

DETAIL A

Crossing ①

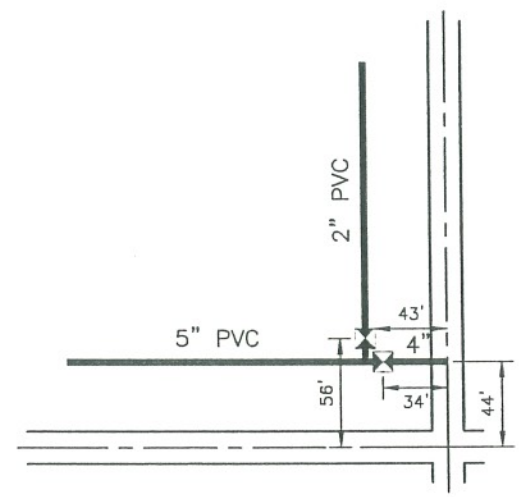
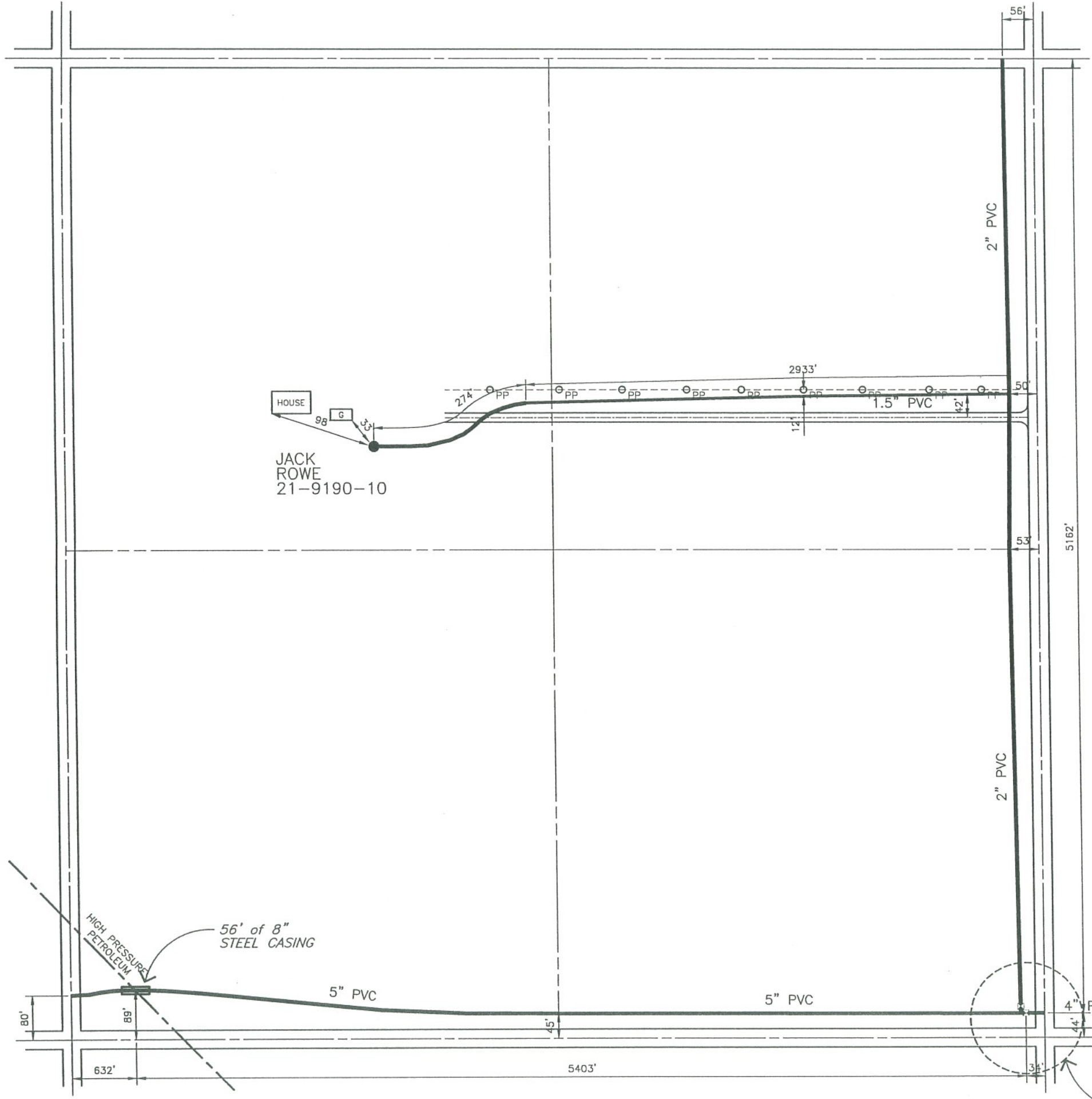
THE RECORD DRAWING DEPICTS THE WATER LINE AS MEASURED WITH GPS (GLOBAL POSITIONING SYSTEM) RECEIVERS ON TOP OF THE BACKFILLED PIPELINE TRENCH. ACCURACY OF PIPELINE LOCATION IS BASED ON TRENCH VISIBILITY AT THE TIME OF THE SURVEY. USGS 7.5 MINUTE QUADRANGLE MAPS ARE UTILIZED AS A BACKGROUND FOR VISUAL REFERENCE ONLY.

AE ADVANCED ENGINEERING & ENVIRONMENTAL SERVICES, INC.
Grand Forks, ND Bismarck, ND Moorhead, MN

NORTH VALLEY WATER ASSOCIATION, INC.
CAVALIER, NORTH DAKOTA

FILE NAME	D:\NorthValley nv2system.dwg
DRAWN BY	JRE
DATE	04-28-99
JOB NO.	P139-07
TWP - RGE	163-53
TWP. NO.	18
TWP. NAME	NECHE
SECTION NO.	4

Record Drawing Date: Sept., 75



DETAIL A

Crossing ②

SEE DETAIL A

NOTE:
 THIS RECORD DRAWING DEPICTS THE WATER
 LINE IN AN APPROXIMATE WAY ONLY, BASED
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AE ADVANCED ENGINEERING
 & ENVIRONMENTAL SERVICES, INC.
 Grand Forks, ND Blarneck, ND Moorhead, MN

NORTH VALLEY
WATER ASSOCIATION, INC.
 CAVALIER, NORTH DAKOTA

FILE NAME	D:\NorthValley 1635219.dwg
DRAWN BY	EM
DATE	3-3-98
JOB NO.	P139-03.0
TWP - RGE	163-52
TWP. NO.	19
TWP. NAME	SOUTHWEST PEMBINA
SECTION NO.	19



Crossing ④

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Grand Forks, ND
Bismarck, ND
Moorhead, MN

