

Important Notes :

- Self cleaning will not function at low stocking densities.
- Do not use these barns if you desire reasonably clean animals.
- Do not use these barns for animals less than 6 or more than 18 months old.

Pump out access point at each end. Check with pump supplier concerning location for additional pump access or recirculation lines for agitation.

Notes :

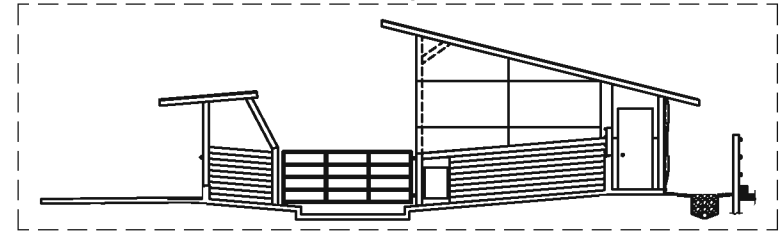
- Structural details to be designed and constructed in accordance with local codes and conditions.
- Barns with sloped resting areas are designed to use no bedding and high animal stocking densities to encourage manure movement off resting area.
- These barns are not designed to accommodate mechanical cleaning or bedding of the resting area.
- Feed management must be adjusted to account for high stocking rate and feed access.

Related Detail Sheets :

- ① DIP 831 Fenceline Feed Barriers
- ② DIP 842 Watering Locations for Calves & Heifers

**COUNTER SLOPE HEIFER SHELTER,
 500 - 1000 POUNDS
 - 6 GROUPS - SLOTTED FLOOR**
 Graves, McFarland, Tyson, Wilson
 Date: 02/05/07
 Sheet #1 of 4

