

GENERAL NOTES

- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.
- CALL "911" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS FOR EXISTING UTILITIES LOCATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
- INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.
- STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.
- NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING TRAFFIC CONTROL, SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS, AS NECESSARY TO CONTROL THE MOVEMENT OF TRAFFIC.

STORM SEWER NOTES

- PROPOSED STORM SEWER PIPE SHALL BE:
 - 1.1 REINFORCED CONCRETE PIPE (RCP) WITH R-4 GASKETS; AND,
 - 1.2 HIGH-DENSITY POLYETHYLENE PIPE (HDPE). HDPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S WITH WATERTIGHT CONNECTIONS. USE SAND/GRAVELLARY MATERIAL FOR BACKFILLING AND COMPACTION OF HDPE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM 2321.
- FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.
- STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. LAYING LENGTH OF APRON TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE.

SANITARY SEWER NOTES

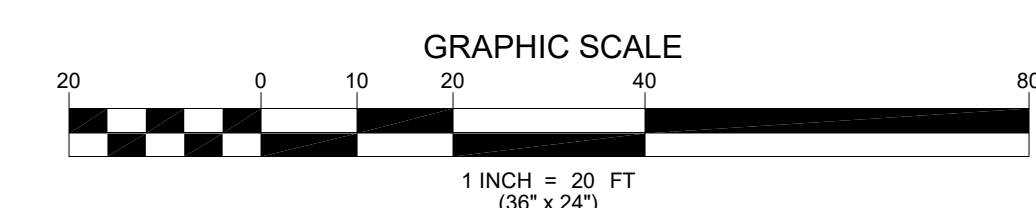
- PROPOSED SANITARY SEWER PIPE SHALL BE:
 - 1.1 8" PVC SDR 35 (ASTM D3034)
- FIELD VERIFY SIZE, ELEVATION AND LOCATION OF EXISTING SANITARY SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.
- CONTRACTOR TO CONTACT CITY ENGINEERING DEPARTMENT AT LEAST 48 HOURS PRIOR TO CONNECTION TO EXISTING PUBLIC SANITARY SEWER

WATERMAIN NOTES

- PROPOSED WATERMAIN PIPE SHALL BE:
 - 1.1 8" AND 8" DIP CL 52
- FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING WATERMAIN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.
- MAINTAIN A MINIMUM OF 7.5 FEET OF COVER OVER ALL WATERMAIN PIPE.
- PROVIDE PREFORMED INSULATION, PPG FOAMGLASS, OR APPROVED EQUAL WHERE SANITARY SEWER OR STORM SEWER CROSSES WITHIN 18" OF WATERMAIN.

LEGEND

	DENOTES LIGHT POLE
	DENOTES CATCH BASIN
	DENOTES STORM SEWER MANHOLE
	DENOTES HYDRANT
	DENOTES WATER SHUT OFF
	DENOTES WATER VALVE
	DENOTES SANITARY SEWER MANHOLE
	DENOTES EXISTING SANITARY SEWER
	DENOTES EXISTING STORM SEWER
	DENOTES EXISTING WATER MAIN
	DENOTES EXISTING BITUMINOUS SURFACE
	DENOTES EXISTING CONCRETE SURFACE
	PROPOSED WATER PIPE
	PROPOSED SANITARY SEWER PIPE
	PROPOSED STORM SEWER PIPE
	PROPOSED STORM MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED GATE VALVE
	PROPOSED HYDRANT
	PROPOSED SIDEWALK
	PROPOSED RETAINING WALL



SITE PLANNING & ENGINEERING
PLOWE ENGINEERING, INC.
 6776 LAKE DRIVE
 SUITE 110
 LINO LAKES, MN 55014
 PHONE: (651) 361-8210
 FAX: (651) 361-8701

DRAWN BY: AG	CHECK BY: AG	JOB NO. 18-1831	DATE: 04-01-2019
1	04-22-19	CITY REVIEW COMMENTS	
2	5-1-19	SILVER CREEK W/MC COMMENTS - CB SUMPS ADDED	
3	06-12-19	BUILDING PERM SIDEWALK ADD.	
4	07-01-19	CITY SUBMITTAL	
5	07-15-19	FOOTINGS & FOUNDATION PERMIT	
6	07-29-19	BUILDING PERMIT	
NO.	DATE	DESCRIPTION	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 ADAM GINKEL
 License No. 43963
 Date: 07-29-2019

SILVER CREEK ON MAIN
 CITY OF MAPLE GROVE, MN
PRELIMINARY UTILITY PLAN
 PREPARED FOR: ARTEMIS REAL ESTATE PARTNERS

SHEET
C3.02