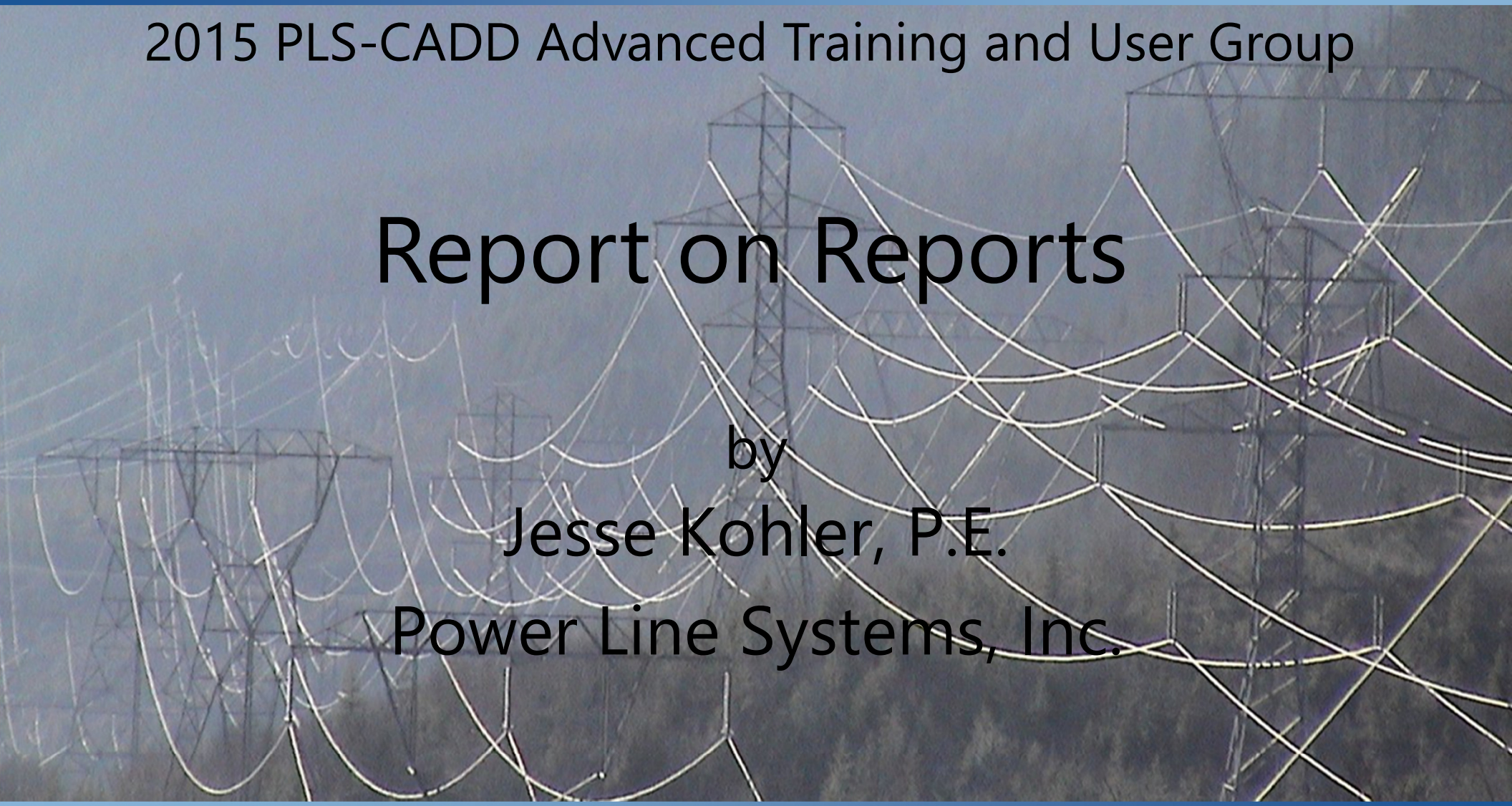
2015 PLS-CADD Advanced Training and User Group

Report on Reports



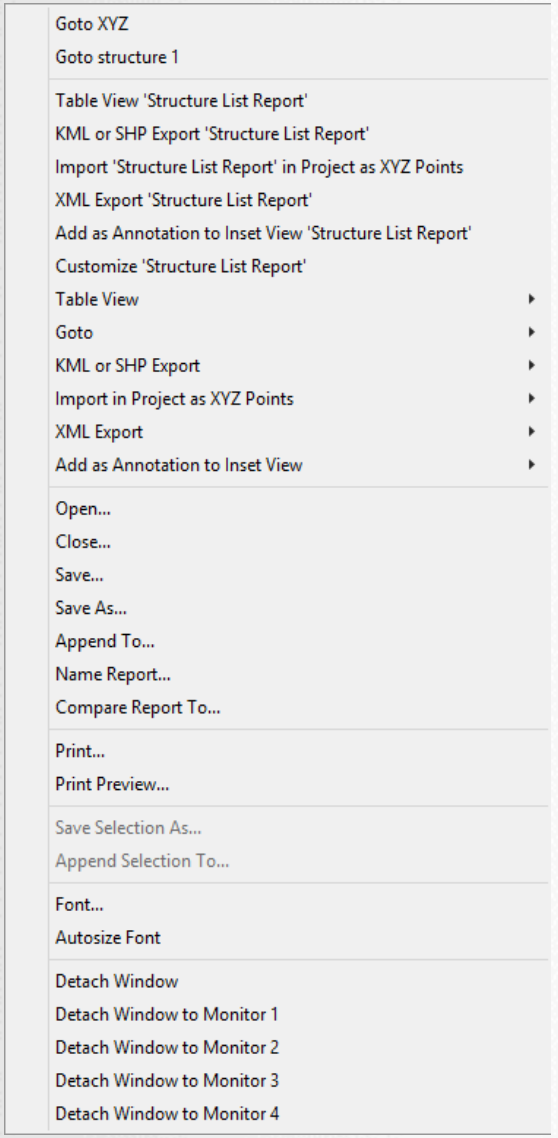
by
Jesse Kohler, P.E.
Power Line Systems, Inc.