NORTH VALLEY WATER ASSOCIATION, INC.
CAVALIER, NORTH DAKOTA

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JRE

DATE
03-31-99

JOB NO.
P139-07

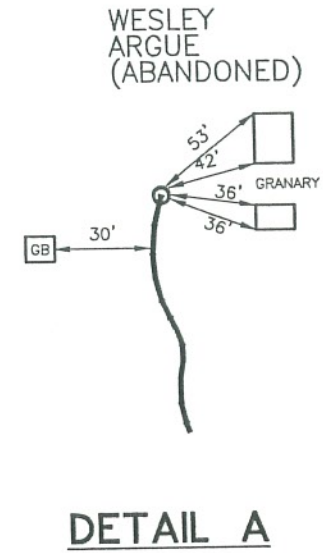
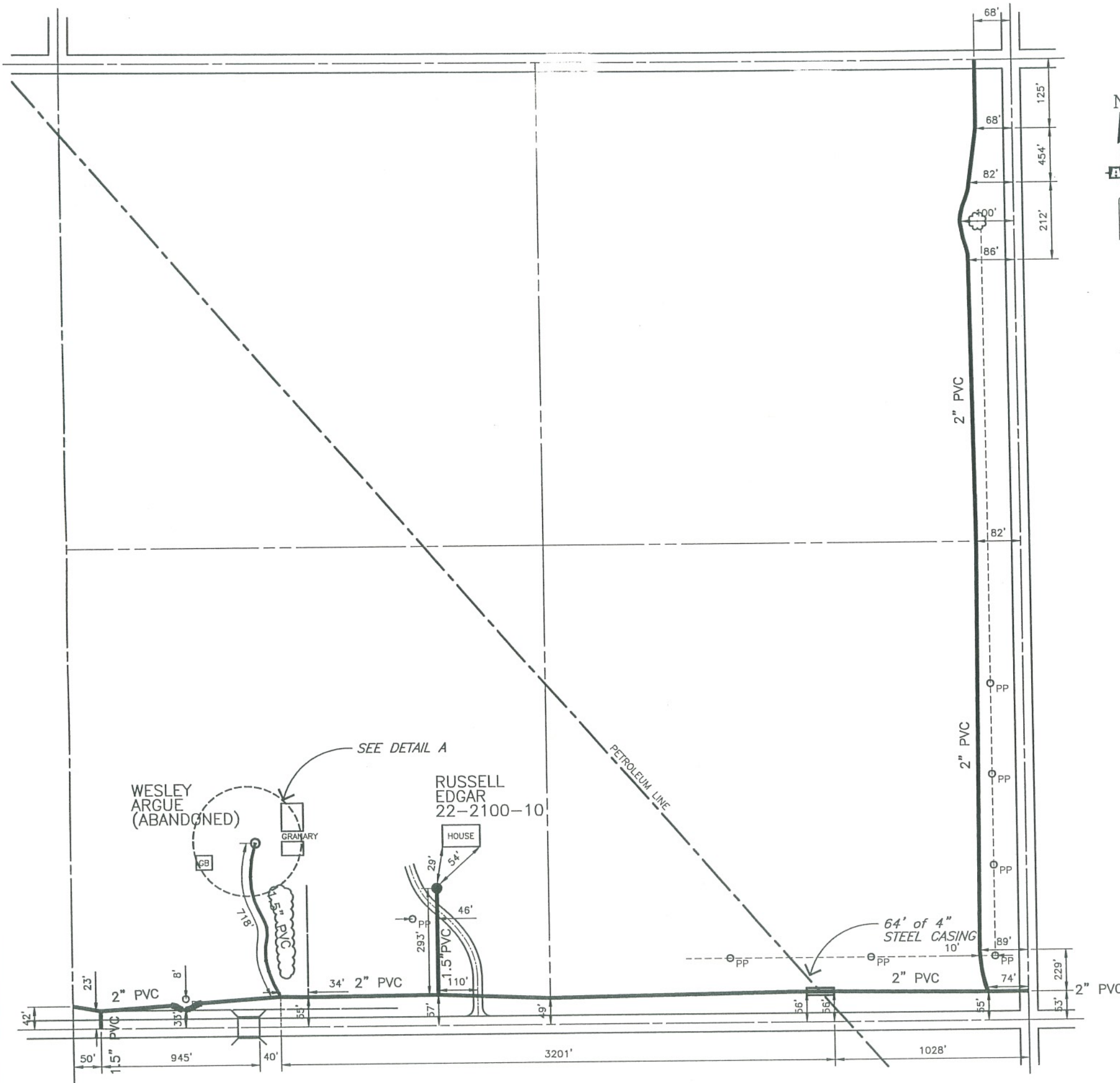
TWP - RGE
163-52

TWP. NO.
19

TWP. NAME
PEMBINA

SECTION NO.
29

Record Drawing Date: Aug., 75



Crossing (5)

NOTE:
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LINE IN AN APPROXIMATE WAY ONLY, BASED
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FILE NAME
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1625210.dwg

DRAWN BY
EM

DATE
3-11-98

JOB NO.
P139-03.0

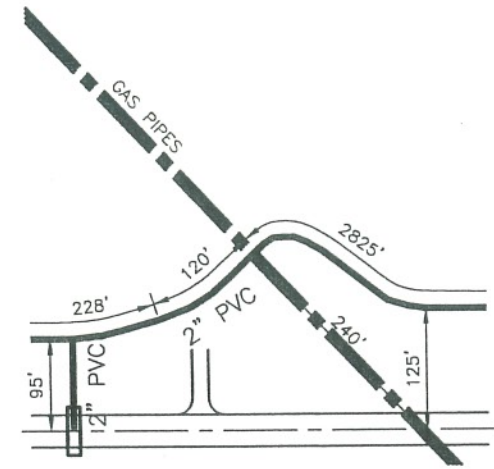
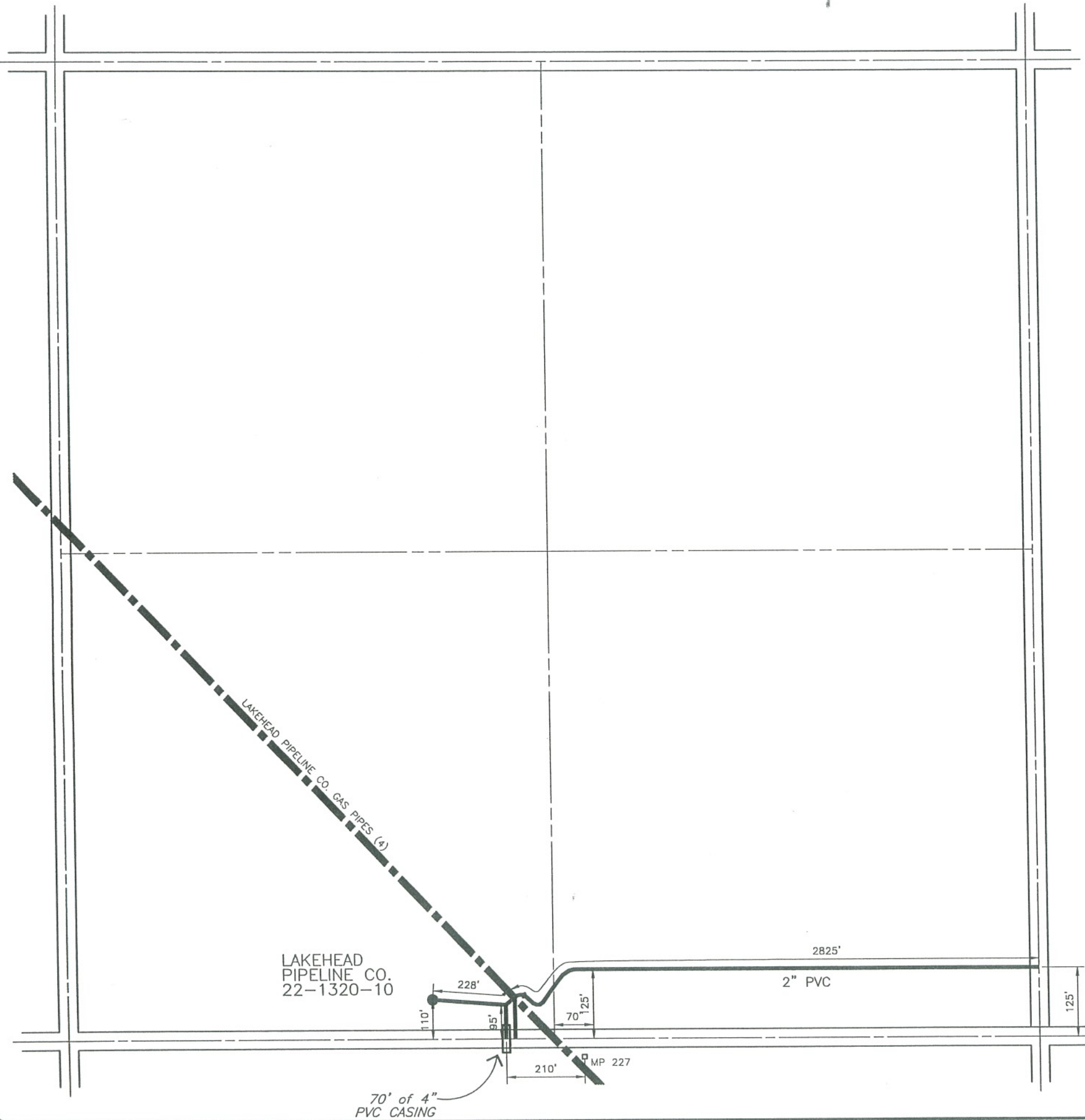
TWP - RGE
162-52

TWP. NO.
22

TWP. NAME
NORTH
CARLISLE

SECTION NO.
10

Record Drawing Date: (by owner)



DETAIL A

Crossing 6

NOTE:
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FILE NAME
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 1625132.dwg

