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|-------|--------------------|-------|-------------|-----------|
| STATE | PROJECT NO. | PCN | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 20890 | 1 | 1 |

JOB #
NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

SOIB-7-804(054)312

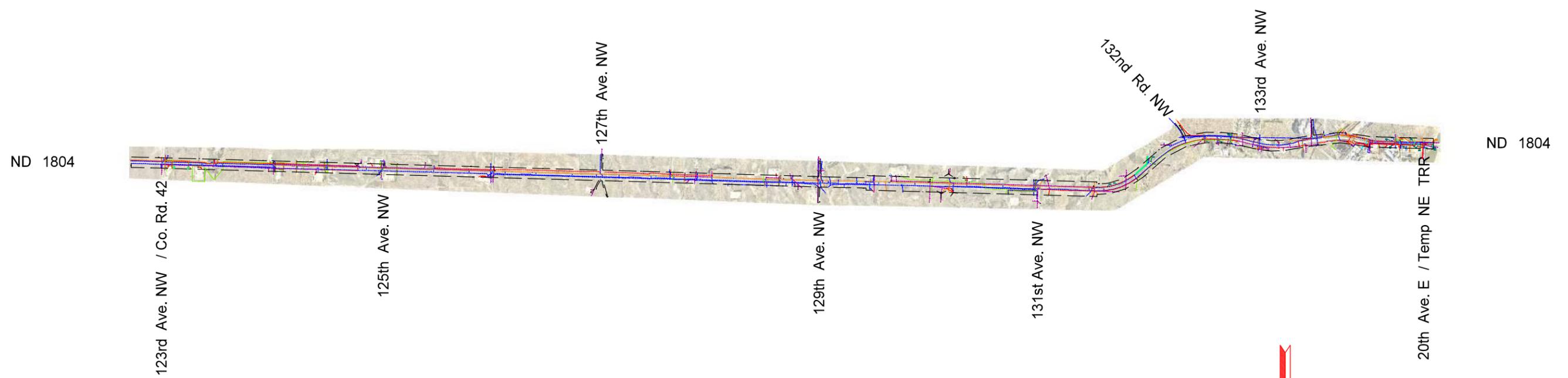
Williams County
CO RD 42 - Epping to Temp NE TRR

GOVERNING SPECIFICATIONS:
2014 Standard Specifications adopted by the North Dakota Department of Transportation and the Supplemental Specifications effective on the date the project is advertised.

CI/ASCE 38-02 Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data.

| | | |
|-------------------------------------|------------------|--------------------|
| <u>PROJECT NUMBER \ DESCRIPTION</u> | <u>NET MILES</u> | <u>GROSS MILES</u> |
| SOIB-7-804(054)312 | | |

EXISTING UTILITY PLANS
Utilities Designated in accordance with CI/ASCE 38-02 Guidelines

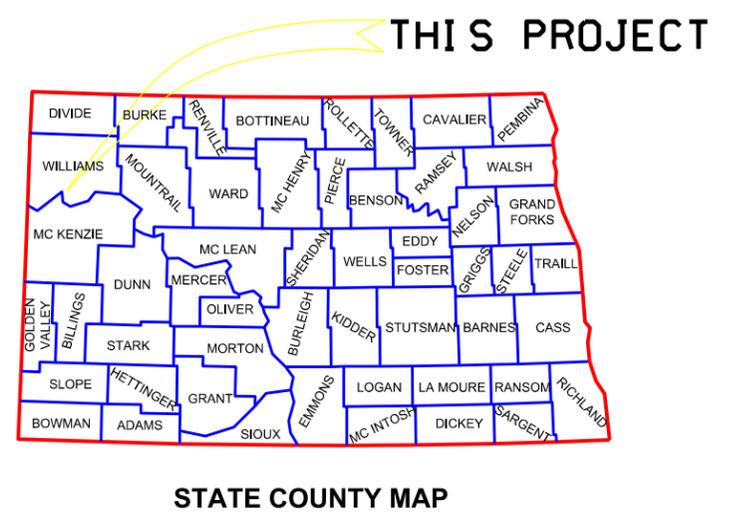


Utility Survey Data is based on an Engineering Survey.

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9 Legal Tender Ln.
Clancy, MT 59634
(406) 933-5300

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| Checked: | RLK | Proj. No. | REV. 1 |

| | |
|------------------|--|
| DESIGNERS | |
| Rodney L. Kent | |
| Nathan Greer | |
| | |
| | |
| | |



THE SUE PROJECT LIMITS HAVE BEEN NOTED ON SHEETS 4 - 30. COVERAGE OF SOME UTILITIES MAY EXTEND OUTSIDE THESE LIMITS AS PRACTICAL TO CAPTURE SURFACE FEATURES AND/OR COMPLETE THE UTILITY ALIGNMENTS. A POSSIBILITY EXISTS ADDITIONAL UTILITIES LOCATED OUTSIDE THE SUE PROJECT LIMITS ARE NOT SHOWN ON THESE PLANS.

DISTRICT REVIEW

DE or Assistant DE or Proj Eng

DISTRICT NAME _____

APPROVED DATE NDDOT Approval Date

NDDOT Approval Name

OFFICE OF PROJECT DEVELOPMENT
ND DEPARTMENT OF TRANSPORTATION

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE _____

UTILITY MAPPING SERVICES, INC.

NDDOT DIV-DIST OR CONSULTANT FIRM

This document was originally issued and sealed by Rodney L. Kent Registration Number PE- 9700 , on 2/3/2016 and the original document is stored at the North Dakota Department of Transportation

Survey Information:

This plan set shows subsurface and aerial utilities as of November 2015. This data is time sensitive and subject to change. The engineering survey of the surface features and field delineated buried utilities was completed by UMS, Inc personnel. NDDOT approved survey control was used to tie all survey data to the project coordinate system. Following survey operations all data was converted per NDDOT standards using the Williams County conversion. The transcription of survey data to the CADD plans was completed by UMS, Inc.

Subsurface Utility Engineering (SUE) Notes:

For this project, UMS Inc. was responsible for the field designating of the existing buried utilities to the extent practical and as detailed in the authorized scope of work for this project. User's of this data set must understand and adhere to the limitations associated with the designated Quality Levels assigned to the depicted facilities.

UMS, Inc. recommends that vacuum excavations or other nondestructive methods are used to obtain 3D data on utilities in potential conflict with proposed design and construction.

UMS, Inc. strongly recommends users of this data become orientated with the CI/ASCE 38-02 standard guidelines and the corresponding data limitations inferred by the designated Quality Levels prior to employing the data set for design purposes. In addition, the SUE report(s) for this project must always accompany the existing utility reference CADD file to ensure proper interpretation and usage of the data set.

SUE Quality Levels:

SUE Phase I (Designating) and Phase II (Locating) activities allow for the assignment of CI/ASCE 38-02 "Quality Levels" to the mapped underground utilities. The following four Quality Levels are used to identify the degree of accuracy to which the utilities are mapped:

Quality Level D (QL D): Information derived from existing records and/or oral recollections. This information is adequate for rudimentary planning or background purposes only.

Quality Level C (QL C): Information obtained by surveying and plotting visible above ground utility features and by using professional judgment in correlating this information to QL D data. Use of this information alone may result in 15 - 30% of underground utilities omitted or mapped with more than two feet of error, according to FHWA studies.

Quality Level B (QL B): Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. QL B data should be reproducible by surface geophysics at any point of their depiction. This information is surveyed to applicable tolerances defined by the work scope and reduced onto plan documents.

Quality Level A (QL A): Precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of the subsurface utility at a specific point. Vacuum excavation equipment is typically used to minimize the potential for utility damage. A precise horizontal and vertical location as well as other utility attributes are shown on plan documents.

Note - QL B results (the position of the designating marks (i.e. paint)) can be influenced by factors beyond UMS's control, such as conductivity of materials and their surroundings, moisture, proximity of other underground utilities or structures, utility depth, etc.

Disclaimer

A possibility exists that abandoned, forgotten, non-detectable, undocumented or newly installed utilities may not get mapped using standard geophysical survey procedures.

This information is for design purposes only. Markings placed on the ground by UMS personnel are not intended to be used for excavation purposes. The use of this information by others does not relieve a contractor from the duty to comply with applicable utility prevention damage laws and regulations, including but not limited to, giving notifications to utility owners or "One Call/ Call Before You Dig (811)" prior to construction.

Refer to CI/ASCE 38-02 Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data for more detailed information and descriptions regarding the SUE process.

Note: Nemont did not allow UMS field crews access to their facilities; all utility locating/markings was completed by Nemont personnel or their subcontractor. As such, UMS is not responsible for missing or mis-marked Nemont installations depicted in this set of drawings.

Existing Utilities Plan Legend:

| | | |
|--|--|---|
| | G | Existing Gas Pipe |
| | PL | Existing Fuel/Petroleum Pipeline |
| | OH | Existing Overhead Utility Line(s) |
| | E | Existing Electrical (Buried) |
| | FO | Existing Fiber Optic Line |
| | T | Existing Telephone Line |
| | W | Existing Water or Steam Line |
| | | Existing Misc. Feature (Buried) |
| | | Existing Culvert |
| | SAN | Existing Sanitary Sewer (Gravity) |
| | SAN FM | Existing Sanitary Force Main |
| | SD | Existing Storm Drain |
| | Power Pole | Power Pole w/ Transformer |
| | Light Pole | Pedestrian Push Button Post |
| | Curb Inlet | Catch Basin Drop Inlet |
| | Storm Drain Manhole | Manhole Undefined |
| | Sanitary or FM Sanitary Manhole | Sanitary Manhole with Valve |
| | Telephone Manhole or Fiber Optic Hand Hole | Telephone Pedestal, Cabinet or Repeater |
| | Power Pedestal, Cabinet or Locker | Electric Meter |
| | Gas or Fuel Vent Pipe | Gas or Fuel Manhole |
| | Water Main, Water Service or Air Release Valve | Fire Hydrant |
| | Water Vent Pipe | Well or Monitoring Well |
| | Radio or Communications Tower | Railroad Crossing Signal Arm |
| | Standard Signal, Traffic Signal or General Pole, | Traffic Signal Control Cabinet |
| | Inlet Manhole | Pull Box |
| | Gas Valve | Water Manhole |
| | Utility Marker | |

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 6 | 2 |

Utility Ownership Table:

| Utility | Utility Type | Contact | Phone/Email/Notes |
|--|---|---|---|
| Bull Moose Pipeline, LLC | Water | Chris Anderson | canderson@behangroup.com 701-580-2395 |
| City of Williston | Storm, Sanitary, Traffic Signals, Street Lighting | Bob Hanson | 701.577.6368 |
| Kinder Morgan | Natural Gas, Crude | Ross Forrest (Locator) | Ross_Forrest@kindermorgan.com 701.609.9079 |
| Montana Dakota Utilities | Gas, Power & Fiber Optic | Paul Riely (District Gas Supt.) | Paul.Riely@mdu.com 406.896.4205 |
| Mountrail / Williams Electric Co-op | Power | Josh Heredia | JoshH@mwec.com 701-577-3765 |
| Nemont Telephone Co-op (Missouri Valley Co.) | Communications | Jim Backman | Jim.Backman@nemont.coop 406.783.2320 |
| Northwest Communications (NCC) | Communications | Todd Watterud | ToddW@nccray.com 701-568-3331 |
| Oneok Rockies Midstream | Natural Gas | Jason Hartwig, Duane Schiwall (Locator) | Jason.Hartwig@oneok.com 701.875.3712 Duane.Schiwall@oneok.com 701.770.0117 |
| Plains All American | Petroleum | Jess W Burman (Locator), Daren Ellingson | JWBurman@paalp.com 406.433.4331 DEllingson@paalp.com 406.433.4331 |
| Stat Oil (Brigham Oil and Gas) | Petroleum, Natural Gas, Water, Salt Water | Josh Skluzacek, Duane Haugen | JSklu@statoil.com 701.875.3501 DuaH@statoil.com 701.214.0682 |
| Summit Midstream | Petroleum | Summit Midstream, Kelly Rogers (Precision Locating) | 701.500.2189 kelly@precisionlocates.com 701.721.8232 |
| Western Area Water Supply Authority | Water (Proposed) | David Bauer (AE2S) | David.Bauer@AE2S.com 701.774.3080 |
| Williams Rural Water | Water | Keith Hatter | KeithHatter@nemont.net 701.774.8915 |
| Zavanna, LLC | Salt Water | Colin Brown | 303.829.5018 cbrown@zavanna.com |
| 1804 LTD | Petroleum, Natural Gas | Kelly Rogers (Precision Locating) | kelly@precisionlocates.com 701.721.8232 |

