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## Chapter 9: Plan & Profile Sheet Clipping

### Overview

This chapter will describe the methods used to create plan and profile sheets. The following workflows will show the user how to set up sheets using GEOPAK Plan and Profile Sheet Composition tool.



Note: CFLHD policy is to create one sheet per file. This will allow the use of plan and profile labelers when detailing the sheets.

### Plan/profile sheet creation

GEOPAK will create single plans, double plans and plan/profile sheets. These sheets are generally created at 1000 scale Metric or 2000 scale Metric and 1:100 scale English and 1:200 scale English. Workflow 1 will describe the steps necessary to create a plan/profile sheet. Station range, drawing areas, and many other variables are contained in the sheet library files **English\_sheets.psl** and **Metric\_sheets.psl**. The sheet library file contains many values specific to CFLHD such as cell library names and locations, specific sheet cells to be used, drawing scales, and a variety of text parameters and cannot be modified by the user.

The sheet library files for CFLHD projects and are located on the CFLHD network at: **N:\V8i\_resource\CFL\_Local\GEOPAK\Resources\English\ (or Metric)**



For CFLHD employees, the unit correct .psl file will be automatically attached while opening a design file using the Project Configuration (\*.pcf).

For consultants, CFLHD sheet library files are available through the **V8i\_Resource.zip** download. Download the file and extract the file to the server or local drive, keep the V8i\_Resource directory structure intact. The unit correct .psl file will be attached when opening a design file using the project configuration file.

### Clip Sheets and Motif Files

Prior to using the GEOPAK Plan and Profile Sheet Composition tool, three files need to be created. **Clip.dgn**, **Plan\_motif.dgn** and **Profile\_motif.dgn** should be created to assure proper setup of plan and profile sheets. Outlined below are the uses and instructions for creating each file.

### Clip.dgn

Creating a drawing to display the sheet boundaries will allow the user to always have a visual representation of how each sheet will layout in relation to the others. If the design changes, having this file will allow the user to move sheets around to better fit any design changes. To create this sheet, make a copy of the 2D seed file and reference the **chain** and **profile** into this new file. By referencing the overall design back into the **Clip.dgn** file, any future design changes will be displayed in this new file, instantly showing the designer which sheets, if any, will need to be adjusted. Sheet cell libraries **English\_pnp\_sheet\_layout.cel** or **Metric\_pnp\_sheet\_layout.cel** should be attached to the **Clip.dgn** file prior to clipping sheets, this will provide the ability to automatically clip the graphics with notches for project Information (state, project, sheet number) to be unobstructed.

### Motif files

Motif files act as seed files for clipping plan and profile sheets. Motif file should be a blank file with the proper reference files attached, and the proper levels for each file turned on or off. The **Plan and Profile Sheet Composition tool** will then use these files when clipping each sheet and each clip sheet will have the correct files displayed with the correct levels on. For example, if the plan view in a final plan sheet needs to show overall design, mapping, raster images, ROW, etc., with specific levels on or off for each of these files, you would only need to setup this combination once in the motif file. This information would then be used to create each sheet. These sheets should be named **Plan\_motif.dgn** and **Profile\_motif.dgn**. To create **Plan\_motif.dgn**, make a copy of the 2D seed file and attach each reference file that should be shown in the plan view, and turn on or off any levels to make the display look exactly like the final plan sheets in plan view. Repeat these steps for the **Profile\_motif.dgn**, referencing the profile sheet into the 2D seed file.

The seed files for CFLHD projects are located on the CFLHD network at:  
**N:\V8i\_resource\FLH\_Common\MicroStation\Seed\English\ (or Metric)**



## Workflow 1: Creating Plan/Profile sheets using GEOPAK

To access this workflow, follow this link:

[http://flh.fhwa.dot.gov/resources/cadd/cfl/documents/Workflow\\_9.1\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/documents/Workflow_9.1_v8i.pdf)

CFL Sheet Composition Dialog Settings:

Click on a Sheet Style link (below) for recommended

### **METRIC Sheet Styles:**

[1000 Scale PLAN & PROFILE](#)

[1000 Scale DOUBLE PLAN](#)

[2000 Scale PLAN & PROFILE](#)

[2000 Scale DOUBLE PLAN](#)

[2000 Scale SINGLE PLAN](#)

[2000 Scale SINGLE PROFILE](#)

[500 Scale PLAN & PROFILE](#)

### **ENGLISH Sheet Styles:**

[100 Scale PLAN & PROFILE](#)

[100 Scale DOUBLE PLAN](#)

[100 Scale SINGLE PLAN](#)

[200 Scale PLAN & PROFILE](#)

[200 Scale DOUBLE PLAN](#)