DRAWN BY
 EM

DATE
 2-25-98

JOB NO.
 P139-03.0

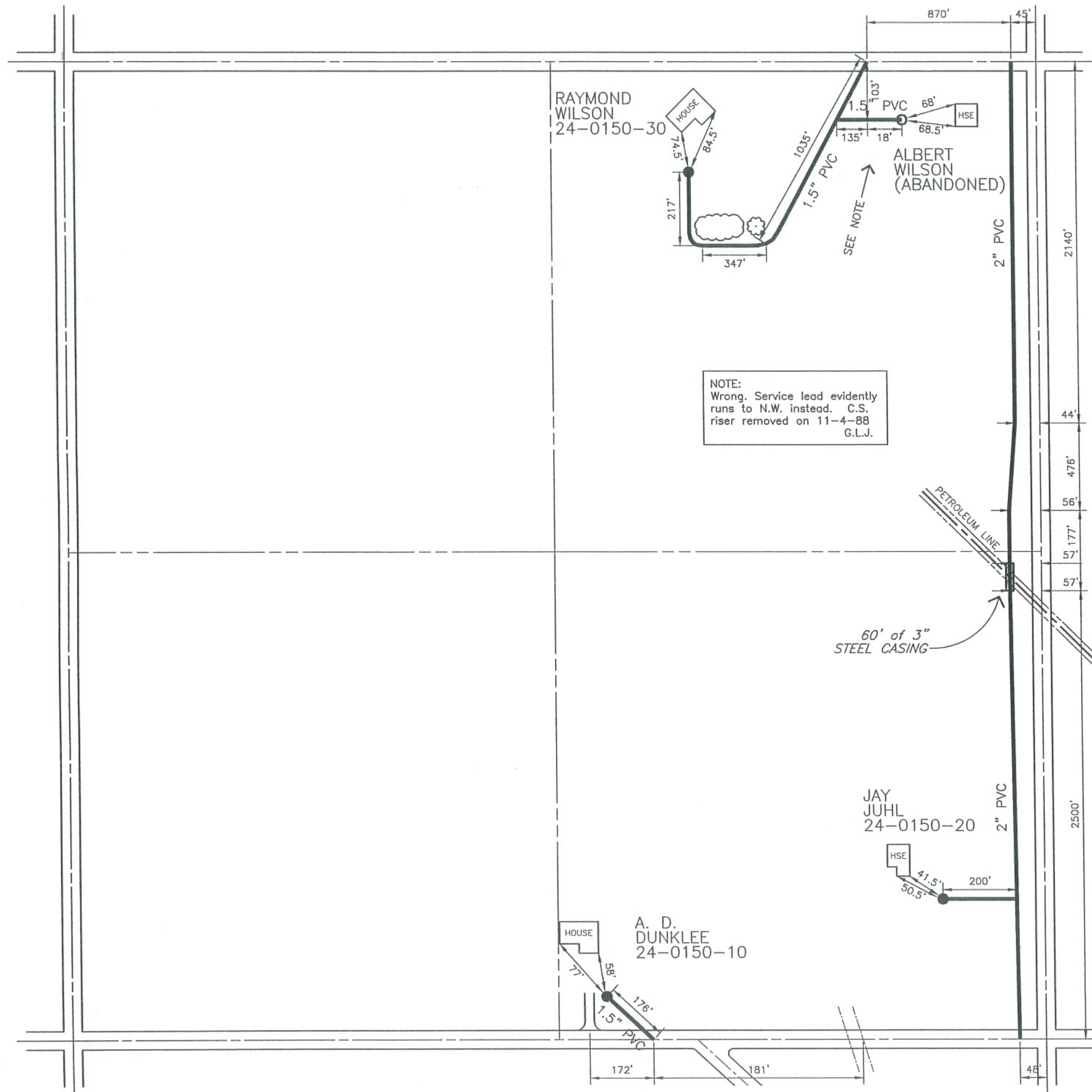
TWP - RGE
 162-51

TWP. NO.
 21

TWP. NAME
 NORTH
 JOLIETTE

SECTION NO.
 32

Record Drawing Date: Sept., 75



Crossing ⑦

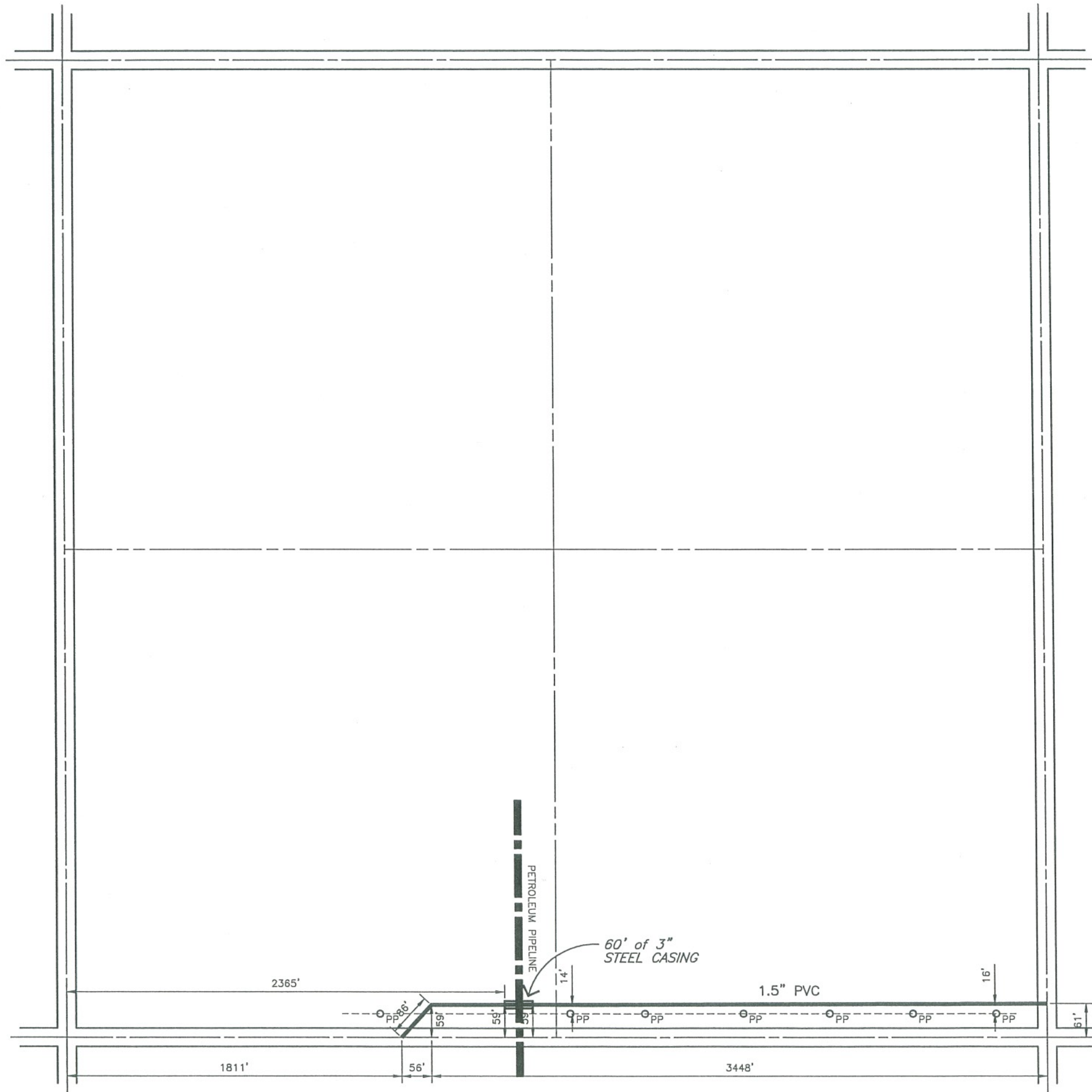
NOTE:
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Bismarck, ND
Moorhead, MN

NORTH VALLEY WATER ASSOCIATION, INC.
CAVALIER, NORTH DAKOTA

FILE NAME	D:\NorthValley 1615115.dwg
DRAWN BY	EM
DATE	2-18-98
JOB NO.	P139-03.0
TWP - RGE	161-51
TWP. NO.	40
TWP. NAME	SOUTH JOLIETTE
SECTION NO.	15

Record Drawing Date: Sept., 75



Crossing ⑧

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Grand Forks, ND Blarrock, ND Moorhead, MN