Utility Type and Phase I Quality Level Results:

| Utility Type (Buried) | Mains & Primary Laterals Mapped | Services and Secondary Laterals Mapped |
|-------------------------|--|--|
| Storm Drain | QL A at manholes and inlets, QL C between accessible features | QL A manholes, inlets and outfalls; QL C between accessible features |
| Sanitary Sewer | QL A at manholes and inlets, QL B, C and D between accessible features | N/A |
| Culverts | QL A at exposed culvert ends, QL C | N/A |
| Telecommunications | QL A for surface features, QL B, C and D | QL B, C and D |
| Cable Television | N/A | N/A |
| Natural Gas | QL B, D | QL B, D |
| Traffic Signals | QL A for surface features, QL B | N/A |
| ATMS | N/A | N/A |
| Lighting | QL A for surface features, QL B | N/A |
| Water Mains | QL A for surface features, QL B, C and D for pipelines | QL B, C and D |
| Power | QL A for surface features, QL B and D | QL A for surface features, QL B |
| Irrigation | N/A | N/A |
| Oil | QL B, C and D | N/A |
| Military Communications | N/A | N/A |

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Call before you Dig.
1-800-795-0555
UTILITY NOTIFICATION CENTER

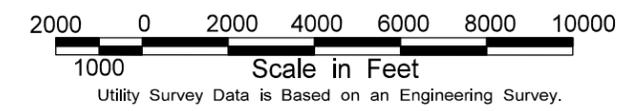
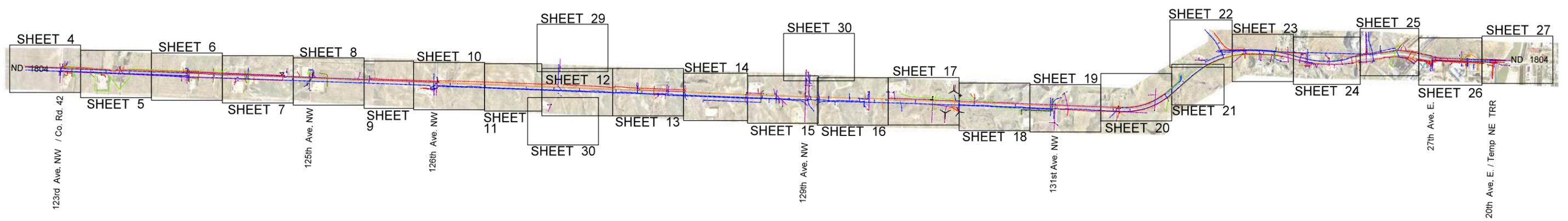
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9 Legal Tender Ln.
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(406) 933-5300

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| Drawn: NWG | Horiz. Scale | Vert. Scale |
| Checked: RLK | Proj. No. | REV. 1 |

* All UMS survey information obtained during the SUE investigation is based on an Engineering Survey.
** Unless otherwise noted, all aerial installation depictions are based on surveyed pole locations and apparent cable/conductor connectivity as observed and logged by UMS field crews.

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 80 | 3 |

Existing Utilities Plan Sheet Index





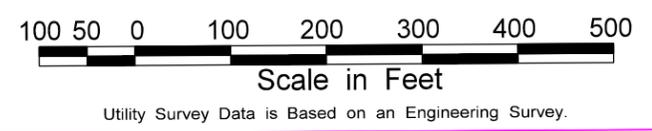
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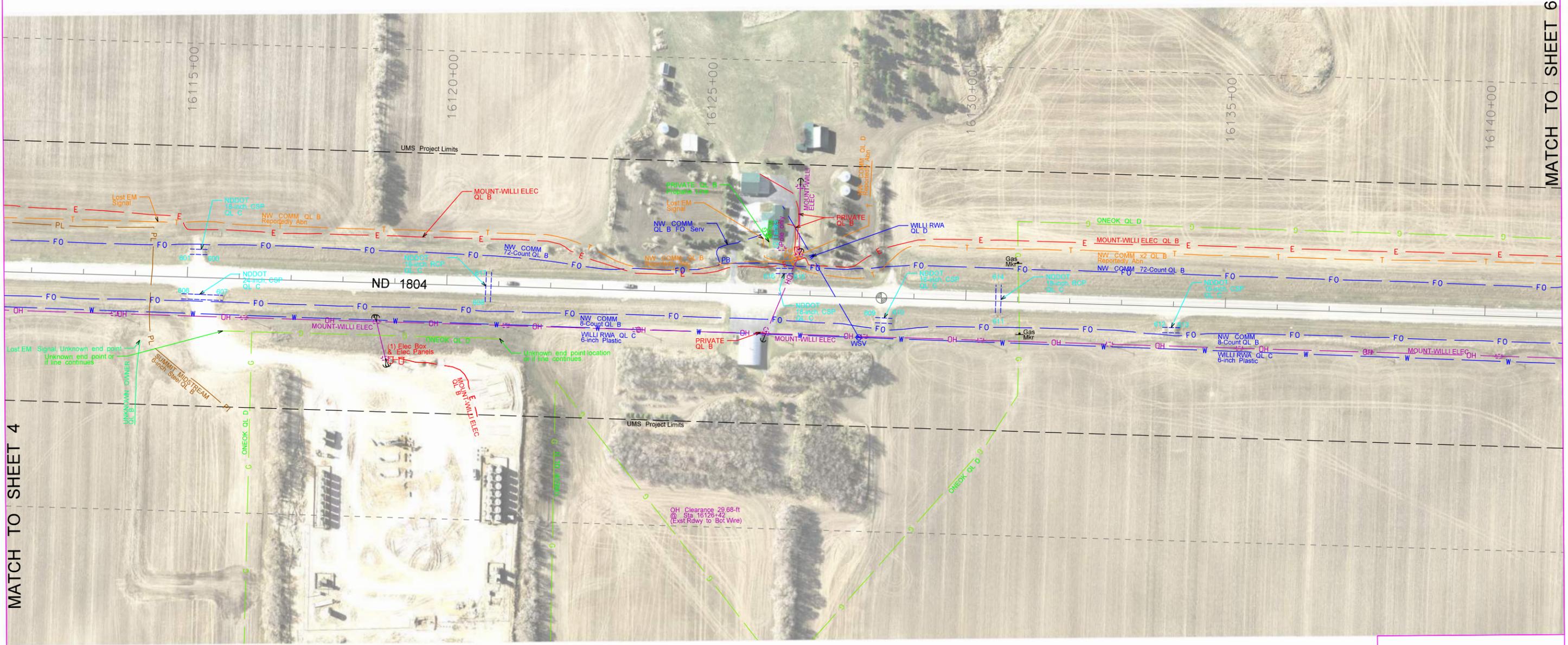


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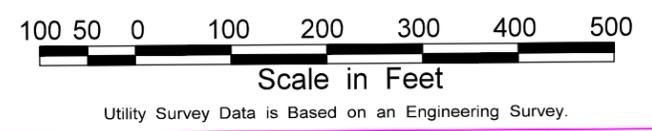
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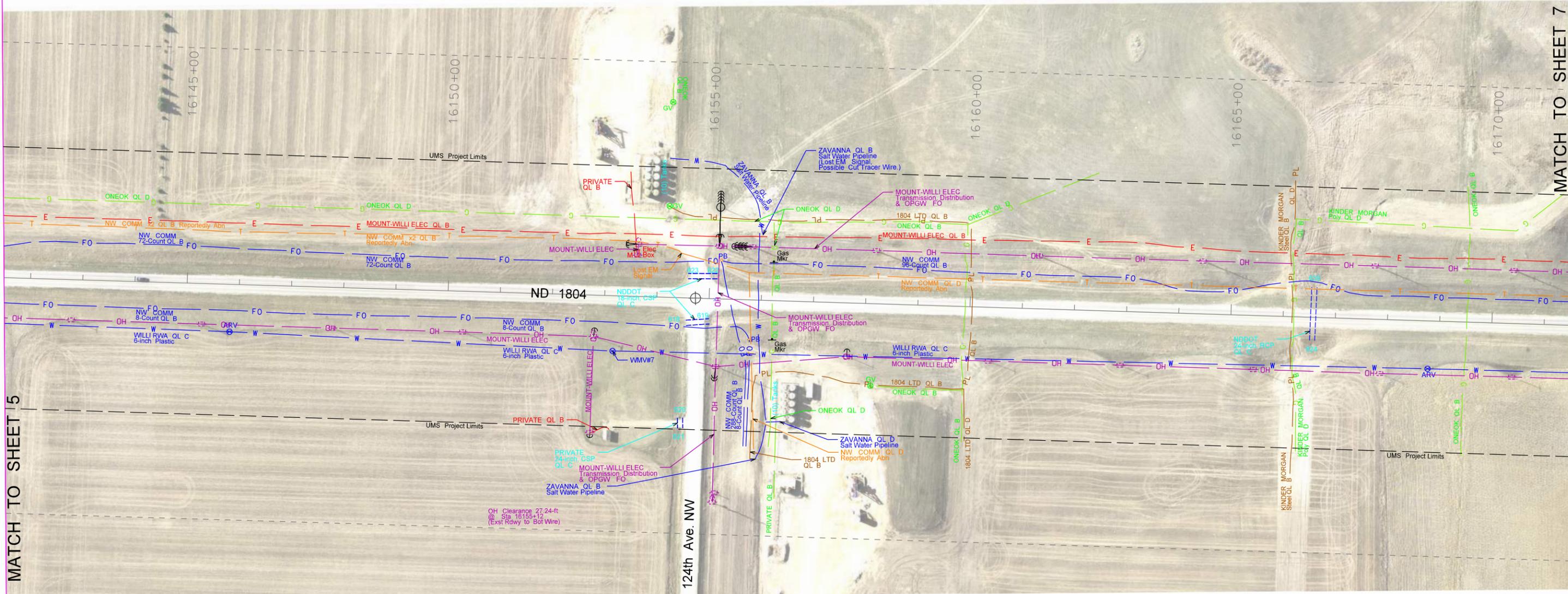
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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MATCH TO SHEET 5

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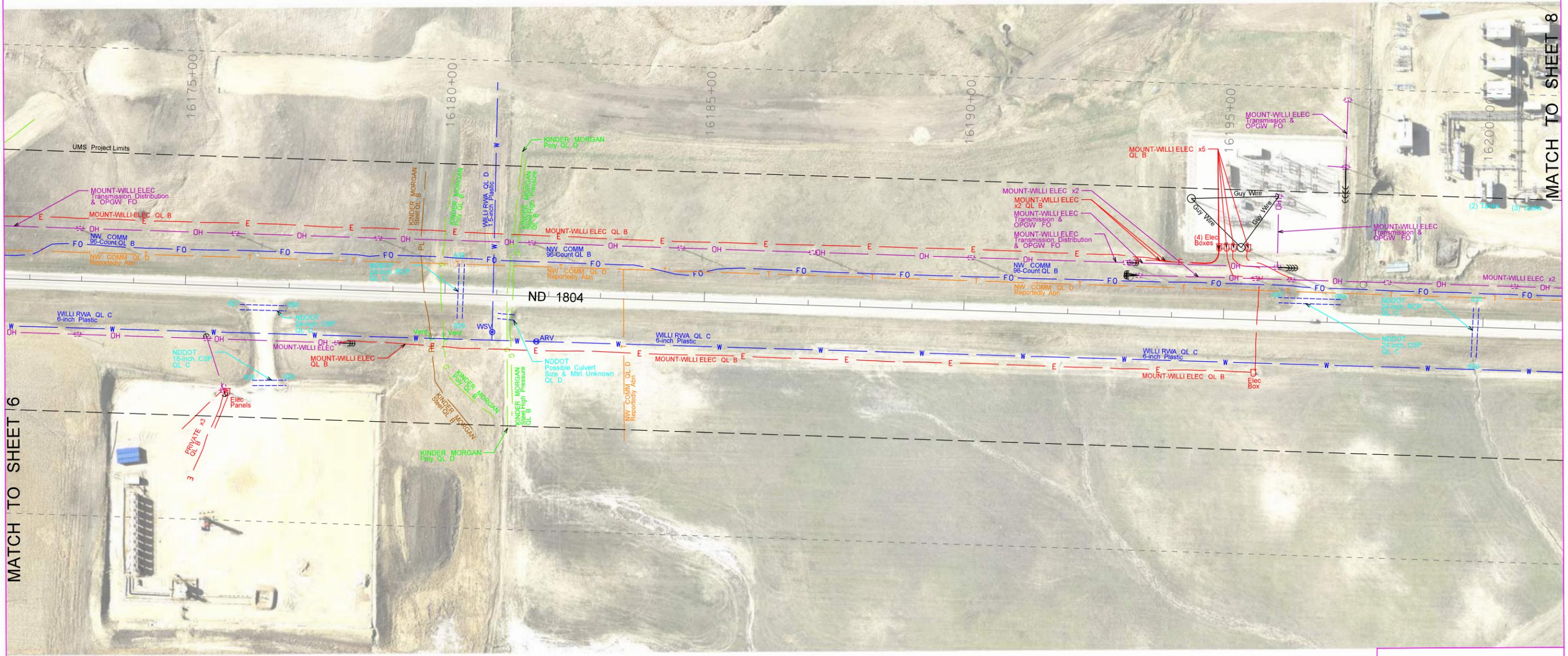