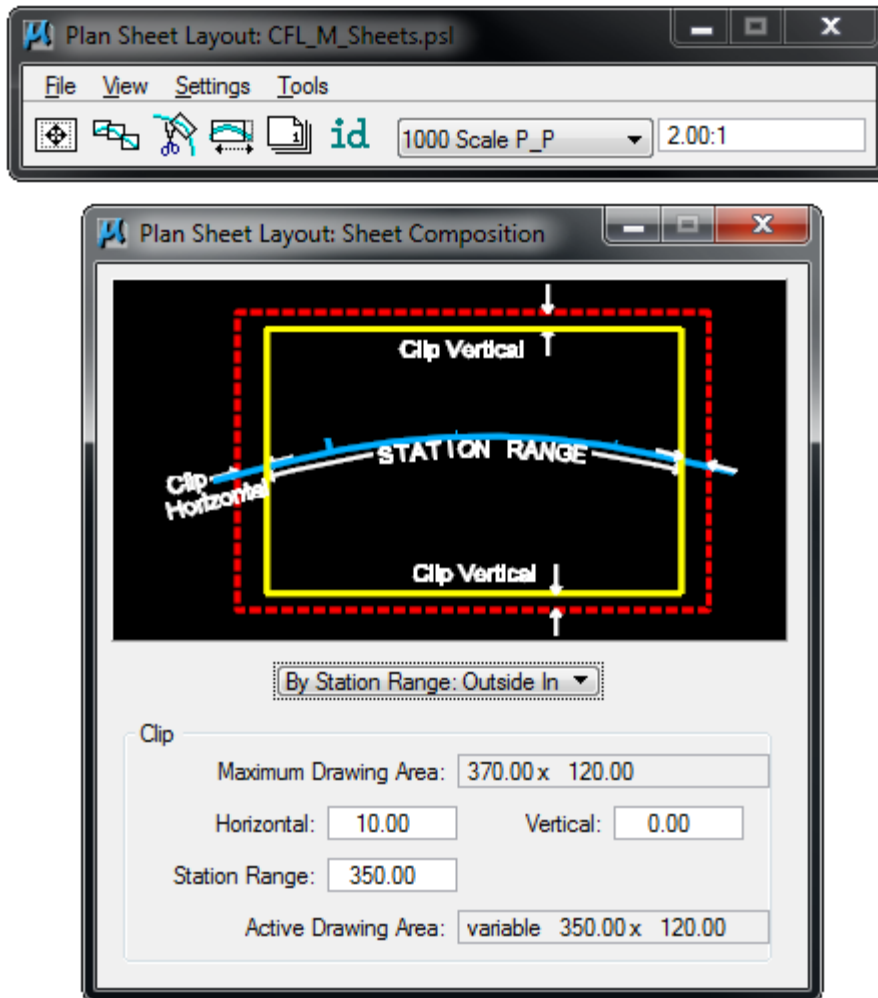
[200 Scale SINGLE PLAN](#)

[200 Scale SINGLE PROFILE](#)

[50 Scale PLAN & PROFILE](#)

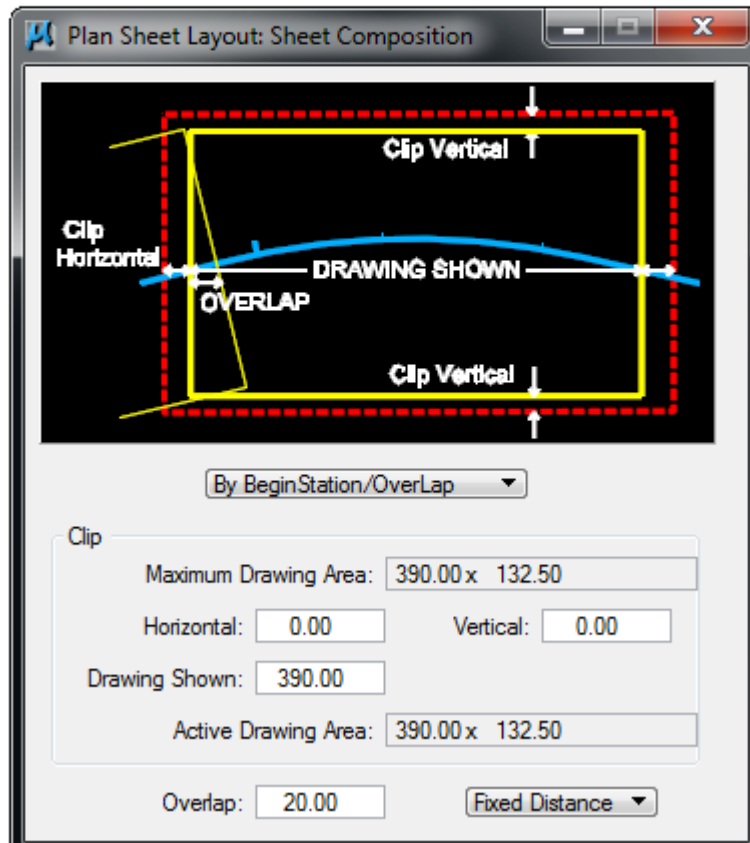
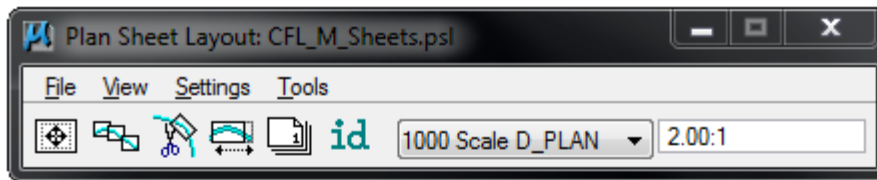
## METRIC SHEET STYLE

