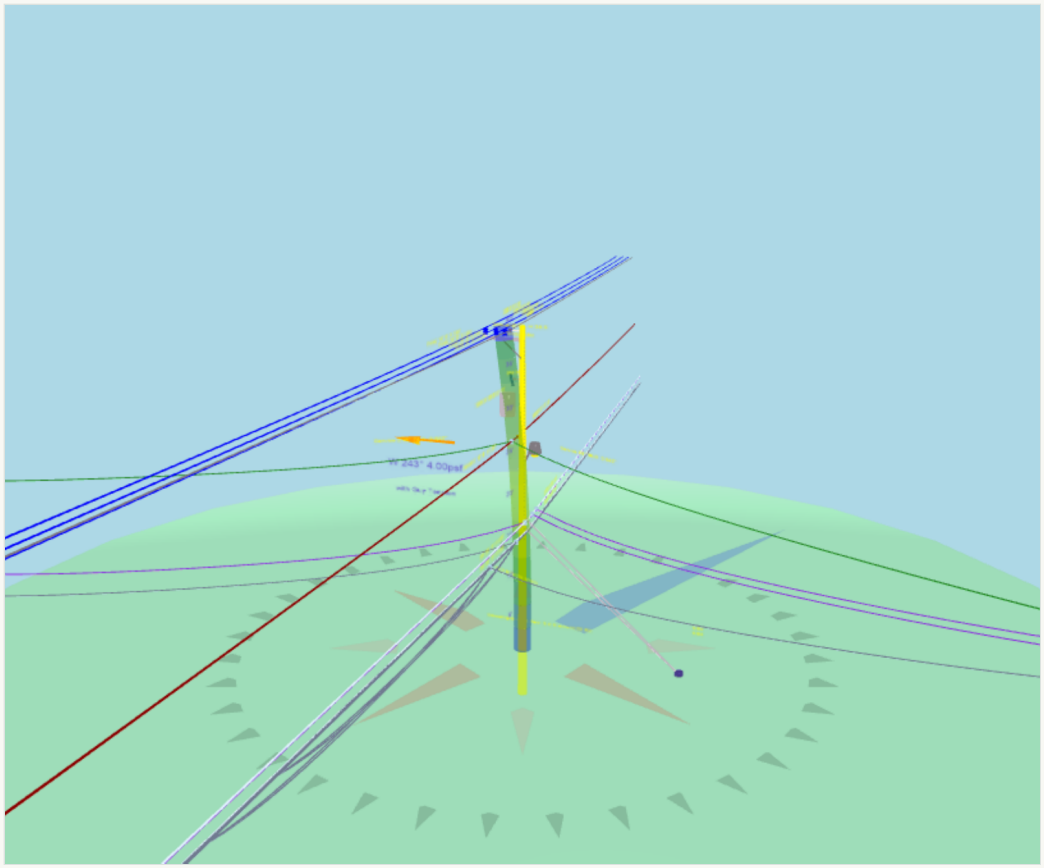
TELECOMMUNICATIONS INFRASTRUCTURE

Pole loading. Technical detail. Clearer insight.

Practical O-Calc Pro experience in overhead configuration modeling, analysis documentation, quality control, and custom technical reporting.



10 YEARS

O-CALC PRO EXPERIENCE

MODELING

Overhead geometry and attachments

REPORTING

Analysis and custom chart formats

QUALITY

Documentation and coordinated review

Original work samples are presented without client names or pole/project identifiers. Reported values are example-specific and are not independent engineering verification.

EXPERIENCE & CAPABILITIES

Engineering knowledge. Practical delivery.

Ten years of O-Calc Pro experience supported by field-data interpretation, technical documentation, quality control, and project coordination.

01

Pole modeling

3D representation of utility poles, conductors, communications cables, attachments, and guying arrangements.

02

Pole loading analysis

Model preparation, analysis documentation, and review of capacity and load-summary outputs.

03

Make-ready support

Existing and proposed configuration review and technical documentation for overhead attachment work.

04

Source-data interpretation

Field data, power maps, fiber records, and supporting drawings reviewed as inputs to the modeling workflow.

