# Information for File #MVP-2013-04017-EMN

**Applicant:** Wisconsin Public Service

**Corps Contact**: Eric Norton

**Address:** 1314 Contractors Blvd., Plover, Wisconsin 54467

**E-Mail:** eric.m.norton@usace.army.mil

**Phone:** (715) 345-7911, ext. 5879

**Primary County:** Lincoln

**Project Location:** Section 1, T. 34N, R. 6E

**Information Complete On:** December 18, 2013

**Posting Expires On:** January 18, 2014

**Authorization Type**: Section 404 - Letter of Permission (LOP)

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at http://www.mvp.usace.army.mil/.

## Project

PROJECT DESCRIPTION: Wisconsin Public Service (WPS) has proposed to upgrade approximately 2.2 miles of an existing 6-inch natural gas pipeline to a 12-inch pipe to meet increased customer needs in the service area. The existing pipeline will be abandoned in-place and the new pipeline would be installed via open-cut trench methods within the existing utility right-of-way (ROW). Timber mats would be used to obtain access for construction equipment to conduct the proposed work. The majority of the project area is comprised of upland agricultural fields, upland roadside ditches, forested wetlands, and residential property.

PURPOSE AND NEED: The purpose and need of the proposed project is to upgrade the existing utility infrastructure to meet increased customer needs within the service area.

ALTERNATIVES CONSIDERED: WPS reviewed and evaluated a total of three (3) potential routes for the proposed project in an attempt to determine which routes would meet the project purpose and need, avoid and minimize adverse effects to environmentally sensitive areas, and minimize impacts to adjacent landowners.

No Action Alternative: This alternative would result in no change to the existing pipeline. This alternative would not address the current natural gas demands of customers within the service area and would not allow one customer to convert their facility from coal to natural gas power.

Alternative 1 (A1) - Replace Within Existing ROW: The preferred alternative would utilize the existing ROW to upgrade the natural gas pipeline from a 6-inch pipe to a new 12-inch pipe as shown in blue in Figure 1 of the attached drawings. The existing 6-inch pipe would be abandoned in place and the new 12-inch pipe would be installed adjacent to the old pipeline. Minor ROW acquisitions would be needed to provide sufficient buffer for the new pipeline and would result in additional clearing and grading in uplands and wetlands within the utility corridor. This alternative would have the least amount of temporary wetland impacts and permanent conversion of wetlands within the project area. It would also be the most cost-effective alternative and would have the least amount of impact on adjacent property owners as existing utility easements are already in place.

Alternative 2 (A2) - Transmission Line Route: This alternative would utilize an existing electric transmission line ROW near the existing 6-inch natural gas pipeline as shown in green on Figure 1. The applicant has stated that there are major safety concerns with locating and installing a gas pipeline within close proximity to electric transmission lines. This alternative would have higher temporary wetland impacts and more permanent conversion of wetlands than the preferred alternative. In addition, the costs associated with this route are higher as this is a longer route than the preferred alternative.

Alternative 3 (A3) - City Road Route: This alternative would utilize portions of the existing ROW for city streets and local roads as shown in pink on Figure 1. This alternative has the longest route of the three alternatives, would have increased residential and landowner impacts from ROW acquisition and impacts to existing driveways, and would have the most temporary wetland and permanent conversion through clearing activities needed to conduct the proposed project. In addition, there are conflicts with existing City utilities and this is the most cost-prohibitive alternative.

AREA OF IMPACT: Five wetlands were delineated within the proposed project area. Approximately 0.43-acre of wet meadow would be temporarily impacted by the proposed project. In addition, approximately 0.80-acre of shrub carr, alder thicket, and hardwood/coniferous swamp would be permanently converted to fresh wet meadow wetland within the widened utility ROW. The permanent conversion of shrub carr, alder

thicket, and hardwood/coniferous swamp would be compensated for at a 0.5:1 ratio in accordance with the St. Paul District Internal Guidance for Compensating for Wetland Impacts Associated with Utility Projects. The applicant has proposed to provide compensatory mitigation for these impacts by debiting 0.4 wetland credits from the Star Wetland Mitigation Bank in Marathon County, Wisconsin.

**Drawings**

See the attached maps for alternative routes and plans for the proposed project.

# Tomahawk
# Proposed Routes

0 1,000 2,000 3,000 4,000 Feet

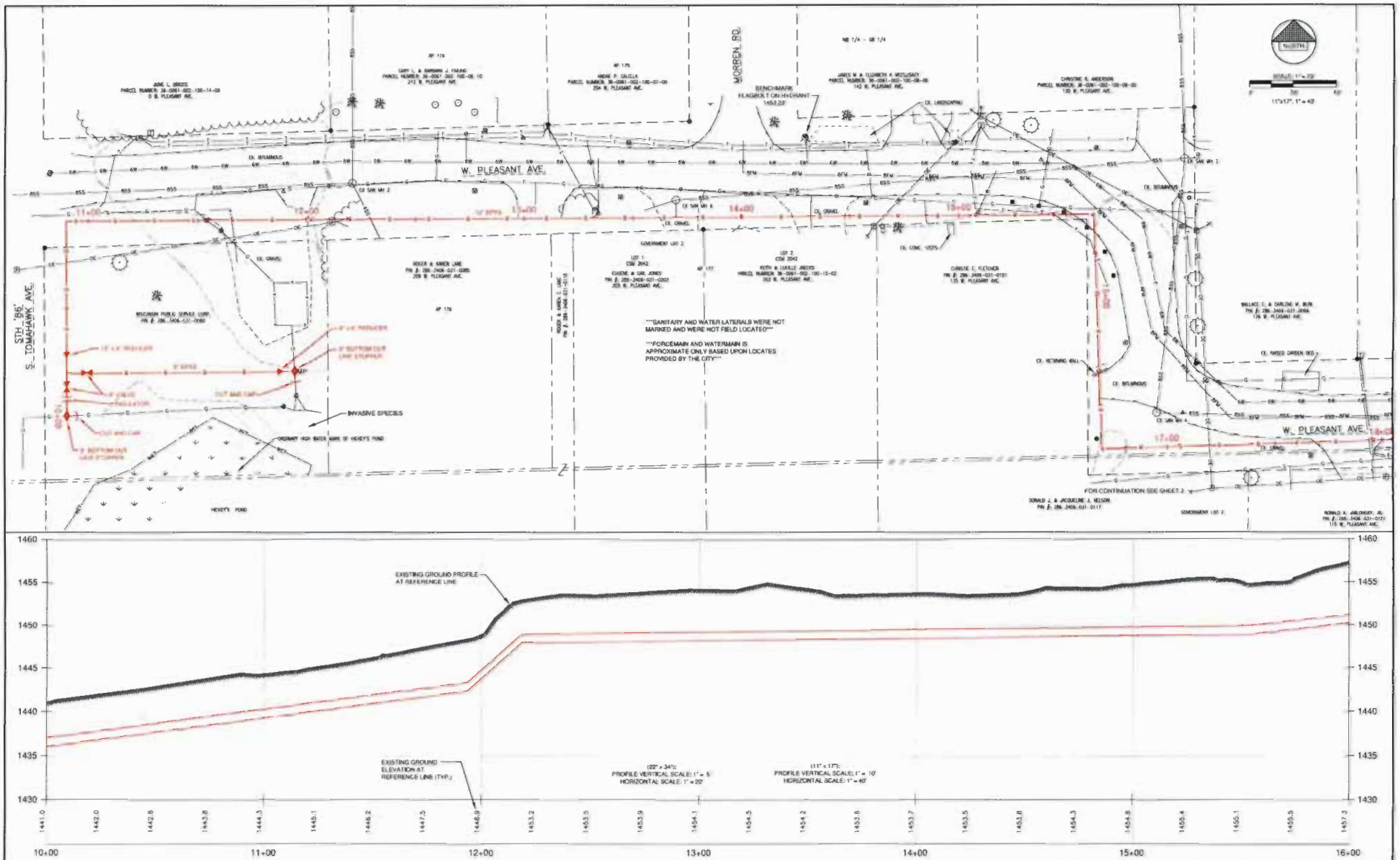
N

**Legend**

- Project Boundary
- T-LN
- T-LN 2

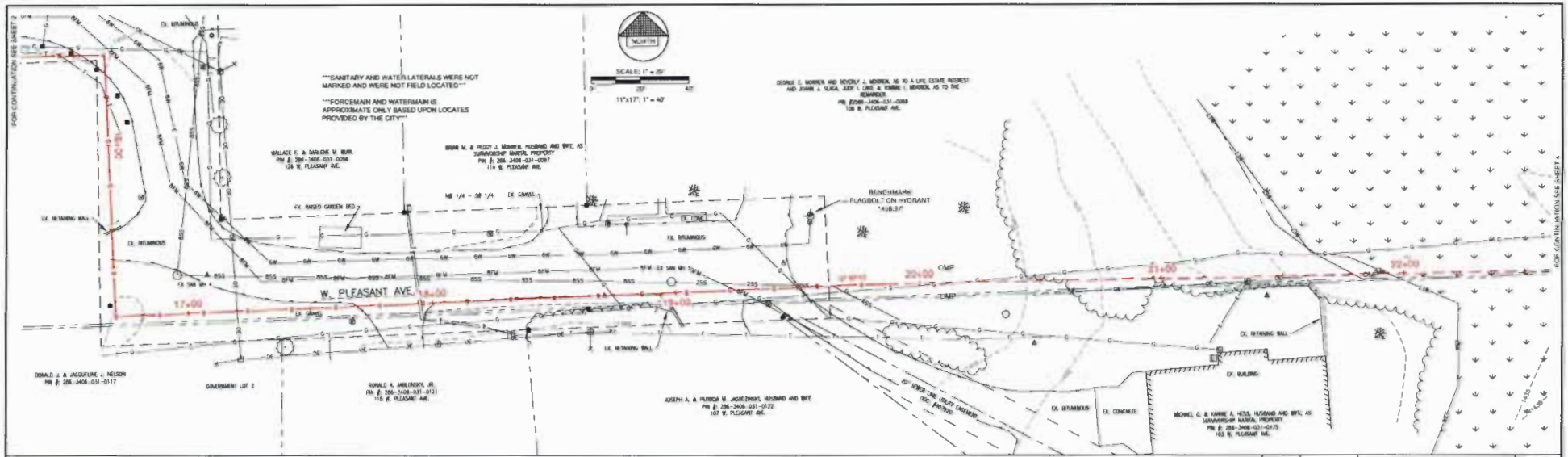
Aerial Source:

