

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".

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

INSTALL:  
 4" TR CL-6 @ 45' WCL HWY 25  
 4" TR CL-6 @ 28' NCL (12' NNER) 133 ST (CO RD 38)  
 2" TR CL-6 @ 16' - 19' WCL (5' - 8' WWER) DELORES DR

T = INSTALL 2" TR TEE  
 C = INSTALL 2" TR CAP TO COVER SERVICE

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.

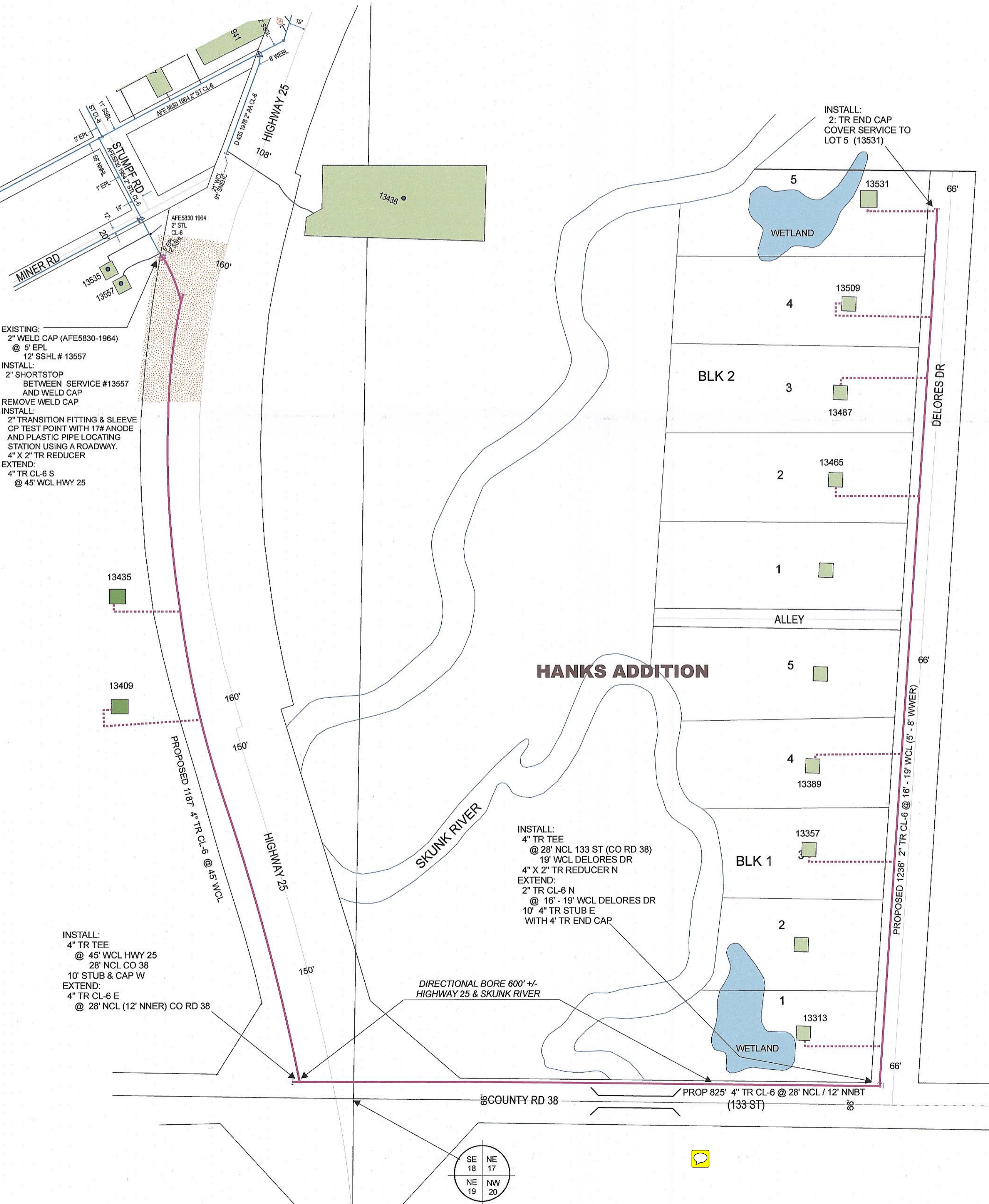
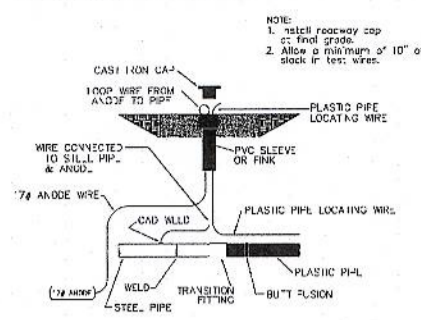
Install a marker ball at a new end of main, at a valve, at each ell of a horizontal offset, at road crossings and at any fitting or pressure control identified as needing to be located in the future. Refer to CenterPoint Energy Construction and Service Manual section CS-B-1.310 for installation procedures.

