

NOTE: BORE ALL PAVED STREETS AND DRIVEWAYS
 Minimum depth requirements for crossings of state highways and county roads is 60". Minimum depth requirements for crossings of city streets and township roads is 48".
 Minimum depth for parallel installations on state highways and county roads is 36". Minimum depth for parallel installations on city streets and township roads is 30". All steel pipe welds to be coated with 2 part epoxy.

INSTALL LOCATING POINTS AT A MAXIMUM SPACING OF 1,000 FT.

INSTALL 2" PE CL-6
 JOINT TRENCH - DUAL MAIN - IN 10' UTILITY EASEMENT (UE)

C = INSTALL 2" PE CAP TO COVER SERVICE
 T = INSTALL 2" PE TEE
 TT = INSTALL TWO 2" PE TEES BACK TO BACK

Purge new main until essentially 100% gas reading is obtained on Combustible Gas Indicator. See CenterPoint Energy Construction and Service Manual Section CS-B-1.230 for purging mains into service.

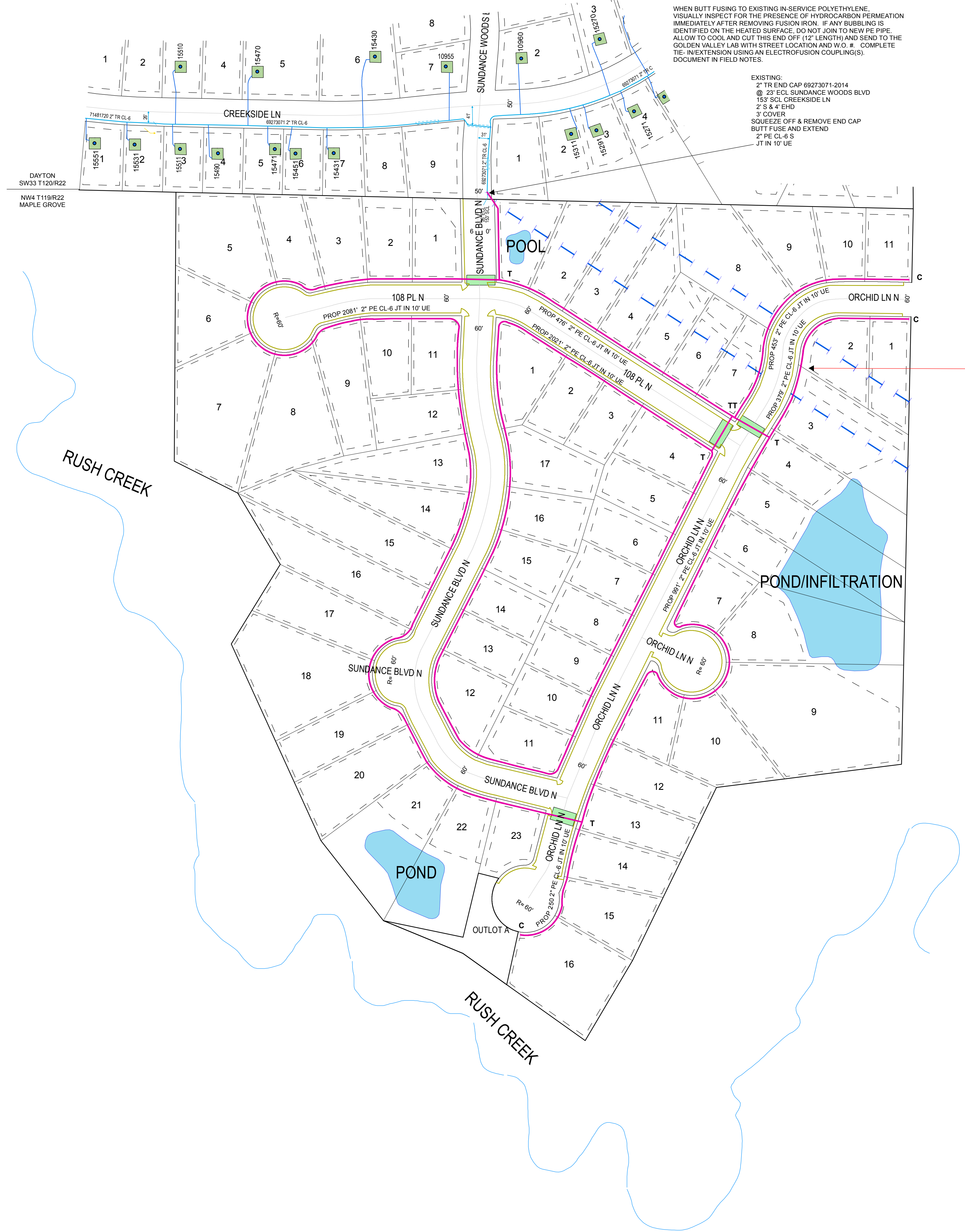
Install a marker ball at a new end of main, at a valve, at each ell of a horizontal offset, at road crossings and at any fitting or pressure control identified as needing to be located in the future. Refer to CenterPoint Energy Construction and Service Manual section CS-B-1.310 for installation procedures.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