Report Navigator Toolbar

- GoTo Function
- Table View Sections
- XML Export Sections
- Report Annotation Creation

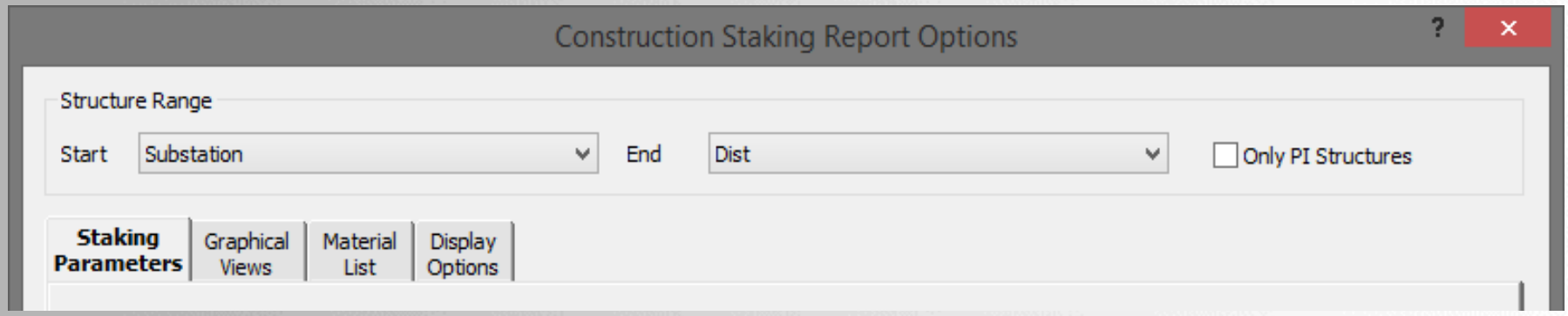
The Right Click Menu

- Go To Subsections
- Go To Structures or XYZ Points
- Table View Subsections
  - Sort, Filter, Copy/Paste
- KML and SHP Export
- Import XYZ Points Into Project
- XML Export
- Create Annotation Inset View
- Customize Subsections
- Save and Print
- Autosize Font
- Append Report
- Name Report
- Compare Report
- Detaching
- Edit Structure Elements
- Tooltip Labels When Header Offscreen



