



October 22, 2018

North Dakota Public Service Commission
Attn: Mr. Jerry Lein
Public Utilities Division
600 E Boulevard Ave, Dept. 408
Bismarck, ND 58505-0480



Subject: Clean Energy 1 Wind Project
Wind Turbine Road Shifts- Morton County
Case No. PU-11-662

Mr. Lein,

On August 29, 2012 the North Dakota Public Service Commission (PSC) approved a Certificate of Site Compatibility (Certificate) to ALLETE Clean Energy for the Clean Energy 1 Wind Project (Project). The Certificate was subsequently amended on September 6, 2018. ALLETE Clean Energy will be continuing Project construction throughout 2018.

During Project engineering, access road shifts in Morton County were needed to improve the Project's constructability. As a result, ALLETE Clean Energy is requesting PSC approval for access road shifts as shown on the attached Figure 1.

The Project Certification pursuant to Order Provision number 34 of the Certification Relating to Order Provisions - Wind Energy Conversion Facility Siting which is part of the Commission's Order of Continuing Suitability, dated August 29, 2012 can be found in Attachment A.

The North Dakota State Historic Preservation Office concurrence of "No Effect" can be found in Attachment B of this letter.

Project construction throughout 2018 in Morton County, ND will be in accordance with the attached engineering drawings Attachment C.

If any additional information is required by the PSC for approval please let me know.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Daniel McCourtney".

Daniel McCourtney
ALLETE Clean Energy

DM:sr

cc. Wells McGiffert

John Hollingsworth

David Moeller (electronically)

63 PU-11-662 Filed 10/22/2018 Pages: 30

Supporting documents to request for approval of access road shifts
Allete Clean Energy, Inc.
Daniel McCourtney

STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

Case No. PU- 11-662

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF ADAMS)

I. I am Project Development Manager for the Clean Energy 1 Wind Energy Project

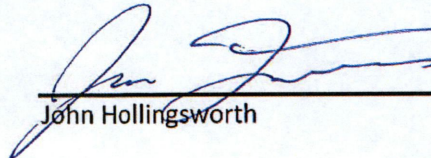
2. I provide this Certification pursuant to Provision No. 34 of the Certification Relating to Order Provisions -Wind Energy Conversion Facility Siting ("Certification"), which is part of the Commission's Order of Continuing Suitability, dated August 29, 2012 ("Order") in the above-referenced docket.

4. The Project layout complies with all requirements set forth in the Commission's Order.

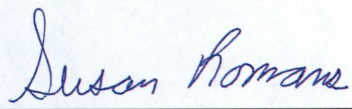
1

6. The Project layout modifications and associated construction activities will not affect any known exclusion or avoidance areas within the designated Project site.
7. The Project will comply with the Commission's Order, including applicable siting laws and rules.

FURTHER AFFIANT SAYETH NOT.


