWN
WHAT DOES A HORSE SEE?
Horse
Eyesight:

Is that a person...or is that a BEAR?
HOW MUCH WATER DOES A HORSE DRINK EVERY DAY?

A MINIMUM OF 12-20 GALLONS PROVIDED AT LEAST TWO TIMES A DAY
TYPICAL BEHAVIOR CHARACTERISTICS

HORSES STAND WITH THEIR BACKS TO THE WIND

HORSES FIGHT FOR DOMINANCE

HORSES NEED ROOM TO ROLL

HORSES CAN KICK 6 FEET BEHIND THEM
FEEDING TIME CAN GET NASTY...
TYPICAL HAZARDS TO HORSES

AFRICANIZED BEES

BLACK WIDOW SPIDERS

POISONOUS SNAKES

BARK SCORPIONS
Equestrians can successfully share trails with dogs, kids, and bikes...
But....“KILLER” LLAMAS....can be a challenge!
OLEANDERS ARE POISONOUS TO HORSES AND MULES
Designing Horse Trails
Planning is Everything
EQUESTRIAN TRAILS CAN BE SHARED WITH OTHERS!

COMBINE HARD SURFACE AND NATURAL SURFACE TRAIL PATHS IN ONE CORRIDOR
SHARED CORRIDORS WORK!
TRAIL CORRIDOR WIDENS WHEN SHARED WITH A PAVED PATH
SETBACK FROM ROADWAY IS IMPORTANT
PAVED PATH IS CLOSEST TO ROADWAY
EQUESTRIANS NEED A "GATHERING AREA" AT TYPICAL ROADWAY CROSSINGS...

AND A 90-DEGREE TRAIL CROSSING ANGLE
TRAIL SURFACE IN THE ROADWAY MUST PREVENT A HORSE FROM SKIDDING AND SLIPPING
BRIDGES NEED “WINGS” AT ENDS

MINIMUM 8 FEET IN WIDTH – 12 FEET PREFERRED

NOTE:
1. RAILS ON INSIDE OF SUPPORT POSTS AND BRACES
2. RAIL HEIGHT MINIMUM 42”
3. RAIL HEIGHT MAXIMUM DETERMINED BY SITE CONDITIONS
4. CROSS TIMBER / WOOD DECKING LUMBER WITH MAXIMUM SEPARATION OF 3/4” BETWEEN LUMBER
5. MINIMUM LOAD CAPACITY OF 10,000 POUNDS (30% IMPACT FOR BRIDGES 8’-9”)  
6. MINIMUM WIDTH 8′-9′ DESIRED WIDTH 10′-0”
7. BRIDGE APPROACH OF NATURAL SOILS / NATURAL MATERIALS (E.G., D.G., SAND, WOOD CHIPS, ETC.)
8. 2″ X 8″ MINIMUM SIZE LUMBER FOR RAILINGS
9. NO PAINT ON WOOD BRIDGE, BEST PAINT COLOR ON METAL BRIDGE TO BLEND WITH SURROUNDING ENVIRONMENT
10. WOOD COMPONENTS SHALL BE FACTORY TREATED WITH WOOD PRESERVATIVES
11. TAPER RAILINGS AT BEGINNING AND END OF BRIDGE

EQUESTRIAN BRIDGE / BOARDWALK

FIGURE X
VERTICAL CLEARANCES: 10 – 12 FEET
CULVERTS NEED 8 FEET WIDE CLEAR
EQUESTRIAN-FRIENDLY LAND BRIDGE
INTERIOR OF THE LAND BRIDGE
EQUESTRIAN TRAIL IS UNPAVED IN CENTER OF THIS FREEWAY BRIDGE
Planning Equestrian Trailheads
EQUESTRIAN TRAILHEAD DESIGN IN SHARED-USE TRAILHEAD
EQUESTRIANS SADDLE UP AT THE SIDES OF THEIR TRAILERS
BIG RIGS TAKE A LOT OF ROOM TO PARK

8-HORSE TRAILER & TRUCK

70 FEET END-TO-END
TYPICAL EQUESTRIAN PARKING AREA

PARKING / STAGING DIMENSIONS
CURBS AND PAVED AREAS ARE DANGEROUS IN EQUESTRIAN TRAILHEADS AND CAMPGROUNDS
Horses Forced to Use Asphalt Roads to Reach Trails from the Trailhead Can Slip and Fall Down
HORSES REQUIRE AMPLE SPACE

A HORSE IS 3 FEET WIDE X 8.5 FEET LONG!
WATERING TROUGHS NEED TO BE EASILY DRAINED
OLD SCUMMY WATER TROUGHS ARE A HAZARD TO HORSES AND PEOPLE
HIGHLINE FOR TETHERING HORSES
Provide Signs....Ask Equestrians to Manage Their Horses’ Manure
Equestrian’s Dream... A Clean Restroom with a Tethering Rail....
EQUESTRIANS LOVE TO HAVE
WASH RACKS AT TRAILHEADS
Designing for Equestrians with a Disability
TRAIL RIDING OPENS NEW AREAS TO EQUESTRIANS WITH A DISABILITY
EQUESTRIANS WITH A DISABILITY HAVE WONDERFUL TRAIL RIDING OPPORTUNITIES:

- Riding on scenic backcountry trails
- Exploring places they’ve never been before
- Developing new balance, and confidence!

The Adaptive Riding Institute provides riding lessons and recreational horseback riding for people of all abilities at the Scotts Mills, Oregon facility from October through May.
WIDE TRAILS ARE IMPORTANT TO EQUESTRIANS WITH A DISABILITY
Strong Velcro straps are fully adjustable for safety and comfort on special balance vests...
Balance vests are inexpensive and easy to construct, and they are very lightweight mesh for comfort in summer season trail riding.
Saddles can be further adapted for equestrians needing additional aid in sitting upright...
TYPICAL MOUNTING BLOCK DESIGNS

NOTE AMPLE OPEN SPACE AROUND MOUNTING BLOCK
MOUNTING BLOCK DIMENSIONS

EQUESTRIAN MOUNTING BLOCKS

FIGURE X
MOUNTING BLOCK LOCATIONS

MOUNTING BLOCK AT TRAIL TREAD

MOUNTING BLOCK AT GATE

MOUNTING BOX

EQUESTRIAN MOUNTING BLOCK LOCATIONS

FIGURE X
EQUESTRIAN MOUNTING RAMP DESIGN

LOADING / MOUNTING RAMP DETAIL
PLAN VIEW

LOADING / MOUNTING RAMP DETAIL
SIDE VIEW

NOTES:
1. LEVEL TOPS OF ALL POSTS
2. REMOVABLE RAIS TO BE LOSE IN R7OETS
3. RECERSE ALL NUTS AND WASHERS ADJACENT TO HORSE AND WHEEL TRAVEL
4. IF ERT BACKFILL IS USED, INSTALL COMPACTED CRUSHED ROCK TRACK FOR WHEELCHAIRS
5. ALL POSTS 1 MIN. INTO EXISTING GROUND
Ramp for off-loading horses or for people with disabilities
Ramp Rails are Removable for Easy Access in Mounting a Horse from Wheelchair Height
Questions & Answers

For Additional Information Contact:

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Trivia Question: How is this nest associated with equestrians?