REVISION DATE 040919

16-OCT-2019

Sample Plan

INPLACE UTILITY TABULATION AND PLAN --------- NARRATIVE

References:

Design Scene: Chapter 5 - Utilities

Road Design Manual: Chapter 11-7

Spec. Book: 1507

Technical Manual: 5-292.620
Symbols Used In Highway Drawings

Miscellaneous: Utilities Manual at http://www.dot.state.mn.us/utility/guidance/MnDOT Utility Accommodation and Coordination Manual.pdf

Re: New Requirements from Amendment to MS216D

http://lhub.metro/design/technicalguidance.html. MSE Type Walls/Special Design Embankments Mapping

http://www/state/mn.us/utility/contacts.html Road Weather Information System located at: pw:\OTS\DesignSupport\RWIS_Details\RWIS_Details.dgn

Utility Accomodation Policy and Guidance at: //www.state.mn.us/utility/guidance.html

General Information:

A utility may be owned by MnDOT, a utility company, a city, or others. Show ownership for all facilities.

Ownership abbreviations must be defined.

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 depths. Request additional surveys for critical utility locations. If any facilities are marked "adjust", you must define what adjust means (e.g. Casting to be adjusted to match pavement). The "leave as is" column is not necessary if only tabulating conflicts.

Provide a list of all utility owners with in the project limits. Make sure all names are up-to-date.

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 11-7.05 and the Utility Accommodation & Coordination Manual for additional guidelines.

In the case of a major utility requiring relocations 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 accessability and the affect 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, Signing, 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" amd place on the plan sheet where the utility company names are listed.

General Information cont.:

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, Ie. 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).

Sample Plan

INPLACE UTILITY TABULATION AND PLAN --------- CHECKLIST

___ 1. Check survey data for reasonableness

___ 2. Check tabulation against plan sheets (topog, construction, drainage, cross sections, etc.)

___ 3. Show Utility Ownership on plan view and/or tabulations

___ 4. Show Remarks

___ 5. Include Applicable Notes

___ 6. Bar Scale

___ 7. List Utility Owners

___ 8. Show Inplace encasements

___ 9. Show Transmission or Distribution Lines on the Plan Sheets and Tabulations List any Voltage >= 69 Kv

___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, TMS etc.)

___18. Drawn by & Checked by Initials box & Engineer's signature block

INPLACE UTILITY TABULATION AND PLAN NARRATIVE AND CHECKLIST

REVISION DATE 04/09/19
PLOTTED/REVISED: 16-OCT-2019

GENERAL NOTES:

- ALL UTILITY WORK SHOWN ON THESE SHEETS SHALL BE DONE BY OTHERS UNLESS NOTED.
- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- ALL POWER LINES ARE DISTRIBUTION UNLESS NOTED OTHERWISE.

UTILITY ABBREVIATIONS

SAN	= SANITARY SEWER
SAN MH	= SANITARY SEWER MANHOLE
WAT OR WATER	= WATER LINE
WAT VLV	= WATER VALVE
HYD	= FIRE HYDRANT
GAS	= BURIED GAS LINE
VALVE	= VALVE
T-BUR	= BURIED TELEPHONE LINE
TP OR TPOLE	= TELEPHONE POLE
TEL HH	= TELEPHONE HAND HOLE
TEL MH	= TELEPHONE MAN HOLE
OHP	= OVERHEAD POWER LINE
OHU	= OVERHEAD UTILITY LINE
P-BUR	= BURIED POWER LINE
P-BUR IN COND	= BURIED POWER IN CONDUIT
OHP	= OVERHEAD POWERLINE
OHU	= OVERHEAD LINE OTHER THAN POWER
HH	= HANDHOLE
MH	= MANHOLE
PED	= PEDESTAL
VAULT	= UTILITY VAULT
METER	= METER
SIG	= BURIED SIGNAL LINE
SIG POLE	= SIGNAL POLE
LP OR LPOLE	= LIGHT POLE
PP OR PPOLE	= POWER POLE
COM POLE	= COMMUNICATIONS POLE
USL	= UNDERGROUND STREET LIGHTING
T-BUR IN COND	= TELEPHONE LINE BURIED IN CONDUIT
F/O-BUR	= BURIED FIBER OPTIC
F/O-BUR IN COND	= BURIED FIBER OPTIC IN CONDUIT
PWB	= PED PUSH BUTTON
TOH	= OVERHEAD TELEPHONE LINE
TVOH	= OVERHEAD TELEVISION CABLE
TV-BUR	= BURIED TELEVISION
G MH	= GAS MANHOLE
ANC	= ANCHOR
GP	= GUY POLE
GUY	= GUY WIRE
TOWER	= TRANSMISSION TOWER
SS OR STORM	= STORM SEWER
CB	= CATCH BASIN