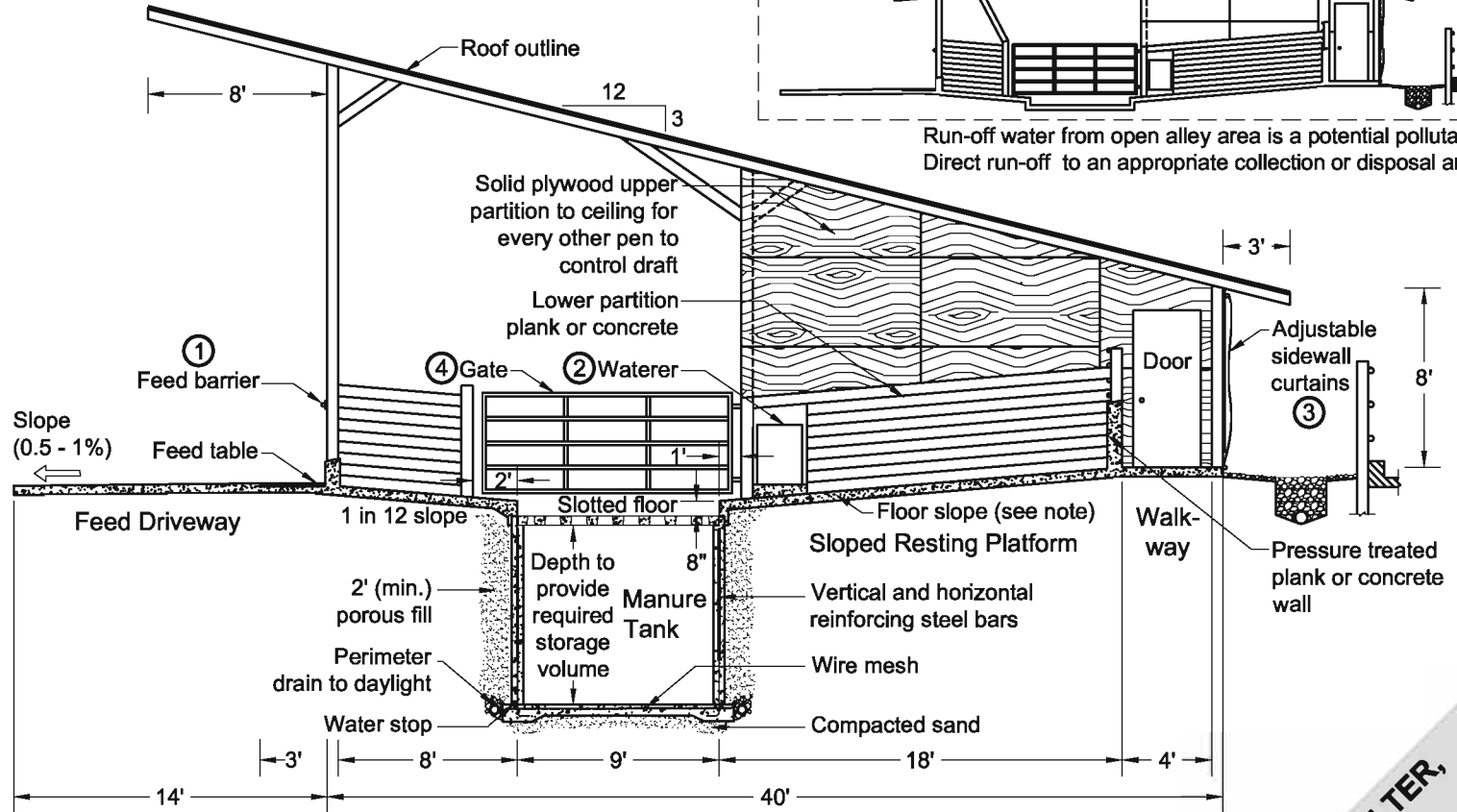
Open Alley Option



Run-off water from open alley area is a potential pollutant. Direct run-off to an appropriate collection or disposal area.

Special Notes on Manure Tank :

- A Pennsylvania DEP Water Quality Mangement Permit may be required for manure tank.
- Design and construct manure tank and slats in accordance to USDA-NRCS Standard PA-313 or its equivalent.
- PA-DEP requires liquid manure tank storage to be designed by a Professional Engineer.
- In other states be sure to follow applicable water quality regulations for liquid manure tank permit, design and construction.



Monoslope Roof
 Cross Section with Manure Tank (1/2)