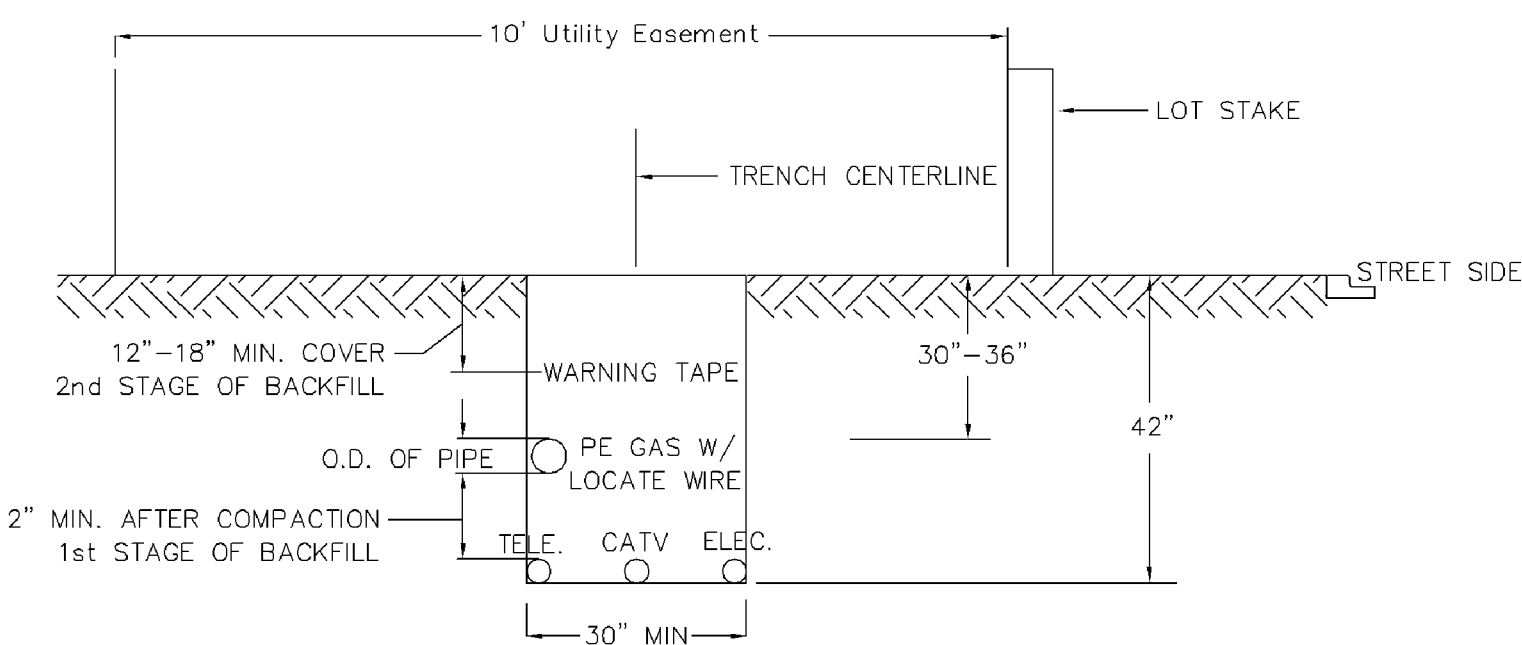
Signature: *[Signature]*

Typed or Printed Name: Daniel G. Christensen

Date: 05/10/2017 License Number: 46588



PRIOR TO CROSSING THE NUSTAR EASMENT CONTACT TIEU YANG AT 612-709-1046



DESIGNER EXPRESS DESIGN
 5/10/2017 3:15:30 PM

DUAL MAIN IN UTILITY EASEMENT



CenterPoint Energy
 MINNESOTA REGION

PROPRIETARY AND CONFIDENTIAL

PROJECT # 81884023

M52900 MAPLE GROVE
 M57800 DAYTON

ONE CALL:
 Hennepin
 *SE33 T120/R22
 *NW4 T119/R22 main & services
 * = this Page

- LEGEND:
- ACTIVE MAIN
 - DESIGNED MAIN
 - - - PROPOSED ABANDONED/OUT OF SERVICE MAIN
 - - - ABANDONED/OUT OF SERVICE MAIN
 - 4" PVC CONDUIT CROSSING FOUR REQUIRED

PIPE REQUIRED:
 6958" 2" PE CL-6
 6958" PIPE

PROPOSED ABANDONED PIPE:

COPIES:
 PIPELINE INTEGRITY PACKET: N
 GAS VALVE: N
 DD NUMBER: N
 CORROSION: N
 EMP: N

FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? N
 SURVEYOR REQUIRED? N

RETURN PACKET TO ENG? N

GFIP #: N

PERMITS: MAPLE GROVE
 DAYTON

PROJECT DESCRIPTION: NBRRE ENCLAVE AT RUSH CREEK

DESIGNER: Wendy Kronwall
 PHONE #: 612-321-5508
 DRAWN BY: Wendy Kronwall
 DESIGN DATE: 5/4/2017

REVISION INFO:

Main SCAN DATE:
 SCALE 1"=100'
 SHEET 1 OF 1