NORTH VALLEY
WATER ASSOCIATION, INC.
CAVALIER, NORTH DAKOTA

FILE NAME
D:\NorthValley
1615114.dwg

DRAWN BY
EM

DATE
2-17-98

JOB NO.
P139-03.0

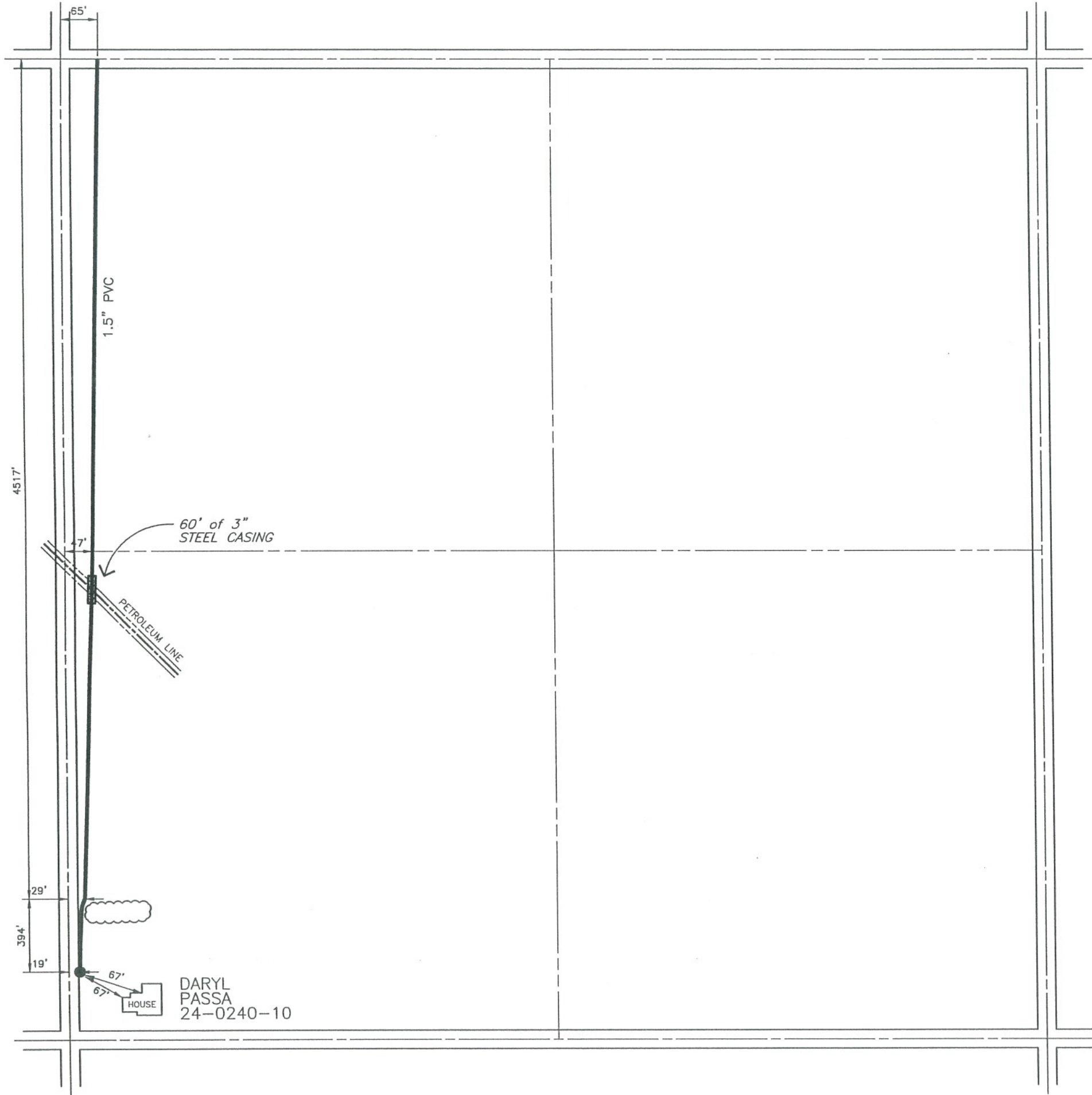
TWP - RGE
161-51

TWP. NO.
40

TWP. NAME
SOUTH
JOLIETTE

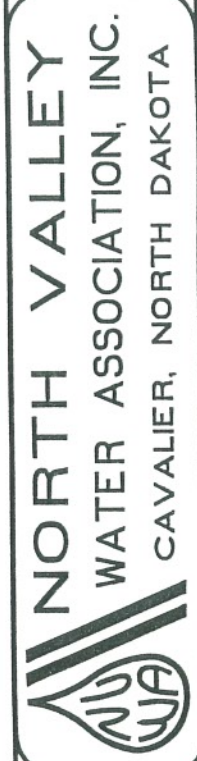
SECTION NO.
14

Record Drawing Date: Sept., 75

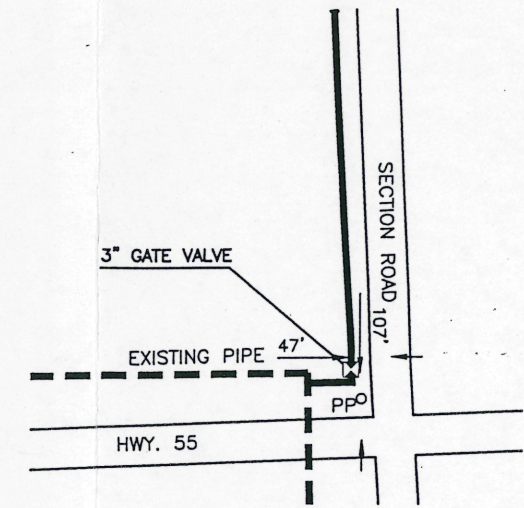
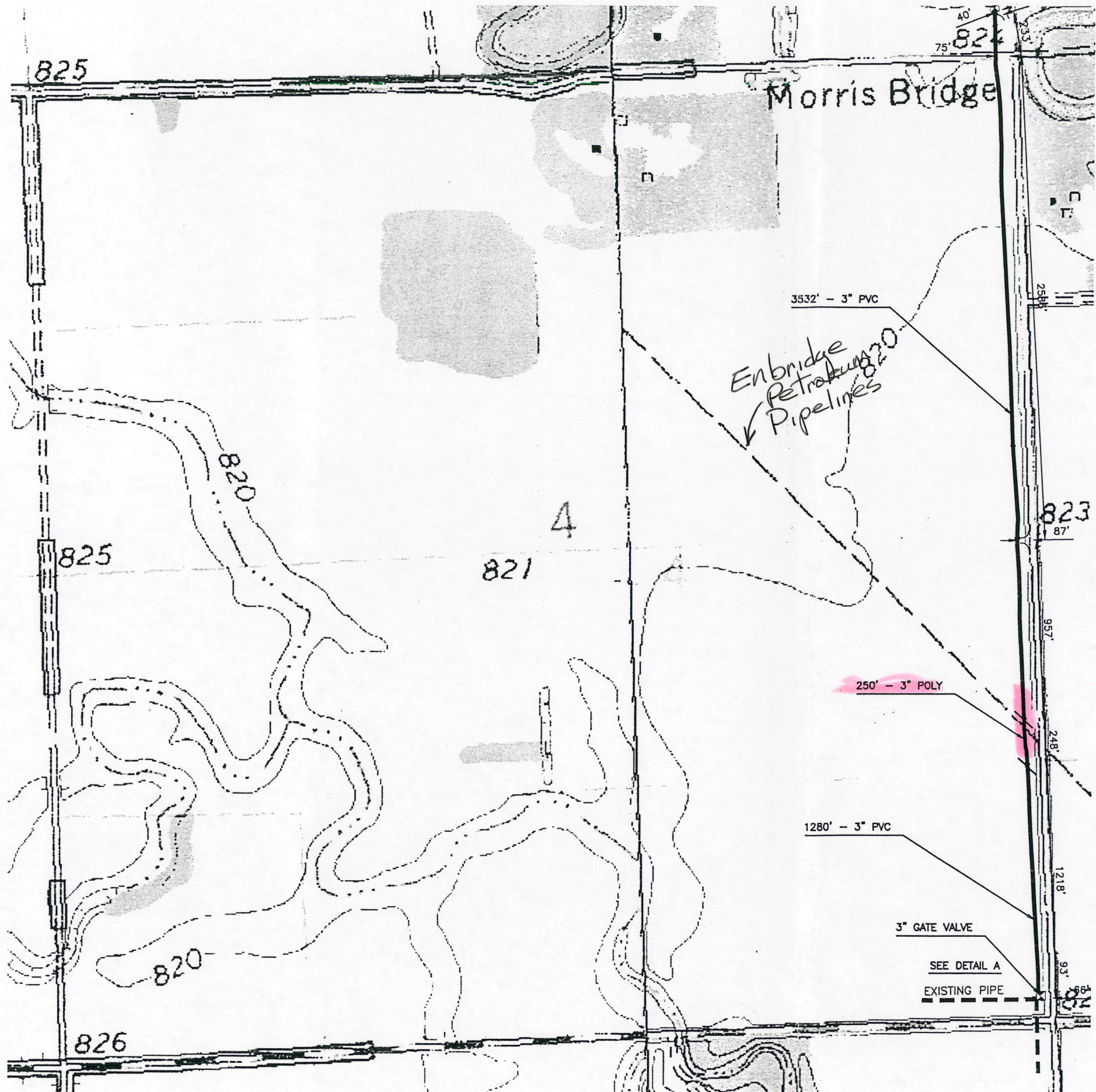


Crossing ⑨

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DATE	2-16-98
JOB NO.	P139-03.0
TWP - RGE	161-51
TWP. NO.	40
TWP. NAME	SOUTH JOLIETTE
SECTION NO.	24