John Hollingsworth

Subscribed and sworn to before me
This 22nd day of October, 2018



Notary Public



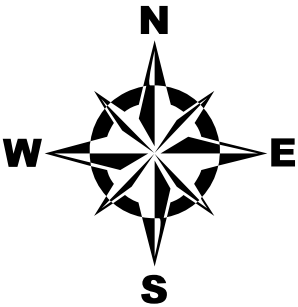
Clean Energy 1 Proposed Road Reroutes

Figure 1

10/09/18

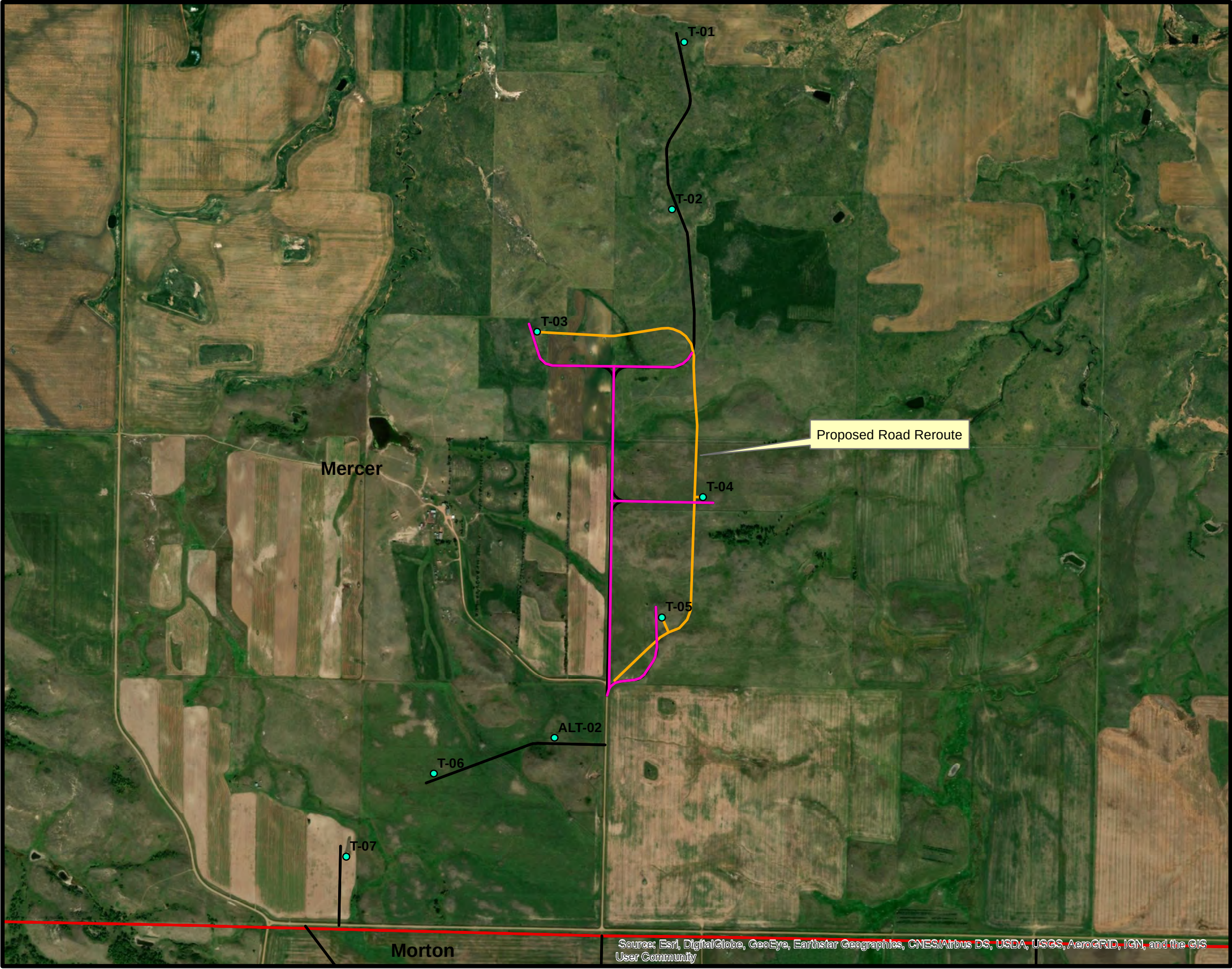
Legend

- Clean Energy 1 NDPSC permitted turbine layout
- NDPSC permitted road that will not be built
- Proposed Mercer County road reroutes
- Access roads permitted by NDPSC
- County



0.5

Miles



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





**STATE
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of Museums since 1986

July 9, 2012

Mr. Wade Burns
Beaver Creek Archaeology
301 1st St NE, Suite 201
Mandan ND 58554

NDSHPO REF.: 12-1216 PSC Case number PU 11-662 "ACE Wind Energy Center: A Class III Cultural Resource Inventory, Mercer and Morton Counties, North Dakota"

Dear Mr. Burns:

We reviewed NDSHPO REF.: 12-1216 PSC "ACE Wind Energy Center: A Class III Cultural Resource Inventory, Mercer and Morton Counties, North Dakota," and find the report acceptable.

We concur with "No Historic Properties Affected" and "No Significant Sites Affected" determinations provided that the recommendations provided on page 27 of the report are followed (enclosed). Also, the project is to be of the nature stated, and continue to take place in plotted locations in the report documentation, unless addendums are filed and approved by this office.

Thank you for the opportunity to review this project. If you have questions please contact either Paul Picha at ppicha@nd.gov or (701) 328-3574 or Susan Quinnell at squinnell@nd.gov or (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)
and
Director, State Historical Society of North Dakota

CC: PSC

Conclusion and Recommendation

In November 2011 and March 2012, BCA conducted a Class III Cultural Resource Inventory of the proposed ACE Project.

During the field inventory, BCA archaeologists identified thirteen (13) previously unrecorded cultural resources. Resources included ten Native American Stone Cairns (32ME2421, 32MO1395, 32MO1396, 32MO1397, 32MO1398, 32MO1399, 32MO1400, 32MO1403, 32ME2422, 32ME2423), one Native American Stone Circle (32MO1401), one Native American Cultural Material (CM) Scatter (32MO1402). All sites have been recommended potentially eligible to the National Register of Historic Places (NRHP) by BCA. One Native American Isolated Find (32MOx543) was also found. Isolated finds are not eligible to the NRHP.

A total of nine architectural locations were looked at during the Inventory. These were selected for potentially containing eligible structures. No buildings were deemed to be potentially eligible to the NRHP (See table 6). One previously recorded architectural site (32MO189) is potentially eligible to the NRHP.

BCA recommends that all potentially eligible sites be avoided and flagged/staked off prior to construction. It is recommended that potentially eligible sites located close to linear project features be buffered 50 feet, and sites located close to turbine locations be buffered 100 feet, and that stakes/flags be placed along these buffer zones (see maps in Appendix C).