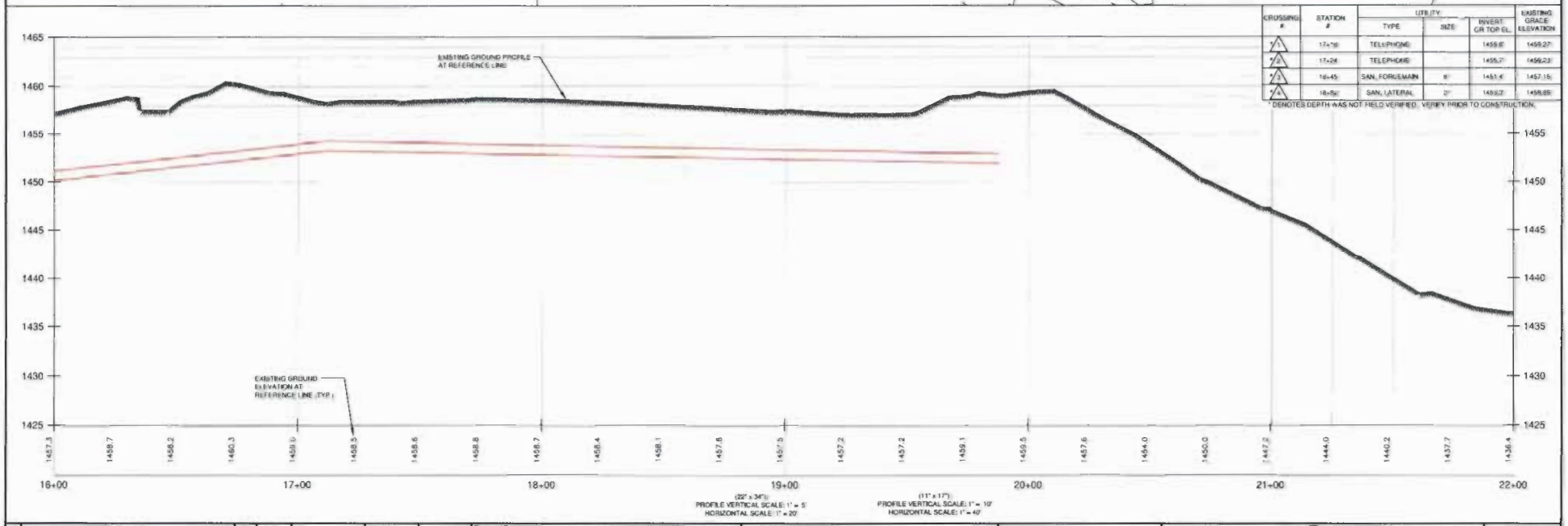
2013-04017-EMN
Page 1 of 14




| NO. | REVISIONS | BY | DATE | DES. | DATE | SCALE | Prepared By: Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 PHONE (920) 662-9641 INTERNET: www.releeinc.com FAX (920) 662-9141 | TOMAHAWK PCA GAS DISTRIBUTION LINE 10+00 - 15+50 CITY OF TOMAHAWK AND TOWN OF BRADLEY LINCOLN COUNTY, WISCONSIN | PLAN AND PROFILES | Wisconsin Public Service Corporation | 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 800-450-7260 Fax: 920-431-4815 | SHEET 2 OF X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DRN | | | | | | | | |
| | | | | CHK | | | | | | | | |
| | | | | APPD | | | | | | | | |


2013-04017-EMN
Page 2 of 14




| CROSSING # | STATION # | UTILITY TYPE | UTILITY SIZE | INVERT OR TOP EL. | EXISTING GRADE ELEVATION |
|---|---|---|---|---|---|
| *1 | 17+19 | TELEPHONE | | 1459.8' | 1459.27' |
| *2 | 17+24 | TELEPHONE | | 1455.7' | 1459.23' |
| *3 | 18+45 | SAN. FORCEMAIN | 8" | 1451.4' | 1457.16' |
| *4 | 18+52 | SAN. LATERAL | 2" | 1459.2' | 1459.89' |

* DENOTES DEPTH WAS NOT FIELD VERIFIED. VERIFY PRIOR TO CONSTRUCTION.

| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

DRN: JJH, JKR, SMTS
CHK: MS, MRS
APRD:

DATE: 07-2013

SCALE: SEE ABOVE

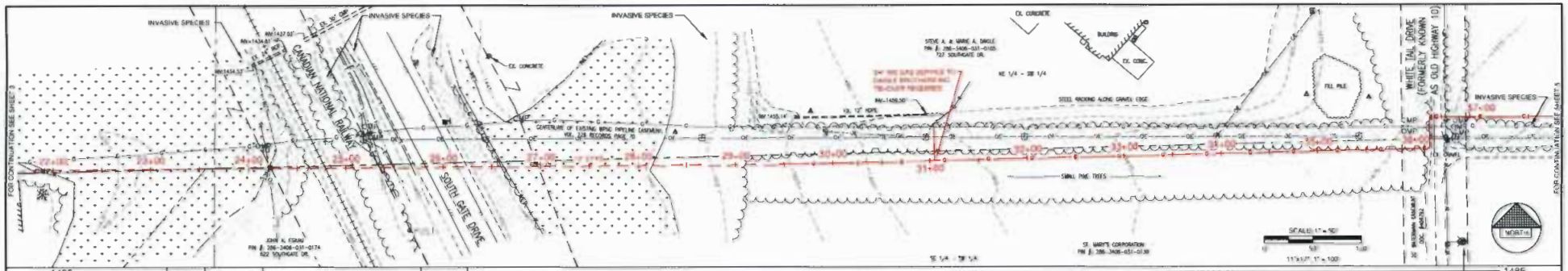
Prepared By:
**Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE (920) 662-9641
FAX:(920) 662-9141

TOMAHAWK PCA GAS DISTRIBUTION LINE
15+50 - 21+50
CITY OF TOMAHAWK AND TOWN OF BRACLEY
LINCOLN COUNTY, WISCONSIN

PLAN AND PROFILES

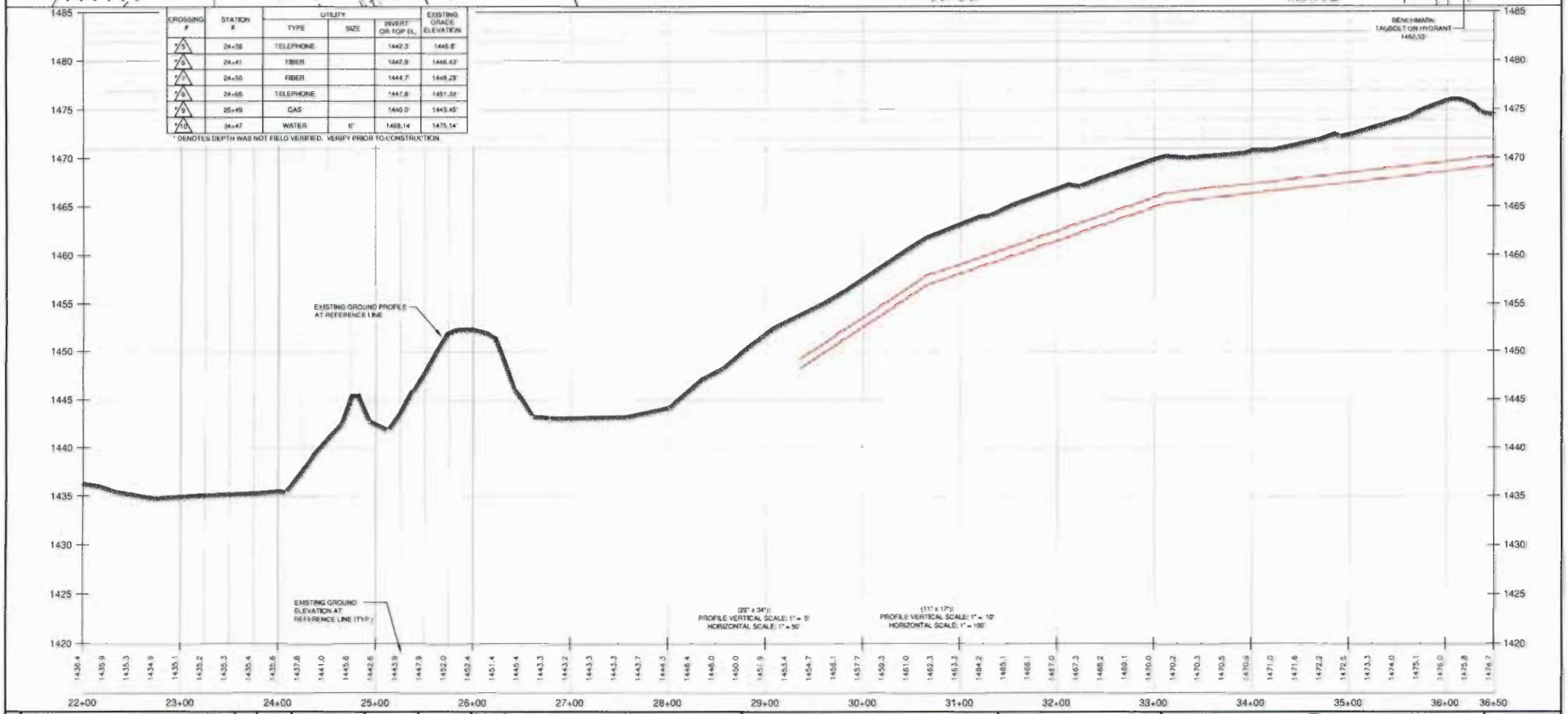
Wisconsin Public Service Corporation
Public Service
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4805

