

NOTE: ← TEXT: FT=3, TX=8.75, WT=2, LV=rd_RIGHT-OF-WAY-anno(23), UPPER CASE, UNDERLINED

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Where right of way is shown on a utility plan sheet, include this note (AC=NOTE2). 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.

TEXT: FT=3, TX=7, WT=1, LV=rd_RIGHT-OF-WAY-anno(23), UPPER CASE.

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

GENERAL:

Both the named level and numbered level information are shown on this sheet. There is no direct one to one conversion for all cases between named levels and numbered levels. Numbered Level information is shown in parenthesis after the named level. e.g. LV = border_PROJ-ID-BLOCK-anno (10)

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.



CALTRANS UTILITY POLICY:

For the Department's policy concerning public or private owned utilities and state owned utilities/facilities, see Chapter 17 of the Project Development Procedures Manual (PDPM) and the Encroachment Permit Manual. Compliance with the Utility Policy is mandatory for all projects.

A Utility Policy Certification must be completed for each project, regardless if high priority subsurface installations (formerly called High Risk utilities) are within the project limits or not.

The Utility Policy Certification and the utility plans must be sealed and signed by a licensed Civil Engineer.

High priority subsurface installations, not mentioned in PDPM Chapter 17 Section 3 Article 7 Exemptions to Utility Policy, must be positively located and the information included on the utility plans. Positive location of these facilities must be shown in a data table labeled ("POSITIVE LOCATION INFORMATION") on the utility plan sheets.

When conducting positive location of a facility, do not exceed 100 feet spacing between location determinations. See PDPM Chapter 17, Section 3, Article 3 for further information.

UTILITY NOTES:

Utility notes are to be used only when an exception to the Department's utility policy has been approved or the project meets the requirements for "exempt work" or "flexible work" or when positive location information for existing utilities is only shown for excavation work area or when no utilities are found within project limits. If there are project utility plans, the note is to be placed on the appropriate utility plan sheet. If there are no utility plans, then place the note on the appropriate plan view sheet. If there are no plan view sheets, then place the note on the appropriate typical cross section sheet. If there are no typical cross section sheets, place the note on the appropriate construction detail sheet.

FLEXIBLE WORK

Examples of contract work that is flexible in nature may include the following: . An individual post for guardrail or thrie beam barrier (excluding end treatments, transition railings and anchor blocks). . Foundations for lighting and poles for traffic operation features outside of the intersection (not including overhead sign structures).

EXEMPT WORK

Examples of contract work that is exempt in nature may include the following: . Work with no excavation or limited excavation, as defined in Section 1, Definitions in Chapter 17 of the Project Development Procedures Manual. . Roadside signs and construction area signs. . Highway planting where the exact location for planting, irrigation lines, controllers or other appurtenances are not shown (does not apply to hardscape, including planter boxes, retaining walls and other infrastructure) . Fences

When subsurface utilities are not shown on a project plan sheet with "exemption to utility policy" work only, include the following note on the plan sheet:

- WORK ON THIS SHEET REQUIRES LIMITED OR NO EXCAVATION. UTILITIES ARE NOT SHOWN.

When approximate location of existing subsurface utilities is shown on a project plan sheet with exempt work only, include the following note on the plan sheet:

- WORK ON THIS SHEET REQUIRES LIMITED OR NO EXCAVATION. APPROXIMATE LOCATION OF UNDERGROUND UTILITIES IS SHOWN.

When positive location information for existing high priority utilities is not shown on project plan sheet with flexible work only, include the following note on the plan sheet:

- WORK ON THIS SHEET CAN BE ADJUSTED TO AVOID CONFLICT WITH EXISTING UTILITIES. EXACT LOCATION OF HIGH PRIORITY UTILITIES IS NOT SHOWN.

When positive location information for existing high priority utilities is shown only for the excavation work area, include the following note on the plan sheet:

- EXACT LOCATION OF HIGH PRIORITY UTILITIES IS SHOWN WITHIN EXCAVATION WORK AREAS ONLY.

When no utilities are found within the limits of a plan sheet, include the following note on the sheet:

- A UTILITY INVESTIGATION WAS COMPLETED AND NO UTILITIES WERE FOUND WITHIN THE SHEET LIMITS.

UTILITY PLANS:

• Separate utility plan sheets are to be included in the project plan set. On small projects, utilities may be shown on the roadway layout sheets.

• Utility plans provide a visual representation in plan view of the existing or relocated and new/planned facilities within the project limits.

• All existing utility data known, or discovered during an utility investigation for plan development, should be shown on the utility plans. This includes all public, private and state-owned "main and trunk line" utilities (see California Government Code, Section 4215).

• Work with limited or no excavation may be exempt from having to show utilities on the project plans. But if there are locations within the project limits that do not meet the Exemptions to utility policy, then the work is not considered exempt. See the Project Development Procedures Manual Chapter 17 Section 3 Article 7.

