

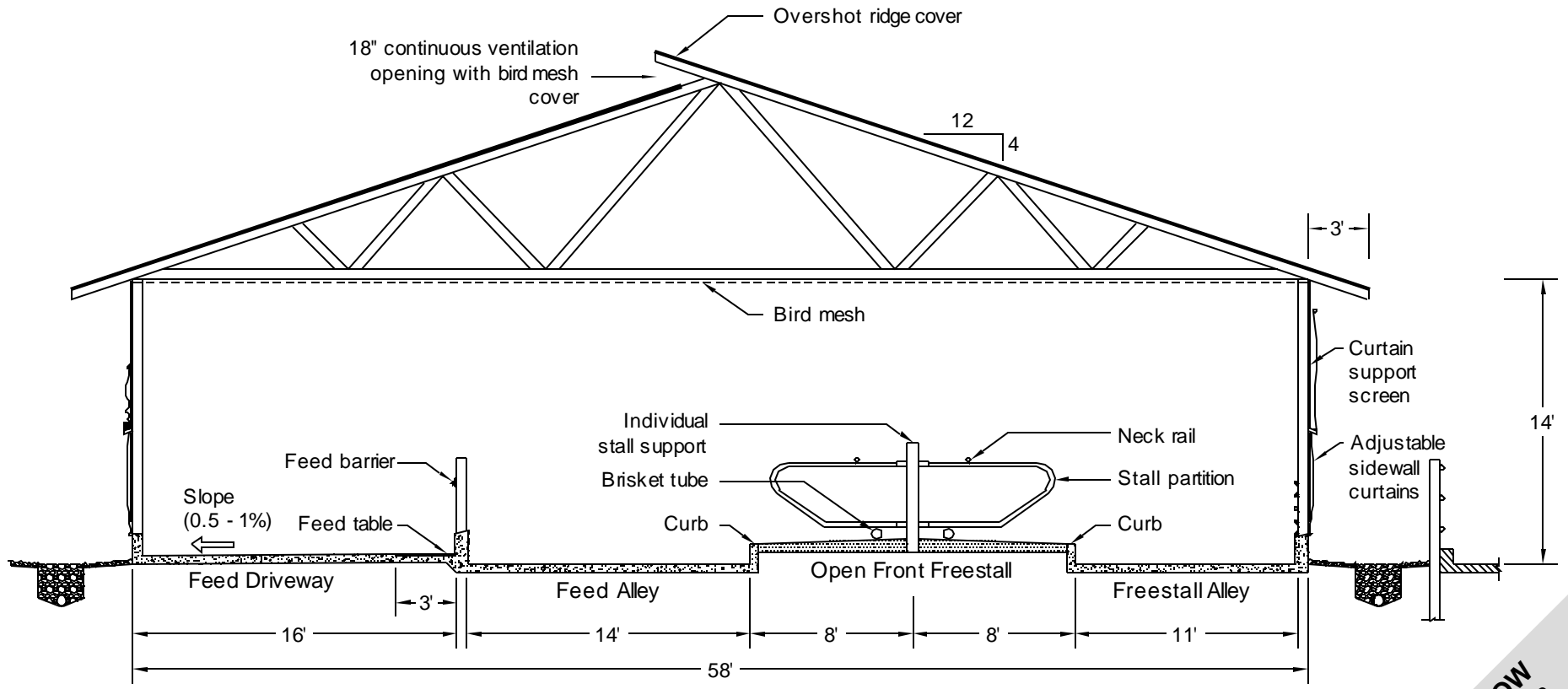
Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- Provide 125 - 150 sq. ft. of bedded pack space per milking cow.
- If freestall area is to be used for post-fresh cows, use 4' 3" freestalls.
- Provide a crossover every 15 to 20 stalls (60' - 80').
- Provide minimum of two waterer locations per group and 3" of trough length per cow in all milking groups.
- Provide worker pass throughs at/in gates and spaced along feed barrier for safety and handling ease.
- Provide night time lighting (5 - 10 foot-candles) for animal observation and safety. Also provide supplementary lighting (20 - 30 foot-candles) and convenience outlets to accommodate animal examination and treatment.
- Provide a stanchion in each pen for animal restraint and treatment.
- Contact milk inspection agency when developing plans for milking cows.