SHEET 3 OF X




| CROSSING # | STATION # | UTILITY TYPE | UTILITY SIZE | UTILITY INVERT OR TOP EL. | EXISTING GRADE ELEVATION |
|---|---|---|---|---|---|
| *5 | 24+38 | TELEPHONE | | 1442.3' | 1445.6' |
| *6 | 24+41 | FIBER | | 1442.9' | 1446.63' |
| *7 | 24+50 | FIBER | | 1444.7' | 1448.29' |
| *8 | 24+65 | TELEPHONE | | 1447.8' | 1451.38' |
| *9 | 25+49 | GAS | | 1440.0' | 1443.45' |
| *10 | 34+47 | WATER | 6" | 1468.14' | 1475.14' |

* DENOTES DEPTH WAS NOT FIELD VERIFIED. VERIFY PRIOR TO CONSTRUCTION




| NO | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

DATE: 07-2013

SCALE: SEE ABOVE

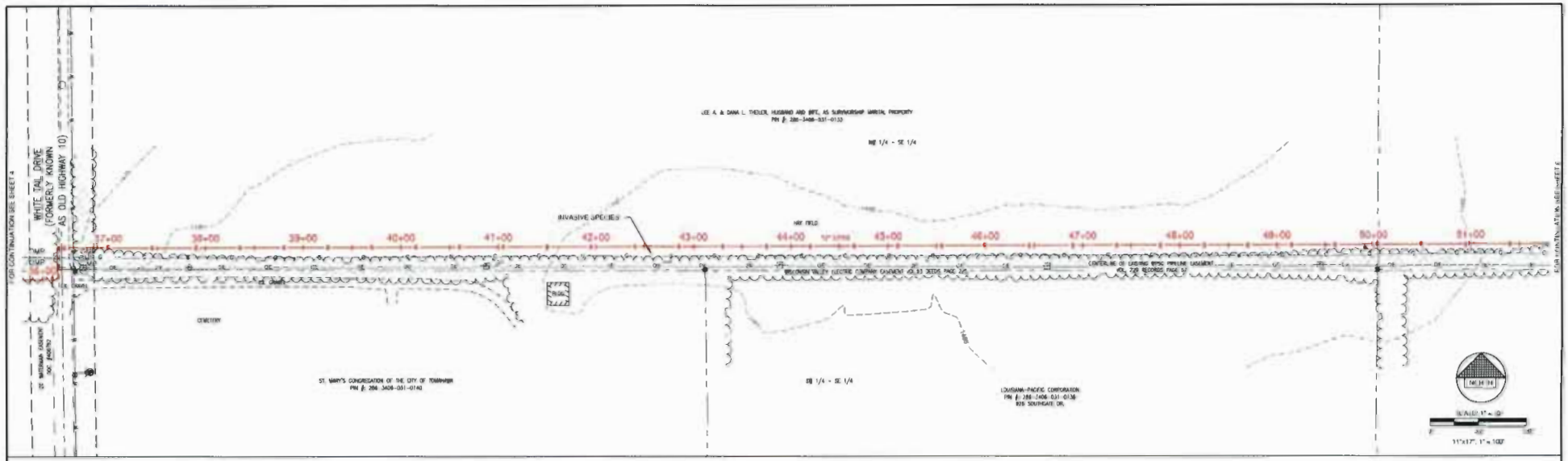
Prepared By: Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4564 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE:(920) 662-9641
FAX:(920) 662-9141

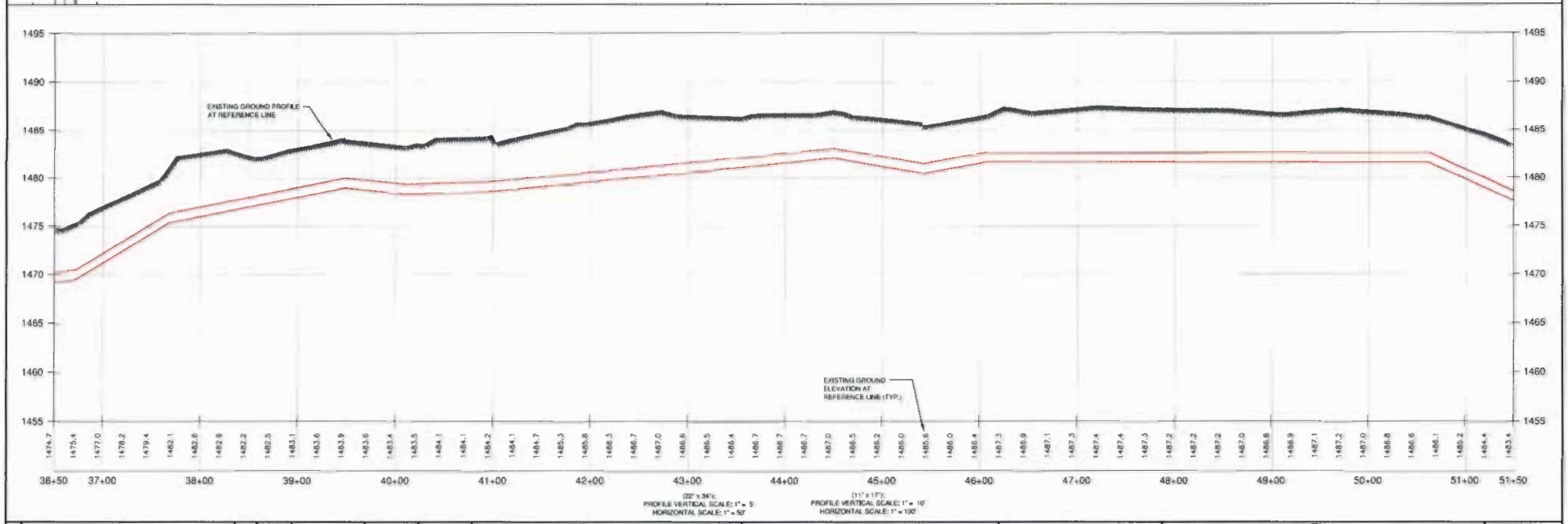
TOMAHAWK PCA GAS DISTRIBUTION LINE
22+00 - 36+50
CITY OF TOMAHAWK AND TOWN OF BRADLEY, LINCOLN COUNTY, WISCONSIN.

PLAN AND PROFILES

Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4865

SHEET 4 OF X




| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

DATE: 07-2013

SCALE: SEE ABOVE

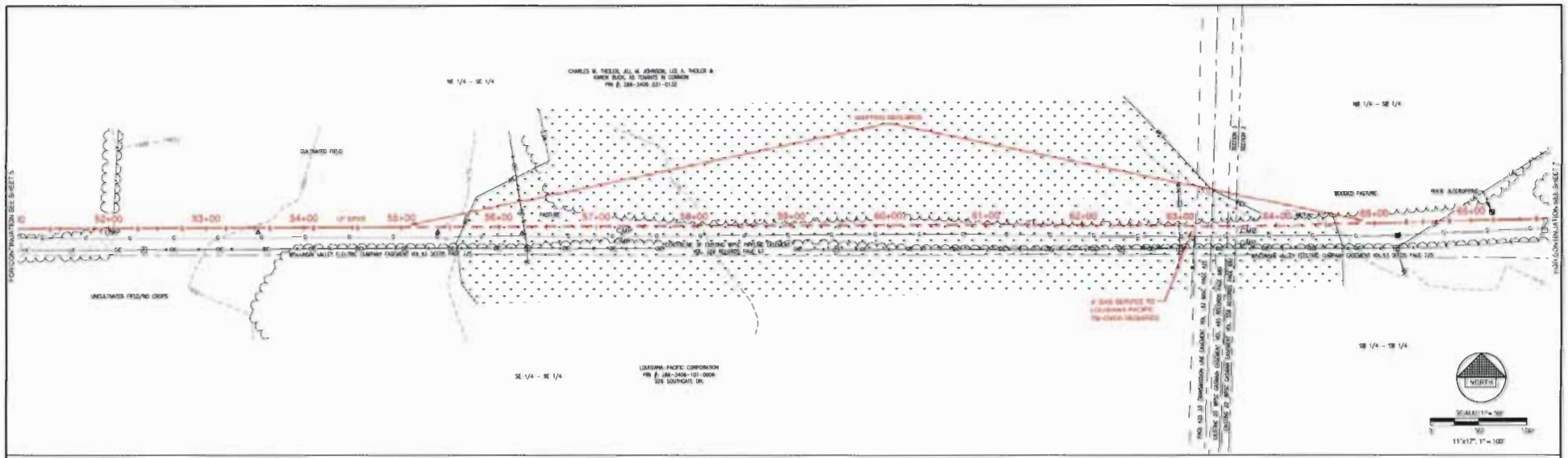
Prepared By: Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE (920) 662-9641
FAX (920) 662-9143

