Genius Tracker Post
Tolerances and Adjustability

Anthony Assal
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Independent Tables Eliminate Vertical and Horizontal Tolerance Issues

Closely aligned tables
• More Cost effective

Independent tables
• Higher cost for exterior posts with bigger sections
• Added cost for more heavier purlins
• Tables should drop to South – no shading impact

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GC2008 vs GC2005 Actuator Increases Center Post Tolerance by 75%

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Topography Analysis Provided to Optimize Design

• Use of AutoCAD® Civil 3D / Excel to analyze interaction of topography with post adjustment
• Visual representation of post alignment within tables / rows
• GameChange provides longer pile designs for valleys to minimize grading costs
• Coordination to determine areas to focus grading efforts
• Pile Driving
  • Northing, Easting, Top of Pile Elevations

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Requirements

• Topography data
  • Contour lines (1 ft)
    • Acceptable for first pass, not recommended for final design
  • Point files (.csv, .txt, etc)
  • Surface .xml files
• Covers entirety of site
  • No interpolation
• Final graded design
• Representative of field conditions

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Topography Analysis Provided to Optimize Design

Excel Analysis

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Topography Analysis Provided to Optimize Design

CAD Output

• Row Label
  • Table & Post Label
• Locations of areas of concern
  • Amount over max stickup
• Need for section change
• Adjusted coordinates to account for topography

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Topography Analysis Provided to Optimize Design

Example

- 15 Posts of out 1,473
  - Max ~ 6.0”
  - 2 Center Posts / 13 Standard Posts
- North mound responsible
- Need for section change
- Post Extender / Increase SKU to include longer post

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Excel Analysis – Chart Output

![Chart showing topography analysis](chart_image)

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