

## Chapter 27

### Utility Work by Highway Contractor Agreement Plans

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#### 27.1 General

Most utility adjustment work is performed by the utility owners or their contractor. In some cases it is advantageous to the FDOT and Utility to include the utility work as part of the roadway contract. In such cases the FDOT will enter into an agreement with a Utility for this purpose. These agreements are called Utility Work by Highway Contractor (UWHC) Agreements. The highway contractor is required to construct or relocate the specified utilities in accordance with the plans and special provisions developed by the Utility and incorporated as part of the bid package. More than one utility plans set may be included. For example, the contract plans may include separate plans for a gas utility and a water utility. It is also possible for the utilities to combine their individual facilities into one plans set and supply them to the FDOT. It is essential that the Engineer of Record (EOR) be aware which method is to be used. This is necessary because reimbursable costs and quantities must be separated and identified in each utility project.

Occasionally utility work may extend outside the normal construction limits of the project. When this is the case the limits of the utility work shall be shown or noted on the plans.

For UWHC Agreements, the utility plans shall be prepared in the same basic format as FDOT plans and as a separate plans set. The plans shall be assembled as follows:

1. Key Sheet
2. Tabulation of Quantities
3. Plan-Profile Sheets
4. Cross Sections (as required)
5. Detail Sheets (as required)

The plans shall also reflect any special technical or relocation agreement provisions. In some cases it may not be practical or reasonable to develop separate plans sets for incidental construction under a UWHC Agreement. The EOR should consult with the District Utility Engineer to determine the requirements in these cases. For further financial guidance, contact the FDOT Office of Comptroller, General Accounting Office.

## 27.2 Key Sheet

The key sheet, which shall be the first sheet in the set, shall be prepared on a standard key sheet format as described in **Chapter 3** of this volume. Contract plans set information, location map and length of project box are not required if shown on the lead key sheet (usually roadway). An index of plan sheets shall be shown on the left side of the utility plans key sheet. The date of the governing **Standard Specifications for Road and Bridge Construction** and the **Design Standards** shall be inserted in a note at the lower left corner of the key sheet. The applicable Design Standards Modifications and date, and Internet address shall be shown on the lower left corner of the lead Key Sheet, below the Governing Specifications and Standards note.

Refer to the [Work Program Instructions \(Section 42\)](#) for guidance on the Financial Project ID phase number identification. All other data shall be as described in **Chapter 3** of this volume.

## 27.3 Tabulation of Quantities

The tabulation of quantities sheet shall be prepared in standard FDOT format and should show any quantities tabulated for location, size, quantity, etc. Standard notes referring to item numbers shall also be shown on this sheet or on plan sheets.

Summary of pay item sheets will be prepared as noted in **Chapter 4** of this volume.

## 27.4 Plan Sheets

Utility plans shall show full construction details for all utilities to be relocated or constructed by the contractor as covered by the UWHC Agreement. A plan-profile sheet format should be utilized where appropriate. All underground utilities shall be shown in the plan portion, and those which equal or exceed 4" shall also be shown in the profile portion. All above ground Utilities shall be shown in the plan portion (inclusive of underground connections).

When the construction limits are restricted such as when a power line is above and near a sanitary or water facility, either the facility (overhead lines) must be identified and shown in profile, or the minimum available vertical clearances, along with the type facility, stated on the plans. Applicable project information shall be shown similar to that described in **Chapter 10** of this volume. Utilities to be relocated or constructed shall be shown in plan and profile and in accordance with the FDOT Engineering/CADD Systems Software. When practical, the scale used should be the same as that used for the roadway plan-profile sheets.

The disposition and final ownership of any utility infrastructure that is to be removed by the contractor and salvaged shall be identified in the plans. The address of the Utility/Agency Owner receiving the salvaged utility infrastructure shall be included in the pay item notes on the Summary of Quantity Sheet (see **Exhibit 7-1**).