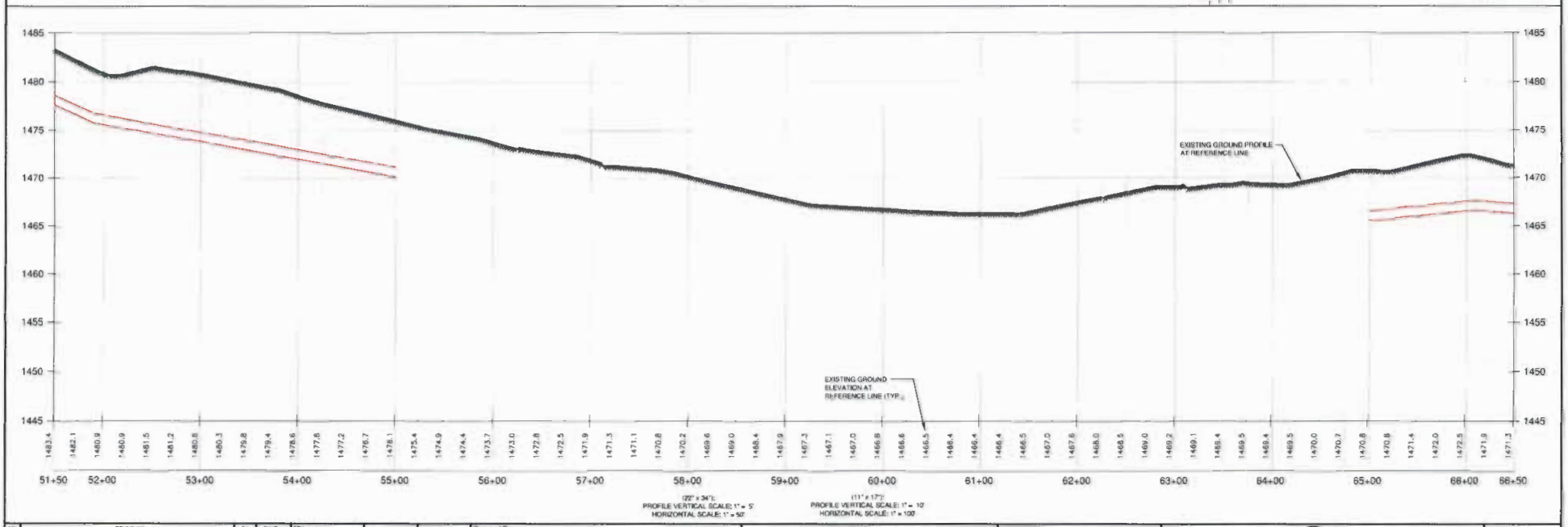
TOMAHAWK PCA GAS DISTRIBUTION LINE
36+50 - 51+50
CITY OF TOMAHAWK AND TOWN OF BRADLEY
LINCOLN COUNTY, WISCONSIN

PLAN AND PROFILES

Wisconsin Public Service Corporation
Public Service
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4815

SHEET 5 OF X




| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |

DATE: 07-2013

SCALE: SEE ABOVE

Prepared By:

**Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
PHONE: (920) 662-9641
INTERNET: www.releeinc.com
FAX: (920) 662-9141