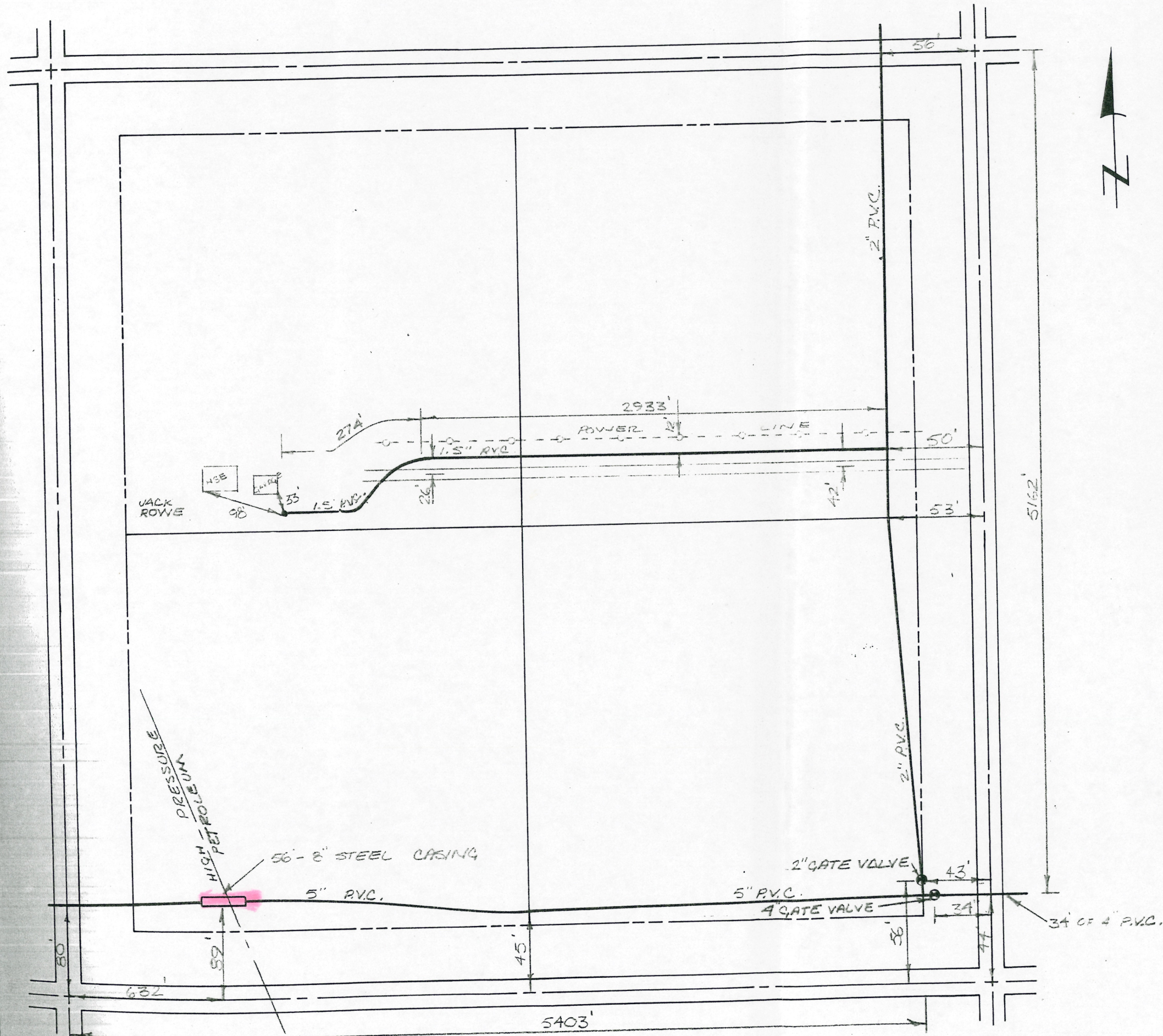
DETAIL A

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 Bismarck, ND
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NORTH VALLEY WATER ASSOCIATION, INC.
 CAVALIER, NORTH DAKOTA

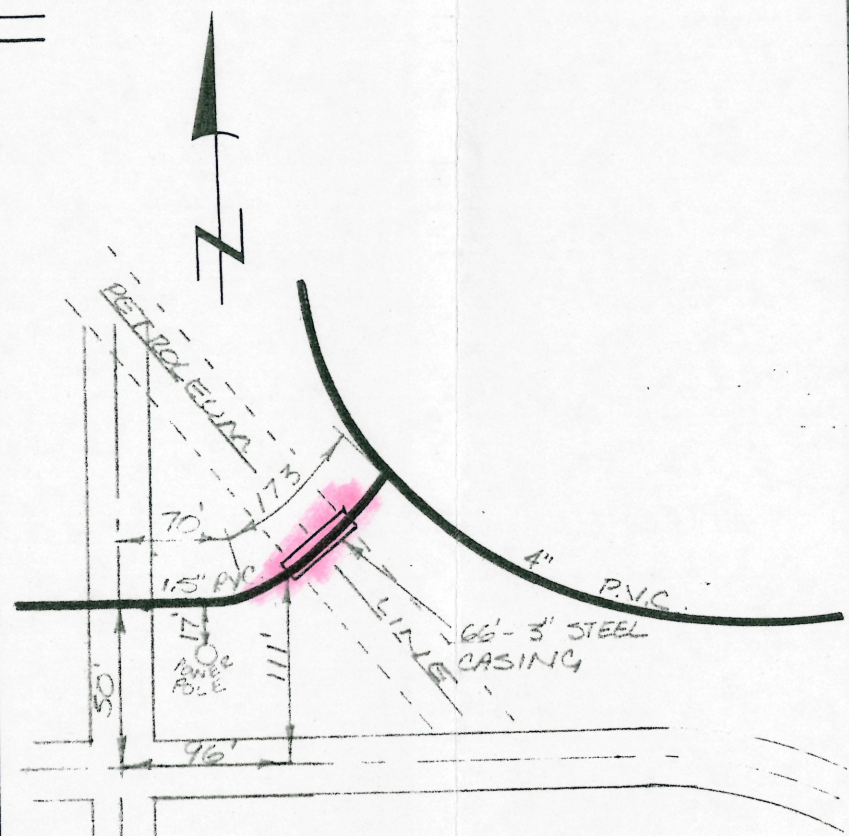
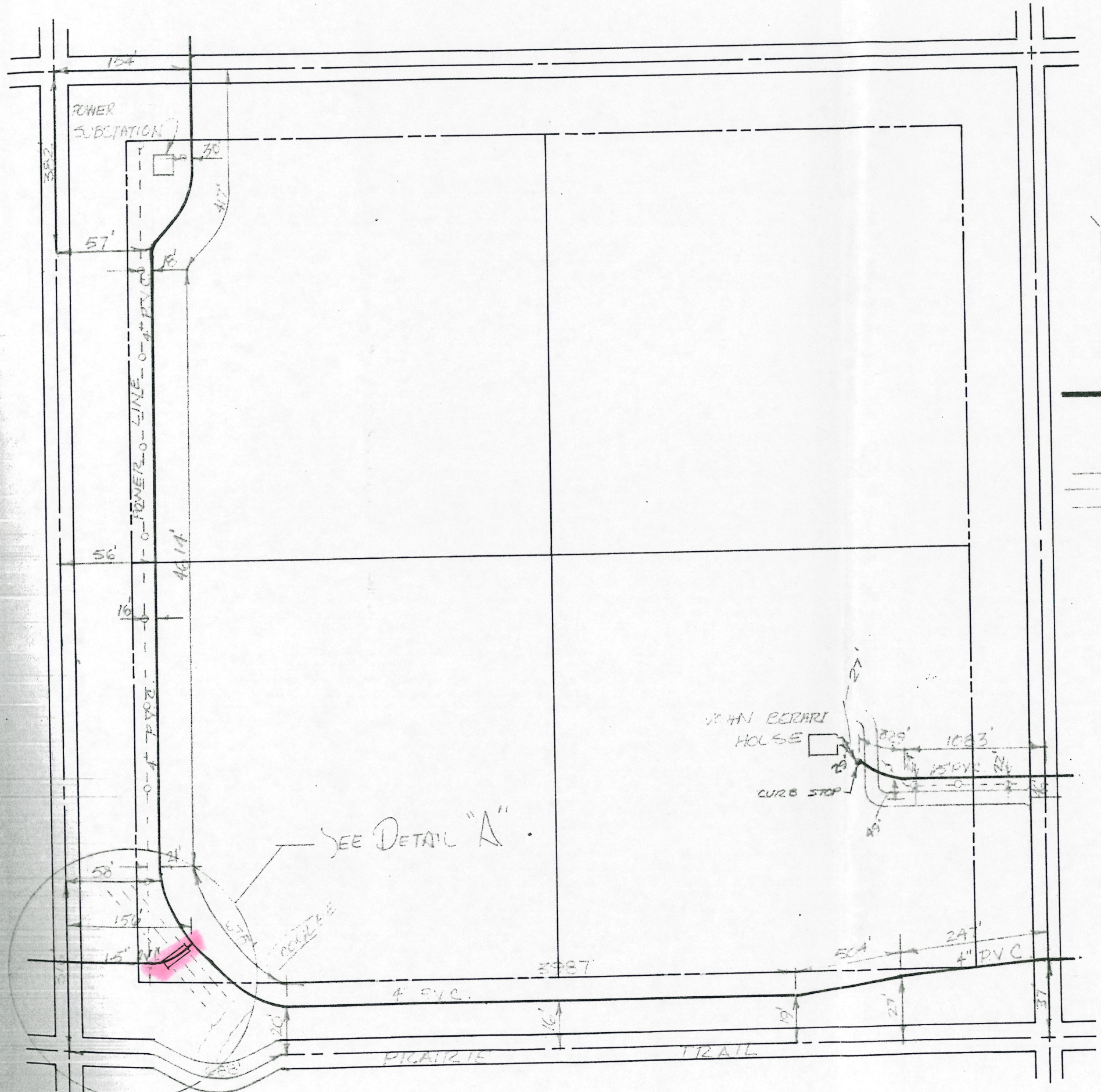
FILE NAME	D:\NorthValley nv2system.dwg
DRAWN BY	JRE
DATE	04-28-99
JOB NO.	P139-07
TWP - RGE	163-53
TWP. NO.	18
TWP. NAME	NECHE
SECTION NO.	4