Scale in Feet
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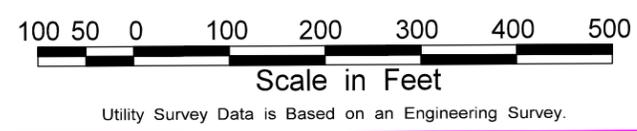
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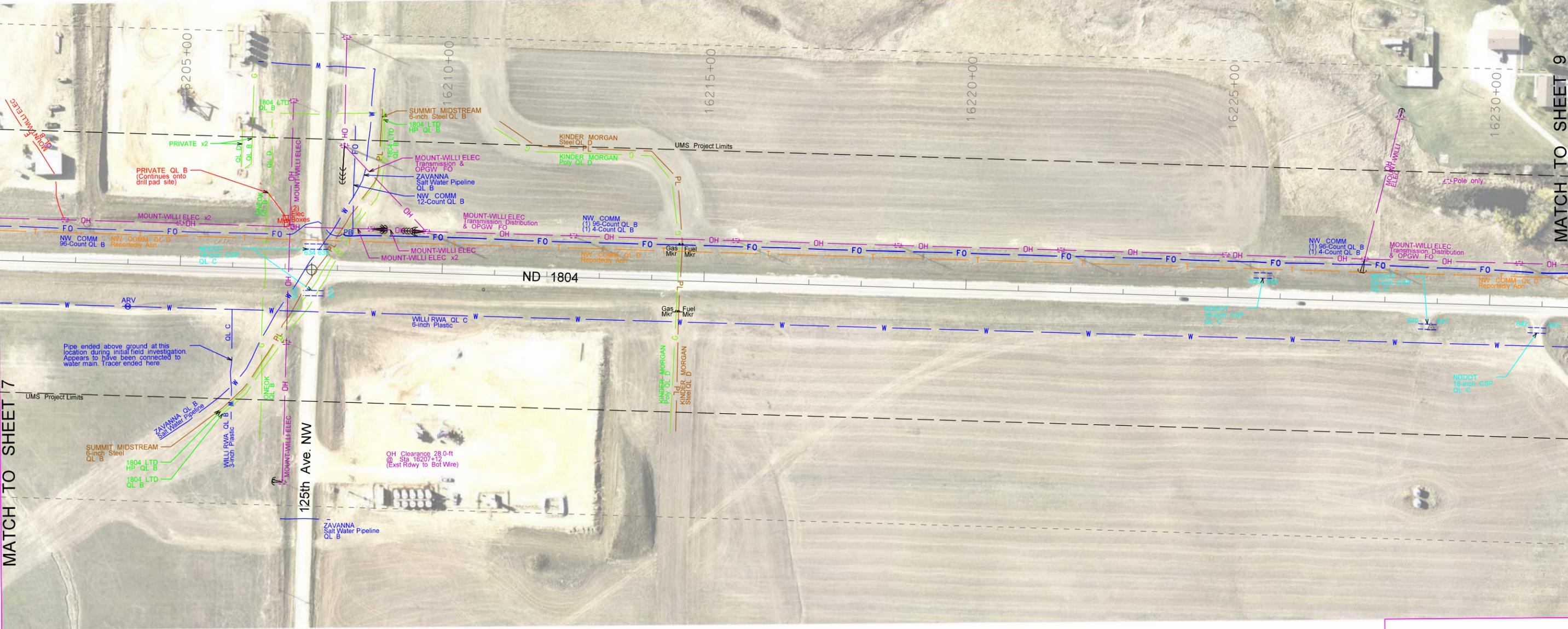
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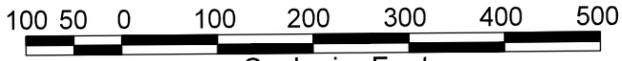
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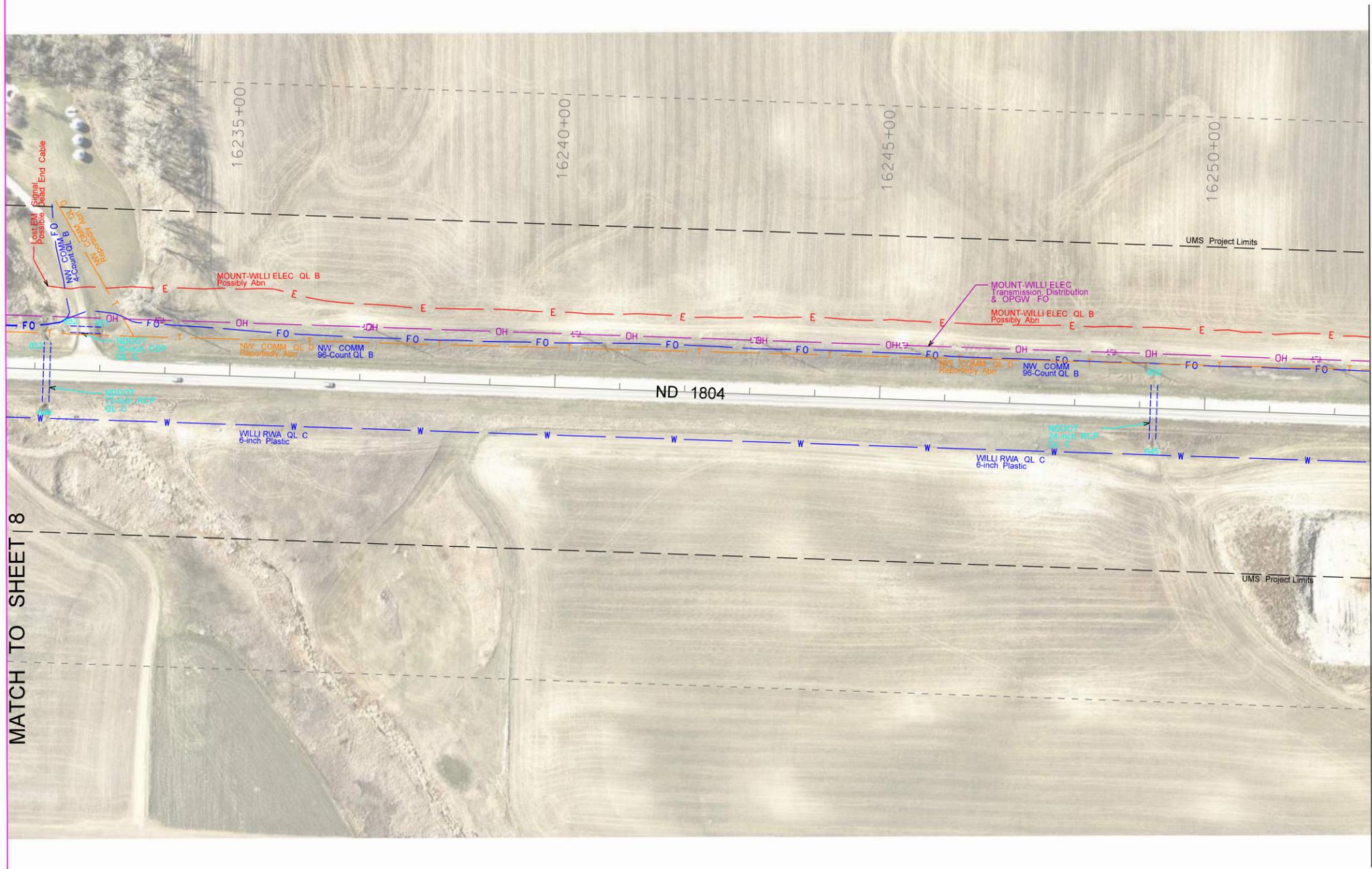
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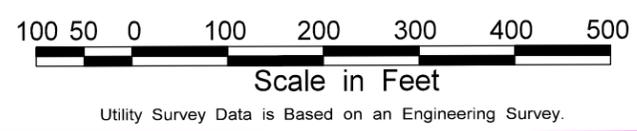
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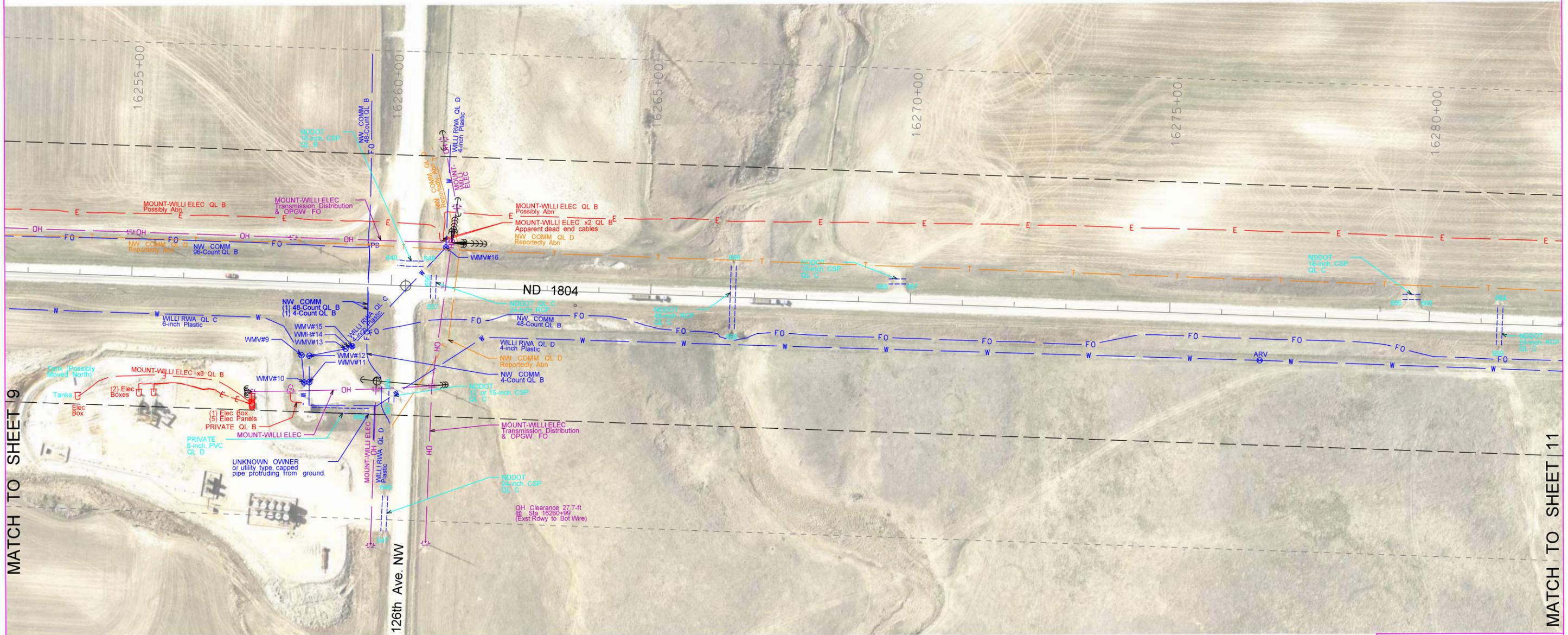


