

CONSTRUCTION NOTES

Obtain Construction Plans from Designer prior to starting job.
Coordinate with Contractor / Engineering Firm for exact locations of proposed structures and facilities prior to installation of gas facilities.
Install new main as shown or as directed in field at time of installation.
Long side mains and services to be installed below proposed sub-outs (See Construction Plans).
All test points should be installed in the boulevard or other acceptable locations and avoid placement in driving lanes.

CONSTRUCTION PROCEDURES

Install, Clean and Test, and Put in Service; Proposed new main as shown.
Purge new main until essentially 100% reading is obtained on Combustible Gas Indicator. See CenterPoint Energy Construction and Service Manual Section CS-B-1.230 for purging mains into service.
Complete all Service / Meter Work as directed. (See Service Survey)
Cut and Abandon existing main as shown. Purge abandoned mains until essentially 0% gas reading is obtained on Combustible Gas Indicator. See CenterPoint Energy Construction and Service Manual Section CS-B-1.110 and Section CS-B-1.230 for purging mains out of service using air movers.

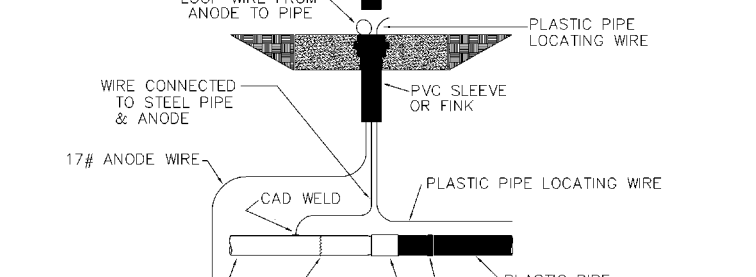
Install a marker ball at a new end of main, at a valve, at each end of a horizontal offset, at road crossings and at any fitting or pressure control identified as needing to be located in the future. Refer to CenterPoint Energy Construction and Service Manual section CS-B-1.310 for installation procedures.
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 35". Minimum depth for parallel installations on city streets and township roads is 30".

Project area not cleared for internal contaminants. Due to pipe size in project area no internal testing method is allowed. See packet for special abandon/removal requirements. Any pipe that may need removal must be disposed of by CenterPoint Energy.

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

LOCATING/TRACER WIRE - PIPS
Solid 12 THIN copper tracer wire shall be buried with all plastic pipes.
NOTE: Whenever tracer wires are joined together or connected to plastic pipes or services, the connections shall be coated with mastic sealant.
Tracer wire shall also be terminated with plastic pipes when inserting inside of cast iron pipe.

Where steel pipes and plastic pipes are joined together, the tracer wire will be terminated in a test box as shown in the drawing below. A separate 12 THIN copper wire will be connected to the steel pipe and also terminated in the same test box with the tracer wire.



NOTE:
1. Install roadway cap 10" final grade.
2. Allow a minimum of 10" of stock in test wire.