The APE crosses into previously recorded site lead 32MOx253. During the fieldwork, this site lead was not observed. BCA recommends that the site lead or ineligible site do not need to be avoided during construction as long as the Project is limited to the inventoried corridors outlined on the maps in Appendix C.



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HISTORICAL
SOCIETY
OF NORTH DAKOTA

October 4, 2018

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Sara Otte Coleman
Director
Tourism Division

Kelly Schmidt
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Alvin A. Jaeger
Secretary of State

Melissa Baker
Director
Parks and Recreation
Department

Thomas Sorel
Director
Department of
Transportation

Claudia J. Berg
Director

Accredited by the
American Alliance
of Museums since 1986

Ms. Brittany Brooks
Principal Investigator
Beaver Creek Archaeology Inc.
1632 Capitol Way
Bismarck, ND 58501

ND SHPO Ref: 12-0189 ND Public Service Commission (PSC) "Addendum to the Clean Energy I Wind Farm: A Class III Intensive Cultural Resource Inventory in Morton and Mercer Counties, North Dakota"

Dear Ms. Brooks,

We reviewed ND SHPO Ref: 12-0189 ND Public Service Commission (PSC) "Addendum to the Clean Energy I Wind Farm: A Class III Intensive Cultural Resource Inventory in Morton and Mercer Counties, North Dakota," and find the report acceptable. Sites 32MO1397, 32MO1398, 32MO1399; 32MO1400, 32MO1403, 32ME2421, 32ME2422, and 32ME2423 should be avoided.

Thank you for the opportunity to review this addendum. We look forward to receipt and review of the Class I file search report. If you have questions please contact or Susan Quinnell at squinnell@nd.gov or (701) 328-3576.

Sincerely,

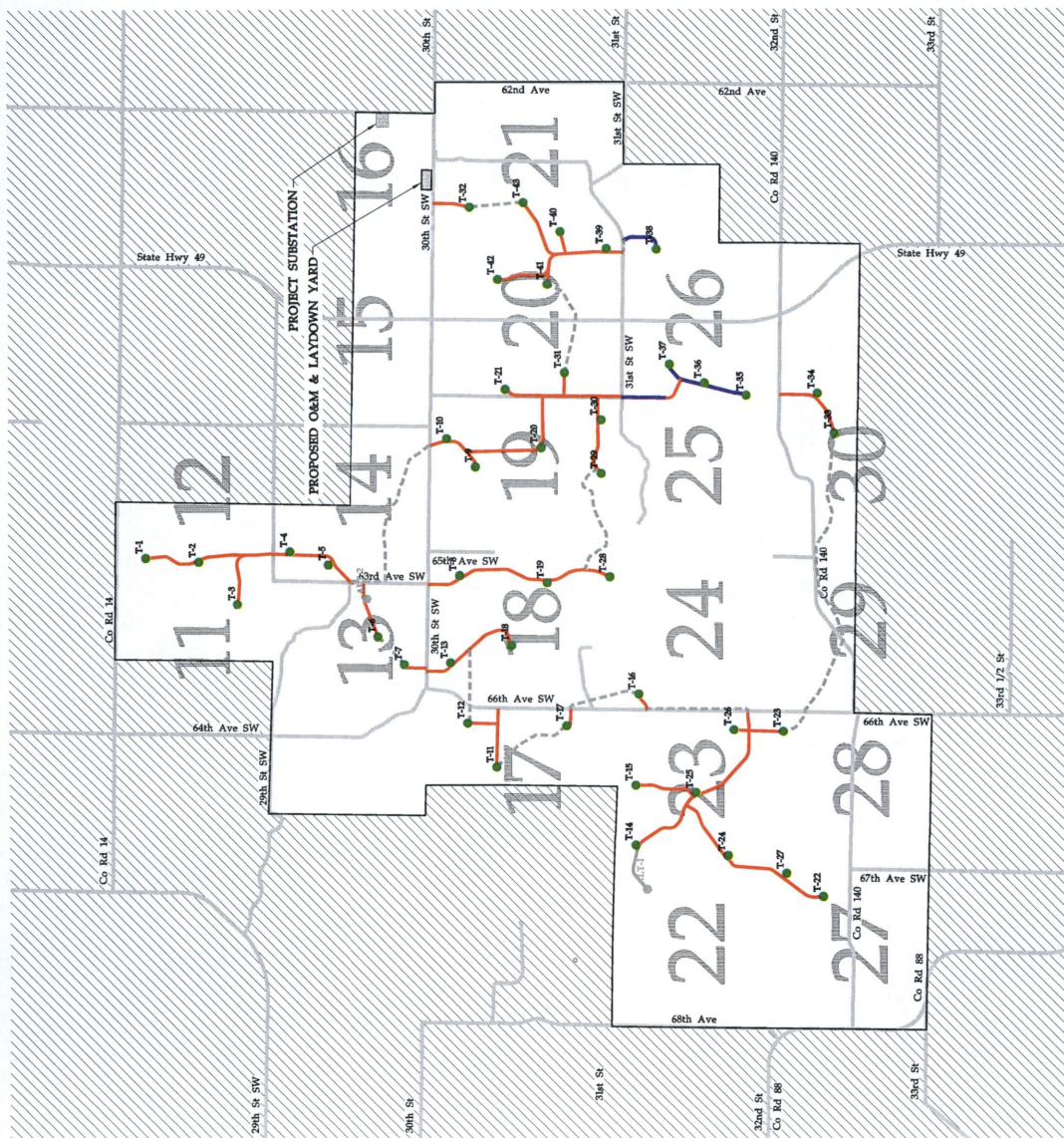
Claudia J. Berg
Director, State Historical Society of North Dakota