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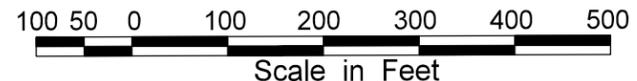
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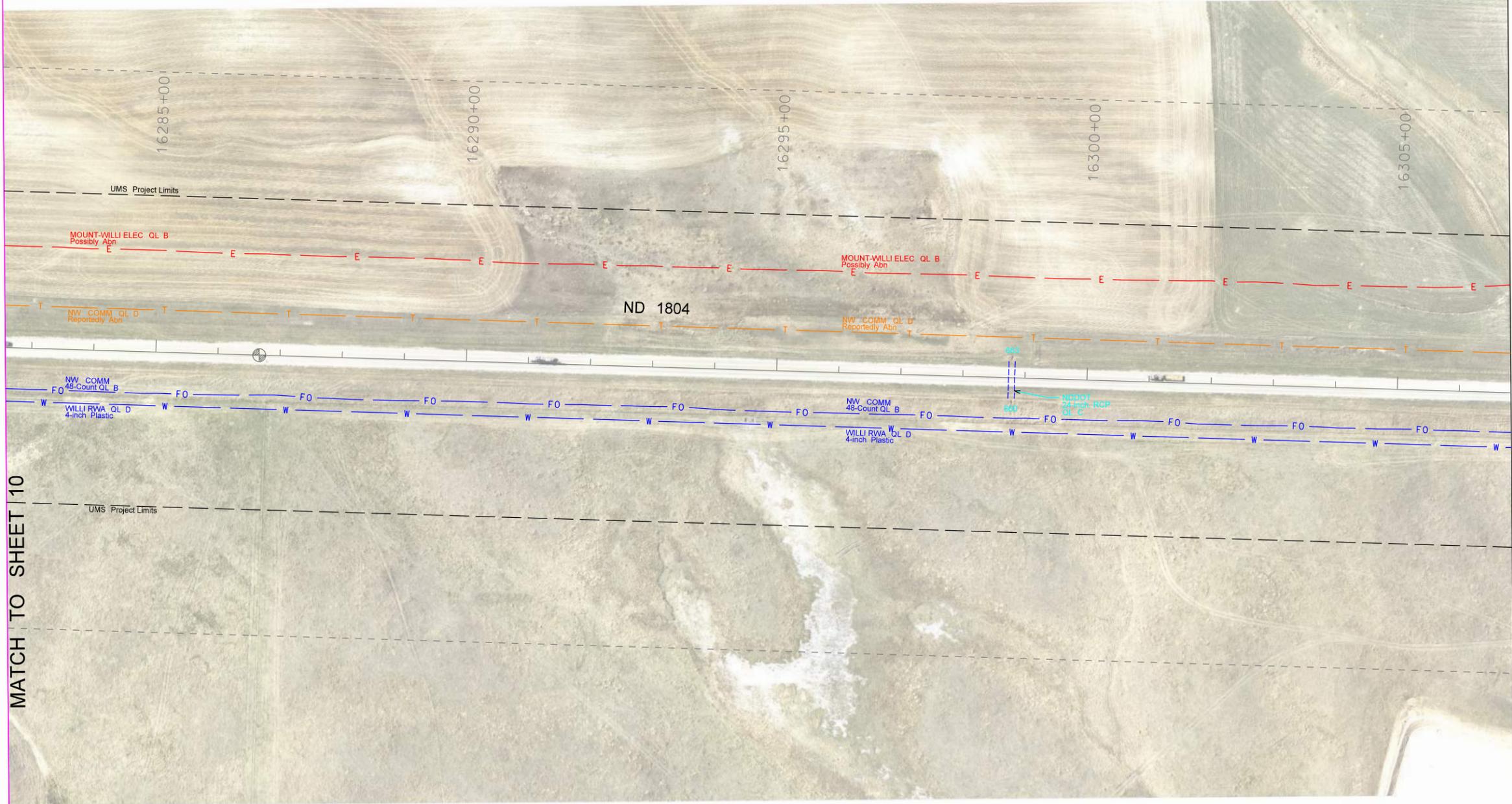


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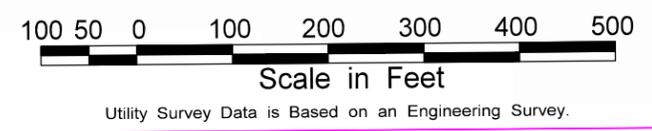
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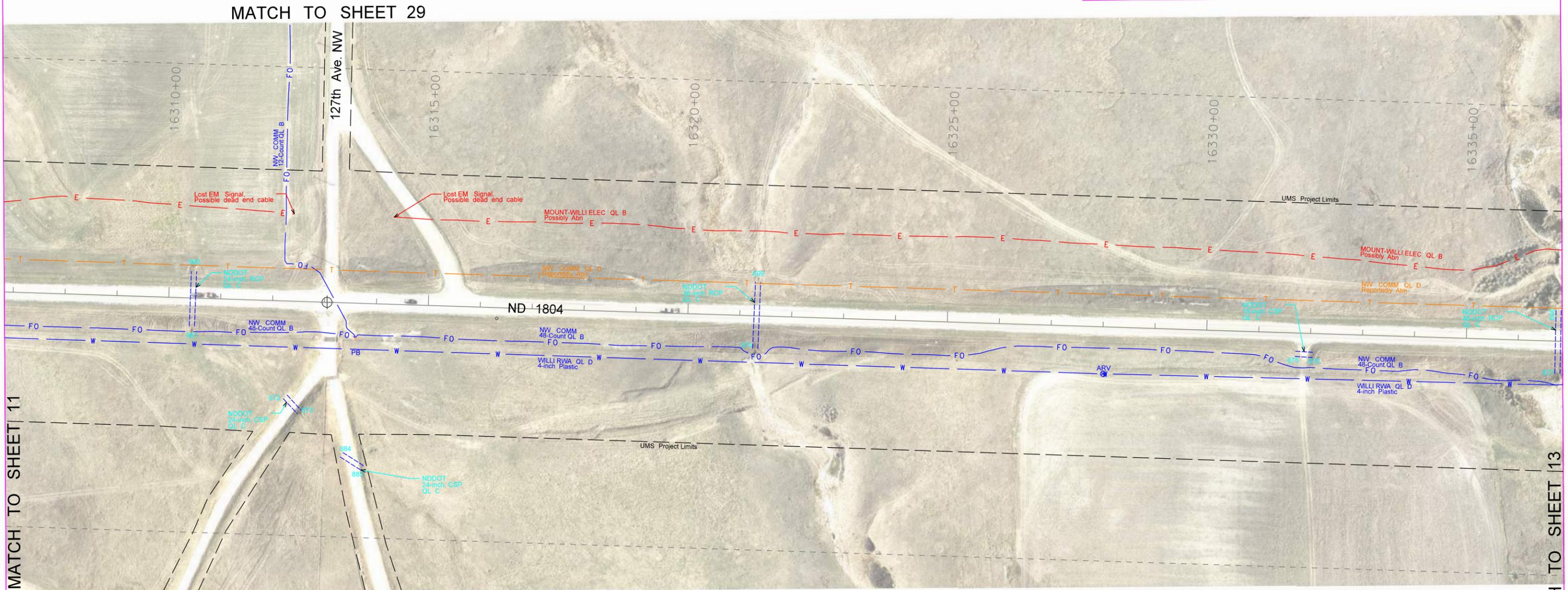
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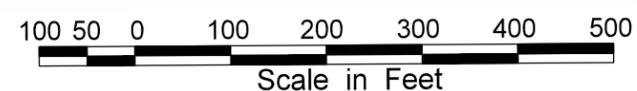


MATCH TO SHEET 29

MATCH TO SHEET 11

MATCH TO SHEET 13

MATCH TO SHEET 28



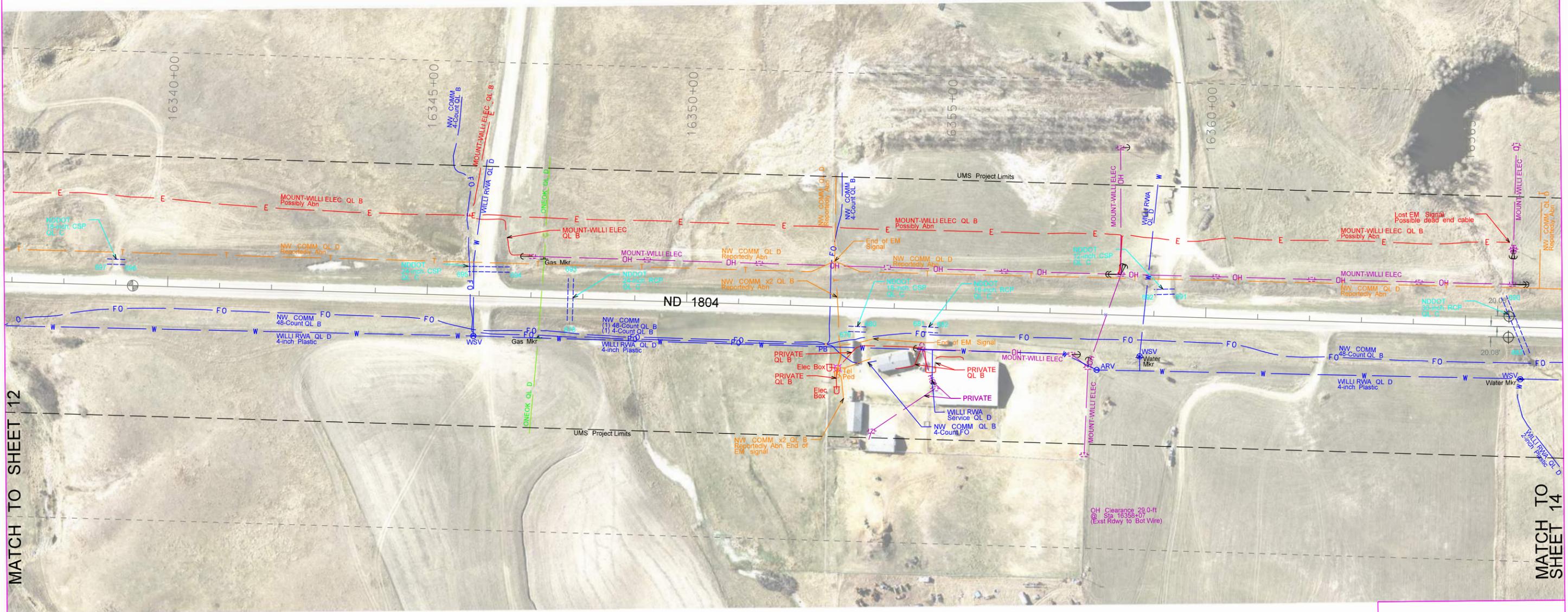
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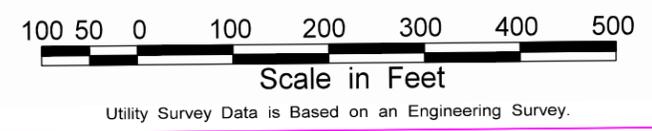
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MATCH TO SHEET 12

MATCH TO SHEET 14



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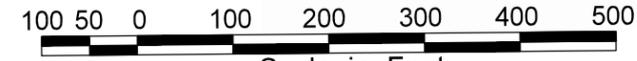
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MATCH TO SHEET 13

MATCH TO SHEET 15



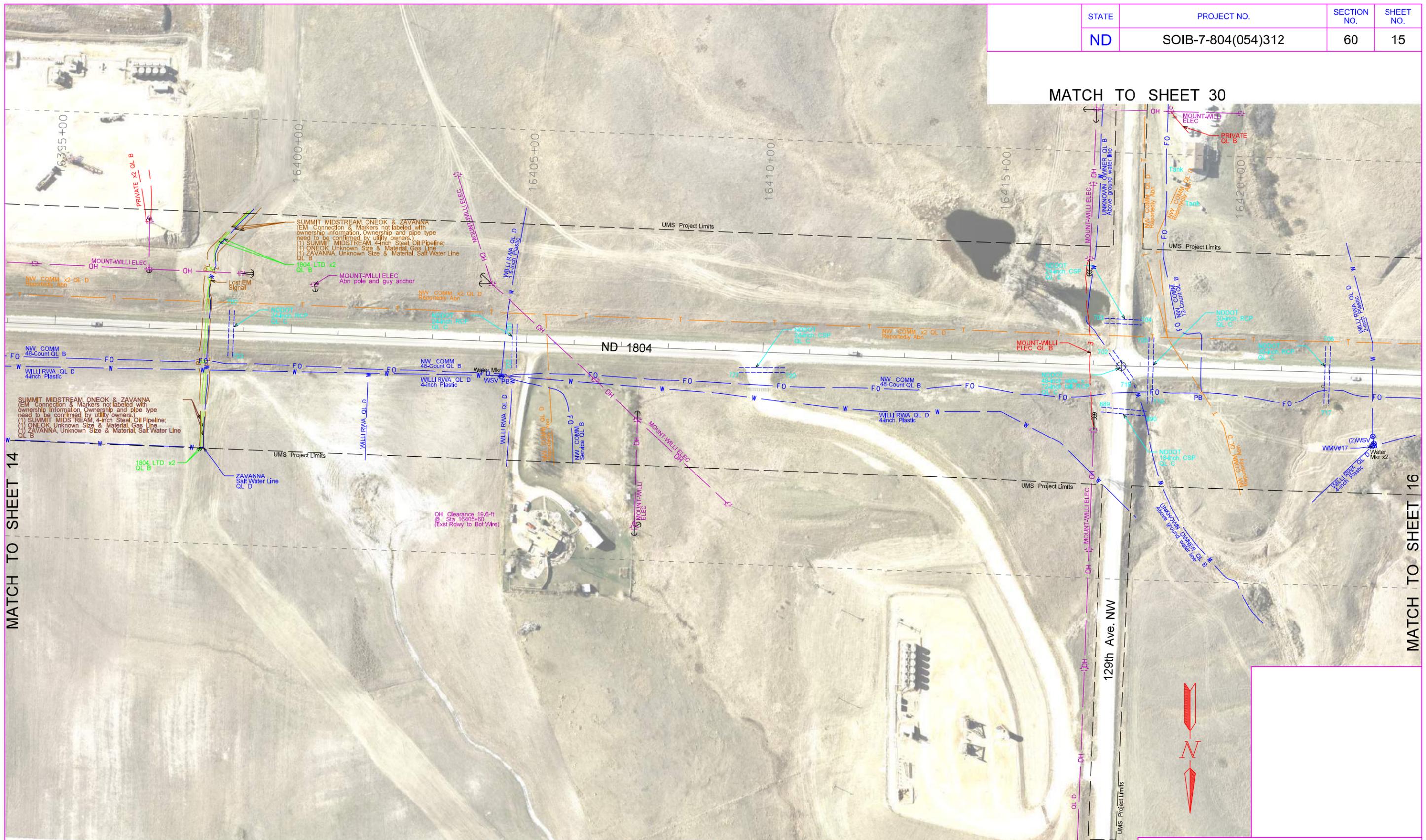
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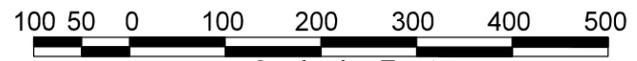