K. B. MacKICHAN & ASSOCIATES, INC.
 Design Consultants
 K&M
 Grand Forks, N. D.
 Redwood Falls, Minn.

**NORTH VALLEY
 WATER ASSOC., INC.**
 CAVALIER, NORTH DAKOTA

DRAWN BY:	E.H.S.
DATE:	SEPT, 75
JOB NO:	244-1
TWP. NO.	19
TWP. NAME	S.W. PEMBINA
SECTION NO.	19



DETAIL "A"
NO SCALE

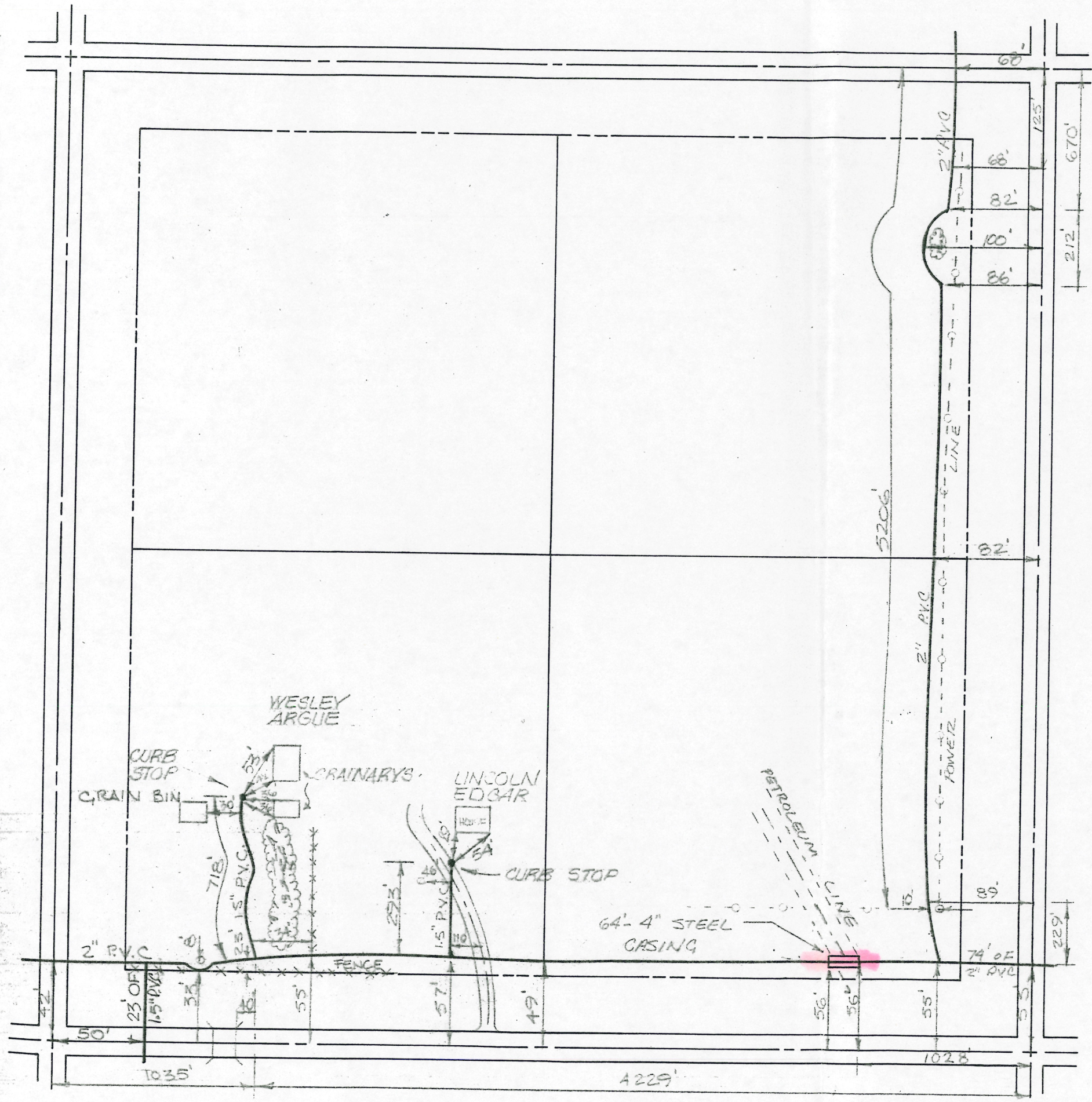
K. B. MacKICHAN & ASSOCIATES, INC.
Design Consultants



Grand Forks, N. D. Redwood Falls, Minn.

NORTH VALLEY
WATER ASSOC., INC.
CAVALIER, NORTH DAKOTA

DRAWN BY:	E.H.S.
DATE:	AUGUST, 75
JOB NO:	244-1
TWP. NO.	19
TWP. NAME	S.W. PEMBINA
SECTION NO.	29



K. B. MacKICHAN & ASSOCIATES, INC.

Design Consultants

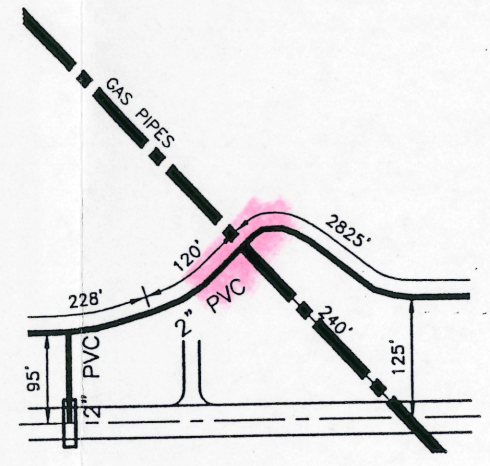
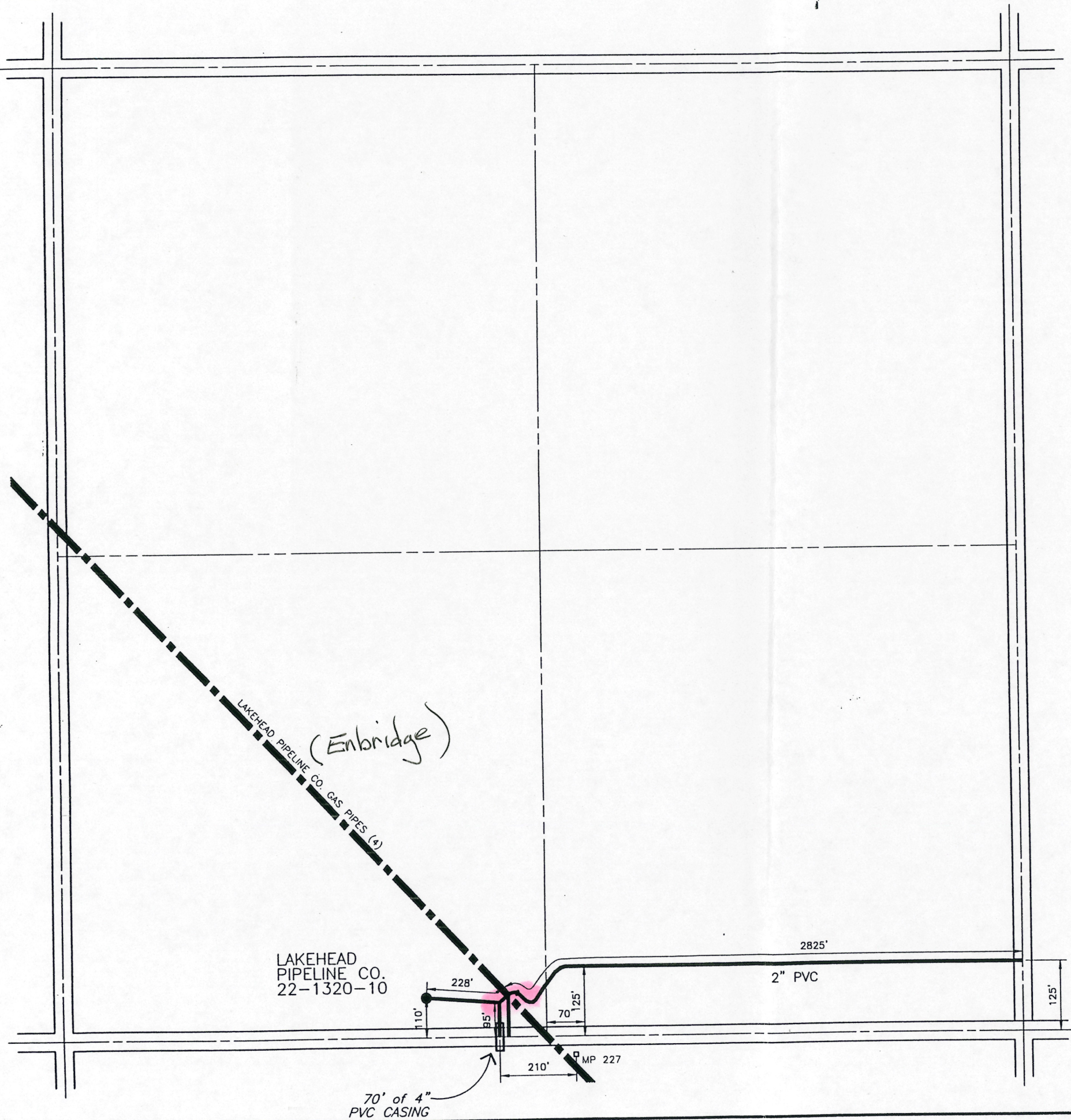


Grand Forks, N. D. Redwood Falls, Minn.