LEGEND:

- TURBINE LOCATION
- EXISTING PTC ACCESS ROAD
- ALTERNATE TURBINE LOCATION
- EXISTING PTC ACCESS ROAD
- ALTERNATE PROPOSED ACCESS ROAD
- PROPOSED CRANE PATH
- EXISTING CRANE PATH
- OUTSIDE OF PROJECT BOUNDARY
- SHEET NUMBER

ITEM	LENGTH
ACCESS ROAD	13.5 mi
CRANE PATH	7.6 mi
PTC ACCESS ROAD	1.1 mi

*ACCESS ROAD LENGTH INCLUDES SPIR ROADS



WANZEK

2020 2nd Avenue NW
 West Fargo, ND 58079



Glen Ullin Energy Center
 Mercer and Morton Counties,
 North Dakota

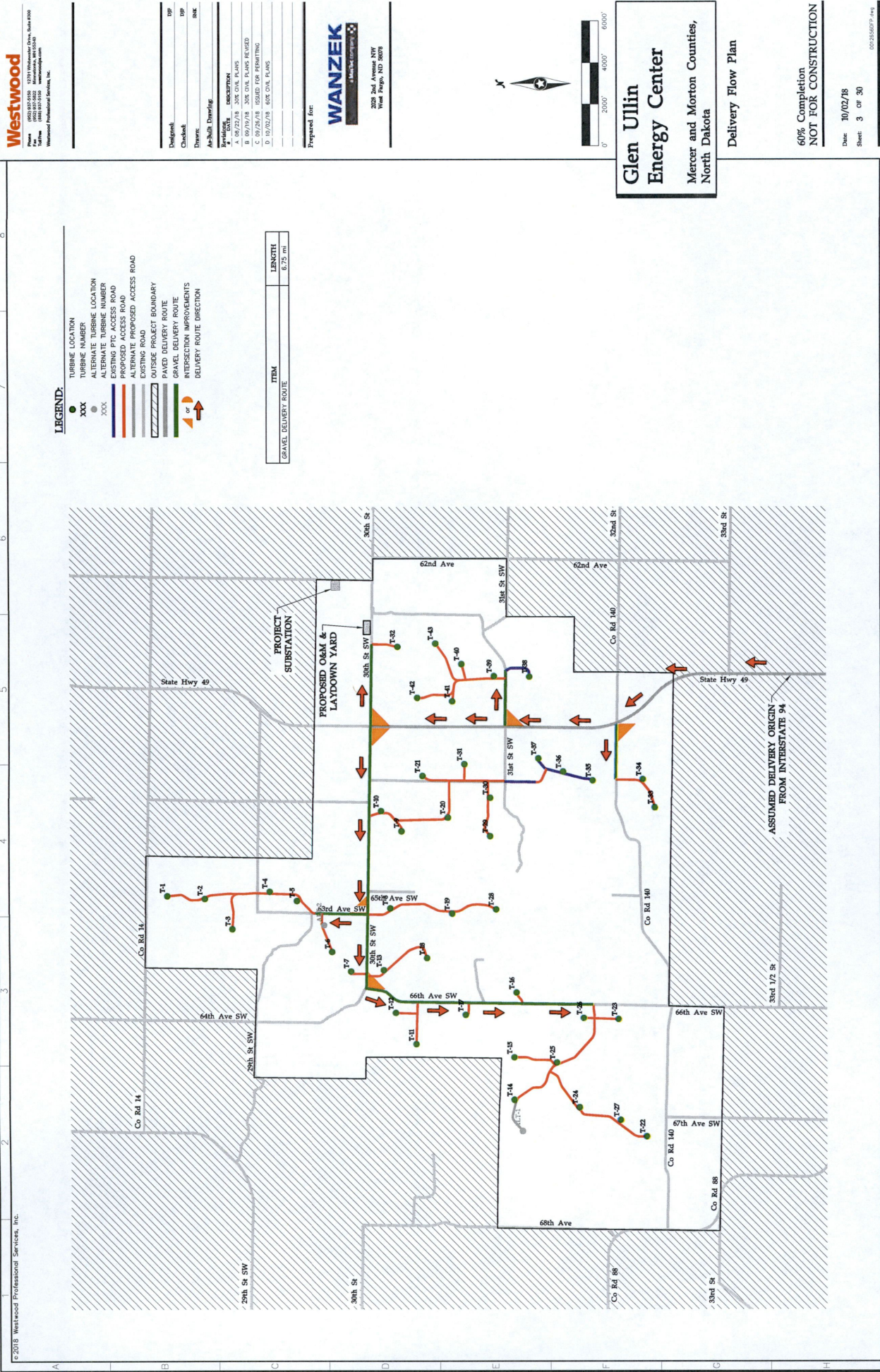
Overall Site Plan

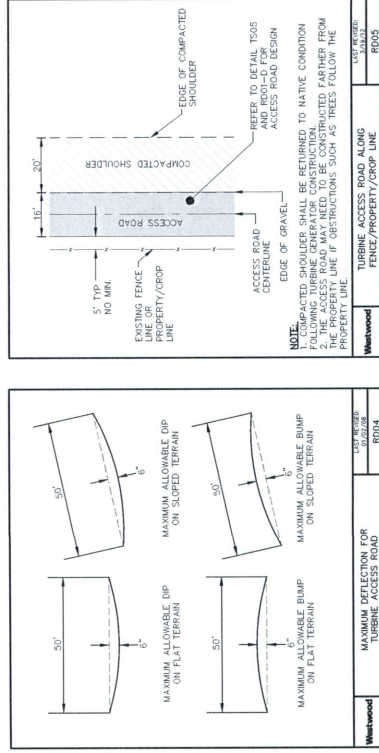
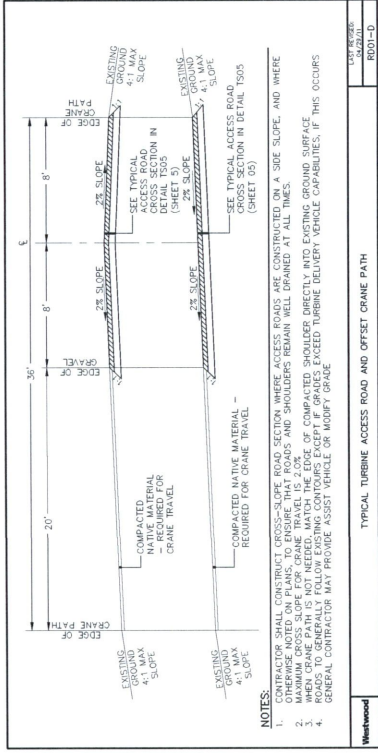
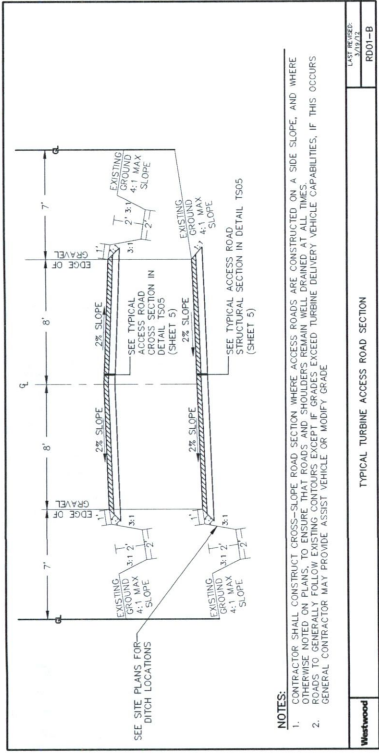
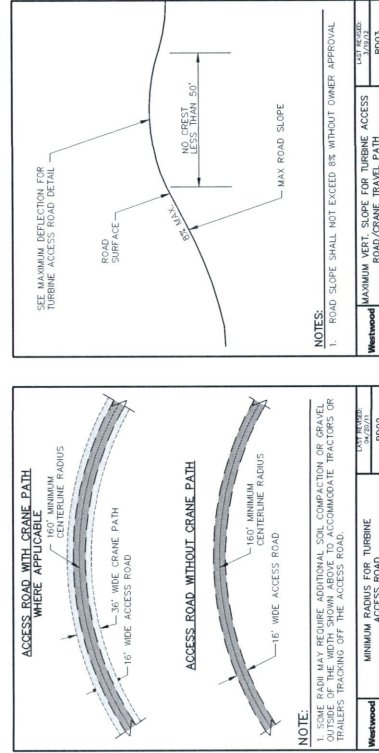
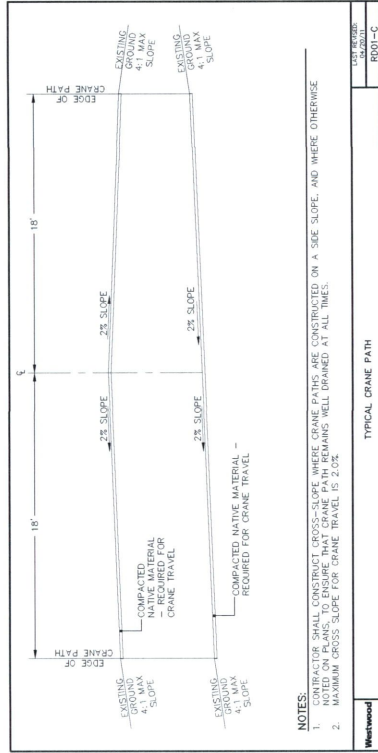
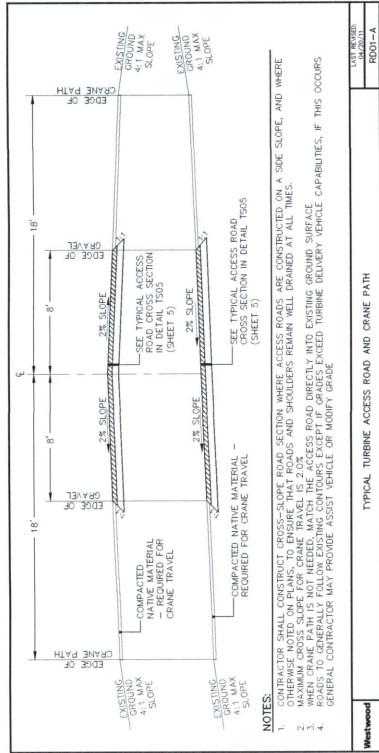
60% Completion
 NOT FOR CONSTRUCTION