### 1000 Scale Plan/Profile



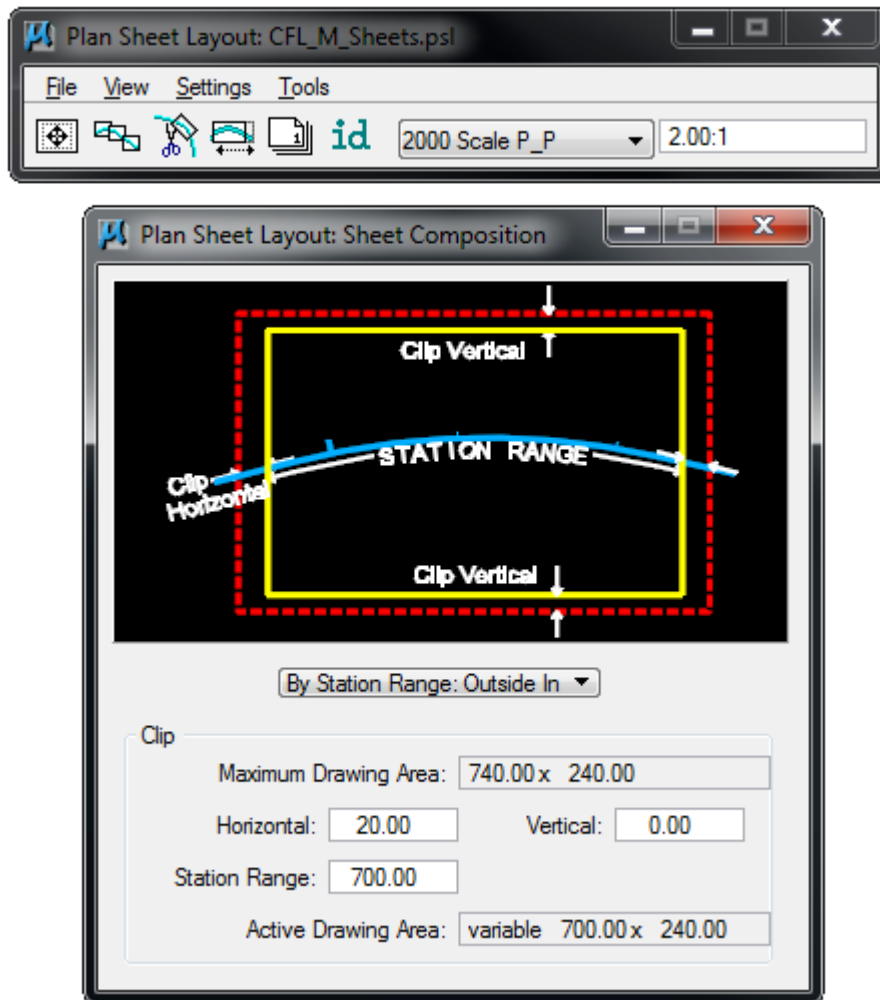
## METRIC SHEET STYLE

### 1000 Scale Double Plan



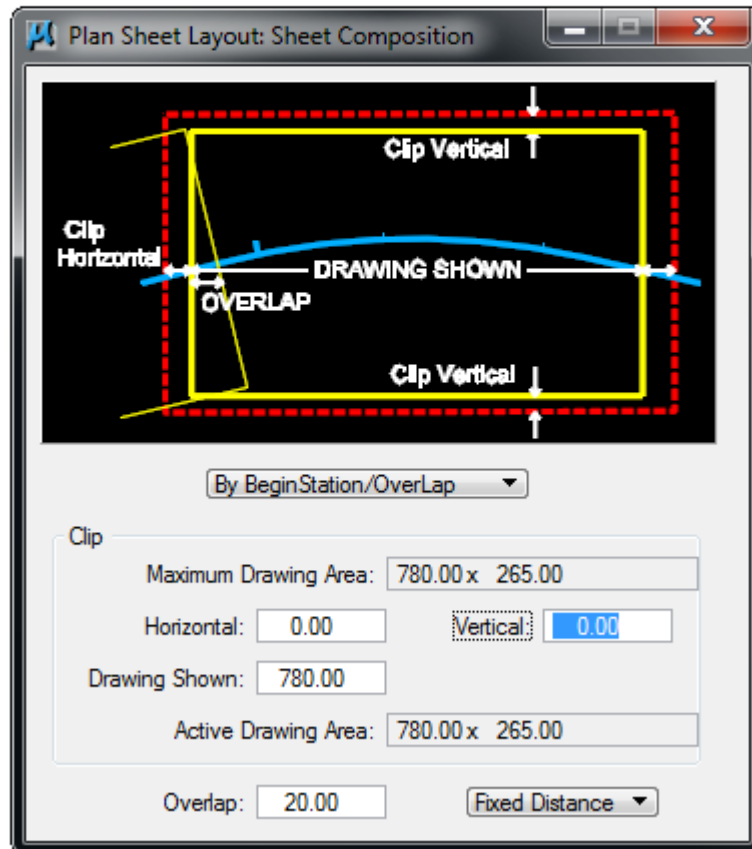
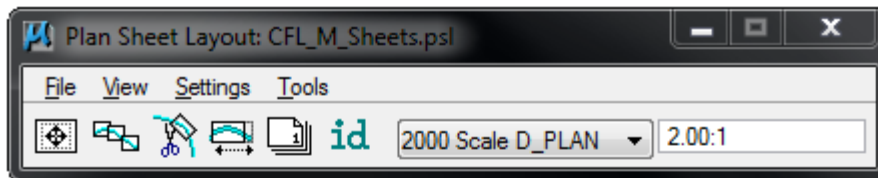
## METRIC SHEET STYLE