MATCH TO SHEET 30

MATCH TO SHEET 14

MATCH TO SHEET 16

A A A A



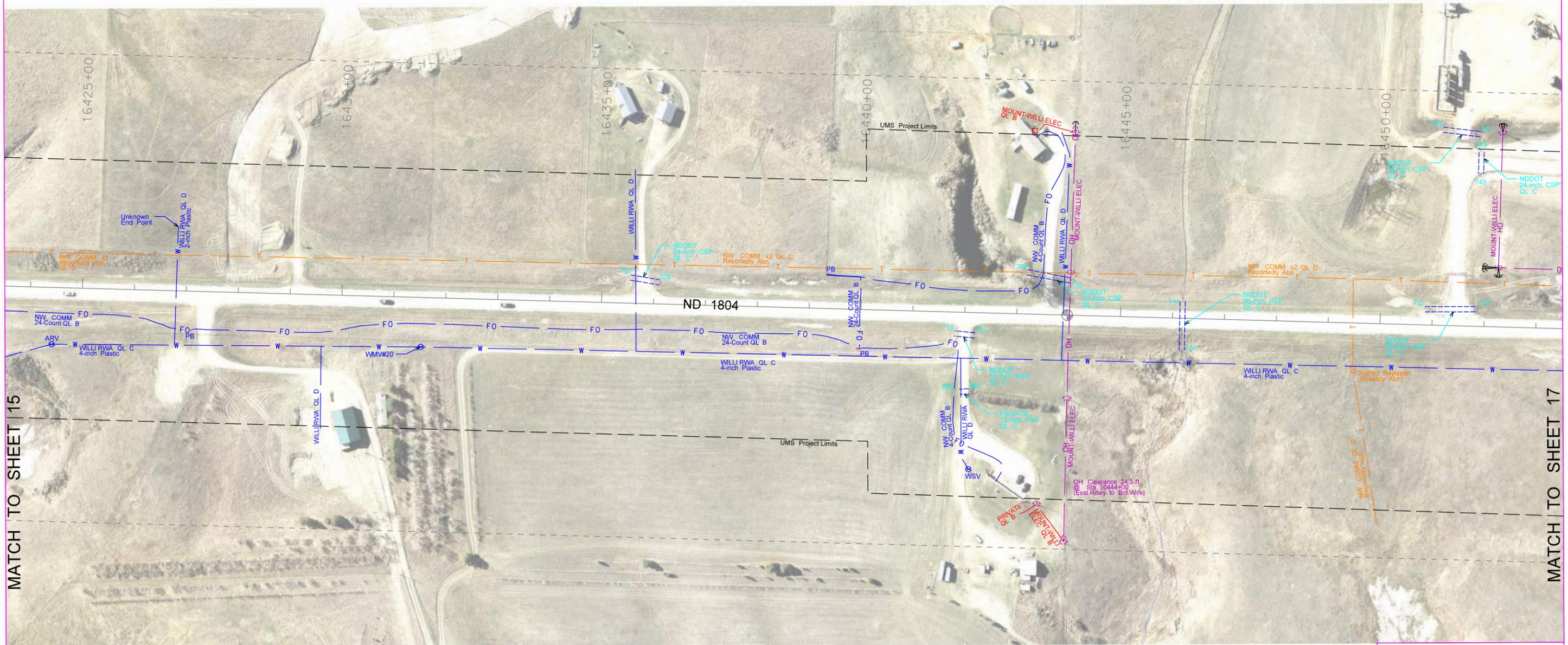
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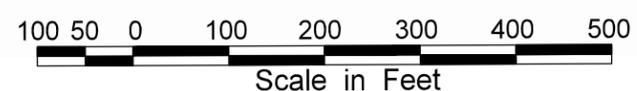
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| ND | SOIB-7-804(054)312 | 60 | 16 |



MATCH TO SHEET 15

MATCH TO SHEET 17



Utility Survey Data is Based on an Engineering Survey.

MS
INC.

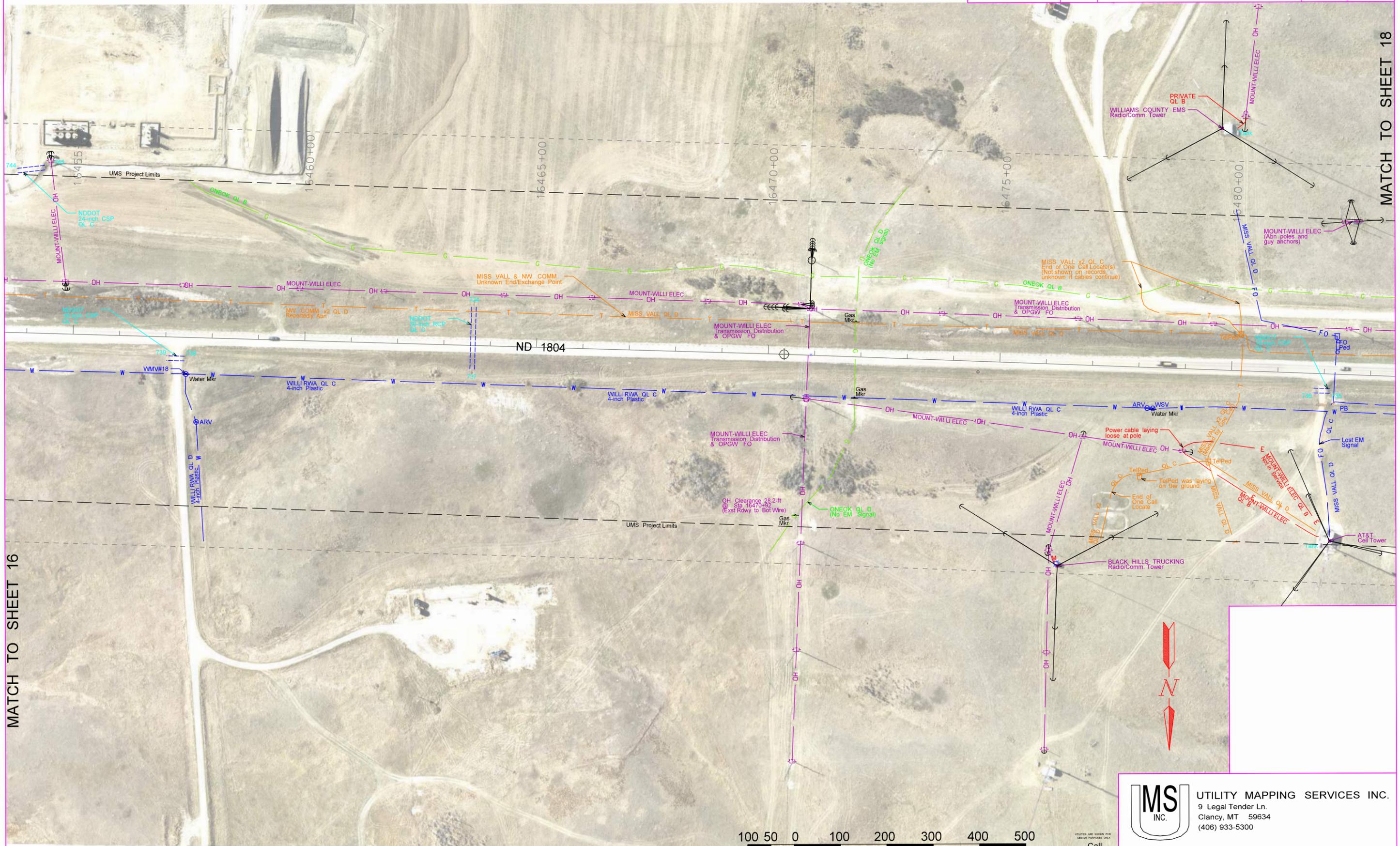
UTILITY MAPPING SERVICES INC.
 9 Legal Tender Ln.
 Clancy, MT 59634
 (406) 933-5300

| | | | |
|----------|-----|--------------|-------------|
| Drawn: | NWG | Horiz. Scale | Vert. Scale |
| Checked: | RLK | Proj. No. | REV. 1 |

UTILITIES ARE SHOWN FOR DESIGN PURPOSES ONLY
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 1-800-795-0555
 UTILITY MODIFICATION CENTER

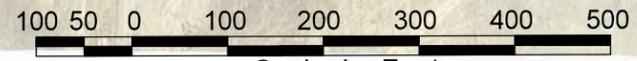
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|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 17 |



MATCH TO SHEET 16

MATCH TO SHEET 18



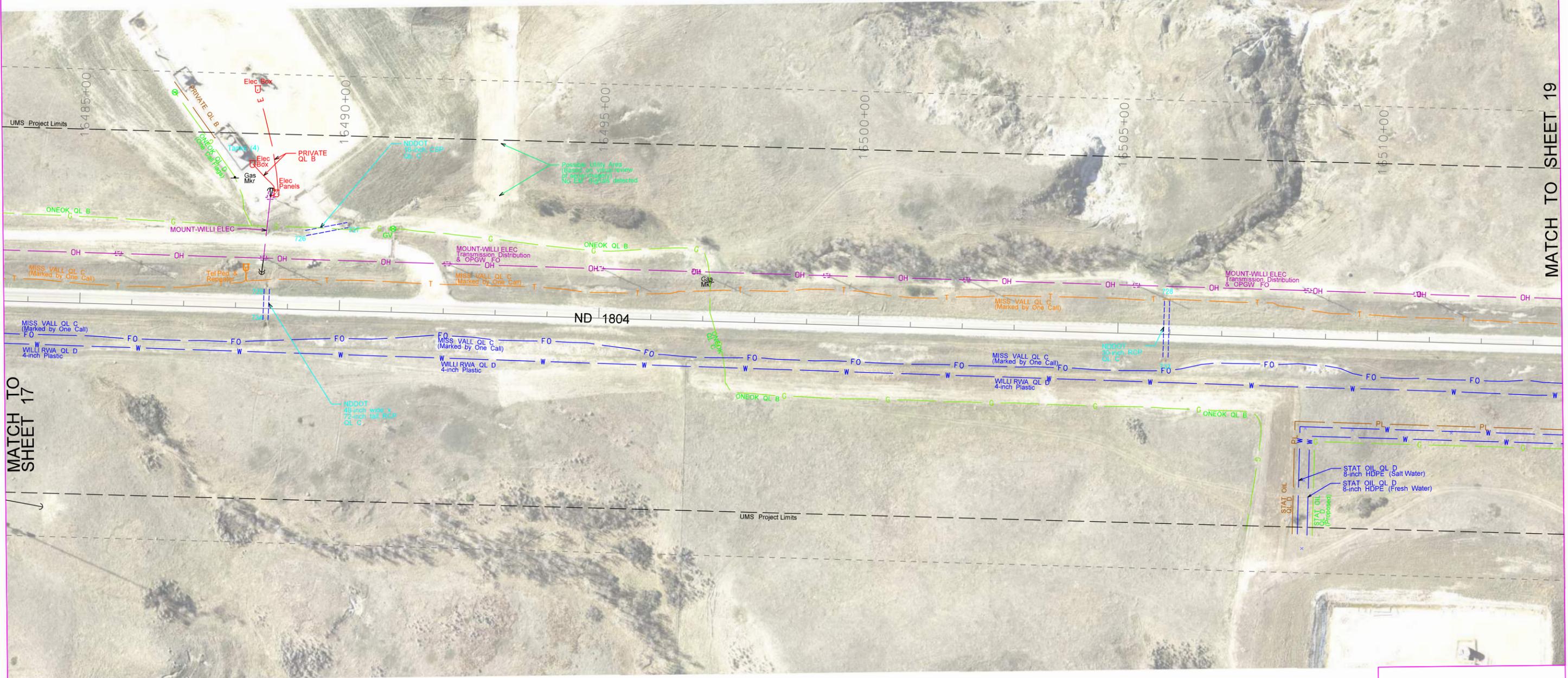
Utility Survey Data is Based on an Engineering Survey.

