

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 4" PE CL-6 (DIRECTIONAL BORE)
 21' NCL 82 AVE N
 21' - 25' WCL KIRKWOOD LN N

C = INSTALL 4" PE CAP TO COVER SERVICE & LEAVE 10' STUB E
 E = INSTALL 4" PE 90 DEG ELL

Install; Clean and Test; and Put in Service; Proposed new main per CenterPoint Energy Construction and Service Manual.

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: *[Handwritten Signature]*

Typed or Printed Name: Daniel G. Christensen

Date: 10/17/2018 License Number: 46588



MINNESOTA REGION
 PROPRIETARY AND CONFIDENTIAL

PROJECT #: 87723003

M52900 MAPLE GROVE

ONE CALL:
 Hennepin
 *NW23 T119/R22
 *= this Page

LEGEND:

- ACTIVE MAIN
- DESIGNED MAIN
- - - PROPOSED ABANDONED/ OUT OF SERVICE MAIN
- ABANDONED/ OUT OF SERVICE MAIN

PIPE REQUIRED:
 822' 4" PE CL-6

 822' PIPE

PROPOSED ABANDONED PIPE:

COPIES:
 PIPELINE INTEGRITY PACKET: N
 STATION MANAGER: N
 DD NUMBER: N
 CORROSION: N
 EMP: N

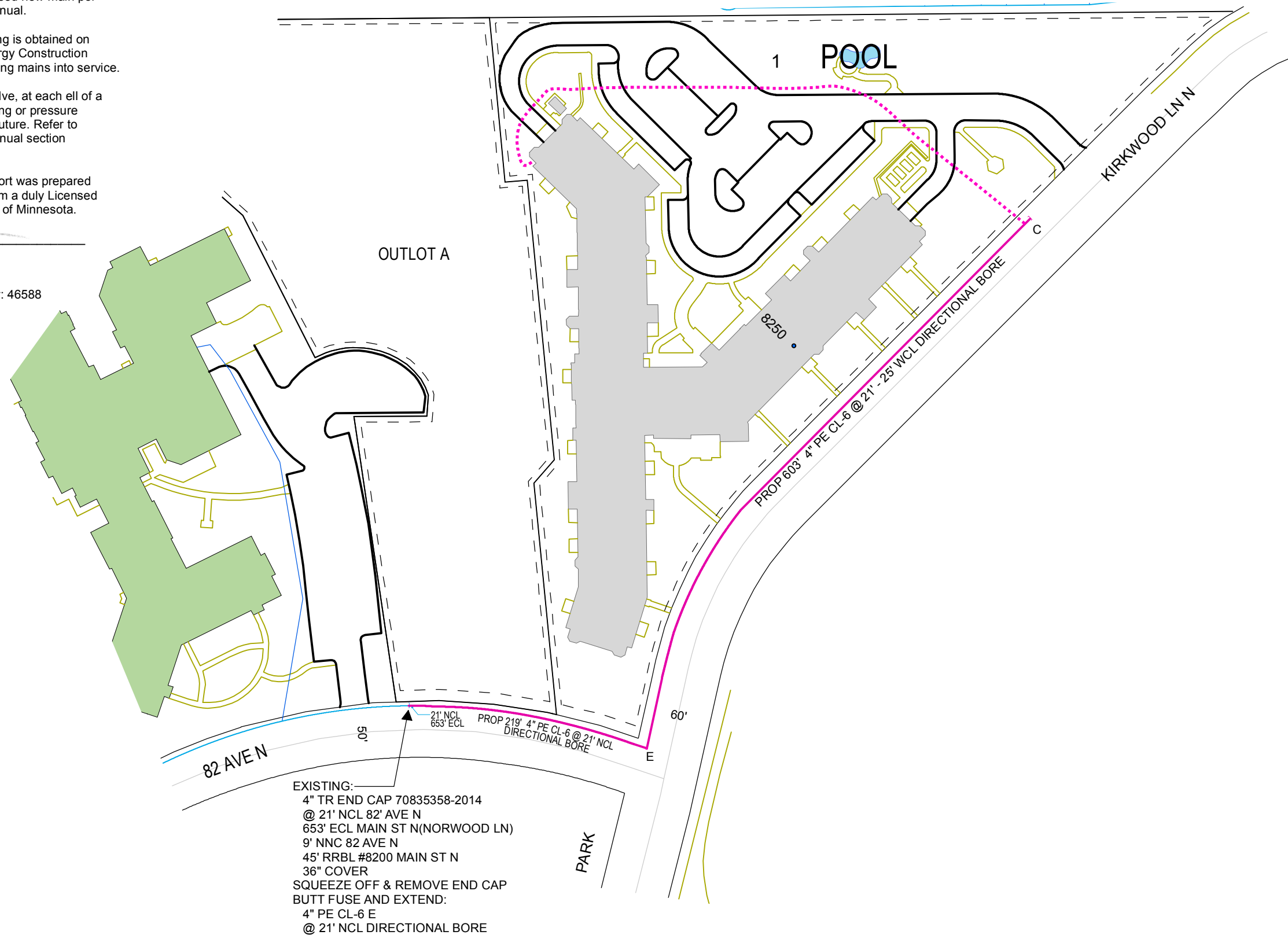
FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? N
 SURVEYOR REQUIRED? N
 RETURN PACKET TO ENG? N
 GFIP#: N
 PERMITS: MAPLE GROVE

PROJECT DESCRIPTION: NBCO
 APPLEWOOD OF MAPLE GROVE

DESIGNER: Wendy Kronwall
 PHONE #: 612-321-5508
 DRAWN BY: Wendy Kronwall
 DESIGN DATE: 10/17/2018

REVISION INFO:

Main SS#	SCALE 1" : 100' SHEET 1 OF 1
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EXISTING:
 4" TR END CAP 70835358-2014
 @ 21' NCL 82' AVE N
 653' ECL MAIN ST N(NORWOOD LN)
 9' NNC 82 AVE N
 45' RRBL #8200 MAIN ST N
 36" COVER
 SQUEEZE OFF & REMOVE END CAP
 BUTT FUSE AND EXTEND:
 4" PE CL-6 E
 @ 21' NCL DIRECTIONAL BORE

10/17/2018 1:35:02 PM DESIGNER EXPRESS DESIGN