05

Custom reporting

Tool-assisted preparation of consistent, reviewable tension-sag charts and supporting report information.

06

Quality & coordination

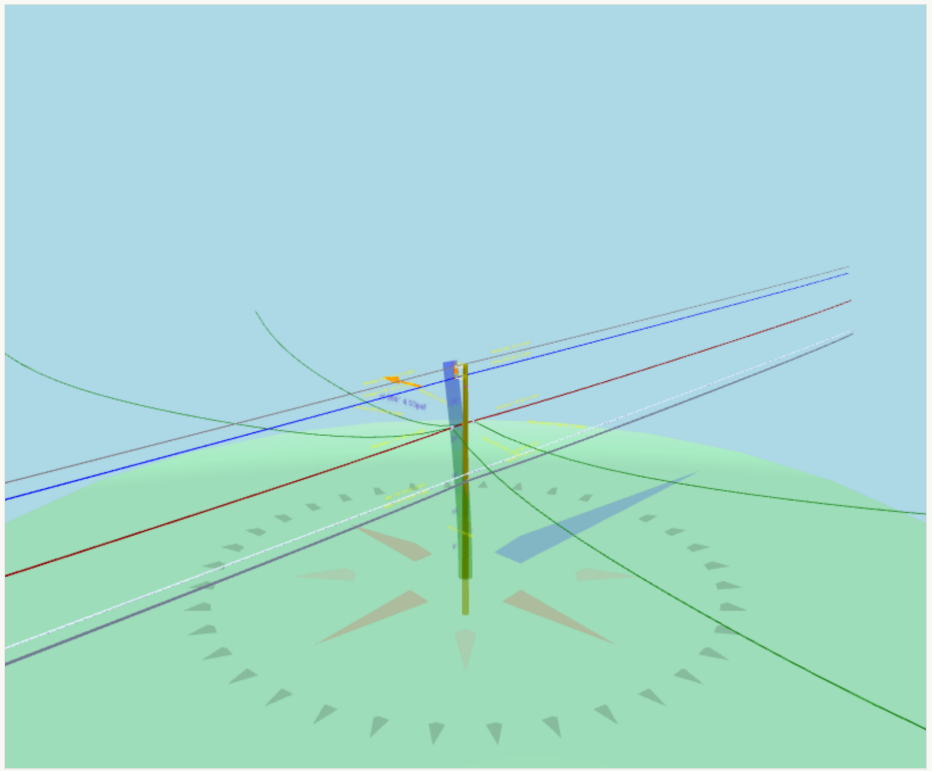
Technical checks, revision coordination, documentation review, and practical problem-solving.

PROJECT EXPERIENCE / FTTH, FTTP, Lightgig, ASE, BAU, A2U, feeder, relocation, and joint-use attachment work.

SELECTED 3D MODELS

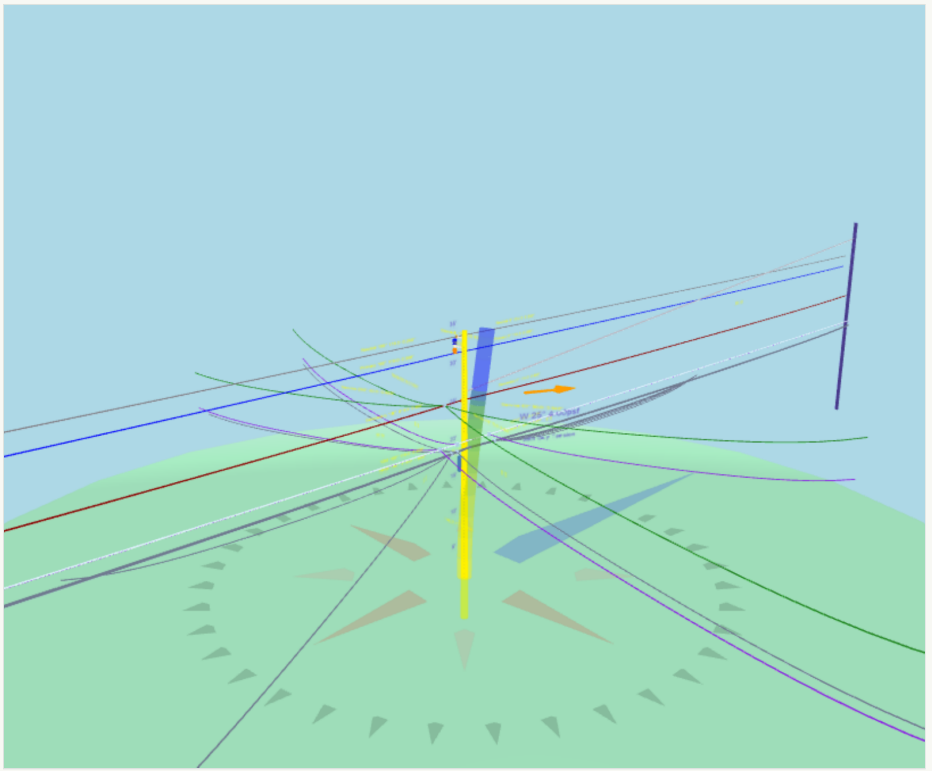
Overhead configurations in context.