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 Clancy, MT 59634
 (406) 933-5300

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|--------------|-------------------------|-----------------------|
| Drawn: NWG | Horiz. Scale: 1" = 100' | Vert. Scale: 1" = 10' |
| Checked: RLK | Proj. No.: | REV. 1 |

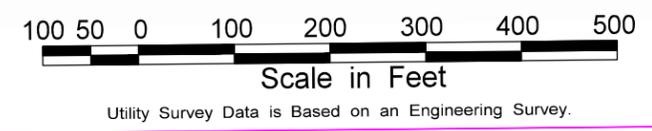
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| | | | |
|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 18 |



MATCH TO SHEET 17

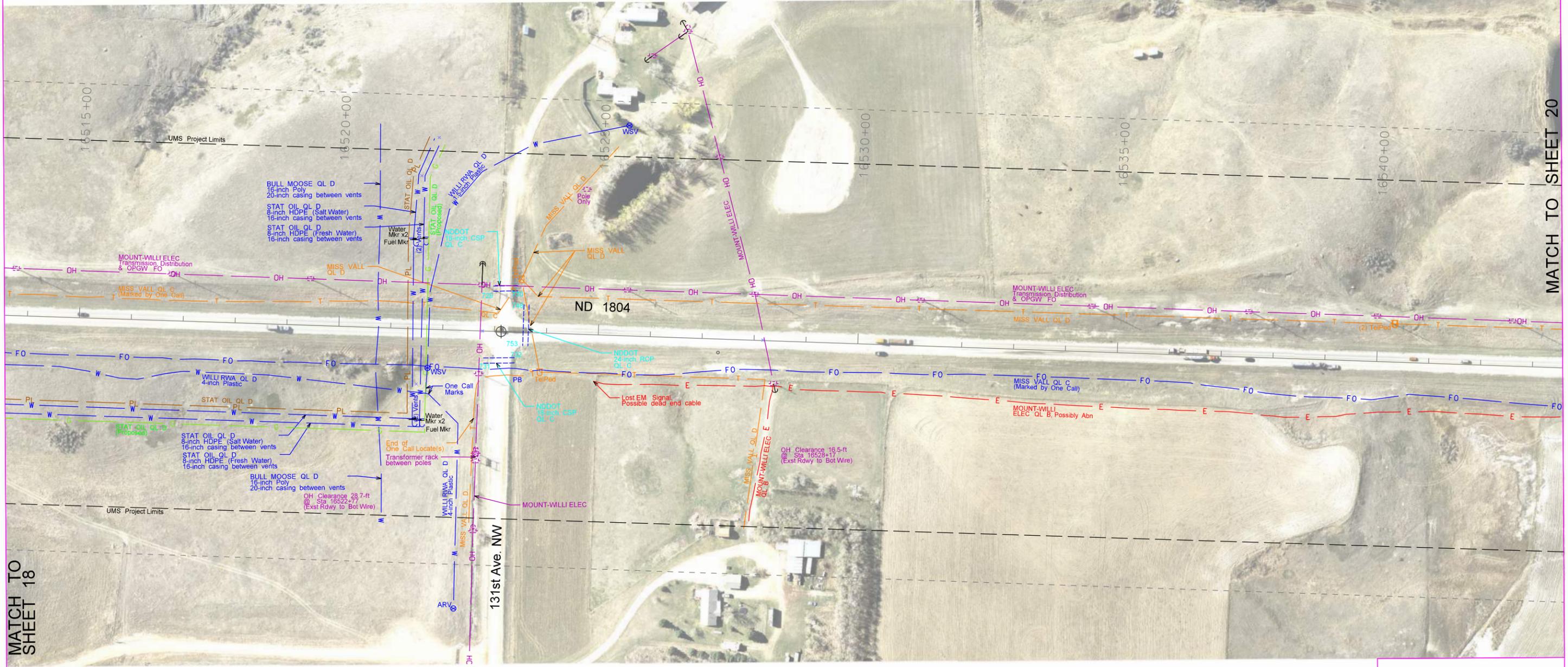
MATCH TO SHEET 19



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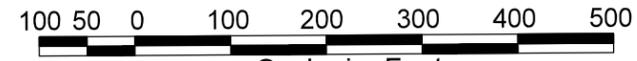
| | | | |
|--|--|---------------------------|-----------------------|
| | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG Checked: RLK | Horiz. Scale Proj. No. | Vert. Scale REV. 1 |

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MATCH TO SHEET 18

MATCH TO SHEET 20



Scale in Feet
Utility Survey Data is Based on an Engineering Survey.

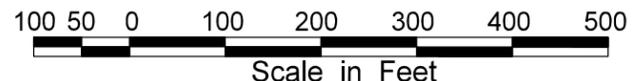
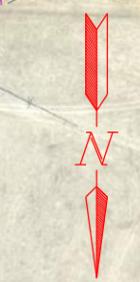
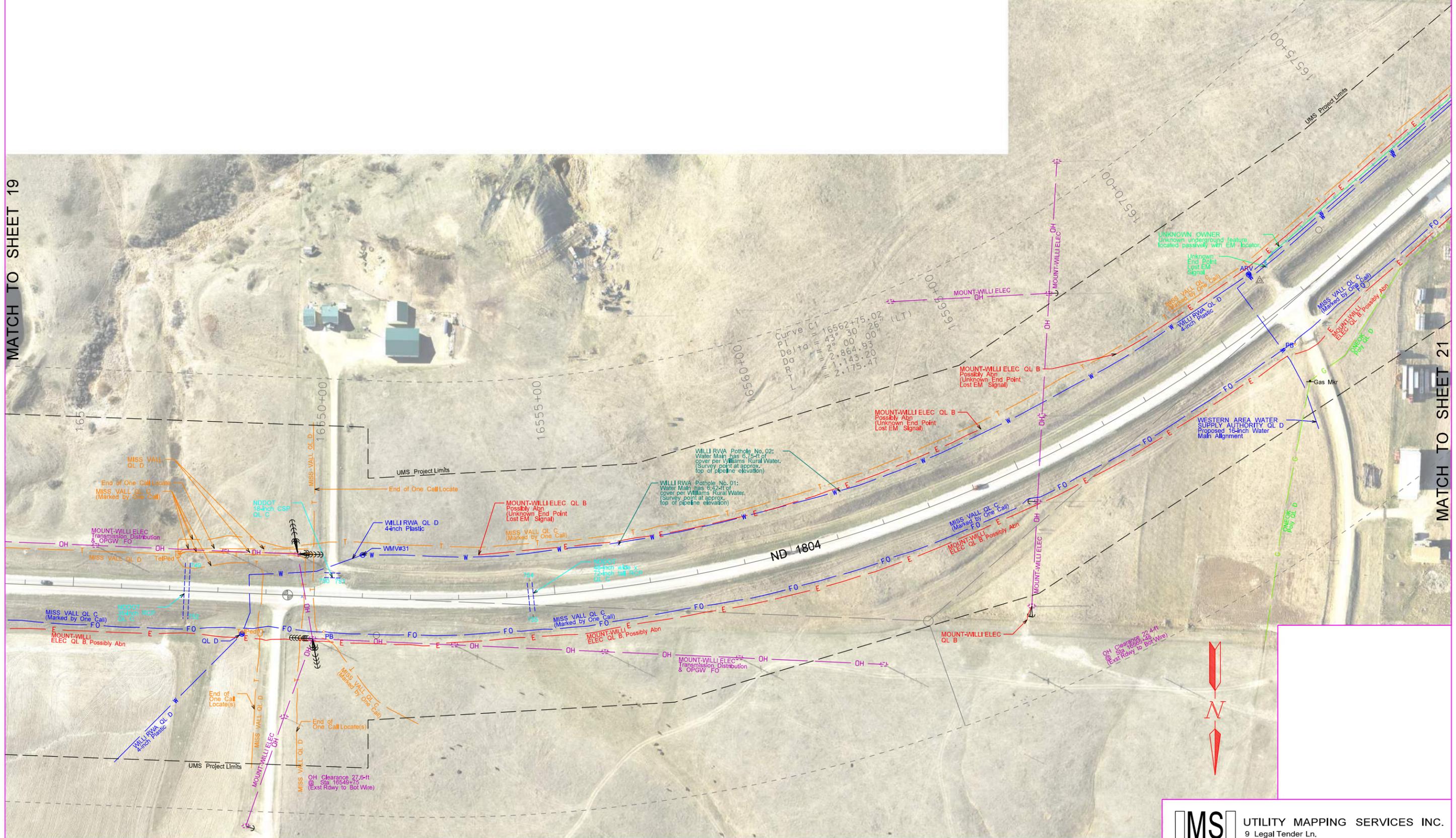
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QUALITY ASSURANCE DIVISION

| | | | |
|-------------------|---|--------------|-------------|
| MS INC. | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG | Horiz. Scale | Vert. Scale |
| Checked: RLK | Proj. No. | REV. | 1 |

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|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 20 |

MATCH TO SHEET 19

MATCH TO SHEET 21



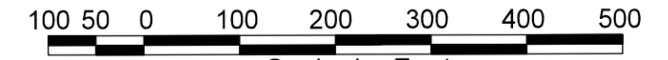
Utility Survey Data is Based on an Engineering Survey.

UTILITY MAPPING SERVICES INC.
 9 Legal Tender Ln.
 Clancy, MT 59634
 (406) 933-5300

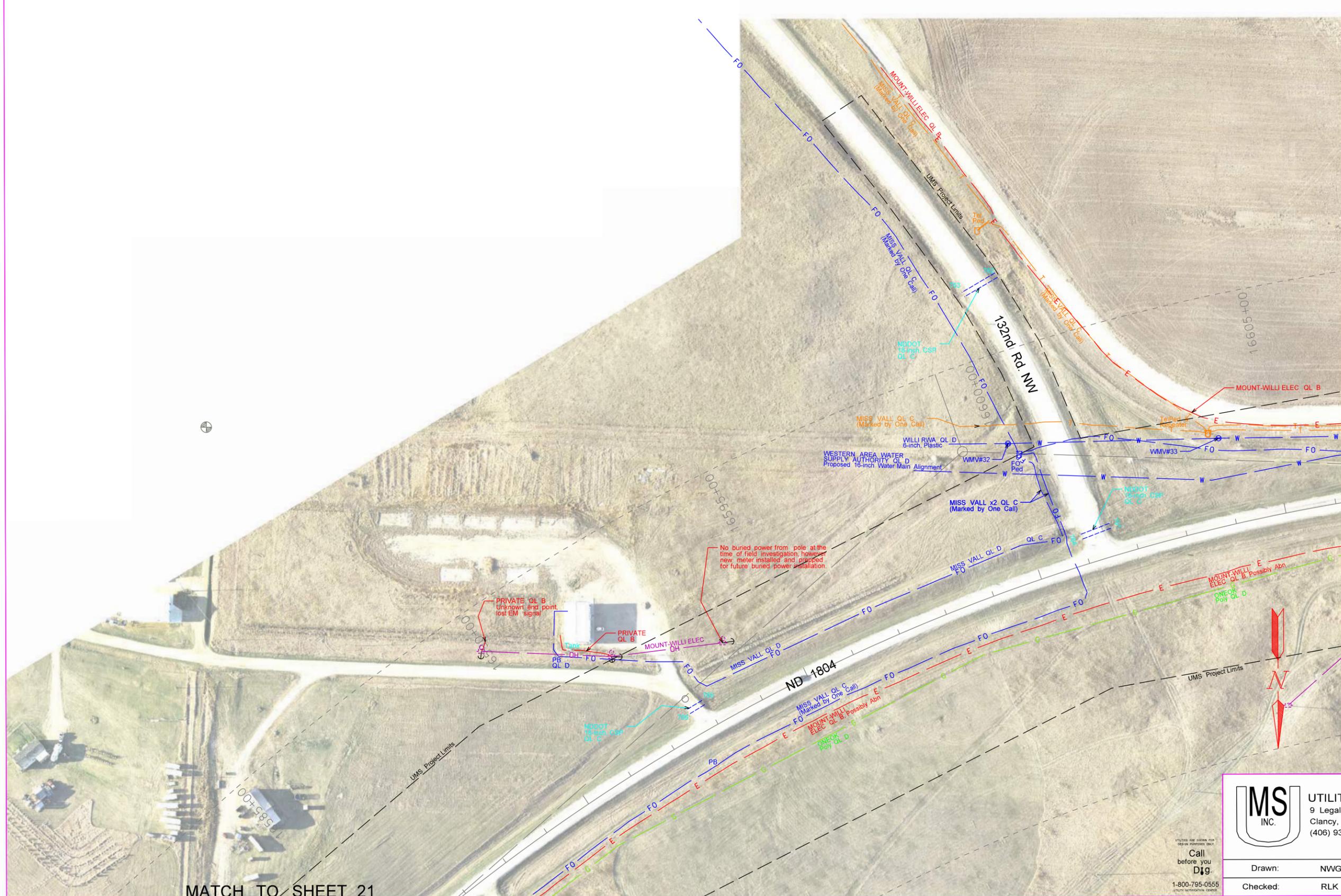
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| Drawn: | NWG | Horz. Scale: | Vert. Scale: |
| Checked: | RLK | Proj. No.: | REV. 1 |

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|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 22 |



Scale in Feet
Utility Survey Data is Based on an Engineering Survey.