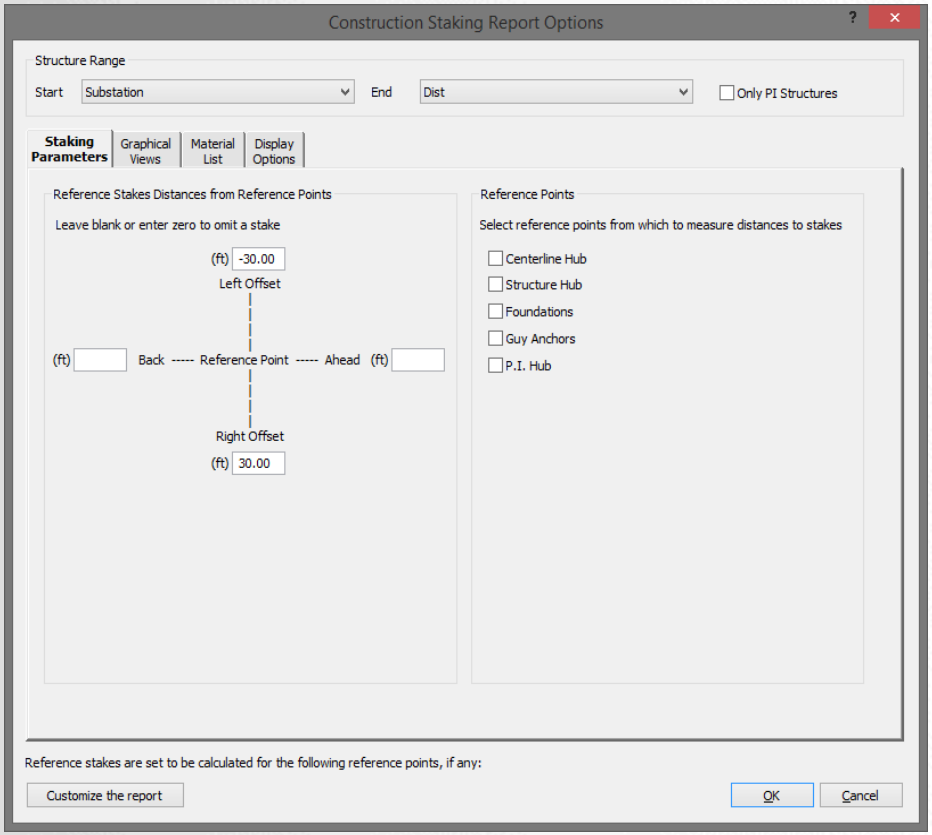
Construction Staking Report

- Tabbed Arrangement
- Structure Range
- Only Report for PI Structures



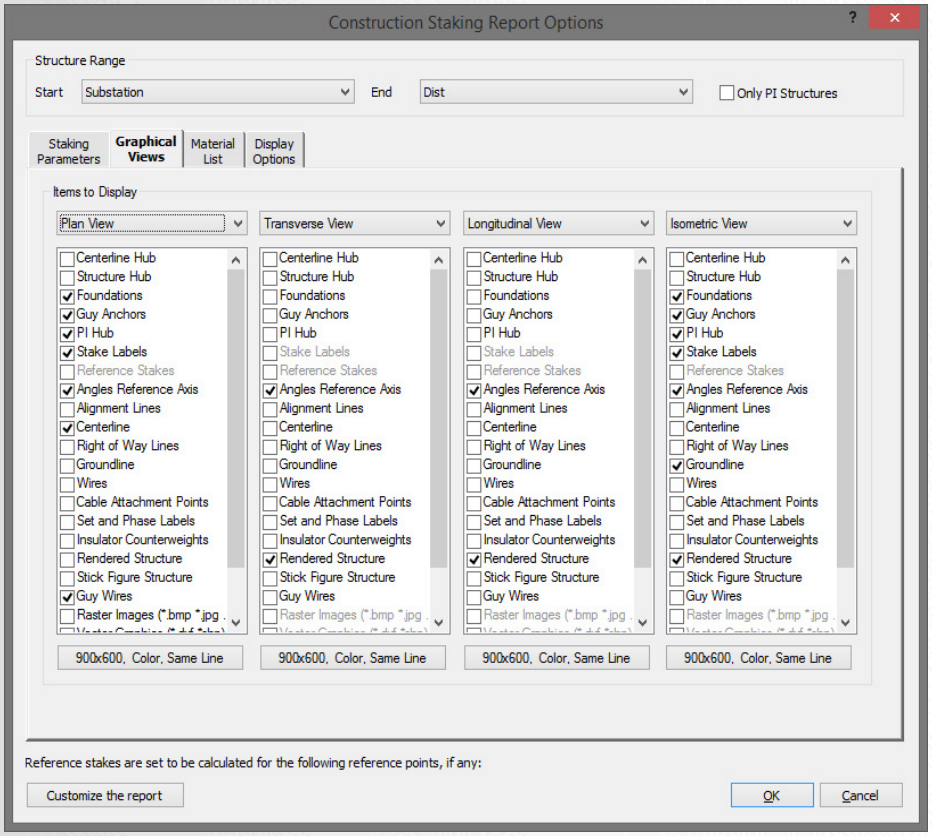
Construction Staking Report *Continued…*

- Staking Parameters
  - Reference Stake Distances
  - Reference Points



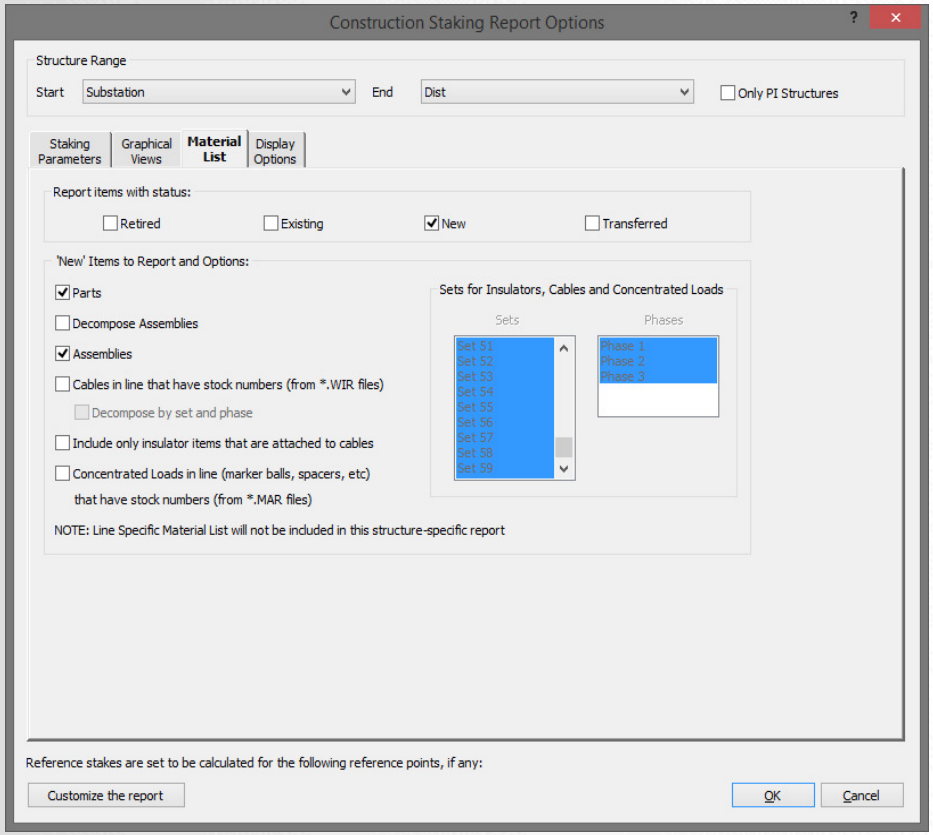
Construction Staking Report *Continued…*

