Project Guidelines (Civil 3D)

Softree Optimal

Project Suitability

Indicators of a suitable project for Softree Optimal are:

- Earthwork movement and some flexibility to move vertically/horizontally.
- Examples: rural road, highway, rail, or pipeline.

General Requirements

- Less than 10 kilometers/6 miles in length. Longer lengths can be optimized in segments.
- Single alignment. Currently Softree Optimal cannot optimize multiple alignments at once. Intersections, interchanges or ramps are not optimized but can be accounted for in the earthwork calculations.

Data Requirements (from Civil 3D)

1) A <u>single</u> drawing (.dwg) file with the following:

    1.1) The *Main Corridor*

    1.2) The *Centerline Alignment* (the one being optimized)

    1.3) A *Sample Lines Group* based on the *Centerline Alignment* (from 1.2 above) of the *Main Corridor* (from 1.1 above) and a sub-grade *Corridor Surface* derived from the *Main Corridor*

    1.4) *Section View Group* of the *Sample Lines Group* (from 1.3)

    NOTE: It should be possible to re-build the *Main Corridor* without installing additional PKT files

2) The original ground surface (.dwg or LandXML)

3) <u>All additional</u> .dwg files that are referenced from the main drawing

Design Controls, Costs & Parameters

(These are not required, but are recommended for a complete demo.)

- Cut & fill cost of materials (per cubic yard or cubic meter), and any pit locations.
- Maximum/minimum values for: grades, curve lengths, k-value.
- List of constrained points. Provide station numbers, elevations and (optional) grades.
- Any additional constraints, such as minimum height of fill.

Your data. 30-minute custom demo. See the savings for yourself.

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