

New Jersey Department of Transportation
CORRECTIVE ACTION NOTICE

QUALITY MANAGEMENT SERVICES

Director: Lynn Rich

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CAN No. CAN068R

Approved: Lynn Rich

Date: June 5, 2007

Subject: Base Map Preparation

Bureau(s) Affected:

All Design Consultants
In-House Design/QA Review Units
Division of Design Services
Division of Project Management
Division of Project Planning Development

Description of Issue(s):

There have been confusion and accuracy problems with the use of NJ State Plane Grid Coordinates vs. NJ State Ground Coordinates.

Corrective Action Plan:

Based on a recommendation by the Survey Services Unit, **all base mapping for all NJDOT projects will be prepared in ground coordinates** regardless if prepared by conventional survey methods or Aerial Photogrammetry.

The necessary grid scale factor(s) are to be developed and applied to meet the desired accuracy for the project.

The data developed from applying the grid scale factors to New Jersey State Plane Coordinates shall be identified as "New Jersey State Plane Ground Coordinates". The coordinates are to be identified as such in the Survey Report and on the construction plans.

When a project is currently beyond Activity 1030, Designer Mobilization, a waiver from this requirement is automatic. However, a note will be required to be placed in the general notes and the Tie and Alignment sheets that states:

"Information on these plans are stated in NJ State Plane Grid coordinates and will need to be adjusted to NJ State Plane Ground coordinates utilizing the appropriate grid scale factor(s) provided in the Primary survey control report, and as noted here _____."

Provide scale factor(s) in note, and indicate limits for multiple scale factors.

Until this revision is incorporated in to the Survey Manual and the Aerial Photogrammetric Mapping Guidelines, this Corrective Action Notice shall be in effect.

Implementation:

The use of New Jersey State Plane **Ground Coordinates** is **immediate** for all projects that have not reached **Activity 1030**, Designer Mobilization.