- Graphical Views
  - Plan, Transverse, Longitudinal & Isometric
  - Plethora of Options
  - Order and Type Switchable
  - Size, Color, and Line Options



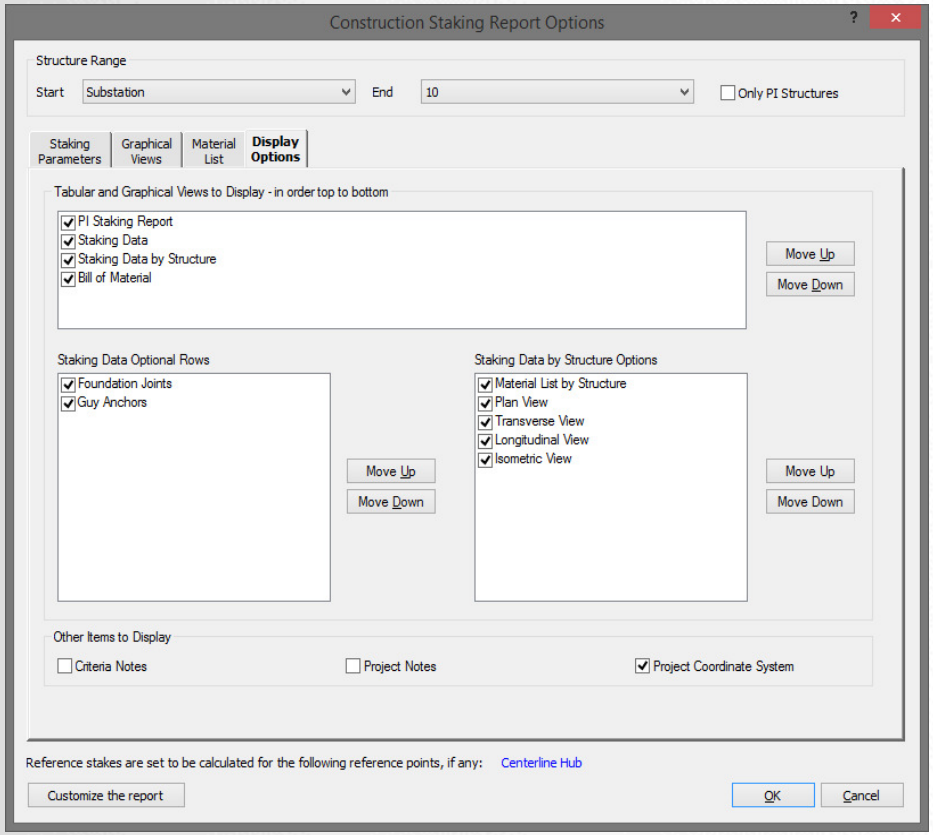
Construction Staking Report *Continued…*

- Material List
  - Same Options as Bill of Material Report



Construction Staking Report *Continued…*

- Display Options
  - Selection of Sub-Section Reports
  - Optional Data Rows
    - Foundation Joints
    - Guy Anchors
  - By Structure Sub-Section Options
    - Material List
    - Graphical View Types