MATCH TO SHEET 23

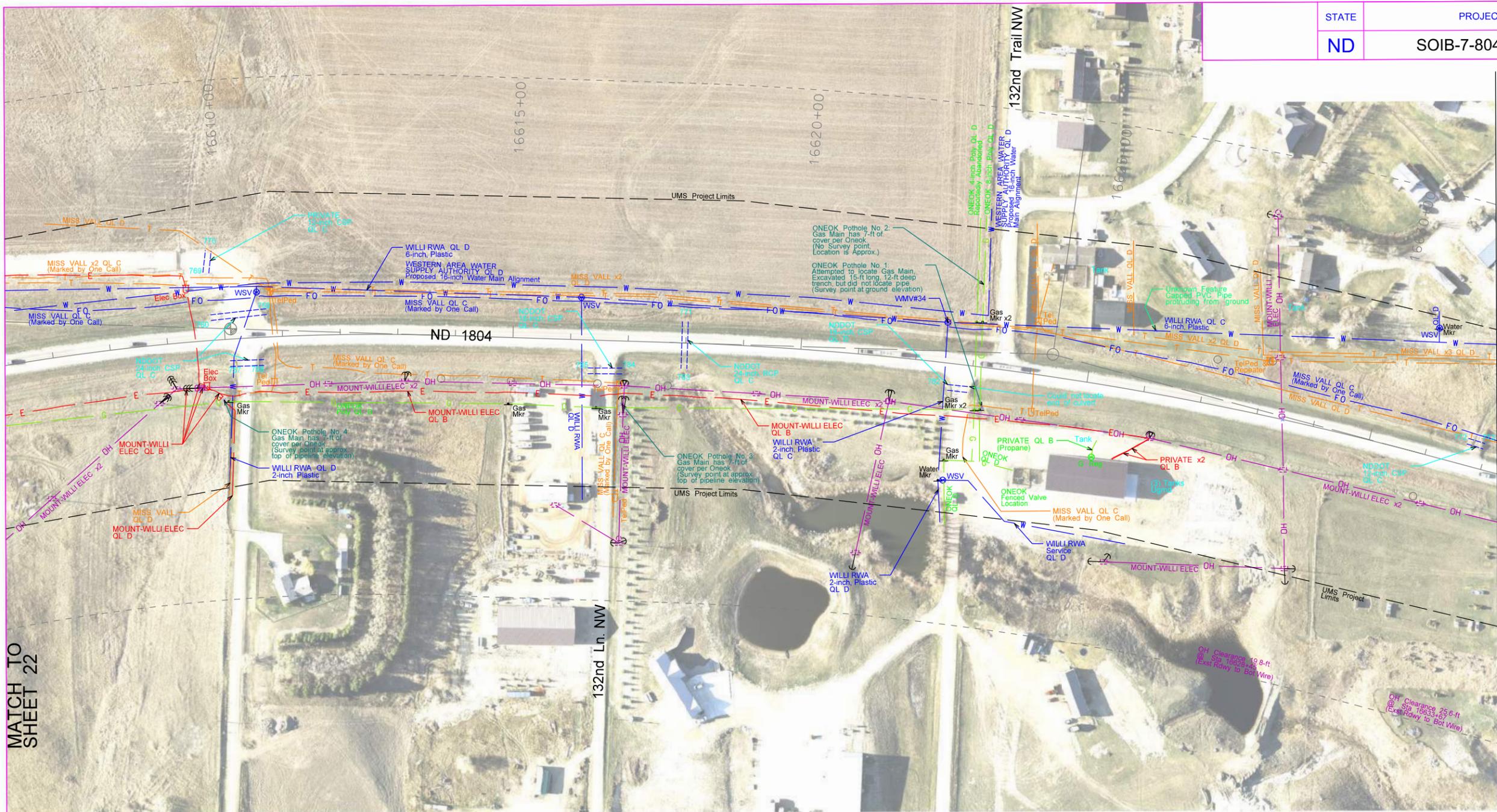
MATCH TO SHEET 21

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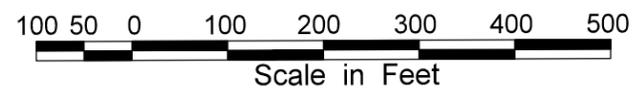
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| Drawn: | NWG | Horiz. Scale | Vert. Scale |
| Checked: | RLK | Proj. No. | REV. 1 |

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MATCH TO SHEET 22

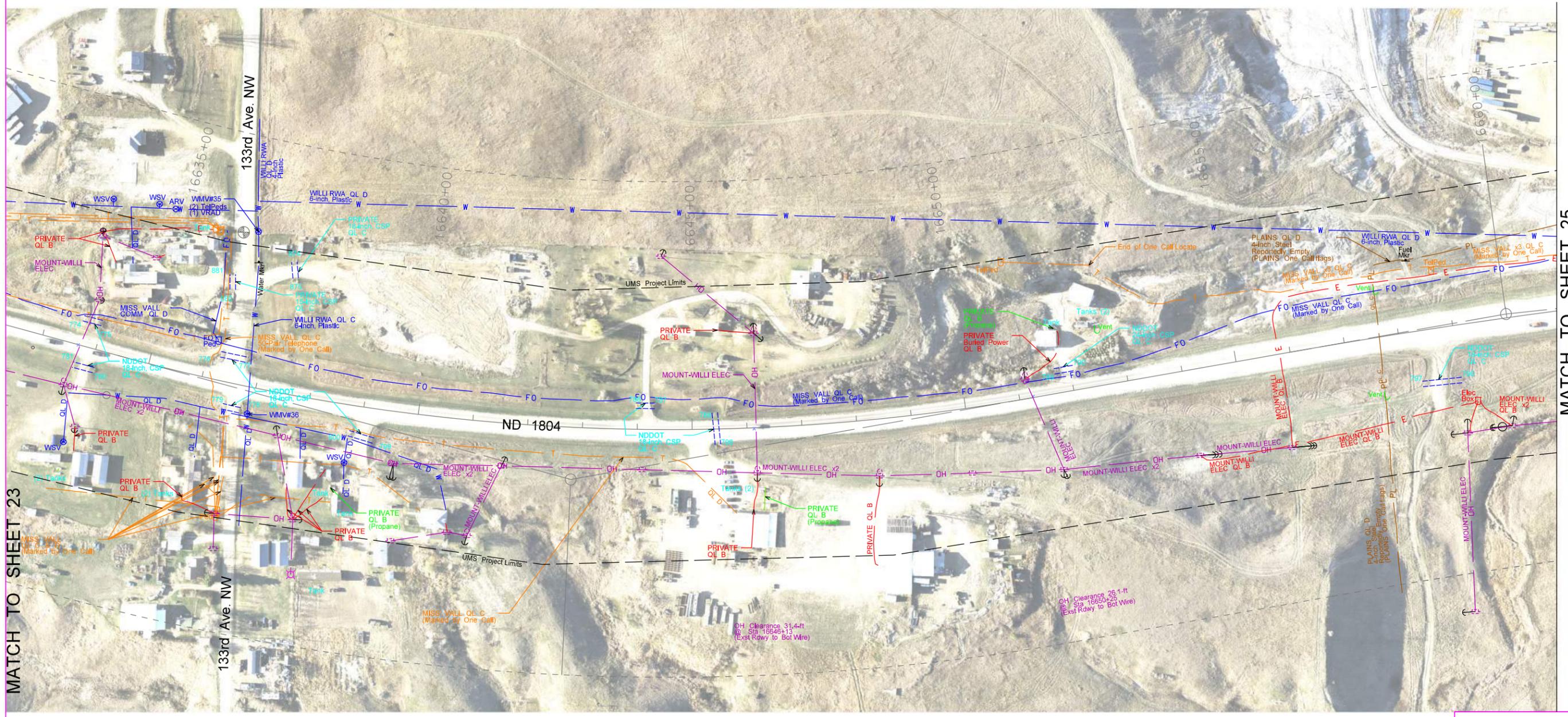
MATCH TO SHEET 24



Utility Survey Data is Based on an Engineering Survey.

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| | | | |
|-------------------|---|--------------|-------------|
| MS INC. | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG | Horiz. Scale | Vert. Scale |
| Checked: RLK | Proj. No. | REV. | 1 |



MATCH TO SHEET 23

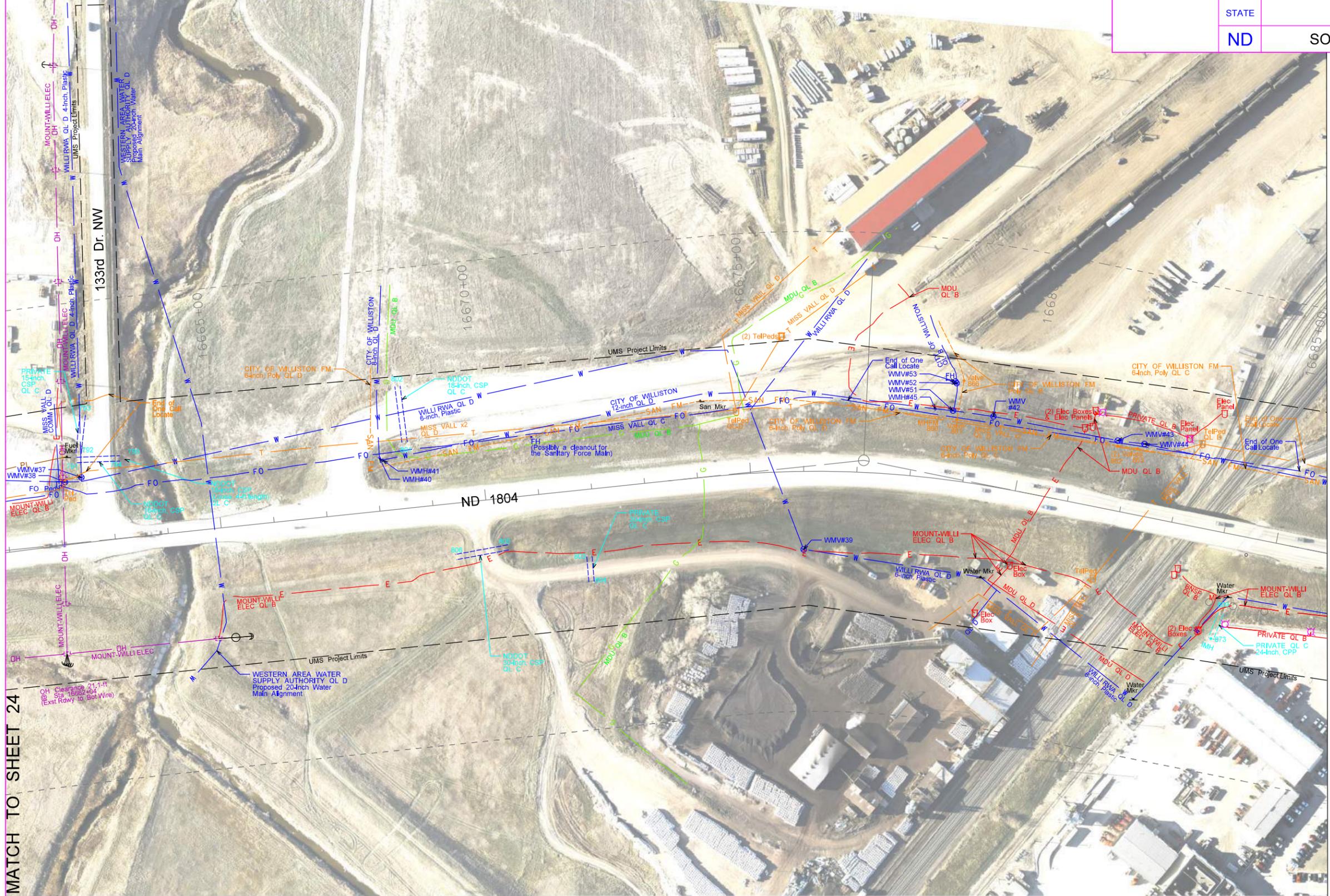
MATCH TO SHEET 25



Utility Survey Data is Based on an Engineering Survey.

