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# W, X, and Y Sheets

Design Manual

Chapter 1

General Information

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The W sheets provide mainline cross section information. The X sheets provide side road cross section information. The Y sheets provide ramp cross section information.

## Contents of the W, X, and Y Sheets

W, X, and Y sheets contain elevations and offsets for points of interest to the contractor. Other information such as pipe and structure installations and removals, dike installations, and soils information should only be used to supplement information contained in other sheets of the plan set.

Cross sections depicting rural entrances should be generated using Geopak and displayed above the cross section of the road to which it is adjacent. For short entrances, it is only necessary to sheet the cross section showing the back of ditch (i.e. the location of the entrance pipe). For long entrances, sheeting additional cross sections may be necessary.

Refer to Section [1F-23a](#) for cross section spacing and sheet dimension guidance.

## Sample Sheets

Click here to view a [Sample Cross Section Sheet](#).

## Plan Quality Checklist

- Is the correct roadway description shown in the top right corner?
- Is the profile grade on the cross sections the same as the profile grade on the plan and profile?
- Are subgrade break points and profile grades labeled with offsets and elevations?
- Is spacing appropriate according to Section [1F-23a](#)?
  - Are cross sections included for all key points?
- Are guardrail blisters shown on the cross sections?
- Are cross road pipes shown and flow lines labeled?
  - If a cross section is skewed, is it labeled "Skew XX° RT/LT Ahead"?
- Are entrances and pipes (if any) shown?
- Are the permanent right-of-way limits present?
- Are all soil features and descriptions present?
- Are all soil stability design items present and correct?

# Chronology of Changes to Design Manual Section:

## 001f-023 W, X, and Y Sheets

4/17/2012	Revised Updated sample to include right-of-way limits. Added to check cross section spacing and inclusion of key points per Section 1F-23a. Added to check if subgrade break points and profile grade are labeled. Removed to check for labeling of special ditching and ditch grades.
6/30/2011	Revised Updated example and text to reflect entrance cross section sheeting procedure.
4/29/2011	Revised Updated sample to include soil layer lines, culverts, and an entrance Updated checklist.
2/4/2011	NEW New material.