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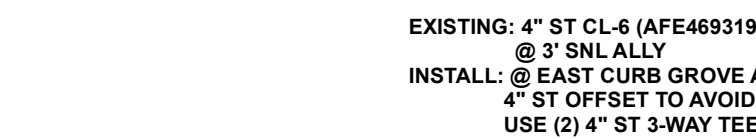
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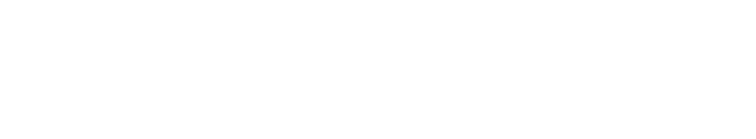
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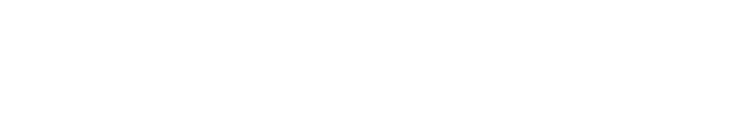
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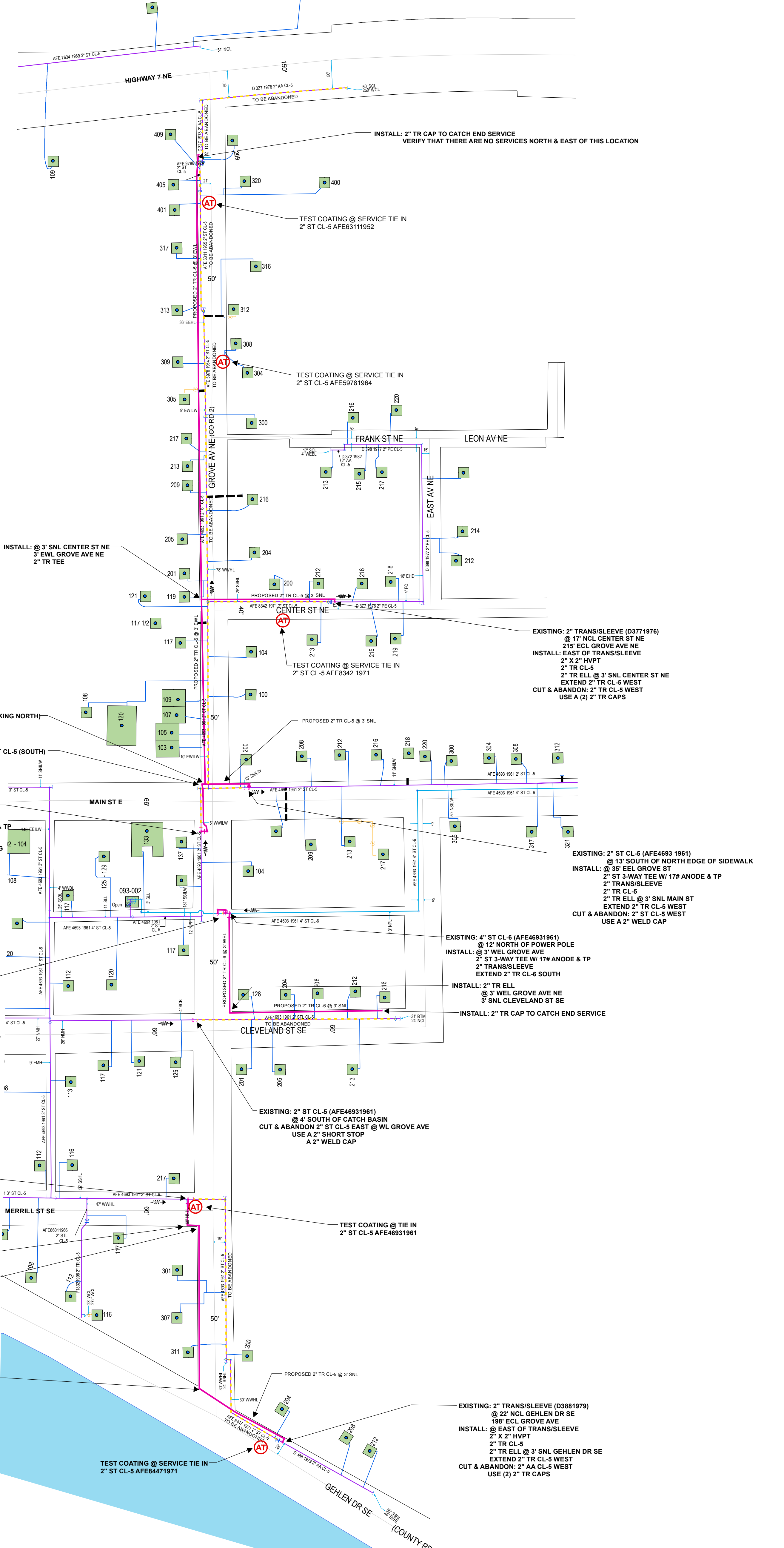
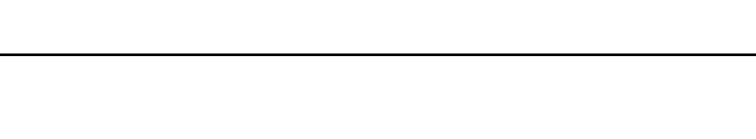
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MINNESOTA REGION

PROPRIETARY AND CONFIDENTIAL

PROJECT #: 63801754

M09400 HALE TOWNSHIP
M09300 SILVER LAKE
ONE CALL:
McLeod
*NW34 T117/R28
*SW27 T117/R28
*SW34 T117/R28
* = this Page

LEGEND:
ACTIVE MAIN
DESIGNED MAIN
PROPOSED ABANDONED MAIN
ABANDONED MAIN

PIPE REQUIRED:
28\"/>

PROPOSED ABANDONED PIPE:
403\"/>

COPIES:
PIPELINE INTEGRITY: N
GAS VALVE: N
DD NUMBER: 093-002
CORROSION: KEVIN KLINGEL
EMP: Y

FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? Y
SURVEYOR REQUIRED? N
RETURN PACKET TO ENG? N
PERMITS: MCLEOD CO.

PROJECT DESCRIPTION: SREL
Grove Ave
DESIGNER: Travis Denzel
PHONE #: 612-321-5207
DRAWN BY: Travis Denzel
DESIGN DATE: 2/8/2013

REVISION INFO:
Main SCAN DATE:
SCALE 1\"/>

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:
Type or Printed Name: Jerome K. Kallstrom
Date: REG. NO 13149