Sample Plan
INPLACE UTILITY TABULATION AND PLAN ---------- NARRATIVE

General Information:
Do not use the word ABANDONED on Utility Sheets. Use inplace/out-of-service, leave in place/out-of-service.

Gopher State One-Call may not give locations on all properties, i.e. military bases and private utilities, and only includes underground facilities.

Conduct a field review and check historical permits and other sources to verify utilities. Any work indicated on Utility Tabulations to be done by Contractor is to be noted and appropriate pay items included.

Petroleum warning should go on the title sheet when pipelines are present. (e.g., "WARNING: PETROLEUM PRODUCTS PIPELINE PRESENT").

References:
- Design Scene: Chapter 5 - Utilities
- Road Design Manual: Chapter 11-7
- Spec. Books: 1507
- Technical Manual: 5-292.620
- Symbols Used in Highway Drawings
- MnDOT Utility Accommodation and Coordination Manual.pdf
- New Requirements from Amendment to MS2160
- WSE Types/Special Design Embankments Mapping
- Road Weather Information System located at http://ihub.metro/design/technicalguidance.html
- Utility Accommodation Policy and Guidance at //www.state.mn.us/utility/guidance.html
- Road Design Manual: Chapter 11-7
- General Information:
- All utilities can be either tabulated or ownerships labeled in plan view. The utility tabulations need only include utilities that need to be relocated or adjusted.
- Include a general note stating that all utility work shown will be done by others unless noted.
- Clearly identify all work to be done by the Contractor. Provide pay items on the Statement of Estimated Quantities for work to be done by the Contractor.
- The remarks column should show "adjust," "relocate," or "leave as is" based on the cross sections and the designer's best judgment. See Cross Section's Narrative of this Sample Plan for typical utility locations. Request additional surveys for critical utility locations. If any facilities are marked "adjust," you must define what adjust means (e.g., casing to be adjusted to match pavement). The "leave as is" column is not necessary if only tabulating conflicts.
- No utility work is to be done by Contractor unless noted.
- All utilities, above ground and buried, must be shown on Plan sheets using the standard symbols in the Technical Manual and the CADD Data Standards. Show utility facilities on profile and cross section views.
- Consider showing utilities on drainage plans.
- Lines under mainline and interchange roadways carrying liquids under pressure (crude oil, water, etc.) are required to have a casing. Casings may be required on other lines as well. See the Road Design Manual: Chapter 11-7 and the MnDOT Utility Accommodation & Coordination Manual for additional guidelines.
- In the case of a major utility requiring relocation or adjustment work (transmission tower, buried telephone, transmission line, etc.), more lead time is needed for coordination with the Utility Owners.
- In areas where large fills will be required, attention should be given to future accessibility and the impact of differential settlement on existing utilities.
- It is recommended that construction limits be shown on the Inplace Utility Plan, unless the plan sheets would become too cluttered.
- Provide all inplace utility information to other units designing portions of the Project (such as Bridge, Landscaping, Lighting, Signage, Signals, TMC) and determine where there are additional impacts from those units.
- Show and label all power lines on the plan view and in the tabulations. List the voltage of all lines 69 Kv or more.
- If there are no utility conflicts, add a note "no utilities are affected by this project" and place on the plan sheet where the utility company names are listed.

Sample Plan
INPLACE UTILITY TABULATION AND PLAN ---------- CHECKLIST

1. Check survey data for reasonableness.
2. Check tabulation against plan sheets (topo, construction, drainage, cross sections, etc.)
3. Show Utility Ownership on plan view and/or tabulations.
4. Show Remarks.
5. Include Applicable Notes.
7. List Utility Owners.
8. Show Inplace adjustments.
9. Show Transmission or Distribution Lines on the Plan Sheets and Tabulations.
10. Identify Impacts from other Units.
11. Group Tabs together by type & Ownership if possible & put in a logical order.
12. Condense Tabs when possible. Do not use 4 lines when 1 will do.
13. Check Power Poles for other Utilities & list any that are present.
14. Check ownership (e.g. if one company owns a gas line, it will own the attached meters and valves).
15. Check the Utility Accommodation and Coordination Manual.
16. Check Utility Facilities against drainage & other impacts to ensure Facilities that must be relocated are marked that way.
17. Cross references to other sheets (as applicable) (Lighting, Signals, TMC etc.)
18. Drawn by & Check by Initial box & Engineer's signature block.