Date: 10/02/18
 Sheet: 2 of 30

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Attachment C





Glen Ullin Energy Center
Mercer and Morton Counties,
North Dakota

Construction Details

60% Completion
NOT FOR CONSTRUCTION

Date: 10/02/18
Sheet: 4 of 30
002-25450719.dwg



1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL THAT MEETS TURBINE COMPONENT DELIVERY REQUIREMENTS.
2. CHANNEL SIDE SLOPES SHOULD BE GRASSED AS CLOSE TO 90-DEGREES AS POSSIBLE.
3. THE FINISHED ACCESS ROAD SURFACE SHALL BE AT AN ELEVATION THAT ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONING UPSTREAM OF THE ROAD OR ON THE ROAD SURFACE.
4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL.
5. CHANNEL SIDE SLOPES SHALL BE DESIGNED FOR BEST AVAILABLE TREATMENT OPTIONS.



- ARMORED SURFACE TREATMENT IS DESIGNED BASED OFF THE WATER VELOCITY FROM THE 25 YEAR/24 HOUR HYDRAULIC ANALYSIS.



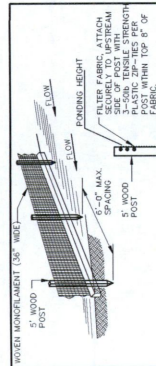
- PREPARE THE SUB GRADE OF THE LOW WATER CROSSING SO THAT FLOW WILL BE DIRECTED TO THE CENTER OF THE CROSSING. ALL SUB GRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS. SHALL BE THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS AND EDGES OF MAT EXPOSED TO VEHICULAR TRAFFIC SHALL BE EMBEDDED VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL. FOR ADDITIONAL SECTIONS OF MAT, ABOUT MATS, TIGHTLY, INSTALL FLEXAMAT SUPPLIED ZIP TIES (APPROXIMATELY 10" TO 12" SPACED) ALONG INTERSECTING FLEXAMAT SEAMS.



- NOTE:**
1. CHANNEL SLOPES TO BE MODIFIED TEMPORARILY (NON JURISDICTIONAL WATERS/NEELANDS ONLY) DURING CONSTRUCTION TO ALLOW FOR CHANNEL CROSSING AND RESISTANCE TO EROSION AND CHANNEL RESTORATION.
 2. CROSSINGS SHALL HAVE THE TOP-MOST SURFACE LEVELS BE RESTORED TO EXISTING CONDITIONS.
 3. CROSSINGS SHALL HAVE THE TOP-MOST SURFACE LEVEL A MINIMUM OF 2.5 INCHES BELOW THE STREAM CHANNEL BOTTOM.
 4. THE GRADE WALK SHALL CROSS THE DITCH AT 90° ANGLE.
 5. THE TOP BED OF THE CHANNEL CROSSING SHALL CONFORM TO THE EXISTING DITCH CROSS SECTIONAL SLOPES.
 6. THE GRADE WALK SHALL BE CONSTRUCTED TO PROVIDE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR ANTICIPATED ROAD USE AS FELLOWS DETERMINED BY THE GRADE SUPERINTENDENT.
 7. GRAVEL BAG BERMAS MAY BE NECESSARY IF FLOODS AND DRAINAGE AREAS REQUIRE. SEE DETAIL ROLL FOR GRAVEL BAG BERM INSTALLATION.



