

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PROJECT DRAINAGE SHEETS, SHEET 1 OF 2 RELEASED 5 / 4 / 2012

NOTE: ← TEXT: FT=3, TX=8.75, WT=2, LV=23, UPPER CASE, UNDERLINED
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

USE "NOTE" IF ONLY ONE NOTE USED. USE "NOTES" IF TWO OR MORE NOTES USED.

UNDERLINE HEADINGS SUCH AS "ABBREVIATIONS" AND "LEGEND"

See "Generic Project Border Sheet" for basic border sheet information not shown on this sheet.

Where right of way is shown on a drainage plan sheet, include this note. Typically, the right of way note is placed in the upper left corner of the sheet. See subsection titled "Right of Way" in Section 2-1.1 of this manual for instructions regarding indeterminate right of way.

Use a solid line to depict right of way shown on a plan view sheet.

The cell for this note in the Caltrans Cell Library (CTCELLIB.cel) is: AC=NOTE2

TEXT: FT=3, TX=7, WT=1, LV=23, Upper Case

DRAINAGE PLANS:

- Drainage plans provide a visual representation in plan view aspect of the drainage facilities.
 - Those elements that are in the Master Topo and Design files and pertinent to all drainage plan view sheets are typically used as background information.
 - Drainage plans are not to repeat the roadwork bid items shown on the project plan layouts.
 - Existing drainage is shown dropped out with background topography. However, if the existing drainage is being abandoned, removed, or modified, or if new drainage work is tying into the existing, non-dropout may be used.
 - If no drainage work is to be performed within the corresponding limits of a project plan layout sheet (road work items), do not include a drainage plan sheet for that area. The number of drainage plan sheets may not be the same as the number of project plan layout sheets. Inclusion of drainage plan sheets with no drainage work in the contract plans is not an acceptable method of developing a district's inventory of drainage facilities.
 - For identification purposes, drainage work is to be separated into groupings of interconnected drainage items. Each grouping becomes a drainage system.
 - Assign a drainage system number to each drainage system where work is to be performed. Consecutively number the drainage systems throughout the project. This provides ease of locating and identifying drainage systems for the bidder, contractor and construction inspector. System numbering does not start and stop for each individual drainage plan sheet. See Section 2-2.10 of the PPM for additional information concerning system numbering.
 - Identify each drainage system by a number and each unit of the system by a letter representing the drainage unit designation. There are cells in the Caltrans cell library (CTCELLIB.cel) of the symbols used for identifying systems and units.
- There are two sets of cells for identifying systems and units, one set is without masking and the other set is with masking. Either set can be used, it depends on how cluttered the plan view sheet is with topo or background information. Labeling drainage features is more important than showing background topography. Keep labeling of the drainage system number and units designations as close as possible to the display of the system. Use minimum clips as defined in Section 3.8 of the CADD Users Manual to allow for open areas for labeling.
- Cells with masking:
DSN - system number
DCIR - unit designation
- Cells without masking:
DRNSYS - system number
DRNUNT - unit designation
- Labeling of the types of drainage units on the drainage plans may be generic or can be a complete item call out, but the units must be labeled. If generic labeling is used, use terms such as: Culv, DD, DI, FES, Jct Str, OD, RSP, etc. Use a leader line with the labeling of each unit designation.
 - Full details and complete item call outs of each drainage system (type, size, length, etc.) must be shown on the drainage profiles, details and quantities.
 - If contours are added to the drainage sheets, they are not more important than the drainage items. Final contours are to stop at the edge of the paved surface, which then allows the drainage items to be seen more clearly. Final contour grading is not to be shown on paved surfaces. Eliminate unnecessary spot elevations. Contours or spot elevations should only be shown slightly beyond the right of way line unless it directly affects the drainage items shown on the plan view sheets.
 - See "Generic Project Plan View Sheet" for additional information required on plan view sheets.

AC=NOTE4 through AC=NOTE31 and AC=NOTE35 through AC=NOTE37 in the Caltrans Cell Library (CTCELLIB.cel) are available for use to specify the different types of work in the statement "APPROVED FOR....."

One of the following statements is available for use depending on what is shown on the sheet:

NOTE23 - APPROVED FOR DRAINAGE AND UTILITY WORK ONLY
SHEET NAME: DRAINAGE AND UTILITY PLAN
SHEET ID CODE: D-XX

NOTE24 - APPROVED FOR DRAINAGE AND CONTOUR GRADING WORK ONLY
SHEET NAME: DRAINAGE AND CONTOUR GRADING PLAN
SHEET ID CODE: D-XX

NOTE26 - APPROVED FOR DRAINAGE WORK AND UTILITY INFORMATION ONLY
SHEET NAME: DRAINAGE AND UTILITY PLAN
SHEET ID CODE: D-XX

Use this statement (AC=NOTE4) on the drainage plan view sheets when no work other than drainage is shown on the sheet. Place statement as shown, center bottom of the sheet.
TEXT: FT=3, TX=8.75, Slant=20°, WT=2, LV=10, Upper Case

PROJECT DRAINAGE SHEETS, BASIC REQUIRED INFORMATION (SHEET 1 OF 2)

APPROVED FOR DRAINAGE WORK ONLY

Place Sheet Name and Scale centered in the lower right corner of sheet within the area available between the sheet border and the clip frame. Use "CENTER CENTER" justification for each line.

Use appropriate plotting scale for the plan view sheets, see "SCALES" in Section 2-1.3 of the PPM.

Use a colon after the word "SCALE" and insert a space on either side of the "="

FT=3, TX=8.75, WT=2, LV=10, Upper Case

Place Sheet ID Code and Sheet Number in the extreme lower right corner of sheet

Use appropriate SHEET NAME AND ID CODE for the work shown. See CADD Users Manual Section 2.1
FT=43, TX=14.5, WT=0, LV=10, Upper Case
Text may be reduced to a minimum of TX=12 where space constraints are involved.
For all text sizes see CADD Users Manual Section 2.6

DRAINAGE PLAN

SCALE: 1" = 50'

D-XX

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISION	DATE	BY	DESCRIPTION

FUNCTIONAL SUPERVISOR	CHECKED BY

CALCULATED-DESIGNED BY	

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