TOMAHAWK PCA GAS DISTRIBUTION LINE
51+50 - 66+50
CITY OF TOMAHAWK AND TOWN OF BRADLEY
LINCOLN COUNTY, WISCONSIN

PLAN AND PROFILES

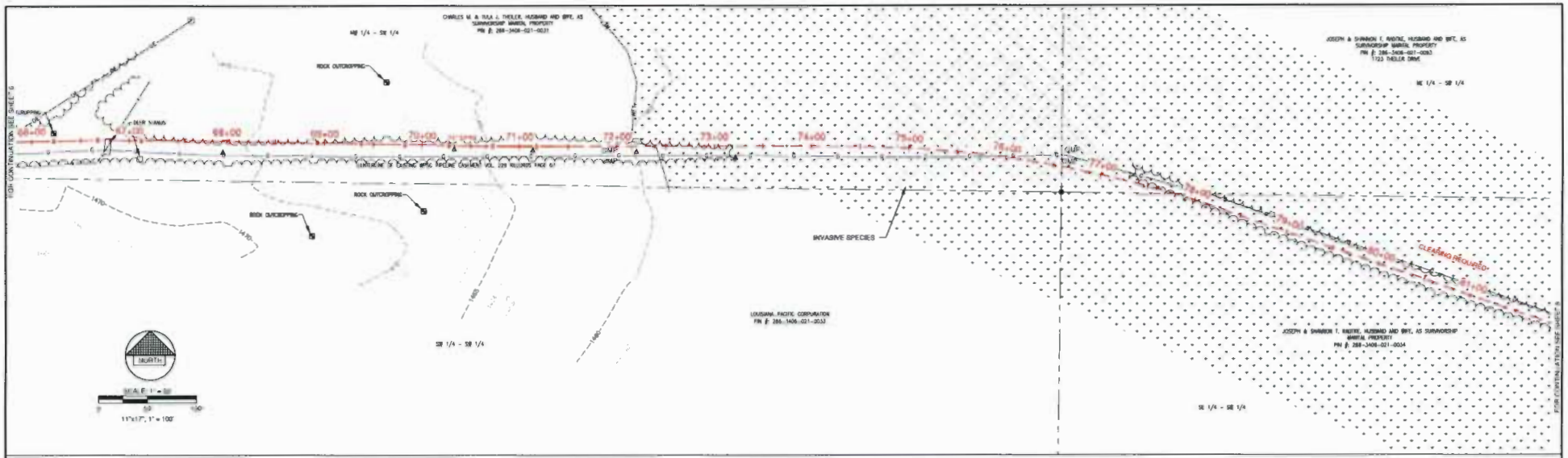
Wisconsin Public Service Corporation

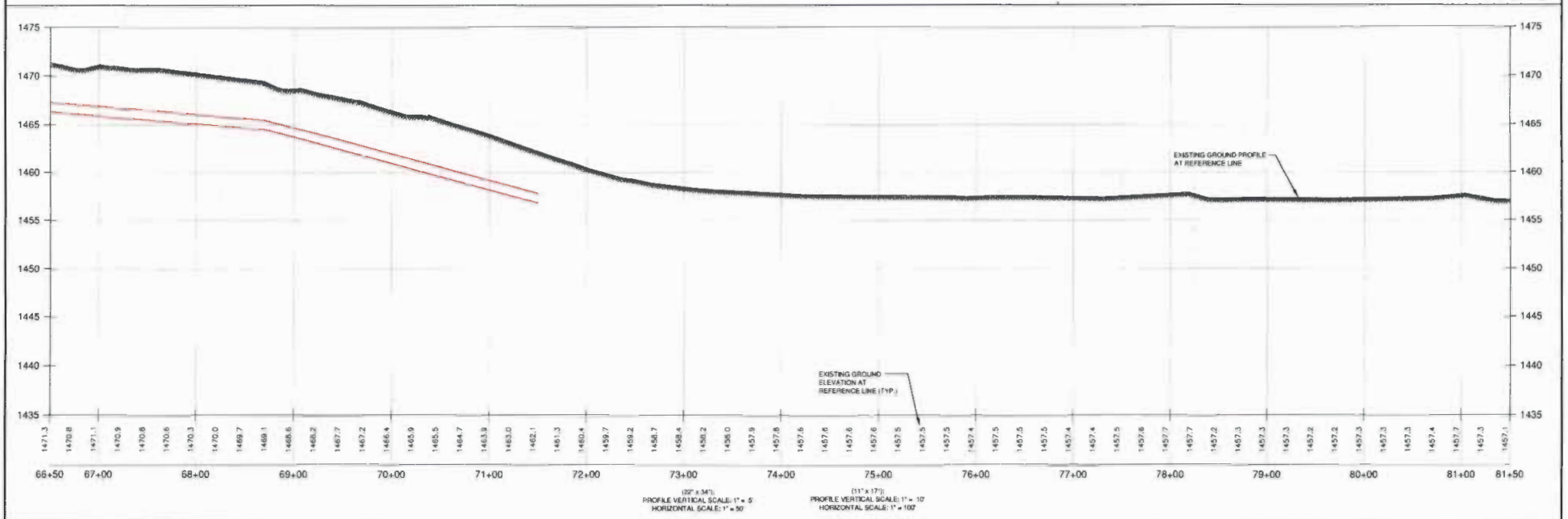
Public Service

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4893

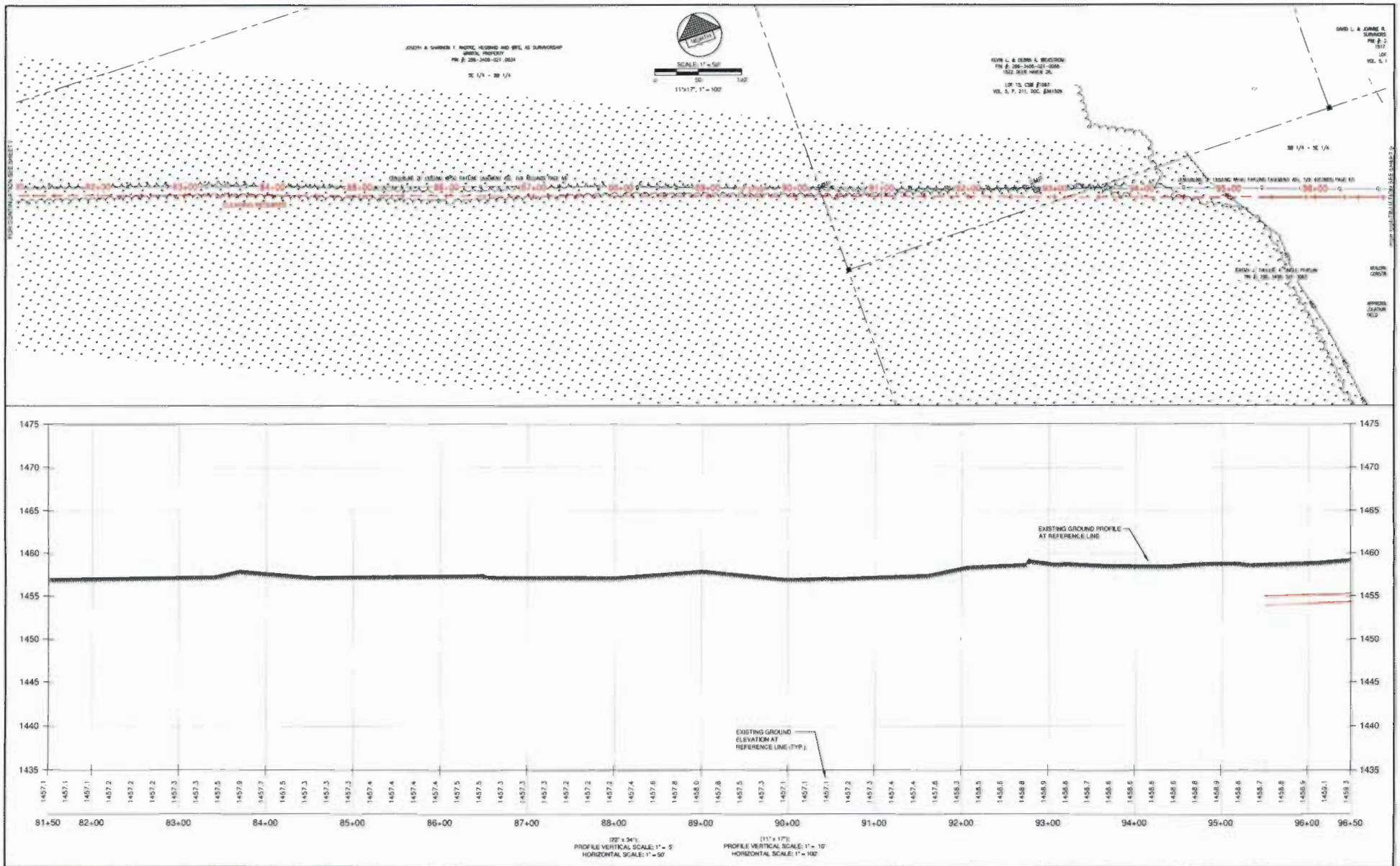
SHEET 6 OF X

2013-04017-EMN



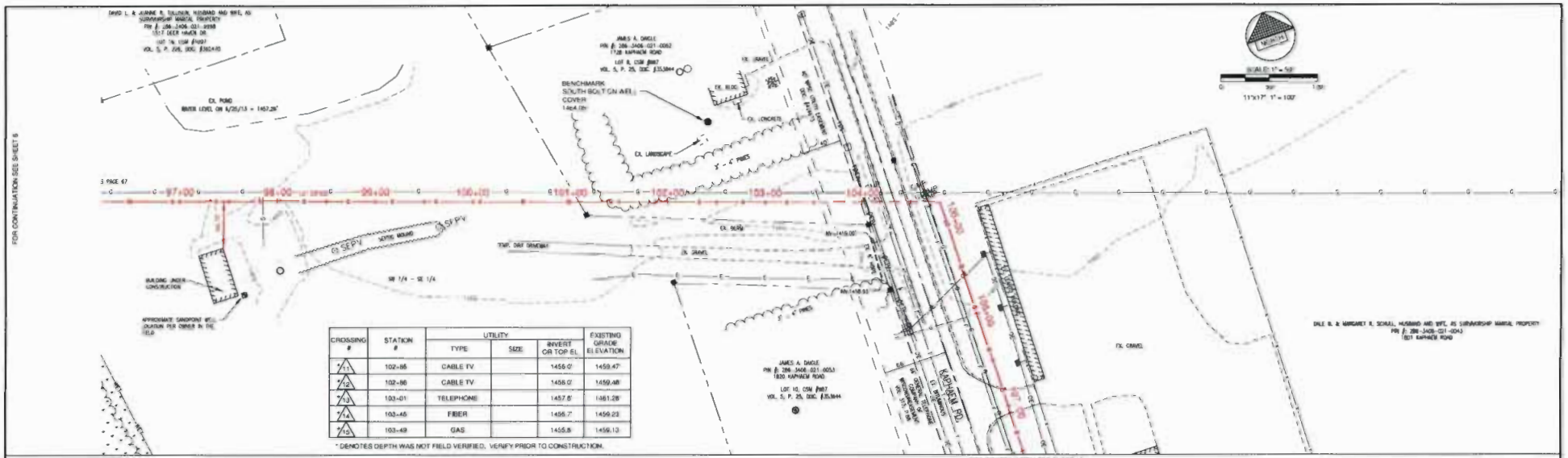




| NO. | REVISION | BY | DATE | DES. | DATE | SCALE | Prepared By | TOMAHAWK PCA GAS DISTRIBUTION LINE 66+50 - 81+50 | PLAN AND PROFILES | Wisconsin Public Service Corporation | SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DRN. | 07-2013 | SEE ABOVE | Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 INTERNET: www.releeinc.com PHONE (920) 662-9641 FAX (920) 662-9141 | CITY OF TOMAHAWK AND TOWN OF BRADLEY LINCOLN COUNTY, WISCONSIN | | Public Service 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 920-450-7260 Fax: 920-431-4815 | 7 OF X |



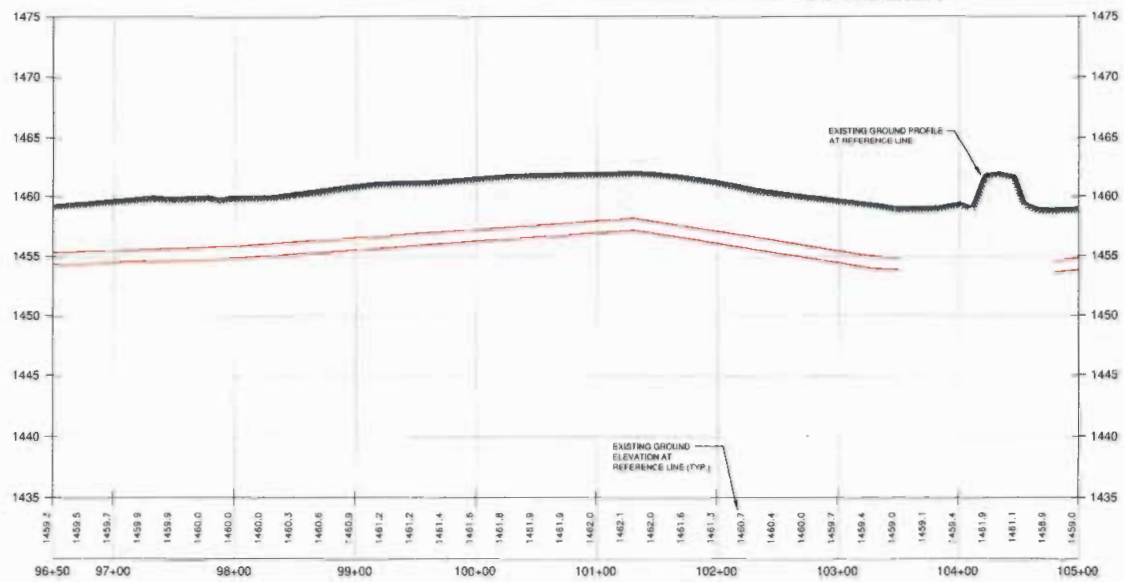

| NO. | REVISIONS | BY | DATE | DES. | DATE | SCALE | Prepared By: | TOMAHAWK PCA GAS DISTRIBUTION LINE | PLAN AND PROFILES | Wisconsin Public Service Corporation | SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DRN | 11th Ave. Suite | SEE ABOVE | Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 PHONE (920) 662-9641 INTERNET: www.releeinc.com FAX (920) 662-9141 | 81+50 - 96+50 CITY OF TOMAHAWK AND TOWN OF BRADLEY, LINCOLN COUNTY, WISCONSIN | | 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 800-450-7260 Fax: 920-431-4815 | 8 OF X |

2013-04017-EMN
Page 8 of 14




| CROSSING # | STATION # | UTILITY TYPE | UTILITY SIZE | UTILITY INVERT OR TOP EL | EXISTING GRADE ELEVATION |
|---|---|---|---|---|---|
| *11 | 102+85 | CABLE TV | | 1456.0' | 1459.47' |
| *12 | 102+86 | CABLE TV | | 1458.0' | 1459.48' |
| *13 | 103+01 | TELEPHONE | | 1457.6' | 1461.28' |
| *14 | 102+45 | FIBER | | 1456.7' | 1459.23' |
| *15 | 103+49 | GAS | | 1455.8 | 1459.13 |

* DENOTES DEPTH WAS NOT FIELD VERIFIED. VERIFY PRIOR TO CONSTRUCTION.