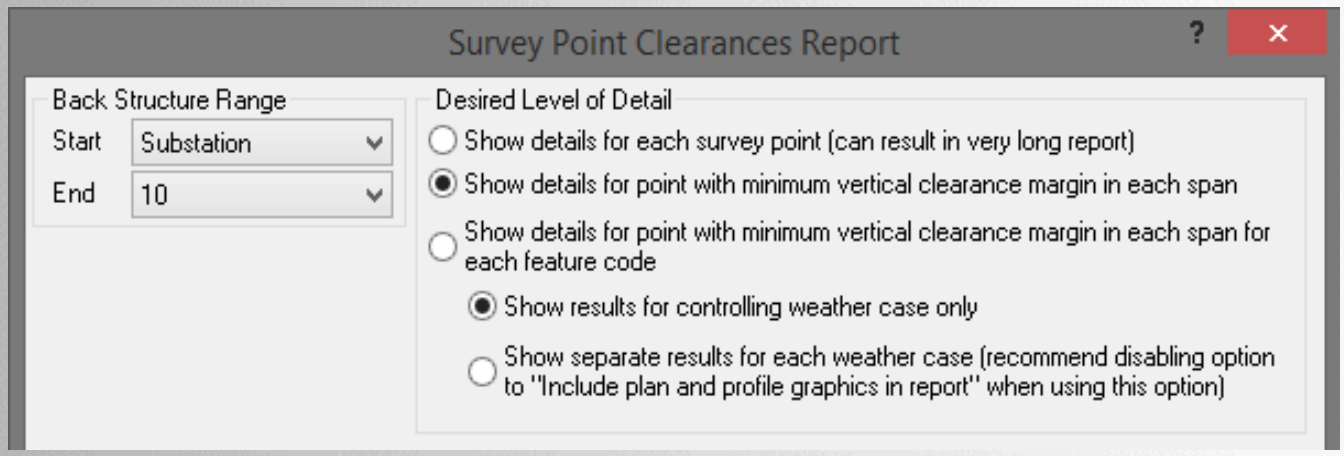
Construction Staking Report *Continued…*

- Output
  - Structure number
  - Structure name
  - Ahead Span
  - Line Angle
  - Structure Orientation Angle
  - Stake Description / Type
  - **Station of Stake**
    - **(special case for inside line angles)**
  - **BT or BI**
  - XYZ and TIN Z
  - Length to Structure Hub
  - Length to Centerline Hub
  - Reference Stake Offset
  - **Average Slope at Guy Anchor**
  - Structure Right Bisector Angle
  - Centerline Right Bisector Angle
  - Structure Right Transverse Angle
  - **Pole Property Label**
  - CAN Property Label
  - Structure Height / Pole Length
  - **Actual Embedment**
  - **Modeled Embedment**
  - Pole Base Diameter
  - **Structure or Pole Weight**
  - Structure Description
  - Warnings
  - † **Lat/Long Coordines (Dec. & DMS)**
  - † Project Title & Notes
  - † Structure Comments
  - † Structure Model Insertion Z

† = *Hidden By Default*

Survey Point Clearances Report

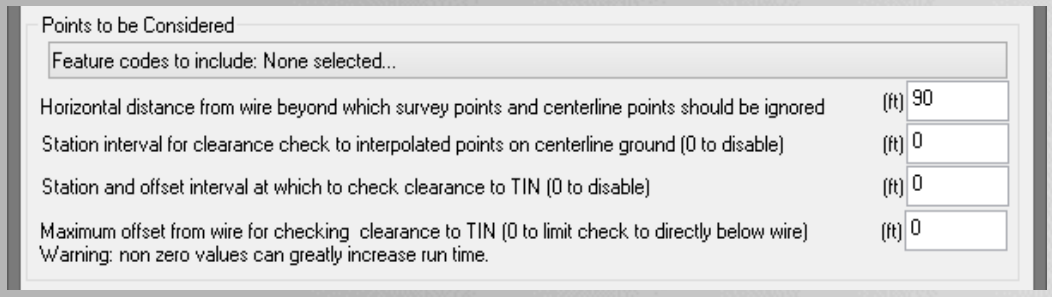
- Desired Level of Detail
  - Show details for each point
  - Show details for point with minimum vertical clearance in each span
  - Show details for point with minimum vertical clearance in each span for each feature code
    - Show for controlling weather case only
    - Show separate results for each weather case



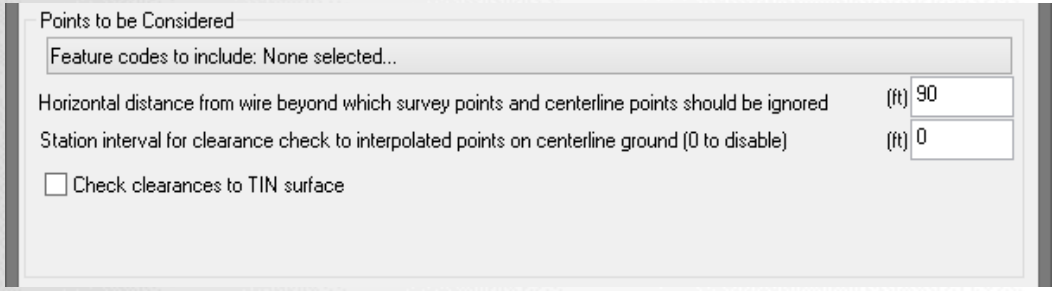
Survey Point Clearances Report *Continued…*

- Points to be Considered
  - Feature Codes
  - Horizontal Distance from wire to stop considering points
  - Ground Clearance Checks
    - Station Interval for clearance check to interpolated points on centerline
    - Rectangular
      - Station and offset (grid pattern) for TIN check
      - Maximum Offset from wire for checking to TIN
    - Radial
      - Check clearance to TIN surface