### 2000 Scale Plan/Profile



## METRIC SHEET STYLE

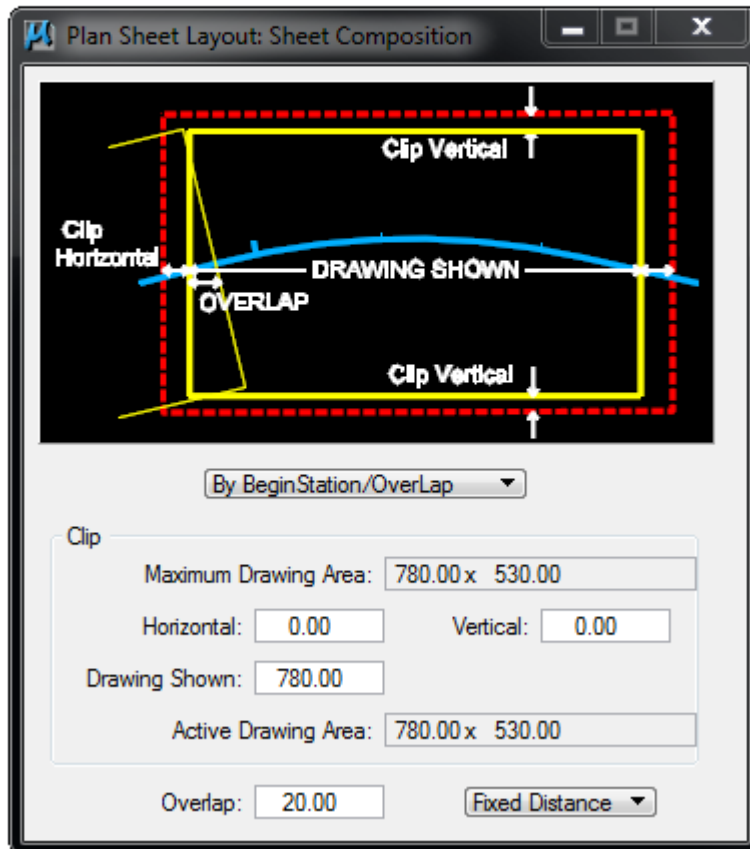
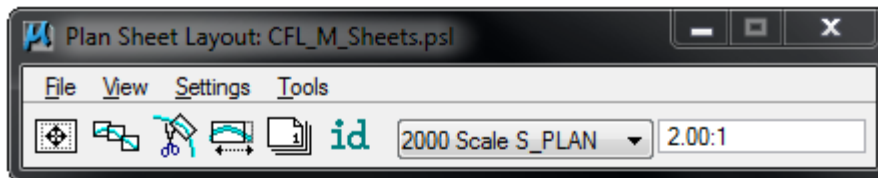
### 2000 Scale Double Plan





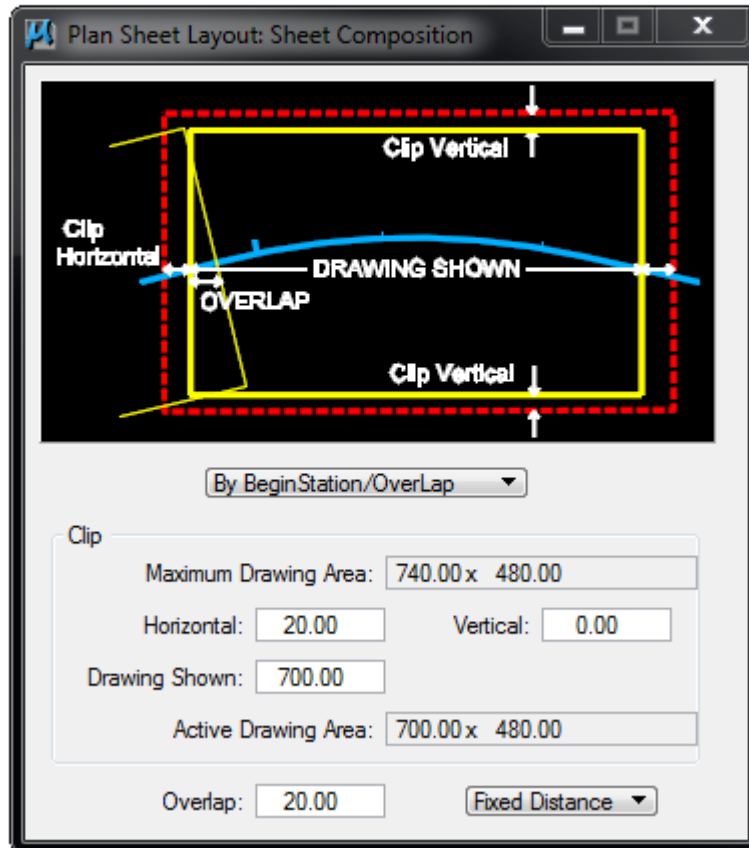
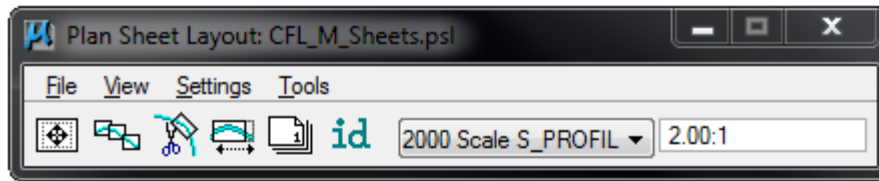
## METRIC SHEET STYLE