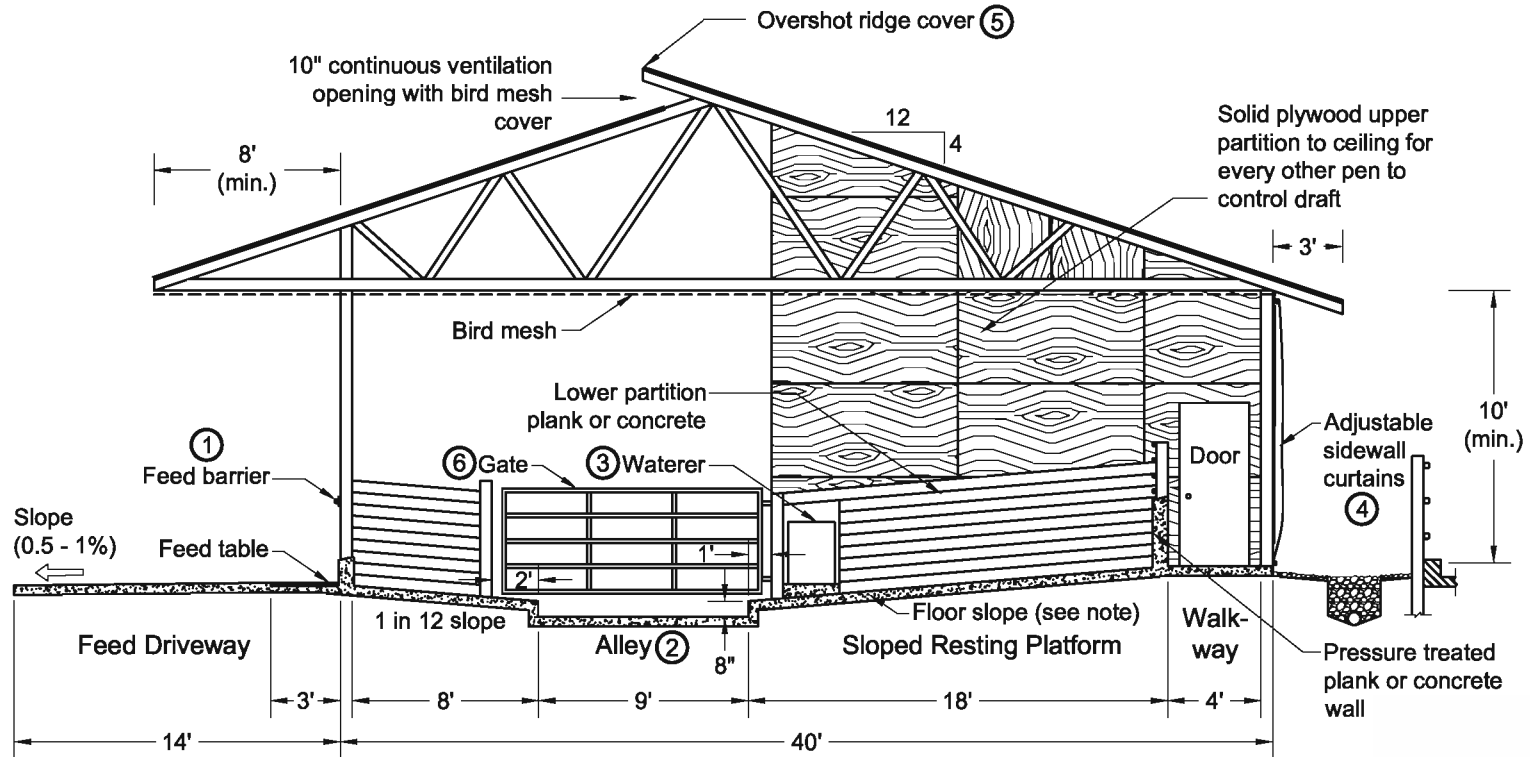
Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1" in 12" slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Extend every other partition to roof to reduce wind swirl in open front bams.
- Face open front away from prevailing winds.
- Open front facing SE will provide afternoon shading in hot weather.

Related Detail Sheets :

- ① DIP 831 Fenceline Feed Barriers
- ② DIP 842 Watering Locations for Calves & Heifers
- ③ DIP 801 Typical Sidewall - Outside Alley
- ④ DIP 861 Gates and Penwork

**COUNTER SLOPE HEIFER SHELTER,
 - 6 GROUPS - 1000 POUNDS
 - 6 GROUPS - SLOTTED FLOOR**
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 Date: 02/05/07 Sheet #2 of 4