Rectangular

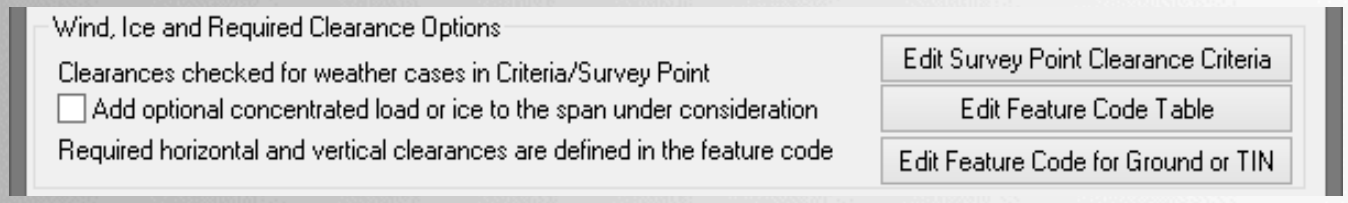


Radial



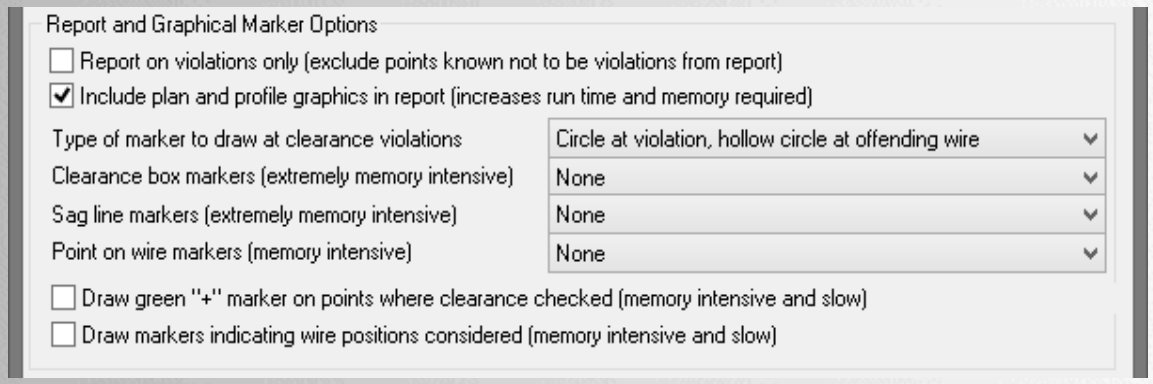
Survey Point Clearances Report *Continued…*

- Wind, Ice & Req. Clearance Options
  - Survey Point Clearance Criteria Edit
    - Continuous Wind Vs. Static Positions
  - Feature Code Table Edit for Changing/Checking Clearances
  - Feature Code for Ground/TIN Edit
  - Optional Concentrated Loads Addition



Survey Point Clearances Report *Continued…*

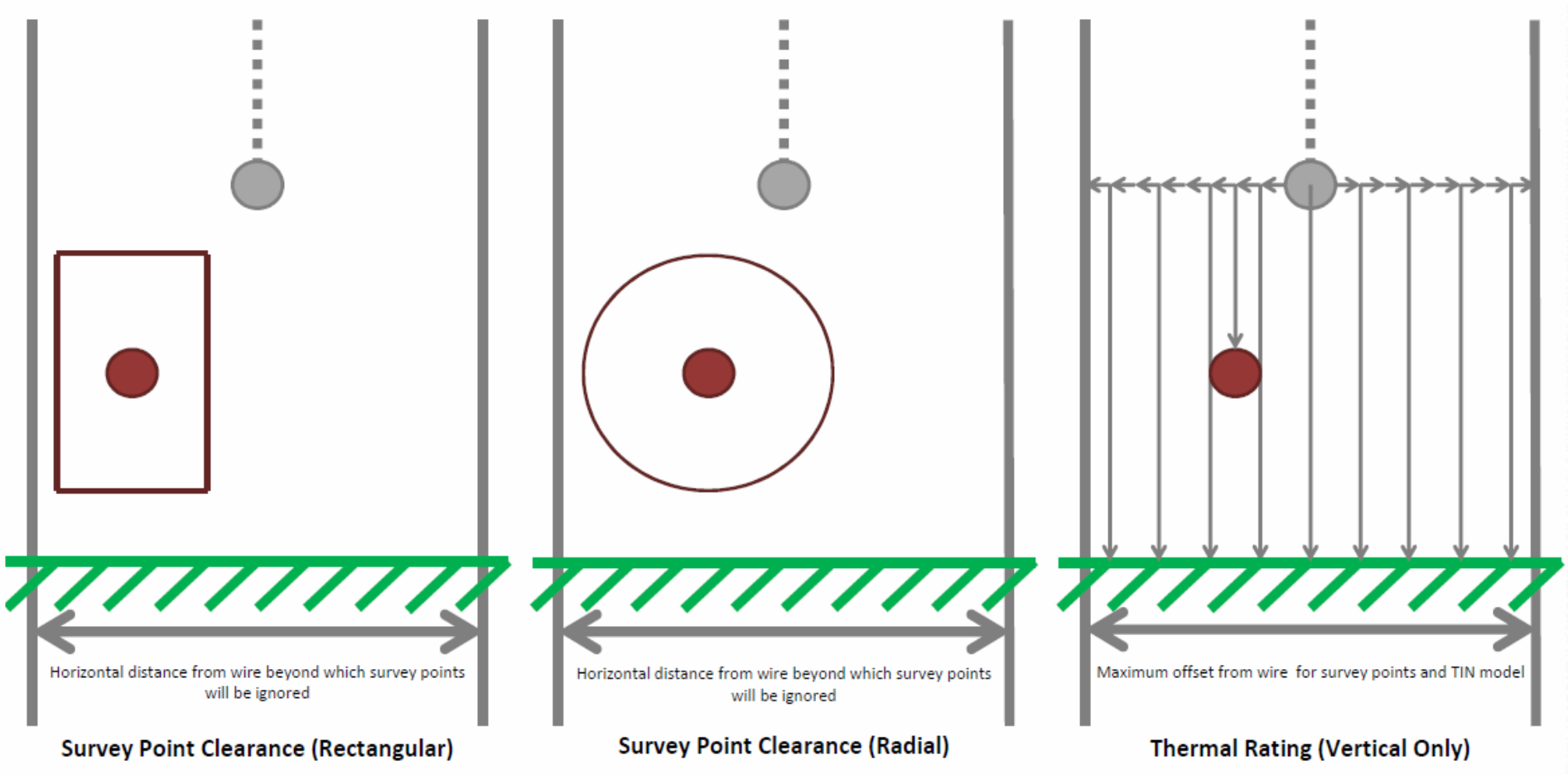
- Report & Graphical Marker Options
  - Report on Violations Only
  - Include Plan and Profile Graphics
  - Marker Options for Violations
  - Clearance Box Markers
  - Sag Line Markers
  - Point on Wire Markers
  - Draw a Green Plus + on Survey Points That Were Checked
  - Draw Markers for wire positions