Related Detail Sheets :

- DIP 821 Cow Freestall (Cubicle), Types and Details
- DIP 831 Fenceline Feed Barriers
- DIP 841 Watering Locations for Dairy Cattle
- DIP 851 Freestall Crossovers and Floor Surface Details

**GATED BEDDED PENS AND TWO ROW
HEAD TO HEAD FREESTALL SHELTER
INSIDE FEED DRIVEWAY**
Graves, McFarland, Tyson, Wilson
Date: 12/10/05 Sheet #1 of 3
No. DIP 422



Gable Roof
Cross Section with Freestall 1
2

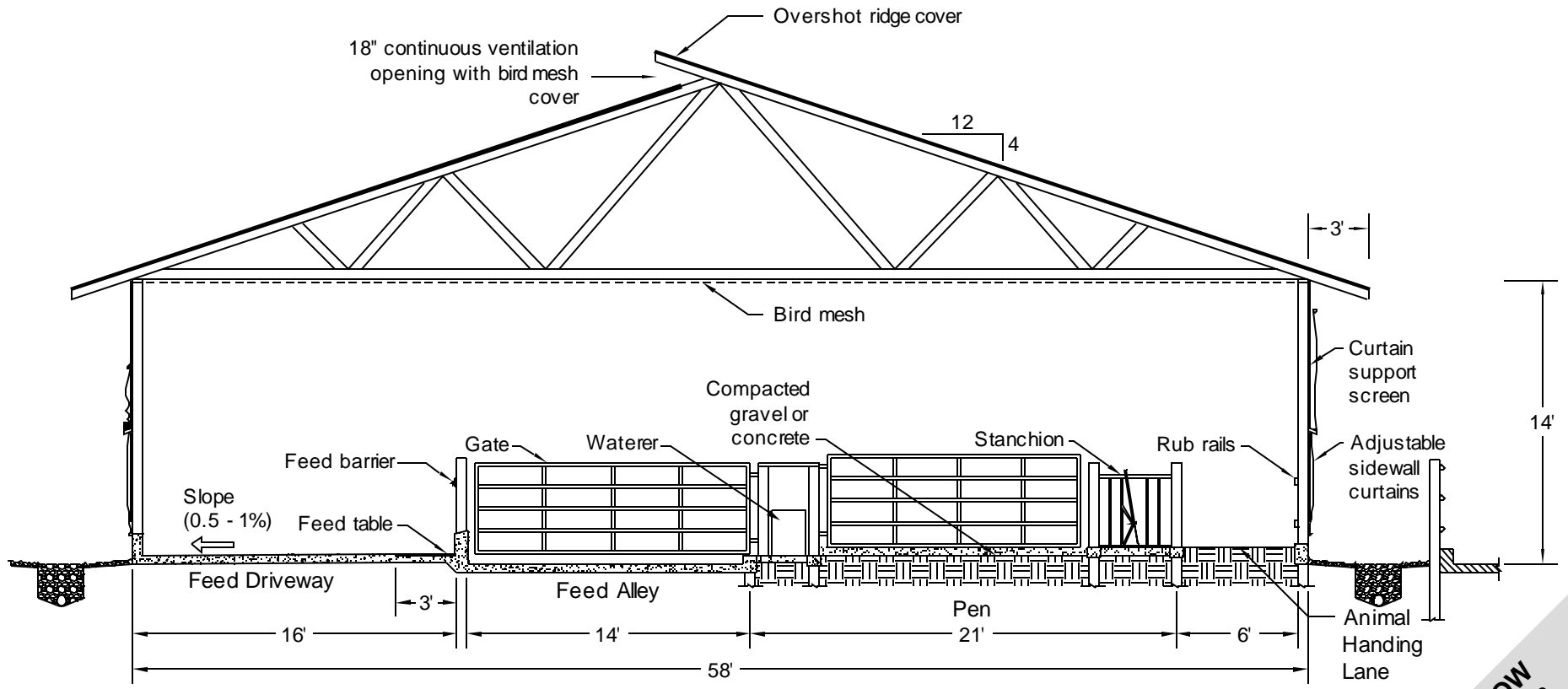
Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- Orient overshoot ridge perpendicular to prevailing winds.
- Ceiling height must clear feeding equipment.
- Contact milk inspection agency when developing plans for milking cows.

Related Detail Sheets :

- DIP 801 Typical Sidewall - Outside Alley
- DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
- DIP 821 Cow Freestall (Cubicle), Types and Details
- DIP 831 Fenceline Feed Barriers
- DIP 851 Freestall Crossovers and Floor Surface Details

**GATED BEDDED PENS AND TWO ROW
HEAD TO HEAD FREESTALL SHELTER
INSIDE FEED DRIVEWAY**
Graves, McFarland, Tyson, Wilson
Date: 12/01/05 Sheet #2 of 3



Gable Roof
Cross Section with Pen 1
3

Notes :

- Structural details to be designed and constructed in accordance with local codes and conditions.
- Orient overshoot ridge perpendicular to prevailing winds.
- Ceiling height must clear feeding equipment.
- Pen floor should be well maintained compacted gravel or concrete with a thick layer of bedding to provide good footing.

Related Detail Sheets :

- DIP 801 Typical Sidewall - Outside Alley
- DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
- DIP 831 Fenceline Feed Barriers
- DIP 841 Watering Locations for Dairy Cattle
- DIP 851 Cow Freestall Crossovers and Floor Surfaces

GATED BEDDED PENS AND TWO ROW HEAD TO HEAD FREESTALL SHELTER
 Graves, McFarland, Tyson, Wilson
 Date: 12/10/05 Sheet #3 of 3