(22" x 34")
PROFILE VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'

(11" x 17")
PROFILE VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 100'

| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

DRN (INIT. MM/DD) CHK (INIT. MM/DD) APPD.

DATE 07-2013

SCALE SEE ABOVE

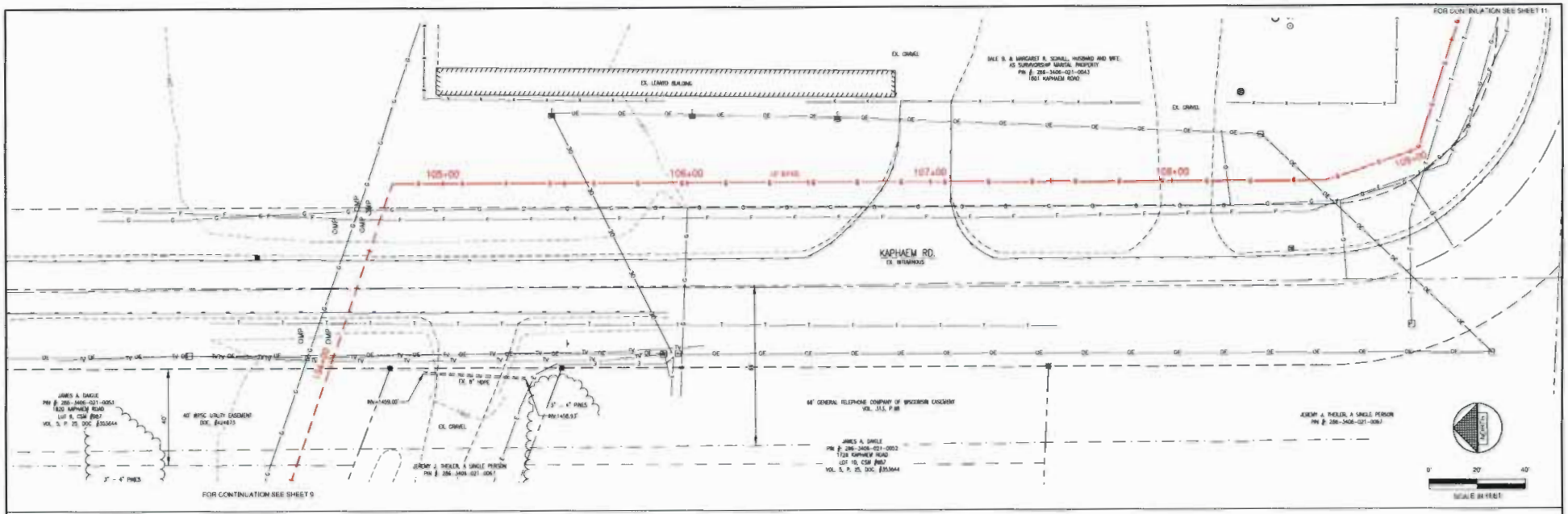
Prepared By: **Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4564 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE:(920) 662-9541
FAX:(920) 662-9141

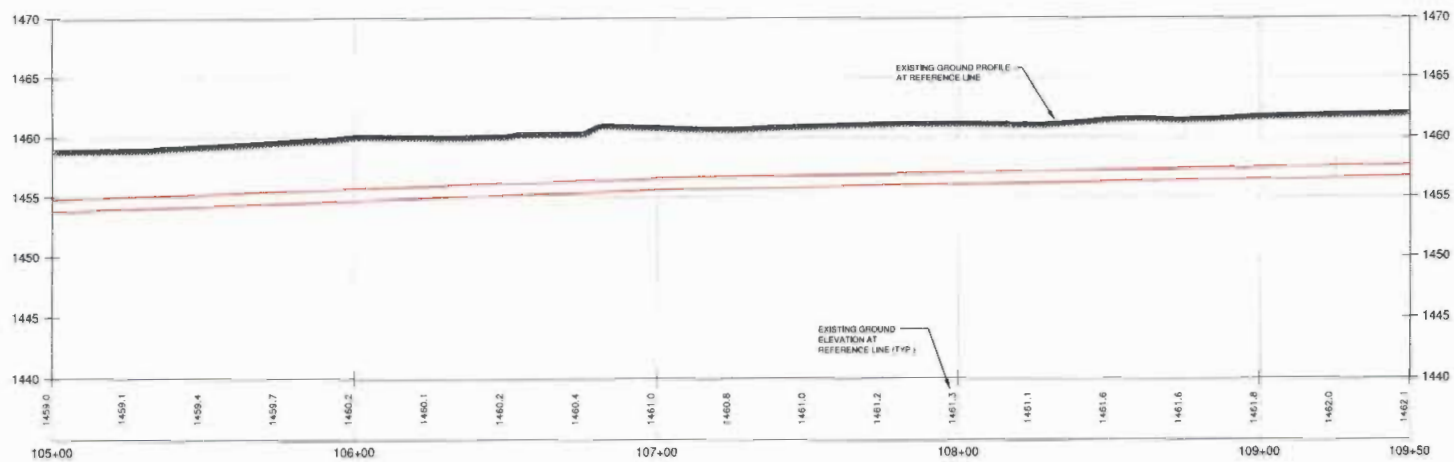
TOMAHAWK PCA GAS DISTRIBUTION LINE
96+50 - 105+00
CITY OF TOMAHAWK AND TOWN OF BRADLEY
LINCOLN COUNTY, WISCONSIN

PLAN AND PROFILES

Wisconsin Public Service Corporation
Public Service
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4805