Survey Point Clearances Report *Continued…*

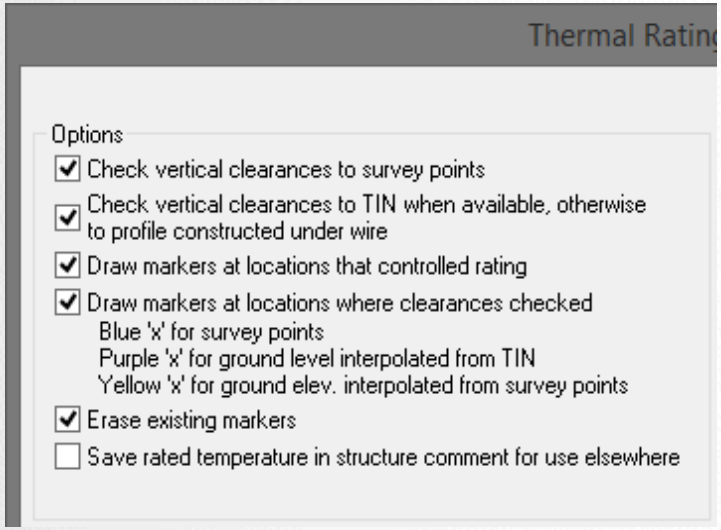
- Type of Clearance Requirement
  - Rectangular
  - Radial
    - Make wire surface TIN
    - Outline TIN triangles at violations

Difference Between SPC & Thermal Rating



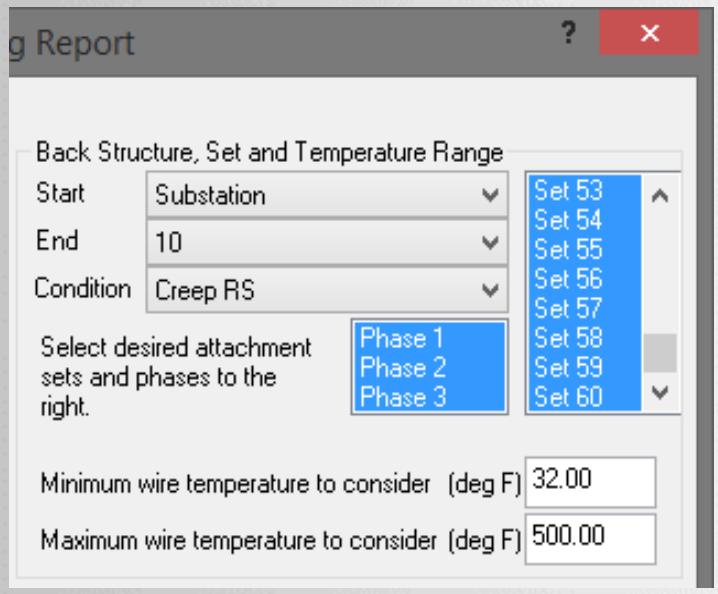
Thermal Rating Report

- Options
  - Check vertical clearances to survey points
  - Check vertical clearances to TIN
  - Draw markers at locations of controlled rating
  - Draw markers at location where clearances checked
    - Blue ‘x’ for survey points
    - Purple ‘x’ for ground elevation interpolated from TIN
    - Yellow ‘x’ for ground elevation interpolated from survey points
  - Erase markers
  - Save rated temperature to structure comment