GAS

STATION TO STATION	OFFSET (FT)	DESCRIPTION	OWNER	ACTION: ADJUST	ACTION: RELOCATE	ACTION: LEAVE AS IS	REMARKS
SNELLING AVE. T.H. (TH51NB CONT.)							
206+41	70LT TO 23RT	GAS	XCEL			X	
206+41	101LT	GAS VLV	XCEL	X			(2)
206+90 TO 209+67	17RT TO 18RT	GAS	XCEL			X	
209+67	17RT	GAS VLV	XCEL			X	
209+67	17RT TO 24RT	GAS	XCEL			X	
209+67 TO 209+68	24RT TO 26RT	GAS	XCEL			X	
209+68 TO 210+03	26RT 27RT	GAS	XCEL			X	
210+03	27RT 110RT	GAS	XCEL			X	
210+39	52RT	GAS VLV	XCEL			X	
210+43 TO 213+31	53RT TO 57RT	GAS	XCEL			X	
210+43	45RT	GAS VENT	XCEL	X			(1)
210+45	46RT	GAS VENT	XCEL	X			(1)
213+28 TO 213+38	25RT TO 70RT	GAS	XCEL			X	
213+38 TO 213+47	25RT TO 31LT	GAS	XCEL	X			(1)
213+47 TO 213+58	31LT TO 102LT	GAS	XCEL			X	
213+58 TO 213+68	102LT TO 179LT	GAS	XCEL			X	
219+12 TO 220+28	0 TO 6RT	GAS	XCEL			X	
219+19 TO 219+27	15LT	GAS	XCEL			X	
219+19	70LT TO 15LT	GAS	XCEL			X	
219+27	15LT TO 1RT	GAS	XCEL			X	
SNELLING AVE. T.H. 51 (L51)							
915+00 TO 915+07	26RT	GAS	XCEL			X	
915+07 TO 915+08	26RT TO 46LT	GAS	XCEL			X	
915+07 TO 919+21	26RT TO 21RT	GAS	XCEL	X			(1)
915+08 TO 915+09	46LT TO 89LT	GAS	XCEL	X			(1)
915+11 TO 915+12	26RT TO 50RT	GAS	XCEL			X	
916+84 TO 916+85	50LT TO 24RT	GAS	XCEL			X	
917+44 TO 917+45	49LT TO 23RT	GAS	XCEL			X	
918+68	22RT TO 54RT	GAS	XCEL			X	
919+20 TO 919+21	53LT TO 21RT	GAS	XCEL			X	
921+71 TO 921+72	117RT TO 48RT	GAS	XCEL			X	
921+72 TO 921+76	48RT TO 43RT	GAS	XCEL			X	
921+76 TO 922+39	43RT TO 41RT	GAS	XCEL			X	
922+34	41RT TO 49RT	GAS	XCEL			X	
922+39 TO 923+19	41RT TO 44RT	GAS	XCEL			X	
922+39	41RT	GAS VLV	XCEL	X			(2)
923+19 TO 923+98	44RT TO 45RT	GAS	XCEL			X	
923+59	45RT TO 50RT	GAS	XCEL			X	
923+91	51RT TO 45RT	GAS	XCEL			X	
923+98 TO 924+71	45RT TO 44RT	GAS	XCEL			X	
924+59 TO 924+61	67LT TO 148LT	GAS	XCEL			X	
924+59 TO 924+63	67LT TO 44LT	GAS	XCEL			X	
924+60 TO 924+68	104LT	GAS	XCEL			X	

(1) PROTECT DURING CONSTRUCTION.

(2) ADJUST TO MEET NEW PAVEMENT ELEVATION.

UTILITY

THE FOLLOWING LIST SHOWS THE UTILITY COMPANIES INVOLVED ON THIS PROJECT

MNDOT	= MINNESOTA DEPARTMENT OF TRANSPORTATION
ST PAUL	= CITY OF ST PAUL
SPRWS	= ST PAUL REGIONAL WATER SERVICES
XCEL	= XCEL ENERGY
CENTURY LINK	= CENTURYLINK
AT&T	= AT&T CORPORATION
COMCAST	= COMCAST CABLE, LLC
ZAYO	= ZAYO GROUP, LLC
MCI	= MCI COMMUNICATIONS SERVICES, INCORPORATED
TIME WARNER	= LEVEL 3 COMMUNICATIONS, LLC

GAS

DISTRICT *: Metro
IPLOT NAME: Input1l
FILENAME: Projects\DM_ROS\Won_Project\Design\SamplePlan\English\Input1l.dgn

DRAWN BY: CT | CHECKED BY: HS | CERTIFIED BY Will D. Zine LICENSED PROFESSIONAL ENGINEER | LIC. NO. 00000 | DATE 2/01/14

INPLACE UTILITY TABULATIONS

STATE PROJ. NO. 0000-00 (T.H. 00) SHEET NO. 16 OF 84 SHEETS

REVISION DATE 04/09/19
PLOTTED/REVISED: 16-OCT-2019

DISTRICT #: Metro
IPLOT NAME: InputII
FILENAME: Projects\DM_ROS\Non_Project\Design\SamplePlan\English\InputII.dgn

HENNEPIN COUNTY
CITY OF MINNEAPOLIS

SAMPLE PLAN

18TH AVE N
N 4TH ST
MINNEAPOLIS
R/W
W BROADWAY AVE
N 21ST AVE
MNDOT
F/O -BUR
P-BUR
T-BUR
BR NO 27817
BR NO 27815
ARVIG
CENTERPOINT ENERGY
MINNEAPOLIS
CENTURYLINK
TH 94 EB
TH 94 WB
N WASHINGTON AVE
LEAFY SPURGE
25
30
35
5
275
280
285
290
405
190
195
200
205
6
10

LEGEND

NOXIOUS WEEDS

INP. SIGNAL SYSTEM

100
SCALE IN FEET

SHEET 13 OF 35

INPLACE UTILITY PLAN

DRAWN BY: CT | CHECKED BY: HS | CERTIFIED BY Will D. Zine LICENSED PROFESSIONAL ENGINEER | LIC. NO. 00000 DATE 11/17/16

STATE PROJ. NO. 0000-00 (T.H. 00) SHEET NO. 17 OF 84 SHEETS