Selected O-Calc Pro views show cable routes, attachment arrangements, equipment, and guying across different levels of model complexity.



New cable installation

A utility-pole configuration for proposed cable installation, showing how the attachment relates to the existing overhead network.



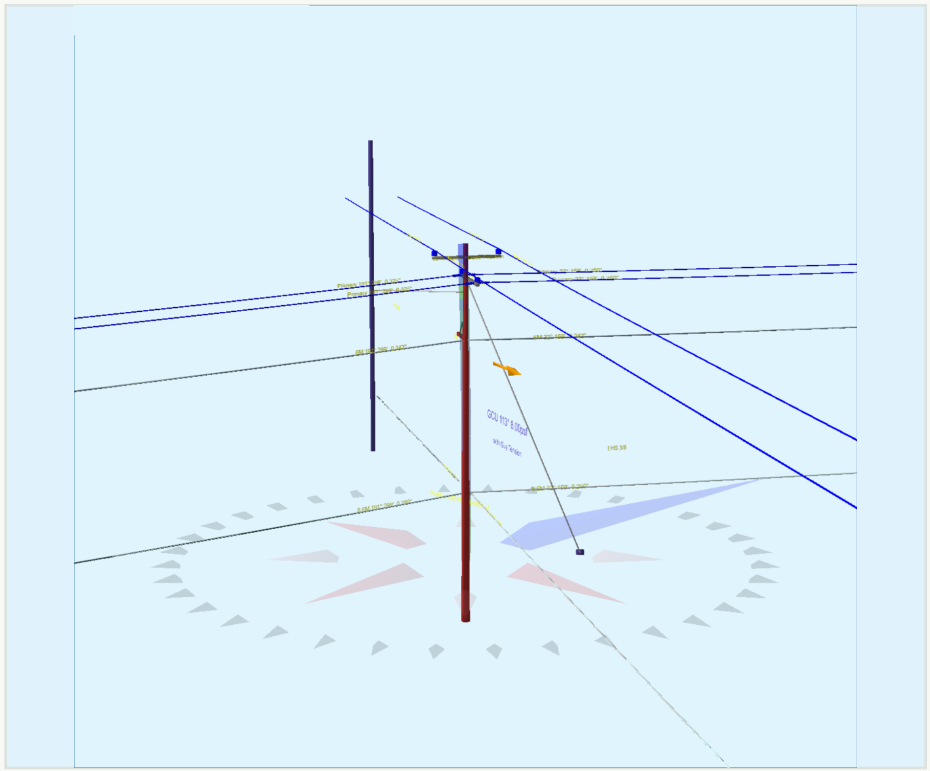
Guyed tangent structure

A more involved configuration with multiple overhead cable directions, attachments, equipment, and guying elements.