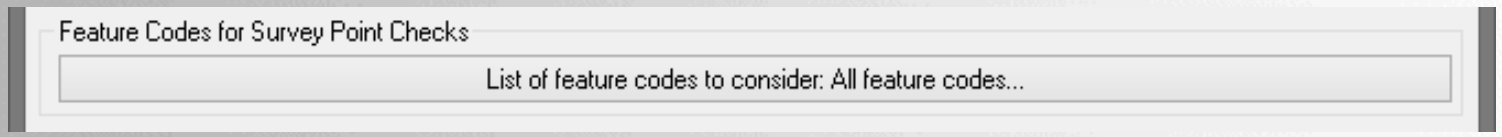
Thermal Rating Report *Continued…*

- Start and end structure
- Cable condition
- Set / phase restrictions
- Minimum and maximum temperature limits



Thermal Rating Report *Continued…*

- Feature codes for survey point checks

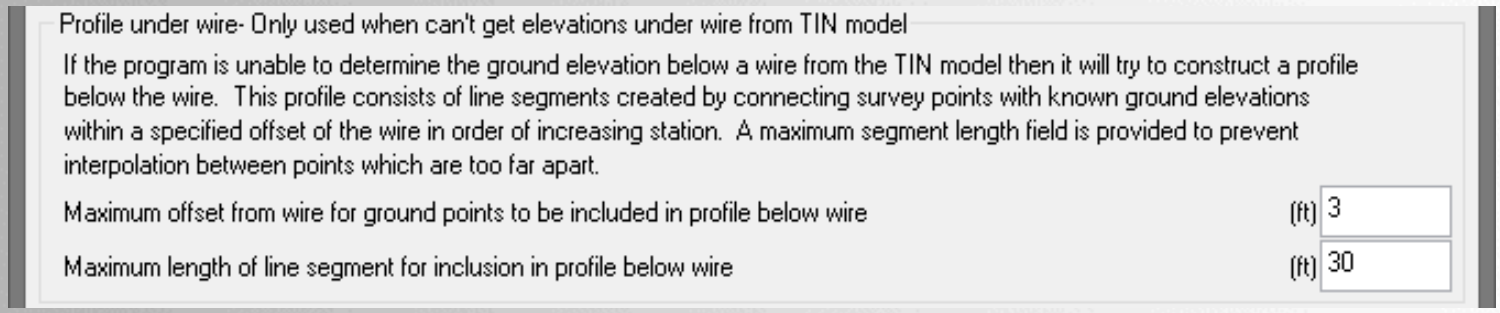


Thermal Rating Report *Continued…*

- Maximum offset from survey points and TIN model

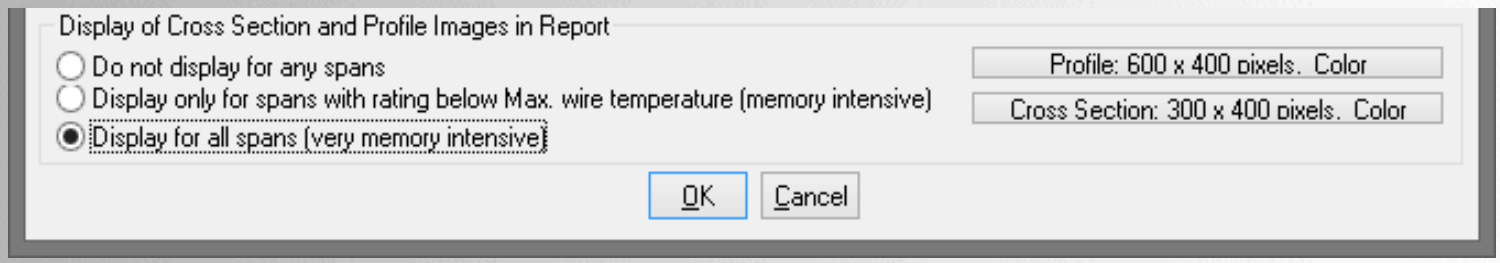
Thermal Rating Report *Continued…*

- Profile under wire **Only** used when can't get elevations under wire from TIN model
  - Maximum offset from wire for ground points to be included in profile below wire
    - Very similar to centerline tolerance in terrain widths
  - Maximum length of line segment for inclusion in profile below wire



Thermal Rating Report *Continued...*

- Display of cross section and profile images in report
  - Do not display
  - Display for spans with rating below max wire temp
  - Display for all spans



Advanced Sag & Tension
IEC
Materials Management
FAC 008/009
NESC
PLS-CADD®
LiDAR Modeling
Structural Analysis
CSA
Distribution
Pole Analysis
CENELEC
Transmission
NERC
Project Estimating
Line Optimization
Ratings
FAC 003
ASCE
Joint Use
PLS-POLE
Vegetation Management
1000+ Users in 100+ Countries
Storm Hardening
IEEE
Line Ratings
TOWER
Drafting

Any Questions?

POWER LINE® SYSTEMS · INC ·
Madison, Wisconsin 53705, USA
Phone: 608- 238-2171 Fax: 608-238-9241
info@powline.com www.powline.com