### 2000 Scale Single Plan



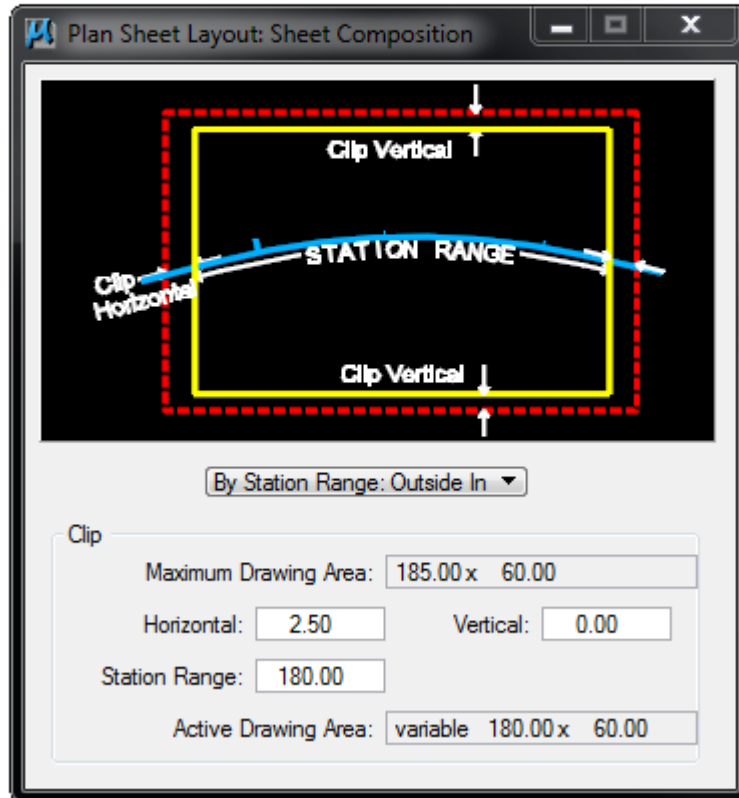
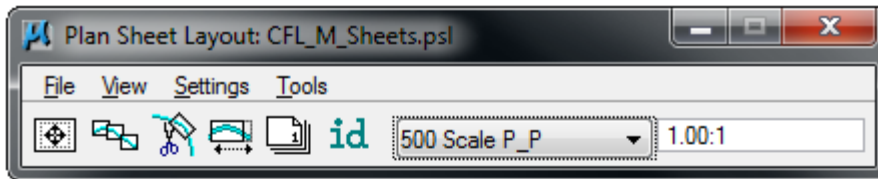
## METRIC SHEET STYLE