1. REFER TO DETAIL R011 AND R012 FOR JOINT DURING GRAVEL BAG BERM INSTALLATION.
2. MINIMIZE DISTURBANCE TO THE STREAM/ADJUT DURING GRAVEL BAG BERM INSTALLATION.
3. GRAVEL BAGS SHOULD BE SPAN LATERALLY ACROSS THE STREAM FROM TOP OF BANK TO TOP OF BANK.
4. GRAVEL BAGS SHOULD BE SPAN LATERALLY ACROSS THE STREAM FROM TOP OF BANK TO TOP OF BANK.
5. UPON CRANE TRAVEL COMPLETION, REMOVE GRAVEL BAG BERM AND RESTORE TO ORIGINAL CONDITION.
6. GRAVEL BAG BERMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE.



STANDARD DETAIL

ROCK CONSTRUCTION ENTRANCE

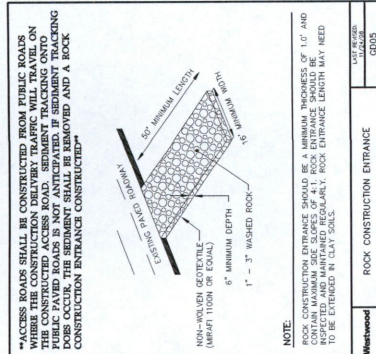
NOTE:

1. REPAIR AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED TO 1/2 THE HEIGHT OF THE FABRIC OR MORE.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. Silt fence shall be placed on slope contours to maximize ponding.
4. ALL ENDS OF THE Silt Fence shall be weighted upslope so the elevation of the bottom of fabric is higher than "ponding height".

Westwood

USE RECORD

GOODS



ROCK CONSTRUCTION ENTRANCE

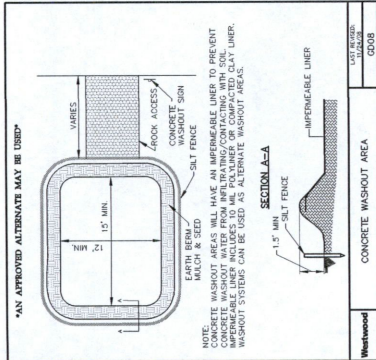
NOTE:

1. ROCK CONSTRUCTION ENTRANCE SHOULD BE A MINIMUM THICKNESS OF 1/2" AND CONTAIN MAXIMUM SIZE SLOPES OF 4:1 ROCK ENTRANCE LENGTH MAY NEED TO BE EXTENDED IN CLAY SOILS.

Westwood

USE RECORD

GOODS



CONCRETE WASHOUT AREA

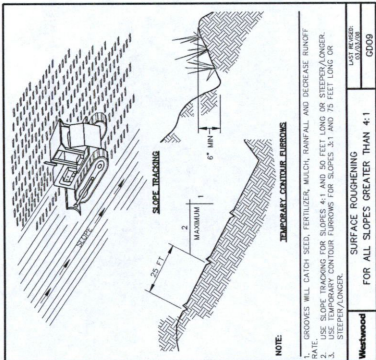
NOTE:

1. WHERE THERE IS POSITIVE DRAINAGE EXISTING TO THE EXISTING DITCH FROM THE LOT/ROAD, THE SEDIMENT DEPOSITION SHALL BE INSTALLED AROUND THE PERIMETER WHERE STORMWATER RUNOFF WILL DISCHARGE FROM LOT/ROAD AND SEDIMENT CONTROL.

Westwood

USE RECORD

GOODS



TEMPORARY CONTROL FENCES

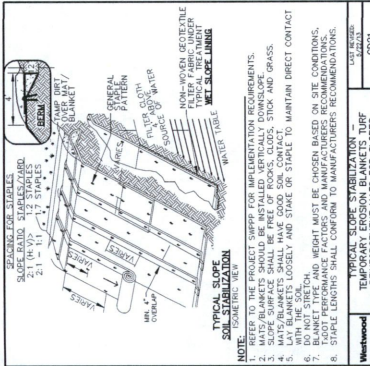
NOTE:

1. FENCES WILL CATCH SEDIMENT, MULCH, MATERIAL AND DECREASE EROSION RATE. SLOPE SPACING FOR SLOPES 4:1 AND 50 FEET LONG OR STEEPER/SHOULDER.
2. USE TEMPORARY CONTROL FENCES FOR SLOPES 3:1 AND 75 FEET LONG OR STEEPER/SHOULDER.

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USE RECORD

GOODS



TEMPORARY EROSION BLANKETS

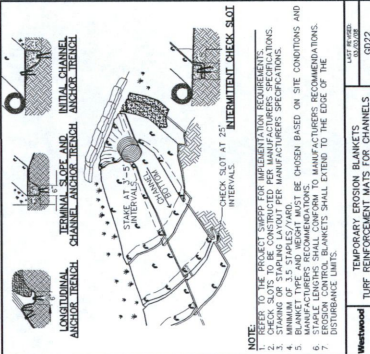
NOTE:

1. EROSION BLANKETS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE.
2. EROSION BLANKETS SHALL BE PREPARED AND APPLIED TO MATERIAL TO BE EXPOSED TO PREVENT EROSION.
3. EROSION BLANKETS SHALL BE PREPARED AND APPLIED TO MATERIAL TO BE EXPOSED TO PREVENT EROSION.
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20. EROSION BLANKETS SHALL BE PREPARED AND APPLIED TO MATERIAL TO BE EXPOSED TO PREVENT EROSION.