**NORTH VALLEY
WATER ASSOC., INC.**
CAVALIER, NORTH DAKOTA

DRAWN BY:	E. H. S.
DATE:	AUGUST, 75
JOB NO.:	244-1
TWP. NO.	22
TWP. NAME	NORTH CARLISLE
SECTION NO.	10

Record Drawing Date: (by owner)



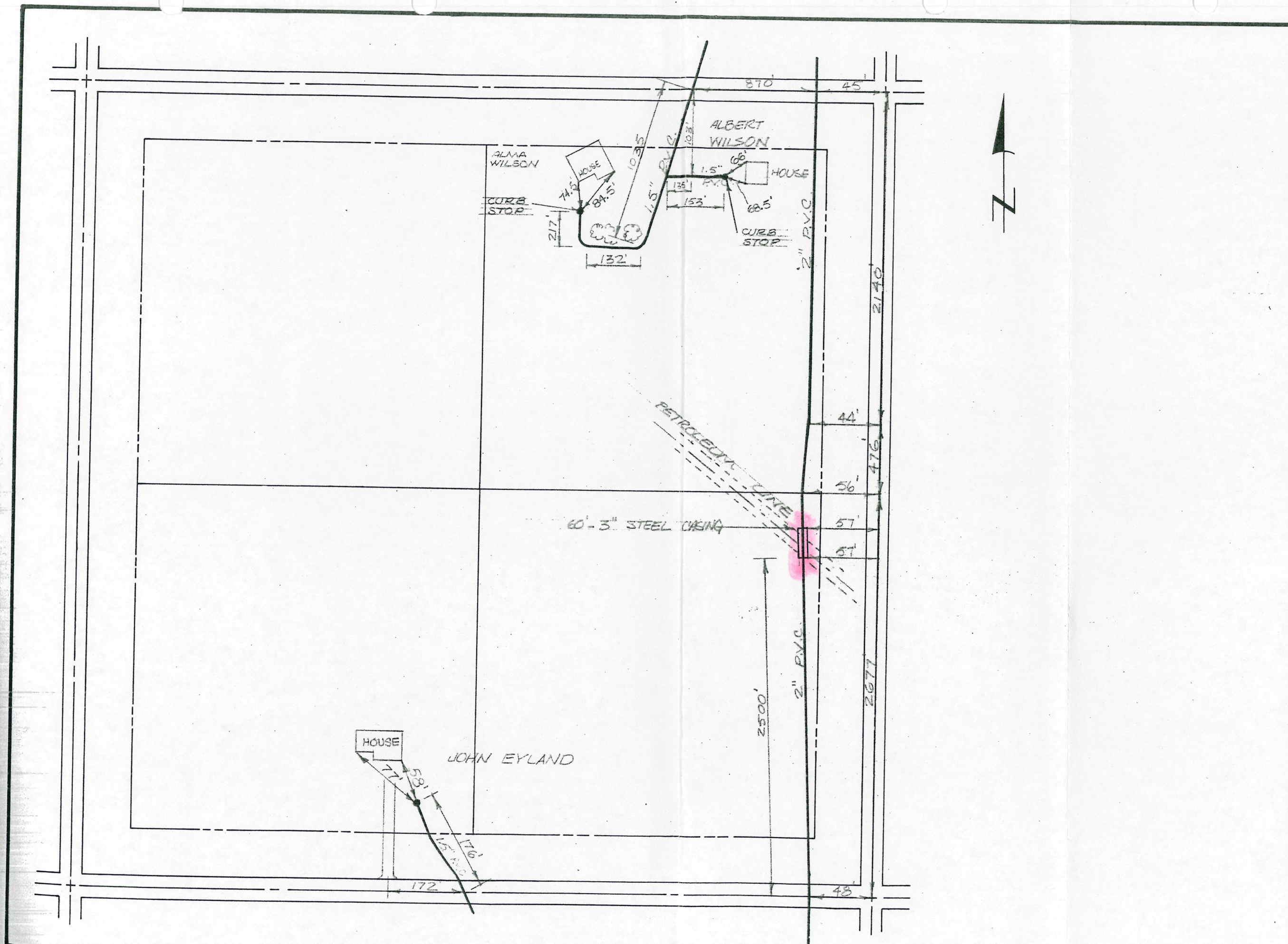
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NORTH VALLEY
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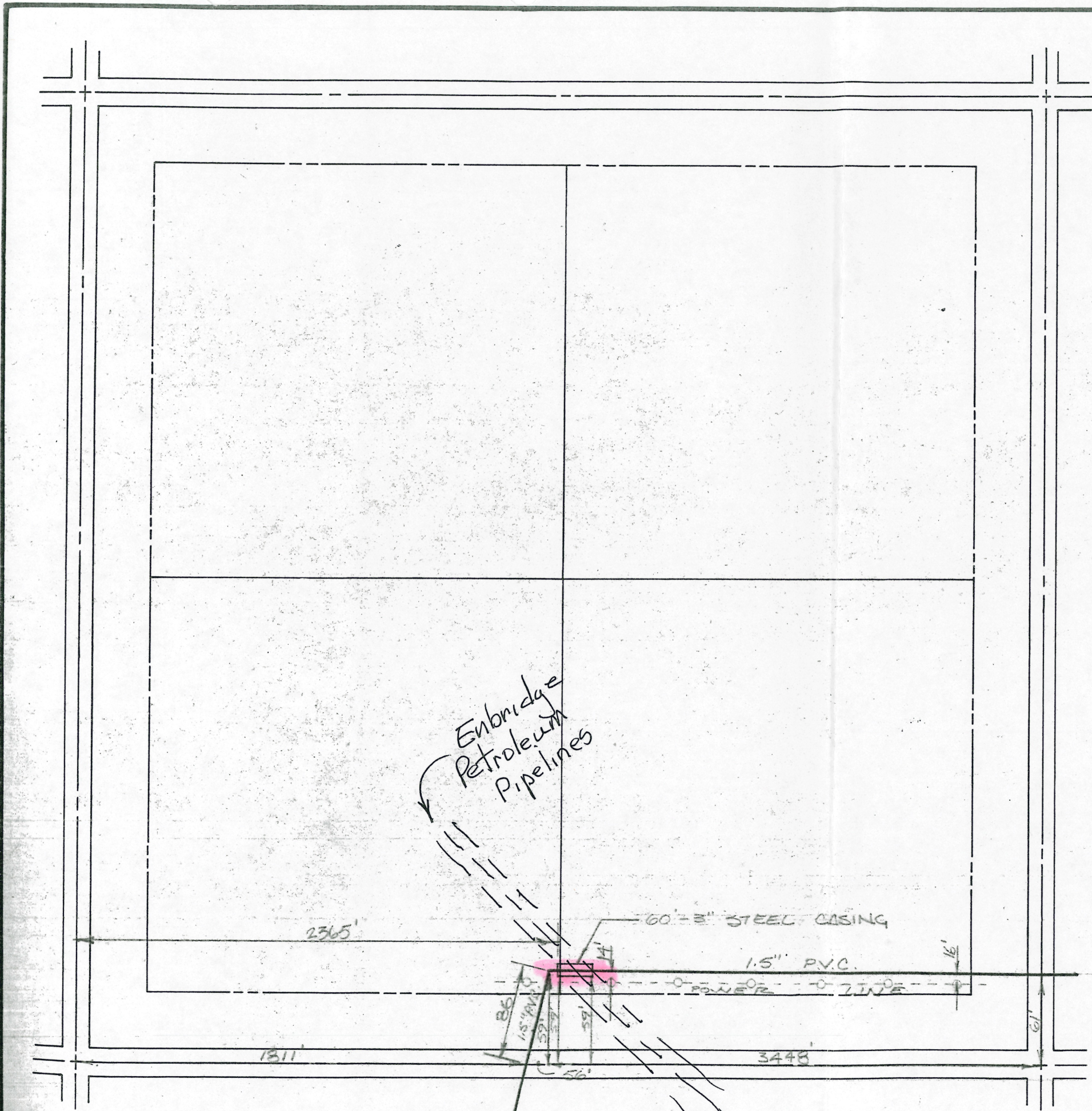
FILE NAME D:\NorthValley 1625132.dwg
DRAWN BY EM
DATE 2-25-98
JOB NO. P139-03.0
TWP - RGE 162-51
TWP. NO. 21
TWP. NAME NORTH JOLIETTE
SECTION NO. 32