### 2000 Scale Single Profile



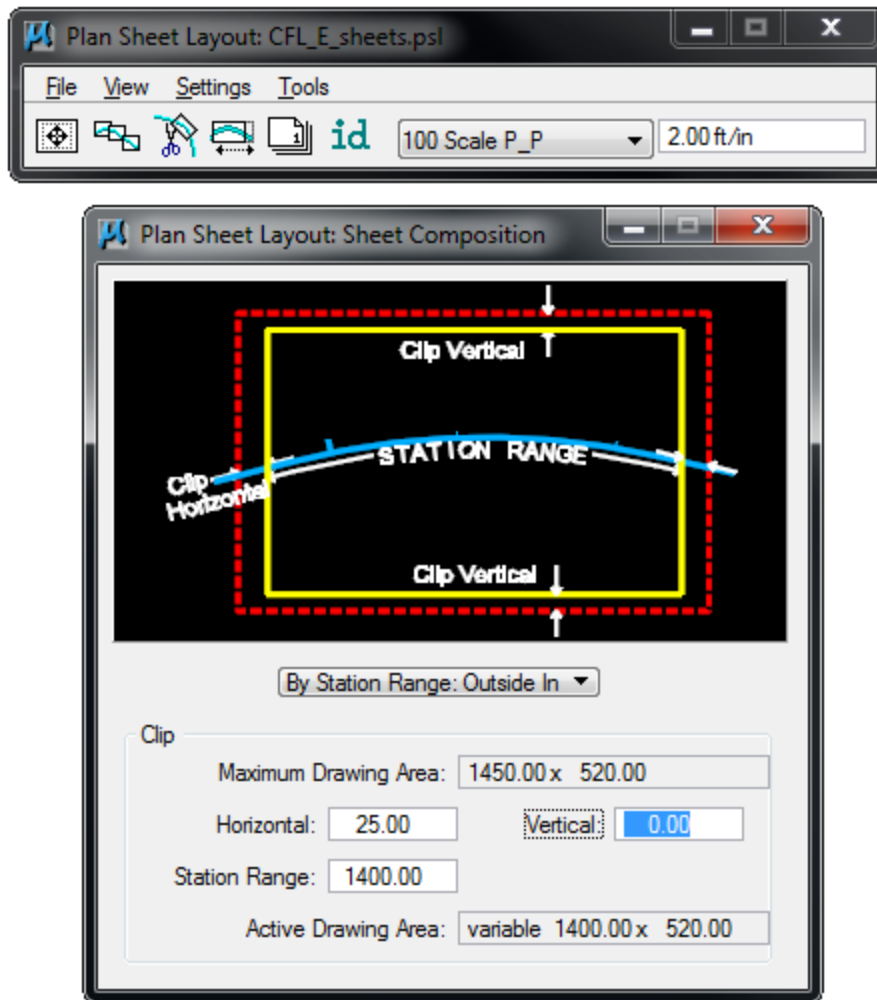
## METRIC SHEET STYLE

### 500 Scale Plan/Profile



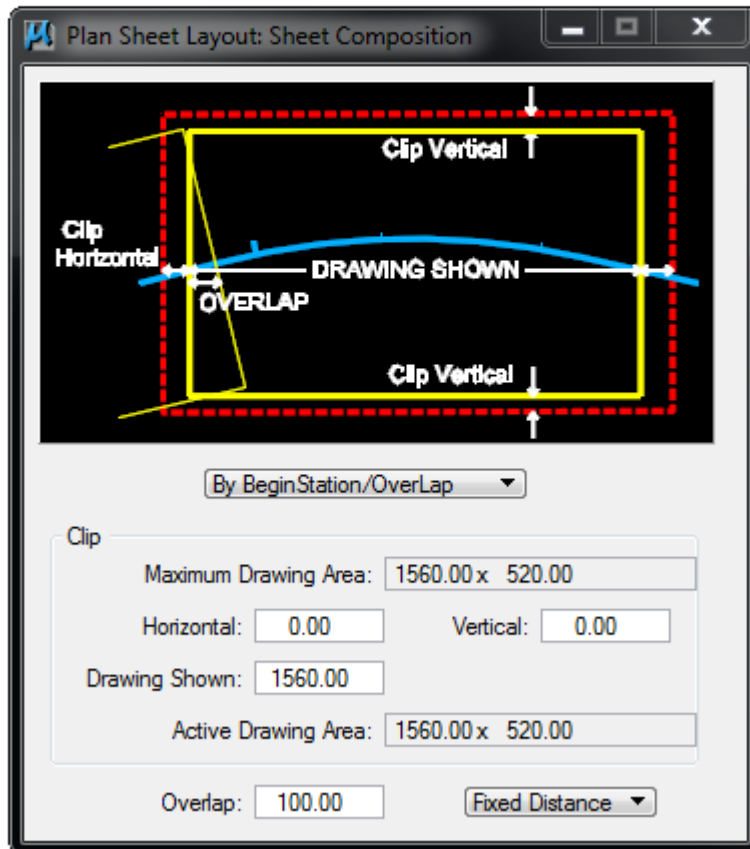
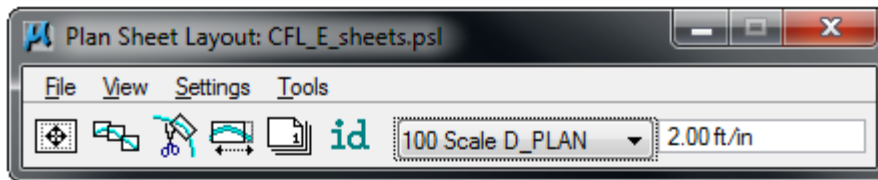
## ENGLISH SHEET STYLE

### 100 Scale Plan/Profile



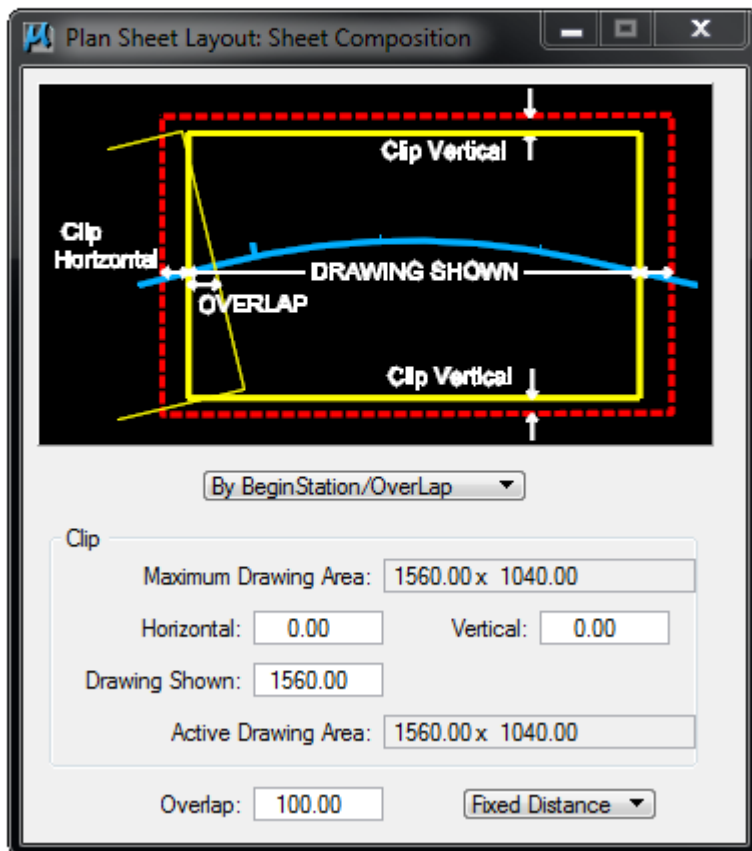
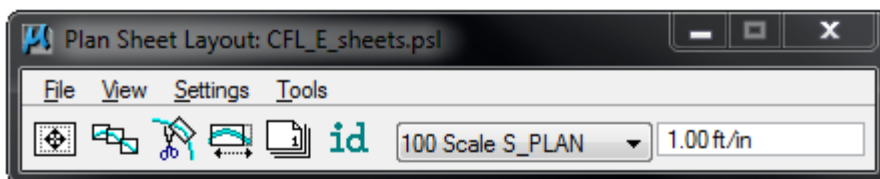
## ENGLISH SHEET STYLE