SELECTED 3D MODELS

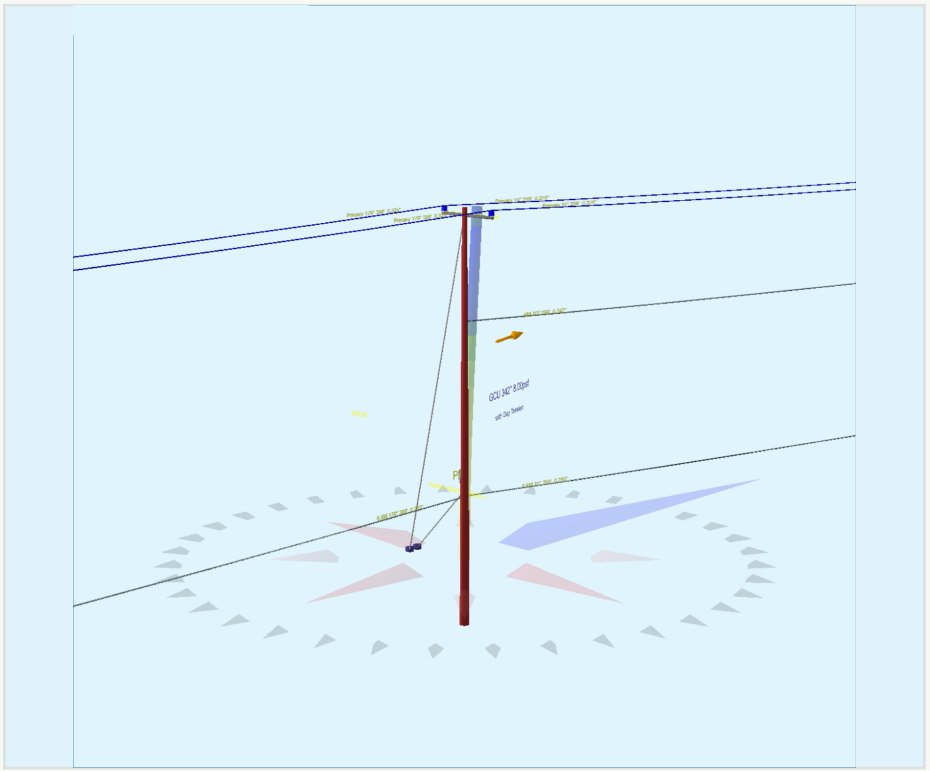
Guying and angle configurations.

Larger model views make the support arrangement and overhead cable geometry visible without stretching or compressing the source images.



Guyed tangent with support system

A detailed view of the pole, overhead conductors, communications attachments, and supporting guy arrangement.