SHEET 9 OF X

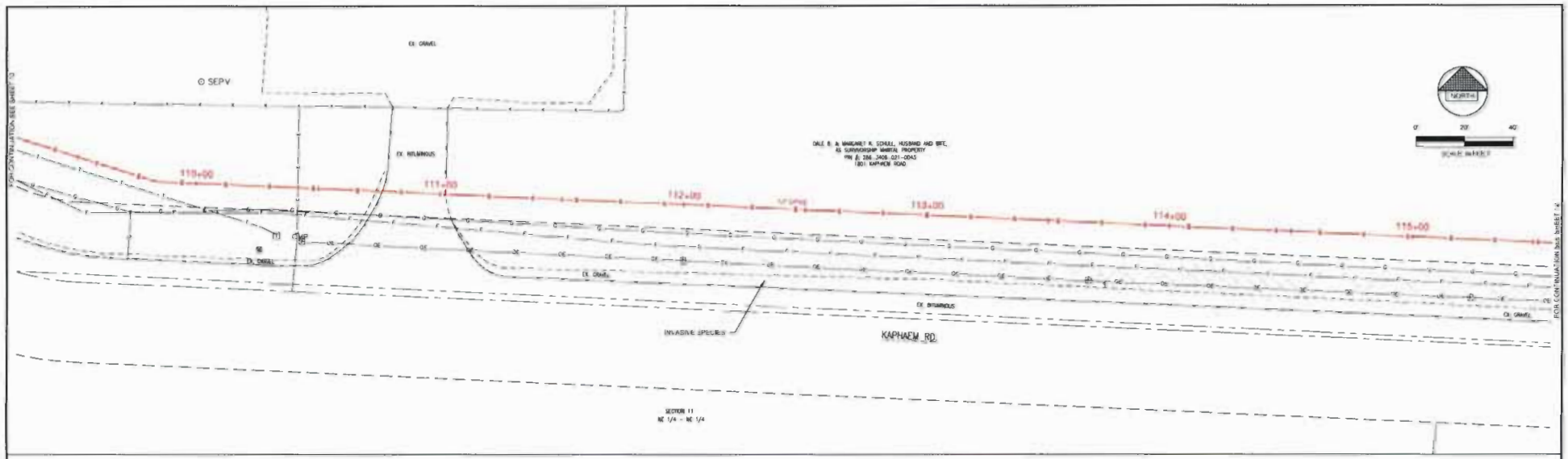


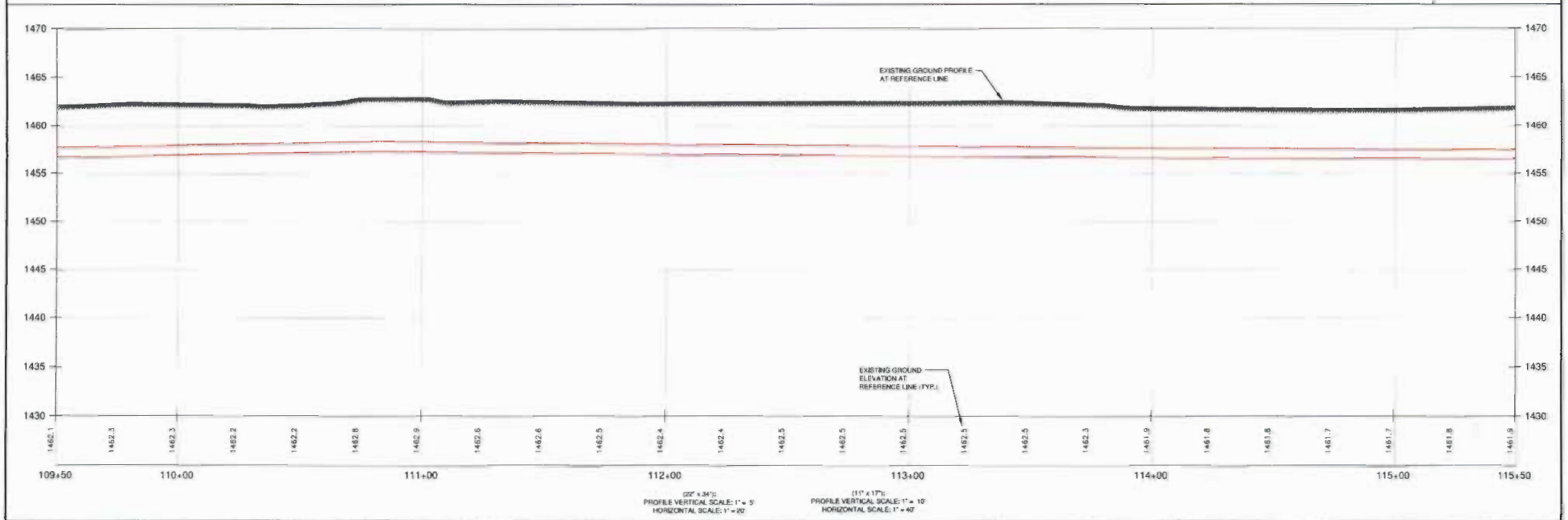




(22" x 34"):
PROFILE VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'

(11" x 17"):
PROFILE VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 40'

| NO. | REVISION | BY | DATE | DES. | DATE | SCALE | Prepared By: | TOMAHAWK PCA GAS DISTRIBUTION LINE | PLAN AND PROFILES | Wisconsin Public Service Corporation | SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DRN. | 08-2013 | SEE ABOVE | Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 PHONE:(920) 662-9641 INTERNET: www.releeinc.com FAX:(920) 662-9141 | 105+00 - 109+50 CITY OF TOMAHAWK AND TOWN OF BRAGLEY LINCOLN COUNTY, WISCONSIN | | Public Service 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 800-450-7260 Fax: 920-433-4815 | 11 OF X |
| | | | | CHK. | | | | | | | |
| | | | | APPD. | | | | | | | |




| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

DES.
DRN. (Int. Std. Dwg.)
CHK. (Ext. Std. Dwg.)
APPD.

DATE: 08-2013

SCALE: SEE ABOVE

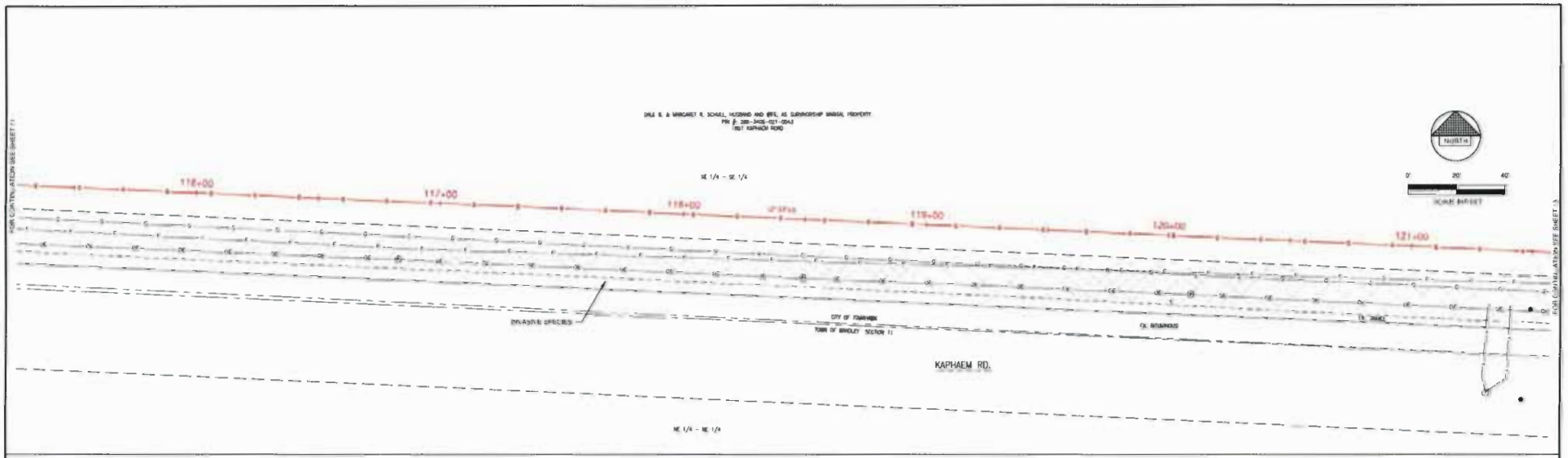
Prepared By:
**Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE (920) 662-9641
FAX (920) 662-9141

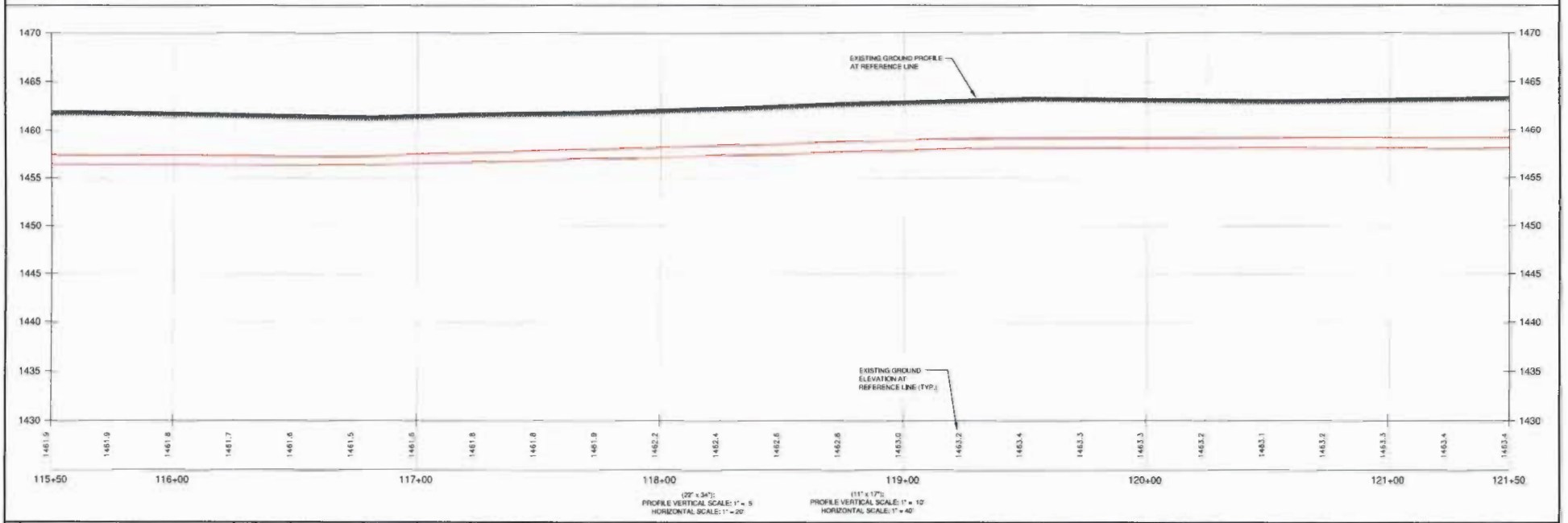
TOMAHAWK PCA GAS DISTRIBUTION LINE
109+50 - 115+50
CITY OF TOMAHAWK AND TOWN OF BRADLEY
LINCOLN COUNTY, WISCONSIN

PLAN AND PROFILES

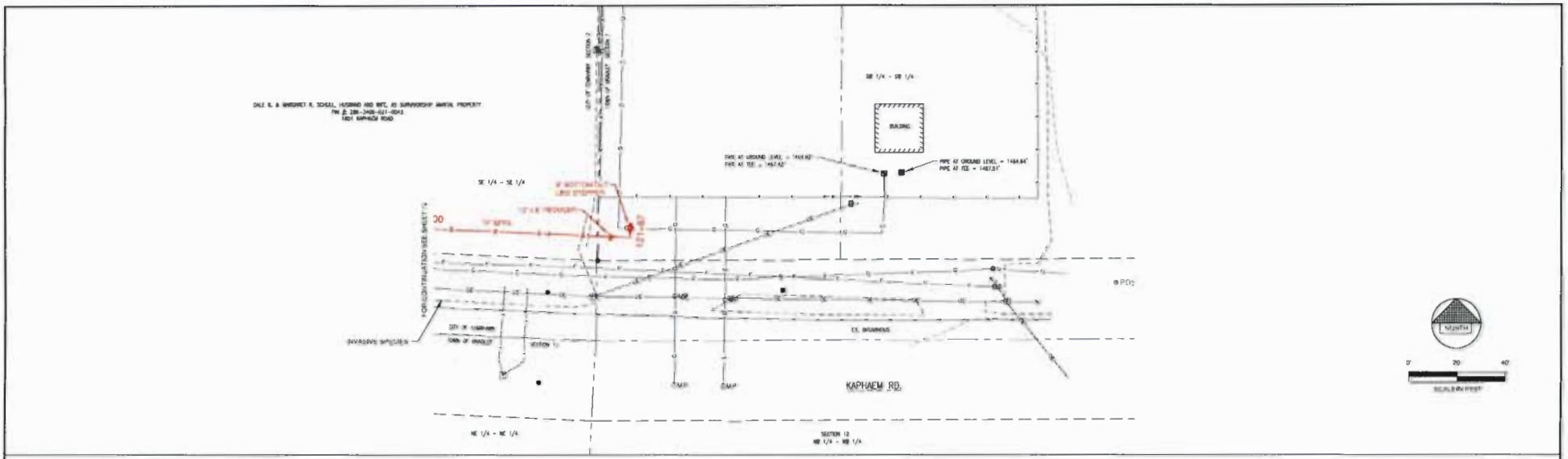
Wisconsin Public Service Corporation
Public Service
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4915

