

NEW!!!

Template Instructions README

REV1 8/14/18

GENERAL

These AutoCAD templates (.dwt) are designed to be brought into “paper space” at 0, 0. They represent an Arch “D” (24” x 36”) size sheet of paper.

The templates have built into them, LANL’s CAD Standards requirements pertaining to layers, fonts, text height, line weight, line type and dimensioning styles.

Do not explode the templates – use the editable attribute command (or double click on an editable field) to add/change information in the title block. Use the block editor to modify all other elements of the title block when necessary.

All elements drawn in model space are to be at full scale. All scaling is to be done in paper space using the viewport scaling feature.

All text and dimensioning is to be completed in paper space.

Layering in the templates is for general use and should be added to/customized as needed based on the National CAD Standard.

The template shows the “ENGINEERING SERVICES” logo and therefore applies to Engineering Services users. Other design agencies are to replace the logo with that of their own.

CONVENTIONAL (WET SIGNATURE) TEMPLATES

These templates have been posted on the ESM CAD Standards Manual website for several years and no changes have been made to them since August 2017. They may continue to be used if desired, for the

time being, but are expected to ultimately be retired in favor of using the digital signature templates.

DIGITAL SIGNATURE TEMPLATES

These new templates, currently issued under an approved variance (VAR-10066) accommodates digital signatures for all reviewing/approving parties. This eliminates hardcopy plotting, “wet signing” and then scanning back to electronic media thus saving paper and ink and eliminating compromised PDF quality induced by scanning methods. The CAD Standards Manual will be revised to reflect use of the digital signature templates and title blocks, which will close out the VAR-10066.

The digital signature title block differs slightly from the conventional title blocks – namely utilizing larger signature blocks to accommodate digital signatures. It also differs in that a single block is used for all reviews/approvals for the life of the drawing – the reviews/approvals that appear are for the current revision only, including Rev 0.

Once a drawing (or drawing package) is ready for the review/approval phase, it is recommended to use the “Export \ PDF” function in AutoCAD to generate the PDF for highest quality. The export PDF will be driven by AutoCAD’s Page Setup configuration assigned to that sheet, same as if were to be printed on a plotter. The PDF(s) are then to be routed to each reviewer/approver (starting with the Designer and ending with LBO-Design Package Reviewer, when applies) who digitally signs (using the LANL standard “ENTRUST” digital signature software) and sends on to the next approver.

Guidance – to aid with the routing process and provide reliable tracking of the drawing(s) during the review/approval process, a SharePoint site or share drive folder can be used.