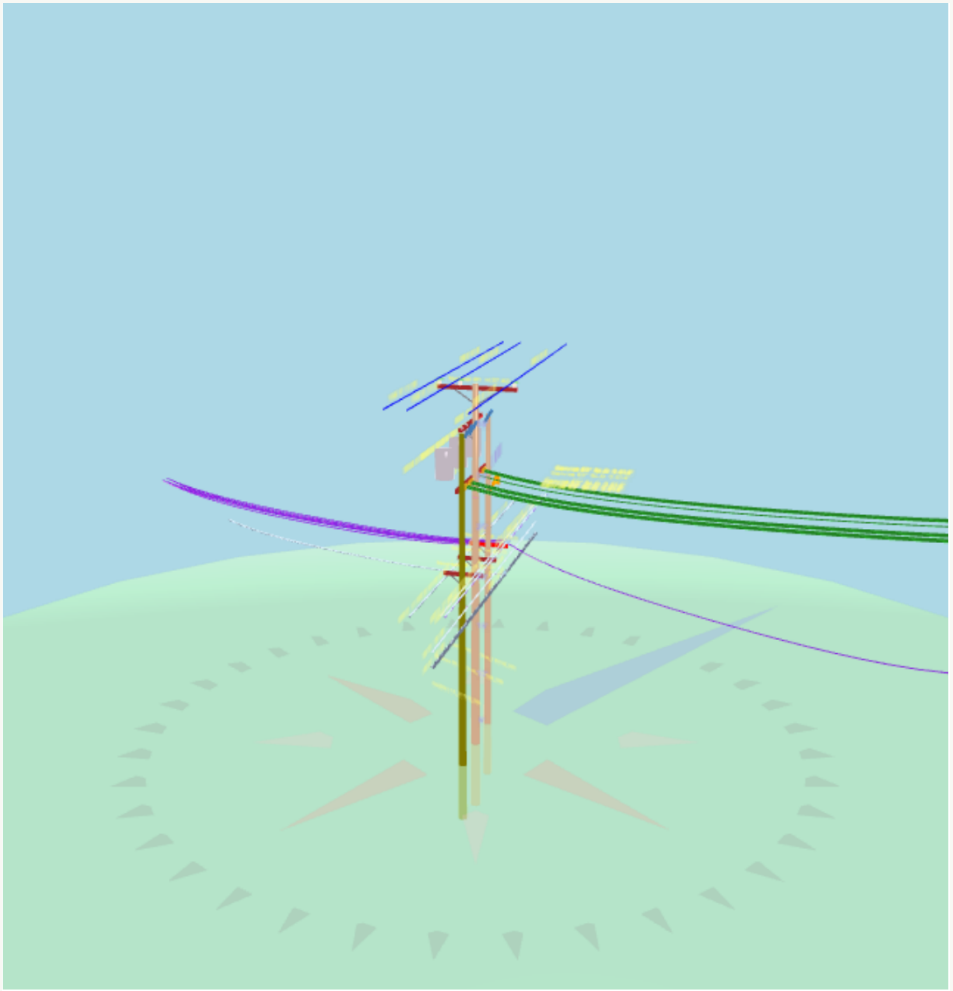
Angle structure

An angle configuration showing overhead attachments and the relationship between the pole and its guying arrangement.

MULTI-POLE STRUCTURE

Multiple poles.
One connected overhead context.

A multi-pole O-Calc Pro view showing adjacent pole positions and the relationship between overhead cable paths and attachment geometry across the structure.



WHAT THIS VIEW COMMUNICATES

Structure relationships at a glance.

The view presents several pole positions within the same overhead context, helping communicate cable direction, relative attachment geometry, and how the modeled structures relate to one another.

01 Adjacent pole positions

02 Shared overhead cable paths

03 Relative attachment geometry

Representative supplied model view. Report headers, pole identification numbers, and project file identifiers are excluded. This portfolio is not a stamped engineering report or independent certification.

REPORTING & DELIVERABLES

Reported results. Clearly communicated.

Selected values transcribed from supplied reports into a consistent, anonymized format. These are report outputs, not newly calculated results.