### 100 Scale Double Plan



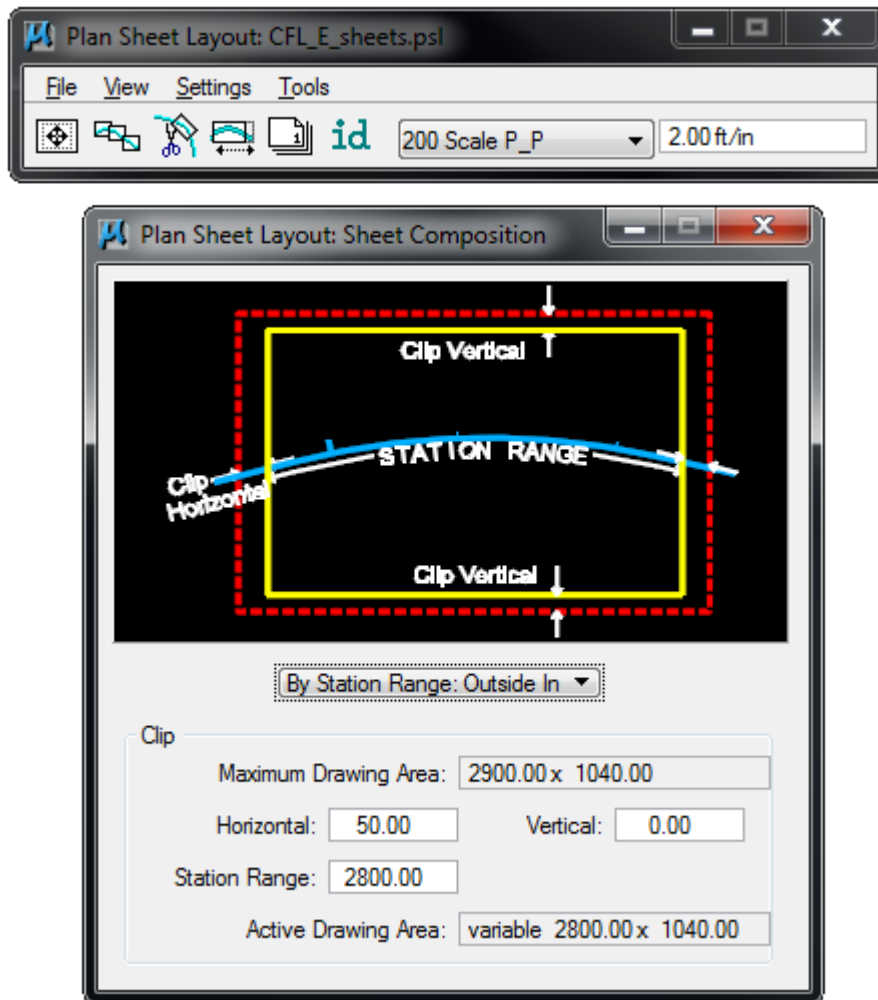
## ENGLISH SHEET STYLE

### 100 Scale Single Plan



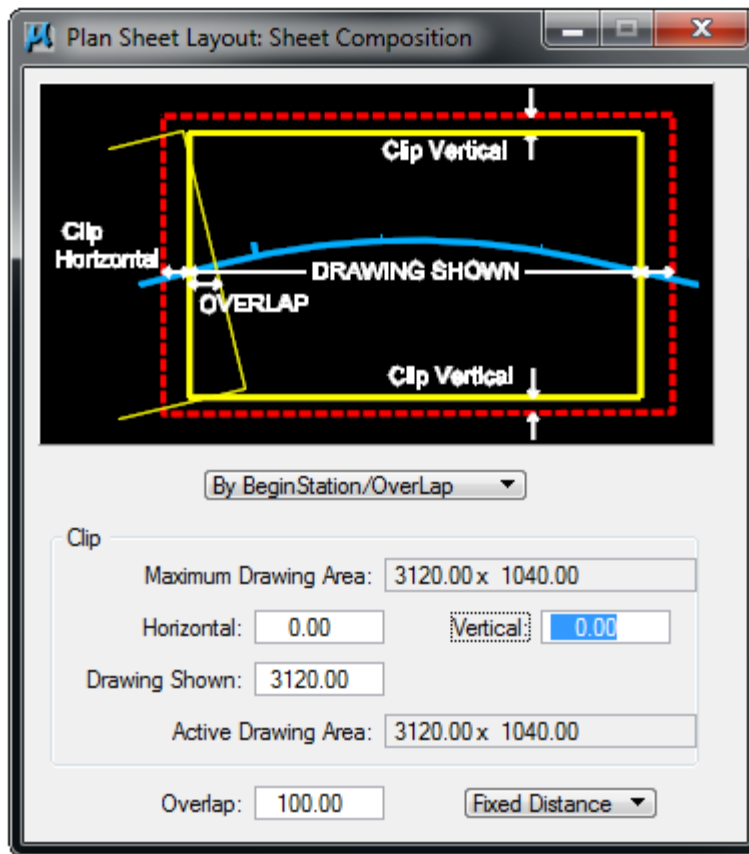
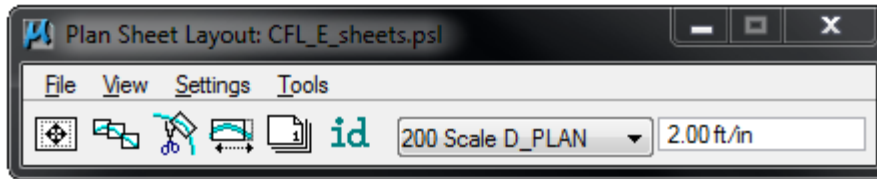
## ENGLISH SHEET STYLE