Gable Roof
 Cross Section with Concrete Alley 1
3

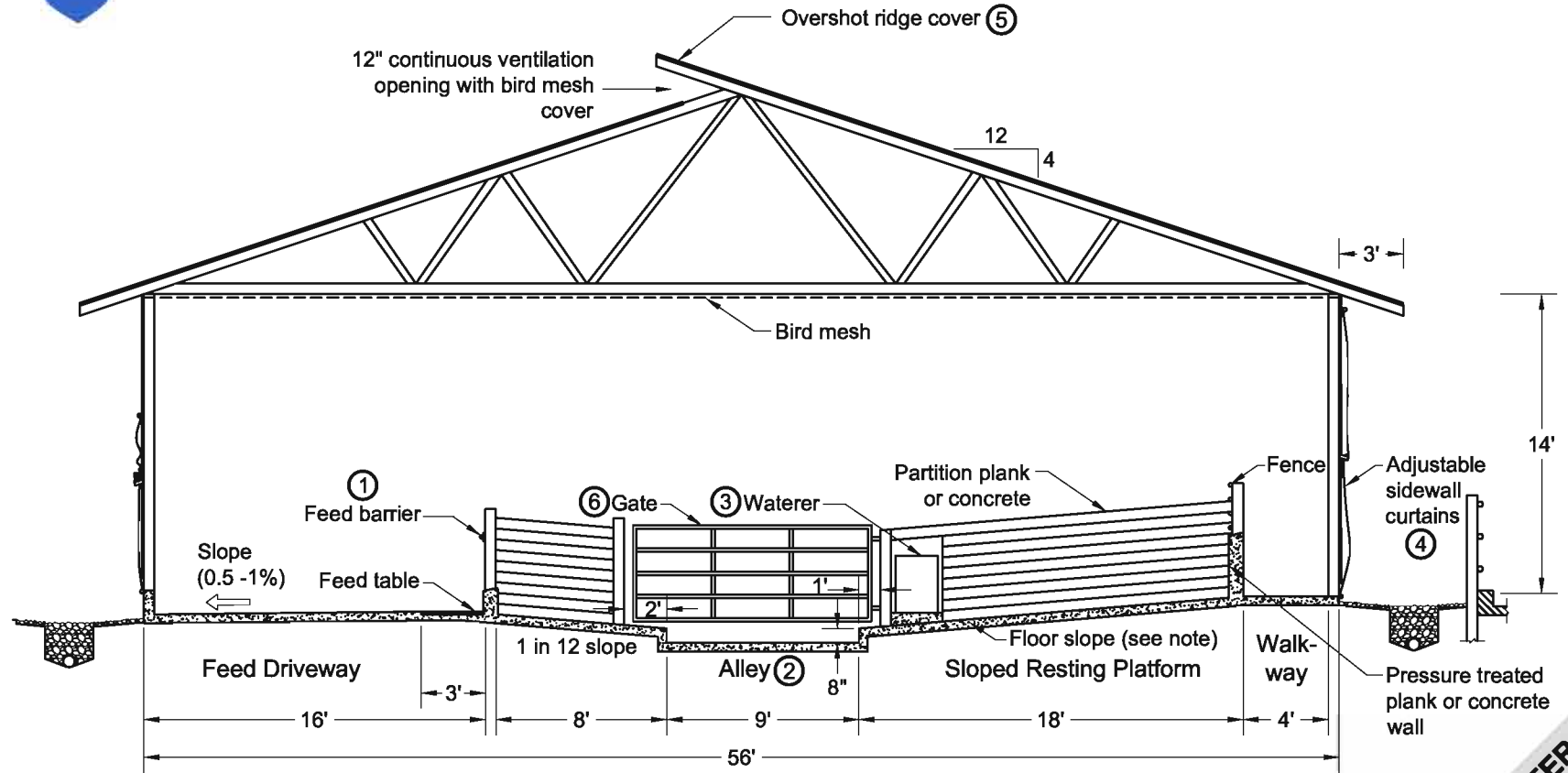
Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1" in 12" slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Extend every other partition to roof to reduce wind swirl.
- Orient overshoot ridge perpendicular to prevailing winds.
- Truss must be designed for overhang on one end.
- Roof overhang must clear feed equipment.

Related Detail Sheets :

- ① DIP 831 Fenceline Feed Barriers
- ② DIP 851 Freestall Crossovers and Floor Surface Details
- ③ DIP 842 Watering Locations for Calves & Heifers
- ④ DIP 801 Typical Sidewall - Outside Alley
- ⑤ DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
- ⑥ DIP 861 Gates and Penwork

**COUNTER SLOPE HEIFER SHELTER,
 500 - 1000 POUNDS
 - 6 GROUPS - SLOTTED FLOOR**
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Gable Roof
 Cross Section, Inside Feeding (1/4)

Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1" in 12" slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Orient overshoot ridge perpendicular to prevailing winds.
- Door and roof structure must clear feed equipment.

Related Detail Sheets :

- ① DIP 831 Fenceline Feed Barriers
- ② DIP 851 Freestall Crossovers and Floor Surface Details
- ③ DIP 842 Watering Locations for Calves & Heifers
- ④ DIP 801 Typical Sidewall - Outside Alley
- ⑤ DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
- ⑥ DIP 861 Gates and Penwork

**COUNTER SLOPE HEIFER SHELTER,
 500 - 1000 POUNDS
 - 6 GROUPS - SLOTTED FLOOR**
 Graves, McFarland, Tyson, Wilson
 Date: 02/05/07 Sheet #4 of 4