

---

**From:** Sande, Dan  
**Sent:** Tuesday, February 2, 2021 3:13 PM  
**To:** Sande, Dan  
**Subject:** Introductory Summary E-Mail

**Categories:**

Attached find our Official permit Requirements along with the Profile form.

Below is the Stock Email I send to new permitting companies or atatchers, I went thru and added some additional detail based on Gabes Permits. If there are questions or need clarification let me know.

Pole Profile Form- this tells us where everything is on the pole It needs to be filled in fairly completely, we are looking for our lowest wire height, drip loops. Uguard heights and lights and associated drip loops. The riser detail needs to show any existing risers on the pole and any proposed risers you plan to add. Need to list the height of any Load Break Handle Insulators. You also need to record the existing attachers on each pole. Existing (Measured) midspans for our lowest conductor and at least the top and bottom communications line are also needed. The Measured midspans on the profile sheet always should be for the **next span**(On your first pole with a riser you may also need to do the previous span to show you are not trapping someone in a span violation in that span) For new build we require some sag calculations to show proper clearance, many people use Sagline or another program but it can be hand calculated as well. The sag detail pages should be in between the profile pages for that span. We are looking for clearance from our bottom wire to the top communication line(Max Temp for us is 200deg or ½ Ice whichever is worse), with us loaded worst case and the communication not loaded. We also need to see the bottom communication line will have proper ground clearance, normally with them ice loaded, as that is their worst condition.

More on sags- You need to model the proper wire for us or one with a worse sag characteristic than what is there. 6DX seems to be an issue for people to model as does 6CU secondary. I have provided sag sheets and can again so there are modeled properly. You need 30" clearance in span for Secondary or Neutral under NESC rules of us loaded and you not. Measured sags must be accounted for when running sag calculation and adjusted as needed for actual conditions. In most cases the midspan will be midspan but you may also need other info if there is a hill, Rail tracks Etc not in midspan. Sags must also be adjusted for any proposed movement on the pole(Your moving them down, up etc)

Make Ready-We generally do not move our lines up to provide clearance but if the pole has room it may be considered. If requesting a pole replacement you must indicate the height and class needed. Any existing communications Make Ready you will need to make sure is completed prior to attaching. Actual attachments listed on Profile Top and moves listed in Make ready area, you may also need to list yourself up with the other attachers if not using sagline so you can list your nominal(Top) or Nominal & worst if on the bottom.

Map/Print-A route map showing streets and the poles along with pole numbers(If your number the poles 1,2,3 it should match the profile and Spans numbers), ideally guying and riser profiles are also indicated on the map. Property Lines Should be shown if close, you are required to obtain rights to cross any private property and may be required to provide us proof of rights. If your permit continues note that on the map. I find crews build off the maps and the better product you provide there the better chance we have of you building correctly.

Loading-The pole must be loaded in a loading program such as Ocalc or Spida Calc and the detail reports must be included in PDF form, below are some loading guidelines. For our conductors this is the general rule of thumb I suggest for wire sizes.

Small copper would be #6, this would be used on old lines...Copper is hand tied at the pins v/s preformed for aluminum and gets that green tint.

Most of our newer Primary lines are either #2 6/1 ACSR(Sparrow) or 336.4 kcmil 18/1 ACSR(Merlin).

If you can't make a reasonable guess between #2 and 336 use #2 for single phase lines and 336 for three phase. Use the same size for the neutral.

Our predominant secondary main is 2-#4/OAL & 1-246.9 ACSR Neutral

Service drops are mainly #2 triplex and 1/0 triplex

Grade B Required by the NESC at Limited Access Highway crossings, Rail Crossings and Navigable Body of water crossings that require a Permit(We may ask for proof that you do not need a permit to cross or a copy of the permit)

Pictures- At least two good pictures of each pole from different angles to be able to see the entire pole from ground to top. May need some not taken with the Ike as the Ike seems to lower resolution and if the Ike notes are on the photo it blocks me from seeing things. If the Photos are too far away I can't see the detail I need. Some People take a span photo as well, I do not require that yet but may at some point as I think it's not a bad idea.

Permit Form-Filled in as completely as possible, one per site. Each Permit must be its own submittal in SPANS