### 200 Scale Plan/Profile



## ENGLISH SHEET STYLE

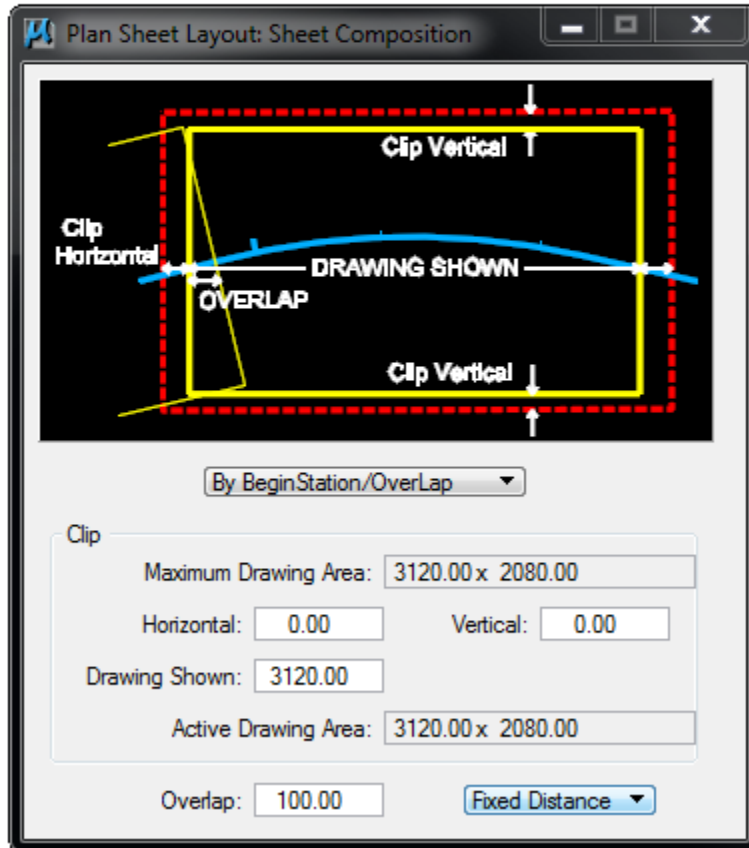
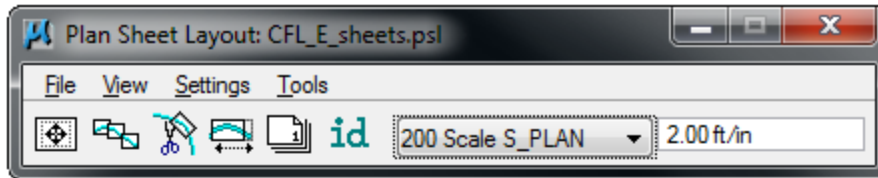
### 200 Scale Double Plan





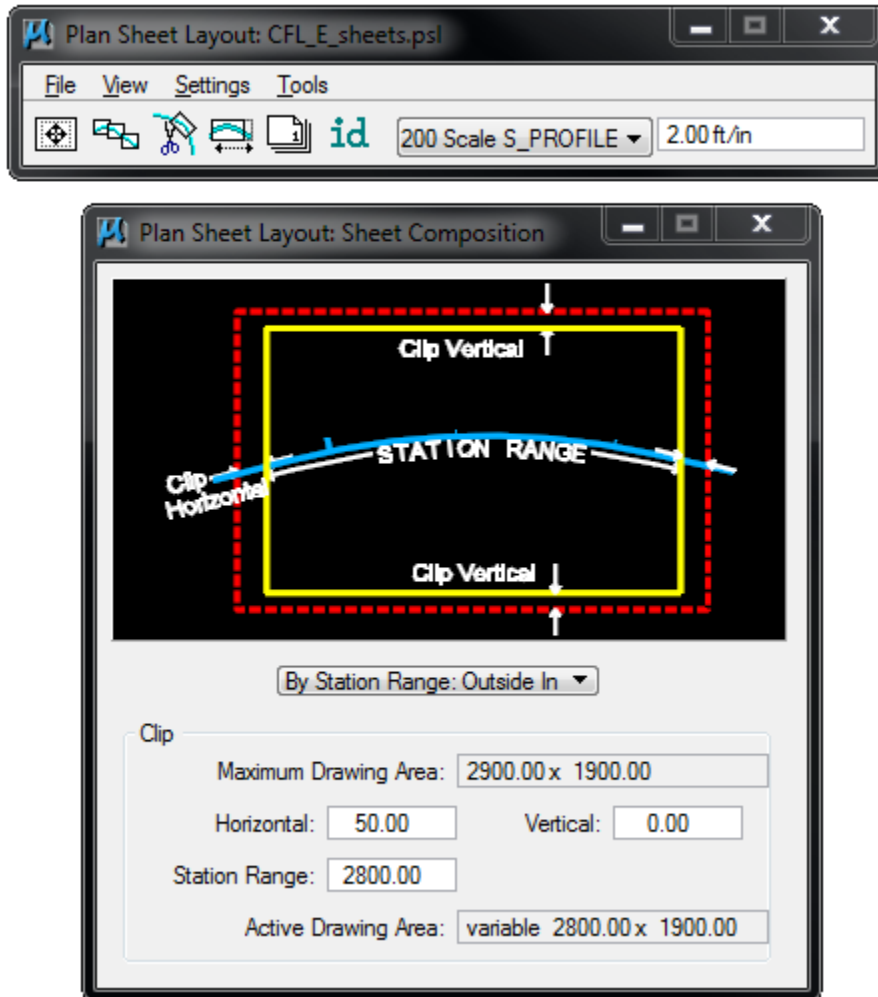
## ENGLISH SHEET STYLE

### 200 Scale Single Plan



## ENGLISH SHEET STYLE

### 200 Scale Single Profile



## ENGLISH SHEET STYLE

### 50 Scale Plan/Profile