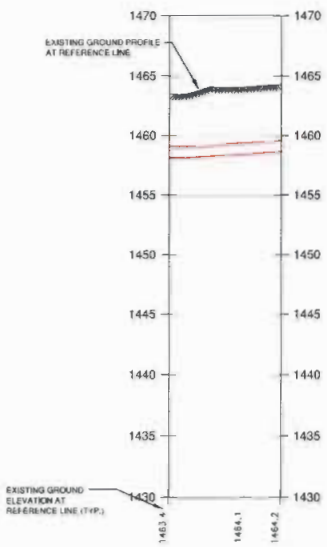
SHEET 11 OF X



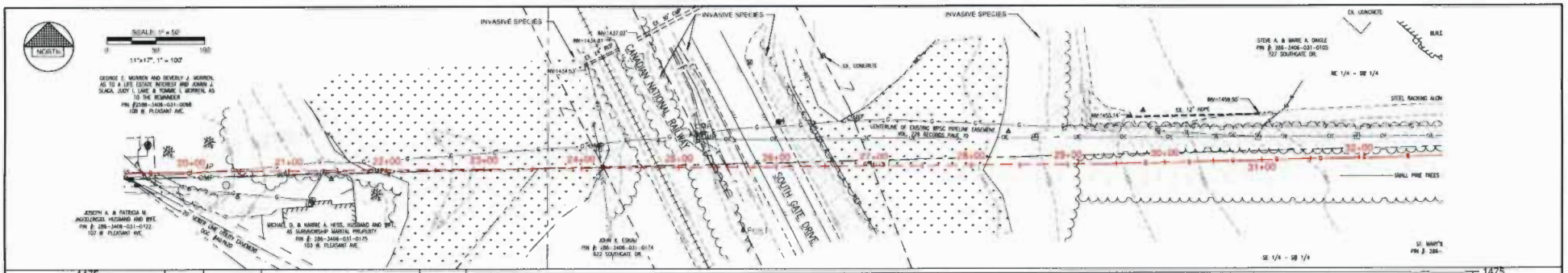

| No. | REVISIONS | BY | DATE | DES. | DATE | SCALE | Prepared By | TOMAHAWK PCA GAS DISTRIBUTION LINE | PLAN AND PROFILES | Wisconsin Public Service Corporation | SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DRN. | 08-2013 | SEE ABOVE | Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 INTERNET: www.releeinc.com PHONE (920) 662-9541 FAX (920) 662-9141 | 115+50 - 121+50 CITY OF TOMAHAWK AND TOWN OF BRADLEY, LINCOLN COUNTY, WISCONSIN. | | Public Service 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 920-450-7260 Fax: 920-431-4815 | 12 OF X |
| | | | | CHK. | | | | | | | |
| | | | | APRD. | | | | | | | |



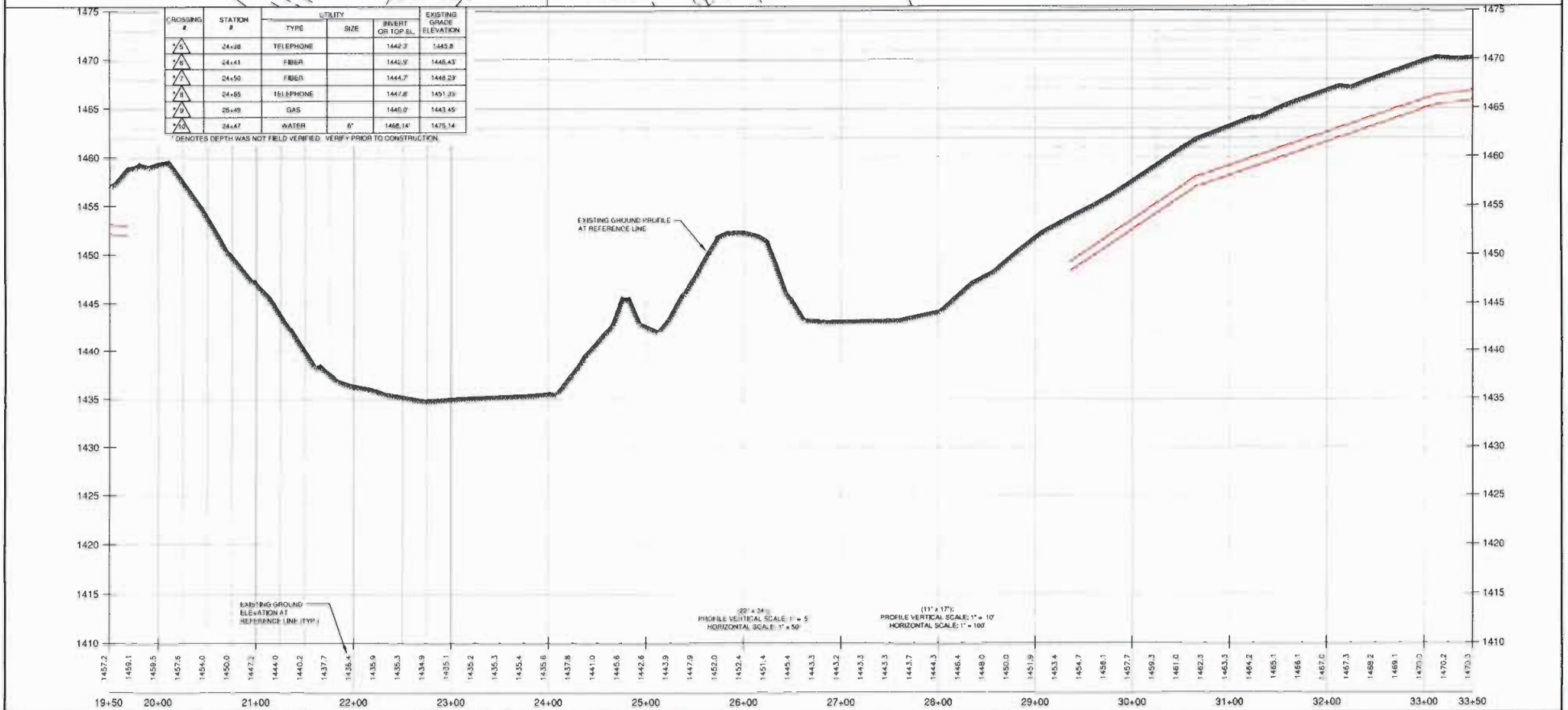

| NO. | REVISIONS | BY | DATE | DES | DATE | SCALE | Prepared By: | | | | | SHEET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | JAN | | SEE ABOVE | Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 4664 GOLDEN POND PARK COURT HOBART, WI 54155 PHONE (920) 662-9641 INTERNET: www.releeinc.com FAX (920) 662-9141 | TOMAHAWK GAS TRANSMISSION LINE 225+00 - 227+25 CITY OF TOMAHAWK AND TOWN OF BRADLEY LINCOLN COUNTY, WISCONSIN | PLAN AND PROFILES | Wisconsin Public Service Corporation | 700 North Adams Street P.O. Box 19001 Green Bay, WI 54307-9001 Phone: 800-450-7260 Fax: 920-431-4815 | 13 OF X |
| | | | | CHK | | | | | | | | |
| | | | | APPD | | | | | | | | |


2013-04017-EMN
Page 13 of 14




| CROSSING # | STATION # | UTILITY TYPE | UTILITY SIZE | INVERT OR TOP EL. | EXISTING GRADE ELEVATION |
|---|---|---|---|---|---|
| *5 | 24+28 | TELEPHONE | | 1442.3' | 1445.8 |
| *6 | 24+43 | FIBER | | 1442.9' | 1446.43' |
| *7 | 24+50 | FIBER | | 1444.7' | 1448.23' |
| *8 | 24+65 | TELEPHONE | | 1447.8' | 1451.33' |
| *9 | 25+49 | GAS | | 1440.0' | 1443.45' |
| *10 | 24+47 | WATER | 6" | 1466.14' | 1475.14 |

* DENOTES DEPTH WAS NOT FIELD VERIFIED. VERIFY PRIOR TO CONSTRUCTION.




| No. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

DES: JRN (J.H. Zelz, R.H.S.)
DWN: JMC (J.M.Ng)
REVIEW:

DATE: 07-2013

SCALE: SEE ABOVE

Prepared By: **Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
4664 GOLDEN POND PARK COURT
HOBART, WI 54155
INTERNET: www.releeinc.com
PHONE:(920) 662-9641
FAX:(920) 662-9141

TOMAHAWK GAS TRANSMISSION LINE
19+50 - 33+50
CITY OF TOMAHAWK AND TOWN OF BRADLEY,
LINCOLN COUNTY, WISCONSIN.

PLAN AND PROFILES

Wisconsin Public Service Corporation

Public Service

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
Phone: 800-450-7260 Fax: 920-433-4805

SHEET
FLOWAGE
OF
X