For a project granted an exception for "contract work that is flexible in nature," it is recommended to show all utilities to assist the contractor and R.E. in knowing who the utility owners are within the project limits.

• Where a drainage installation will be in conflict with a subsurface utility, the location of the utility in relation to the drainage facility is to be shown on the drainage profile and/or detail sheet that shows the specific drainage facility.

• Irrigation conduits (formerly known as irrigation crossovers) may be shown on the utility plans as they are a State-owned subsurface facility that may conflict with project work.

• Conduits for State-owned electrical systems should be shown on the utility plans as they may conflict with project work.

The point of demarcation between public and privately owned facilities is typically at the service drop or service point at the highway right of way.

• During the normal course of construction activities, the contractor must protect all existing utilities, as stated in Section 5-1.36 of the Standard Specifications or as shown in utility construction details. For construction activities, the phrase "Protect in Place" is not to be placed on the utility plan sheets. If there is a bid item for the contractor to permanently protect a utility, the work will have a bid item other than "Protect in Place."

• If a utility is to be relocated by the owner of the utility during project construction, use the wording "TO BE RELOCATED BY OTHERS." Use of the word "others" means that the project contractor will not be doing the utility relocation work.

If the owner (others) is relocating the facility prior to the start of project construction, then just show the final location of the relocated utility. The final location of the relocated utility is to be agreed upon by the utility owner and Caltrans.

If there is a possibility that the utility will not be relocated before construction starts, then show both the existing location, labeled "TO BE RELOCATED BY OWNER/OTHERS" and the new/planned location, labeled "PLANNED LOCATION OF RELOCATED FACILITY BY OWNER/OTHERS." Use "to and from" leader lines and arrows to graphically show where the existing utility is and where it is to be relocated (see Standard Plan A10C).

UTILITY PROFILES, DETAILS AND QUANTITIES:

• Utility profiles, details and quantities may be required as part of the project plans, if there is utility work to be performed by the project contractor. This would be utility work not performed by the utility owner or others.

See Section 2-2.13 of the PPM for additional information.

CALTRANS LINE STYLES FOR UTILITY SHEETS:

• There is a distinct line style to depict each utility type (electric, water, gas, etc.) and status (new, existing and abandoned). These line styles are in the Caltrans line style resource file "ctstyle-SS4.rsc" for subsurface and aerial (overhead) facilities.

• The new and existing utility line styles are graphically different (upper and lower case letters and the thickness of line). See Section 2.4 of the CADD Users Manual. This makes it easy to distinguish the new from the existing utilities when on the same plan sheet.

• The leveling convention for utilities in DGN files, is defined in Section 2.4, Appendix A9 and Appendix A10 of the CADD Users Manual. In files created using V8 Standards and V8 Named Levels, each utility status (new, existing and abandoned) will be placed on its own separate level. These levels are non-dropout levels.

All utilities shown on the utility plan sheets are NOT to be dropped out. If the need arises to show utilities a second (2nd) time within the project limits (e.g. landscape, drainage or electrical systems plans) as a convenience and reminder to the contractor/sub-contractor of a potential conflict, the weight of the utility line for the 2nd depiction may be reduced in order to de-emphasize the utility line in comparison to project work.

• There is a generic line style for representing an irrigation conduit within the limits of the roadbed on the utility plan sheets.

• There is a generic line style for representing electrical systems conduit within the limits of the roadbed on the utility plan sheets.

• Permanent utility feature points (e.g. manholes, pullbox, cabinet, power pole, etc.) that are within Caltrans right of way, are to be placed on the correct level for the type of utility it represents (e.g. gas manhole cover on same level as gas line style).

Use appropriate SHEET NAME AND ID CODE. See CADD user's manual section 2.1.1:

FT=43, TX=14.5, WT=0, LV=border_INSIDE-BORDER-anno(10), UPPER CASE

Text may be reduced to a minimum of TX=12 where space constraints are involved.

For text sizes see CADD user's manual section 2.6.1.

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".

FT=3, TX=8.75, WT=2, LV=border_INSIDE-BORDER-anno(10), UPPER CASE

UTILITY PLAN

SCALE: 1" = 50'

U-XX

PROJECT UTILITY SHEETS, BASIC REQUIRED INFORMATION

Use this statement (AC=NOTE25) on each individual utility plan view sheet. Place statement as shown, center bottom of the sheet. TEXT: FT=3, TX=8.75, WT=2, LV=border_INSIDE-BORDER-anno(10), 20° slant, UPPER CASE

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - Caltrans PLANS PREPARATION MANUAL

Table with columns: REVISIONS, REVISION NO., DESCRIPTION, REVISION DATE, REVISION BY, DATE REVISION MADE, CALCULATED/DESIGNED BY, CHECKED BY, FUNCTIONAL SUPERVISOR