## **Dane County**



Wisconsin County Coordinate System

Projection: Lambert Conformal Conic

Design Elevation: 304.801 meters (1000 feet) [1480 high, 760 low]

Geoidal Separation: - 34.18 meters

Origin Longitude: 89° 25' 20" Origin Latitude: 41° 45' 00"

False Easting: 247,193.2944 meters (811,000 feet)

False Northing: 0.00 meters (0.00 feet)

North Latitude: 43° 13' 50" South Latitude: 42° 54' 30"

## Approximate Ground to Grid Ratios

Rural (worst)1:37,000Blue Mounds summit		
Urban	1:500,000	Oregon, Madison, Middleton, Cross Plains
	1:300,000	Waunakee,Verona,DeForest,Marshall
	1:180,000	Stoughton
	1:86,000	West Side Catholic Seminary Hill

Approximate western most coordinate (X) = 700,000 feet Approximate southern most coordinate (Y) = 400,000 feet

## **Design Comments:**

The transverse Mercator projection fits the extreme elevation differences better than the Lambert, however the Lambert projection fit the overall terrain and the urban areas with less distortion than the Mercator.

(Note: All feet units for the Wisconsin County Coordinate System are U.S. Survey Foot. Please see further discussion of this issue on page 6 of the Summary of Terms section of this handbook.)