REPORT EXAMPLE A

Guyed tangent

68.9%

Reported maximum pole capacity utilization

Report code	NESC
Pole length	40 ft
Pole class	Class 2

REPORT EXAMPLE B

Guyed tangent

22.7%

Reported maximum pole capacity utilization

Report code	GO 95
Pole length	45 ft
Pole class	Class 4

REPORT EXAMPLE C

Angle structure

74.2%

Reported maximum pole capacity utilization

Report code	GO 95
Pole length	50 ft
Pole class	Class 3

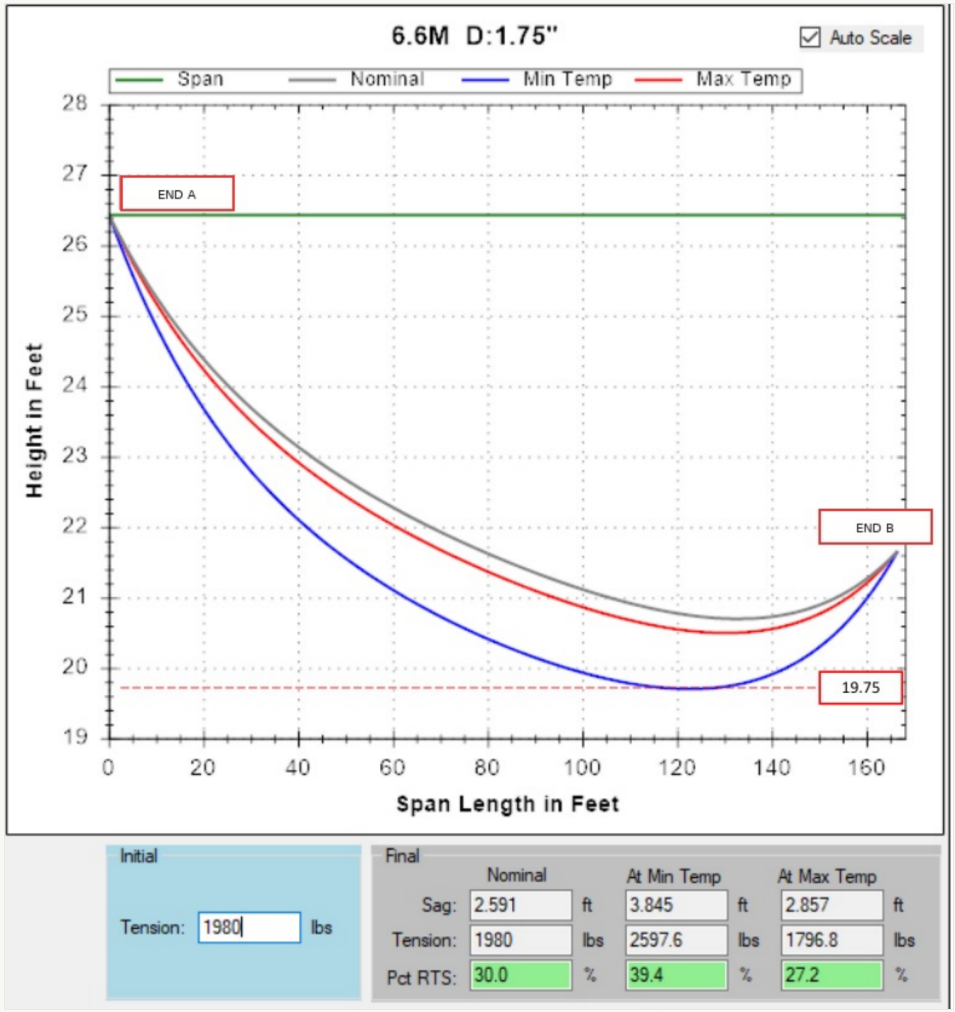
Reports also provide load-component information, guy and anchor summaries where applicable, and supporting technical data for review. The scope depends on the specific model and report.

Values apply only to these supplied examples. No O-Calc recalculation or independent design verification was performed to prepare this portfolio.

CUSTOM TECHNICAL REPORTING

Span geometry and cable behavior.

Customer-requested reporting supported by tools that reduce repetitive preparation and standardize the presentation of technical information.



Initial

Tension: 1980 lbs

Final

	Nominal		At Min Temp		At Max Temp	
Sag:	2.591	ft	3.845	ft	2.857	ft
Tension:	1980	lbs	2597.6	lbs	1796.8	lbs
Pct RTS:	30.0	%	39.4	%	27.2	%

CUSTOM REPORT EXCERPT

A consistent format for technical review.

The supplied chart presents nominal, minimum-temperature, and maximum-temperature curves, with sag, tension, and percent rated tensile strength values.

- Span reference
- Nominal condition
- Minimum-temperature condition
- Maximum-temperature condition

Actual supplied chart excerpt; endpoint labels generalized. No measured productivity gain or unique-span count is claimed.

WORKING APPROACH

Structured inputs. Traceable technical work.

Practical automation supports repeatable production tasks. Technical judgment and human review guide the decisions that affect the deliverable.

01

Review inputs

Check the available field records, pole information, cable data, and project-specific requirements.

02

Model the configuration

Represent the overhead arrangement and review attachment, geometry, and guying inputs.

03

Analyze & document

Review analysis outputs and assemble the required technical reporting.

04

Check & coordinate

Review consistency, address discrepancies, and coordinate revisions before delivery.

Bring clarity to your next assignment.

Start with available field data, source records, technical criteria, expected deliverables, and a target schedule.

JWORKS | Engineering & Technology. Selected professional experience in pole modeling, analysis documentation, and technical reporting. This portfolio is not a stamped analysis or certification.