K. B. MacKICHAN & ASSOCIATES, INC.
 Design Consultants
 KEM
 Grand Forks, N. D.
 Redwood Falls, Minn.

NORTH VALLEY
WATER ASSOC., INC.
 CAVALIER, NORTH DAKOTA

DRAWN BY:	E.H.S.
DATE:	SEPT, 75
JOB NO:	244-1
TWP. NO.	40
TWP. NAME	SOUTH JOLIETTE
SECTION NO.	15

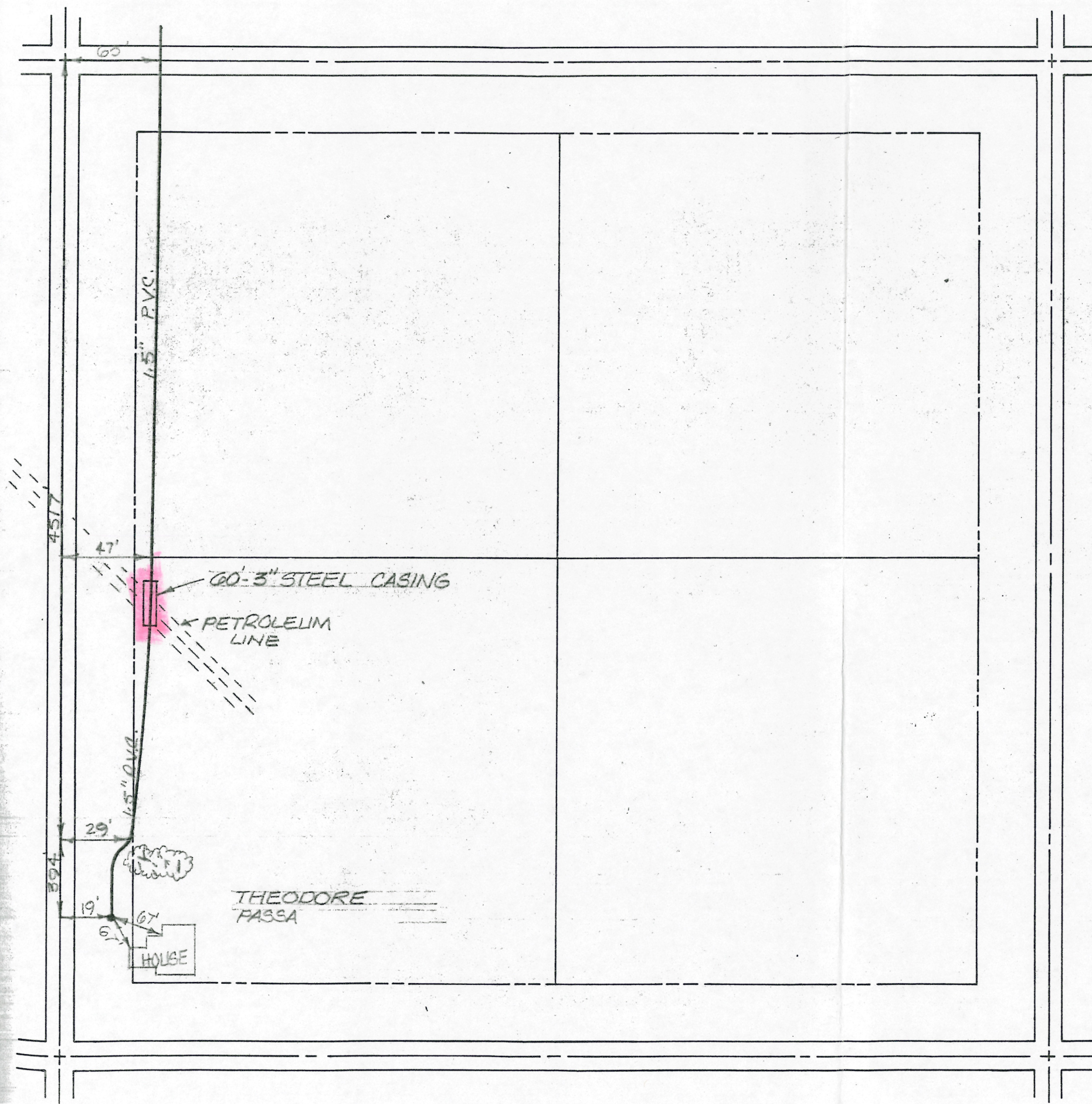


**NORTH VALLEY
WATER ASSOC., INC.**
CAVALIER, NORTH DAKOTA

DRAWN BY: **E.H.S.**
 DATE: **SEPT, 75**
 JOB NO: **244-1**
 TWP. NO. **40**
 TWP. NAME **SOUTH JOLIETTE**
 SECTION NO. **14**

K. B. MacKICHAN & ASSOCIATES, INC.
 Design Consultants

 Grand Forks, N. D. Redwood Falls, Minn.



K. B. MacKICHAN & ASSOCIATES, INC.
 Design Consultants

KBM

Redwood Falls, Minn.
 Grand Forks, N. D.

**NORTH VALLEY
 WATER ASSOC., INC.**
 CAVALIER, NORTH DAKOTA

DRAWN BY: E.H.S.

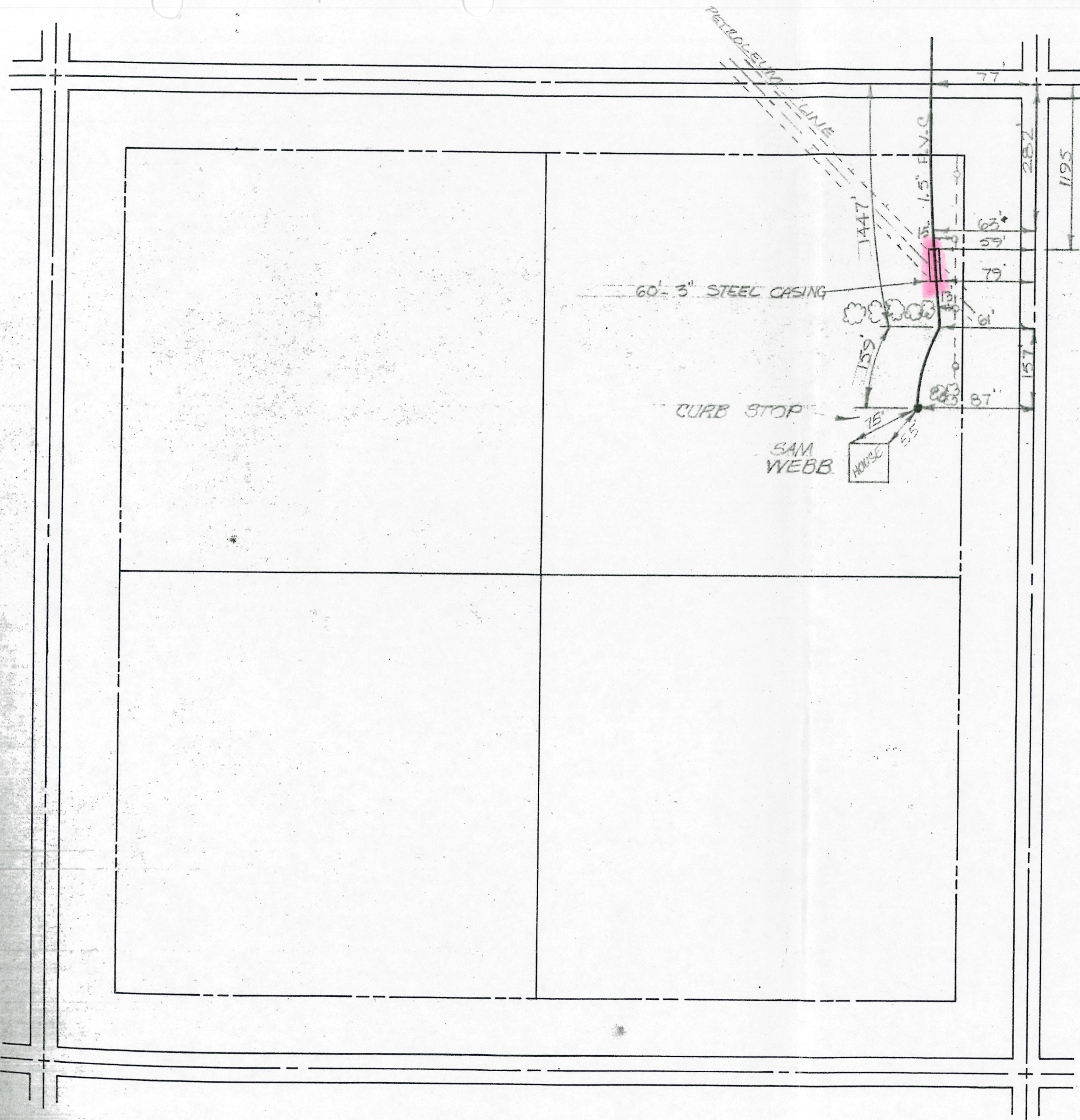
DATE: SEPT, 75

JOB NO: 244-1

TWP. NO. **40**

TWP. NAME SOUTH JOLIETTE

SECTION NO. **24**



K. B. MacKICHAN & ASSOCIATES, INC.
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Grand Forks, N. D. Redwood Falls, Minn.

**NORTH VALLEY
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DRAWN BY: **E.H.S**

DATE: **AUGUST, 75**

JOB NO: **244-1**

TWP. NO.
22

TWP. NAME
NORTH CARLISLE

SECTION NO.
23