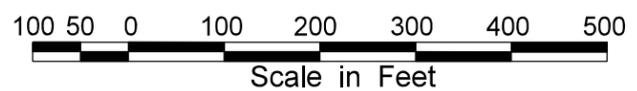
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|--|--|-------------------------|---------------------|
| | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG Checked: RLK | Horiz. Scale: Proj. No. | Vert. Scale: REV. 1 |

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MATCH TO SHEET 24

MATCH TO SHEET 26

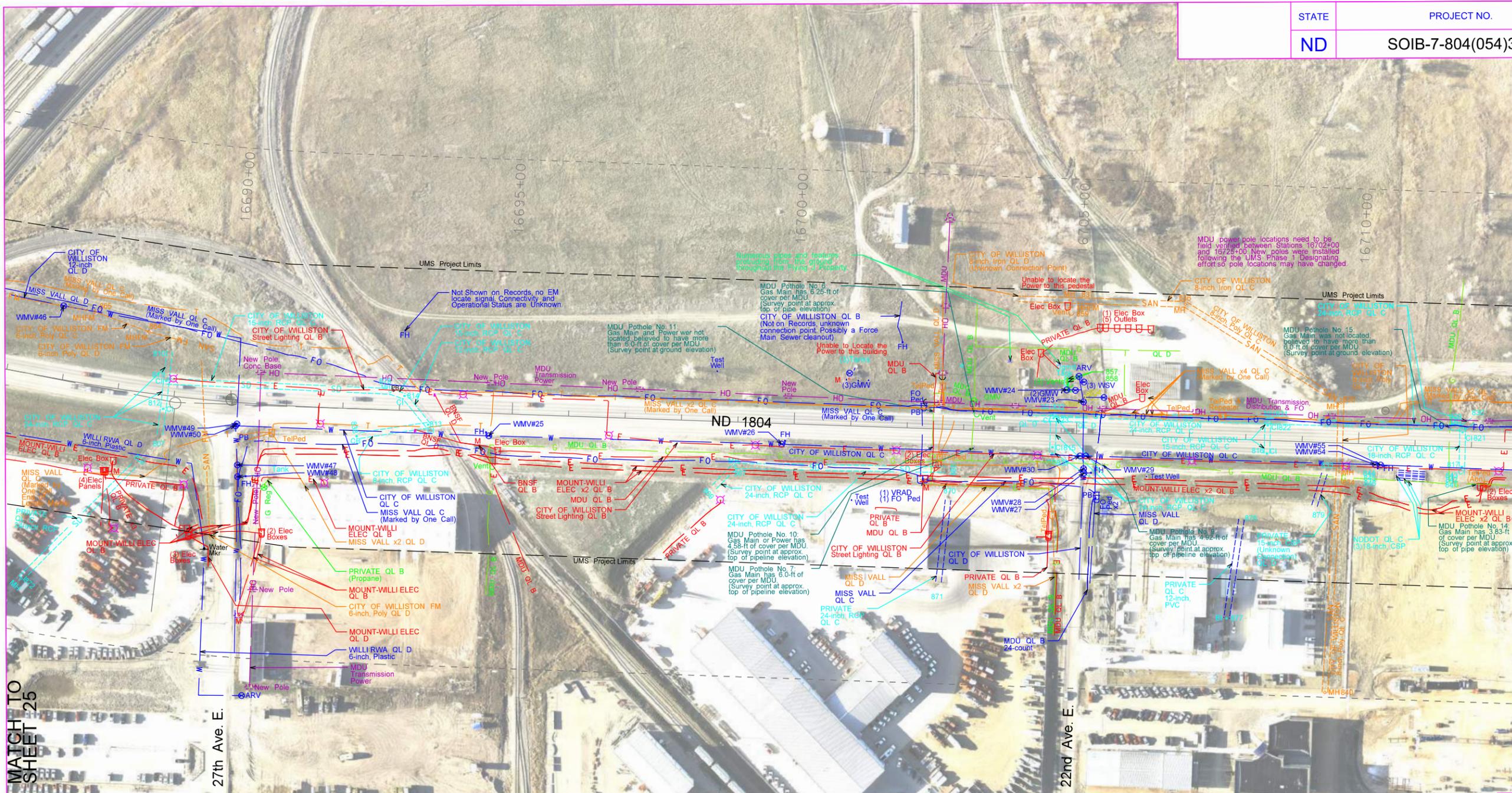


Utility Survey Data is Based on an Engineering Survey.

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| Drawn: | NWG | Horz. Scale | Vert. Scale |
| Checked: | RLK | Proj. No. | REV. 1 |

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MATCH TO SHEET 27

MATCH TO SHEET 25

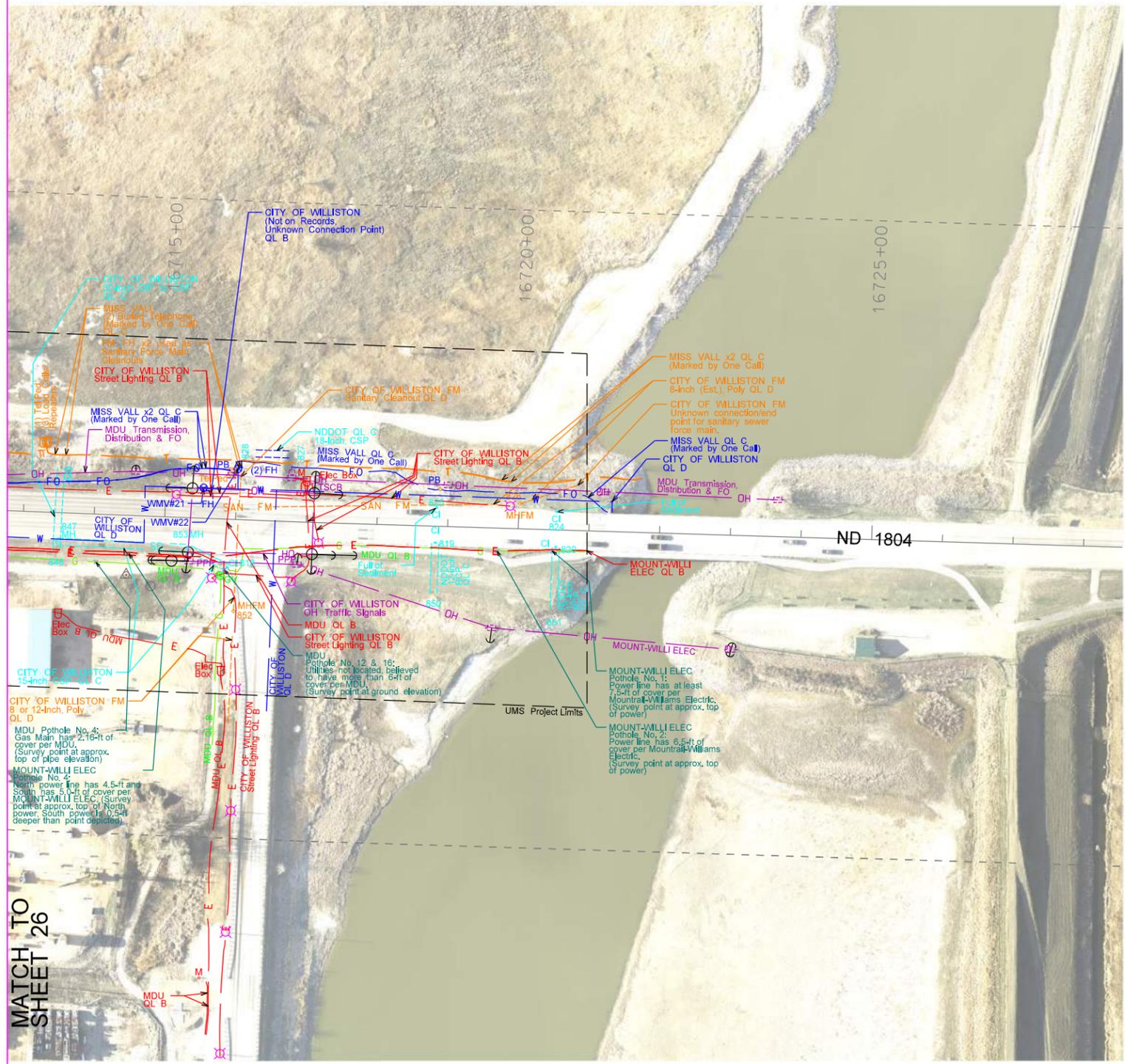


Utility Survey Data is Based on an Engineering Survey.

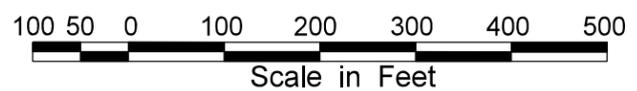
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|-------------------|---|--------------|-------------|
| MS INC. | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG | Horiz. Scale | Vert. Scale |
| Checked: RLK | Proj. No. | REV. | 1 |

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|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 27 |



MATCH TO SHEET 26



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| Drawn: | NWG | Horz. Scale | Vert. Scale |
| Checked: | RLK | Proj. No. | REV. 1 |

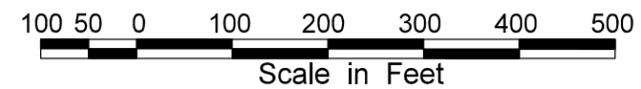
UNLESS INDICATED OTHERWISE, ALL UTILITIES ARE SHOWN FOR GENERAL PURPOSES ONLY.
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MATCH TO SHEET 12



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| | STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| | ND | SOIB-7-804(054)312 | 60 | 28 |



Utility Survey Data is Based on an Engineering Survey.

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| Drawn: | NWG | Horz. Scale | Vert. Scale |
| Checked: | RLK | Proj. No. | REV. 1 |

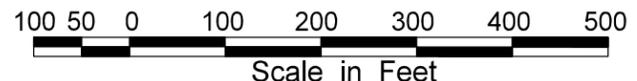
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Dig.
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| | | | |
|-------|--------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 29 |



MATCH TO SHEET 12



Utility Survey Data is Based on an Engineering Survey.

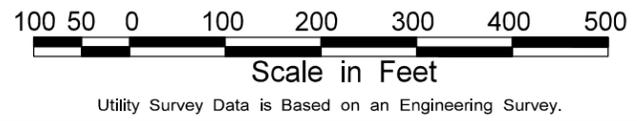
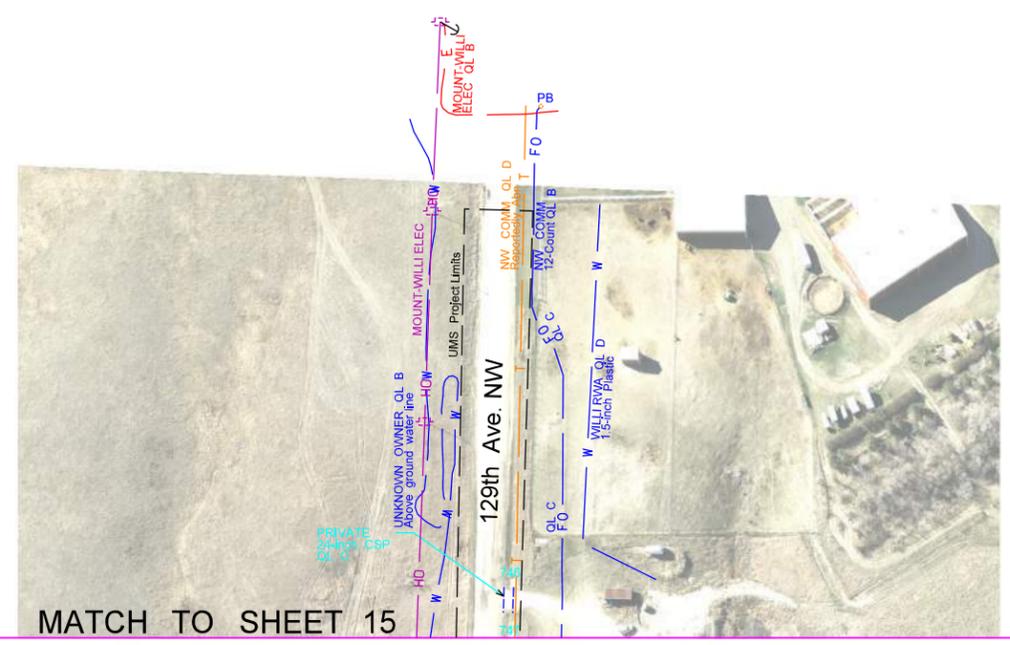


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|--|--|---------------------------|-----------------------|
| | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG Checked: RLK | Horiz. Scale Proj. No. | Vert. Scale REV. 1 |

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | SOIB-7-804(054)312 | 60 | 30 |



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|  | UTILITY MAPPING SERVICES INC. 9 Legal Tender Ln. Clancy, MT 59634 (406) 933-5300 | | |
| | Drawn: NWG Checked: RLK | Horiz. Scale Proj. No. | Vert. Scale REV. 1 |

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