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 Registered Professional Engineer under the laws of the State of Minnesota.

Signature: *David Henningsgaard*  
 Type or Printed Name: David Henningsgaard  
 Date: 5/21/2015 REG. No. 22174

CP TEST POINT WITH ANODE AND PLASTIC PIPE LOCATING STATION ROADWAY INSTALLATION

LOCATING/TRACKER WIRE - PIPES  
 Size 12 14-cv copper tracer wire shall be buried with all plastic pipes.  
 1. All copper tracer wires are joined together or connected to plastic pipes or services, the connections shall be coated with a plastic pipe sealant.  
 Tracer wires shall also be connected to plastic pipes when locating inside of cast iron pipes.  
 When steel pipes and plastic pipes are joined together, the tracer wire shall be connected to a fast lock on shown in the drawing section. A separate 2" TR copper wire will be connected to the steel pipe and one terminal to the tracer wire, use 2" TR T-tee.



EXISTING:  
 2" WELD CAP (AFE5830-1964)  
 @ 5' EPL  
 12' SSSL # 13557  
 INSTALL:  
 2" SHORTSTOP  
 BETWEEN SERVICE #13557  
 AND WELD CAP  
 REMOVE WELD CAP  
 INSTALL:  
 2" TRANSITION FITTING & SLEEVE  
 CP TEST POINT WITH 17# ANODE  
 AND PLASTIC PIPE LOCATING  
 STATION USING A ROADWAY.  
 4" X 2" TR REDUCER  
 EXTEND:  
 4" TR CL-6 S  
 @ 45' WCL HWY 25

INSTALL:  
 4" TR TEE  
 @ 28' NCL 133 ST (CO RD 38)  
 19' WCL DELORES DR  
 4" X 2" TR REDUCER N  
 EXTEND:  
 2" TR CL-6 N  
 @ 16' - 19' WCL DELORES DR  
 10' 4" TR STUB E  
 WITH 4" TR END CAP

INSTALL:  
 4" TR TEE  
 @ 45' WCL HWY 25  
 28' NCL CO 38  
 10' STUB & CAP W  
 EXTEND:  
 4" TR CL-6 E  
 @ 28' NCL (12' NNER) CO RD 38

INSTALL:  
 2" TR END CAP  
 COVER SERVICE TO  
 LOT 5 (13531)

DIRECTIONAL BORE 600' +/-  
 HIGHWAY 25 & SKUNK RIVER

ONE CALL:  
 Morrison  
 \*NE19 T40/R30  
 \*NW20 T40/R30  
 \*SE18 T40/R30 MAIN & SERVICES  
 \*SW17 T40/R30 MAIN & SERVICES  
 \* = this Page

LEGEND:  
 — ACTIVE MAIN  
 — DESIGNED MAIN  
 - - - PROPOSED ABANDONED/  
 OUT OF SERVICE MAIN  
 - - - ABANDONED/  
 OUT OF SERVICE MAIN  
 - - - PROPOSED SERVICE  
 SEE DESIGN FOR  
 THE EXACT LOCATION

PIPE REQUIRED:  
 1241' 2" TR CL-6  
 2037' 4" TR CL-6  
 3278' PIPE

PROPOSED ABANDONED PIPE:

COPIES:  
 PIPELINE INTEGRITY: N  
 GAS VALVE: N  
 DD NUMBER: N  
 CORROSION: KEITH LONG #5  
 EMP: N  
 FOLLOW INTERNAL PIPE  
 SAMPLING REQUIREMENTS? N  
 SURVEYOR REQUIRED? N  
 RETURN PACKET TO ENG? N  
 PERMITS: MNDOT LONG FORM  
 MORRISON COUNTY  
 DNR  
 NOTIFICATION: PIERZ TWP  
 GENOLA

PROJECT DESCRIPTION: NERE  
 DELORES DR PEIRZ, MN

DESIGNER: Wendy Kronwall  
 PHONE #: 612-321-5508  
 DRAWN BY: Wendy Kronwall  
 DESIGN DATE: 5/20/2015

REVISION INFO:

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

DESIGNER EXPRESS DESIGN

05/21/2015 02:21:31 PM