Westwood

USE RECORD

GOODS



TEMPORARY EROSION BLANKETS

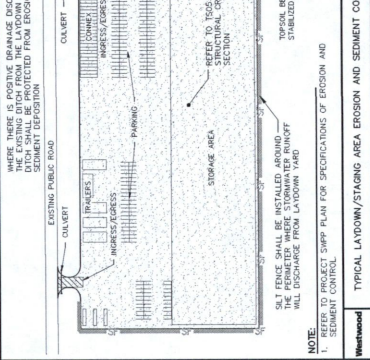
NOTE:

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20. EROSION BLANKETS SHALL BE PREPARED AND APPLIED TO MATERIAL TO BE EXPOSED TO PREVENT EROSION.

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USE RECORD

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TYPICAL LAYDOWN/STAGING AREA EROSION AND SEDIMENT CONTROL

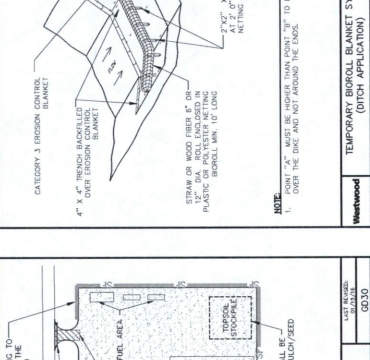
NOTE:

1. REFER TO PROJECT SWP PLAN FOR SPECIFICATIONS OF EROSION AND SEDIMENT CONTROL.

Westwood

USE RECORD

GOODS



TEMPORARY EROSION BLANKET SYSTEM (TYPICAL APPLICATION)

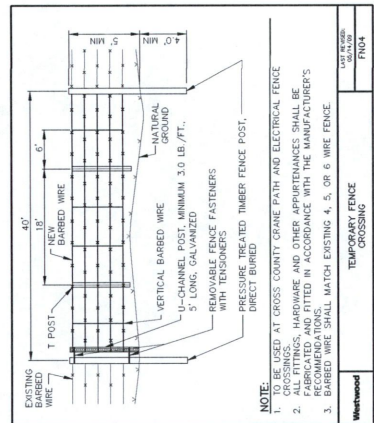
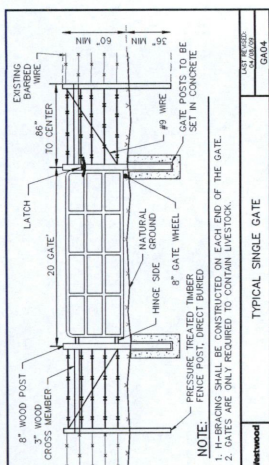
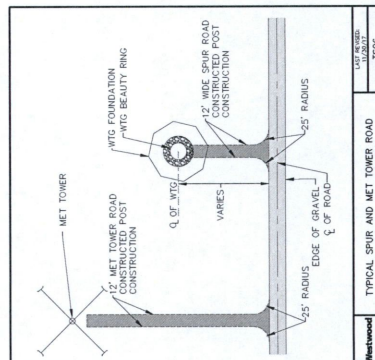
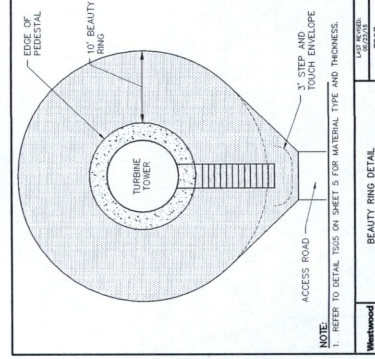
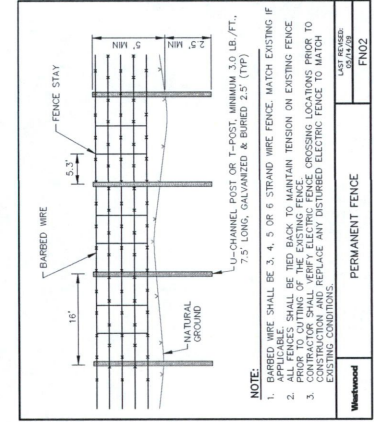
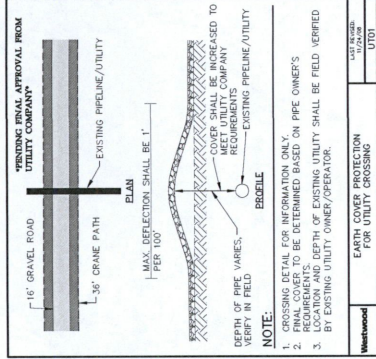
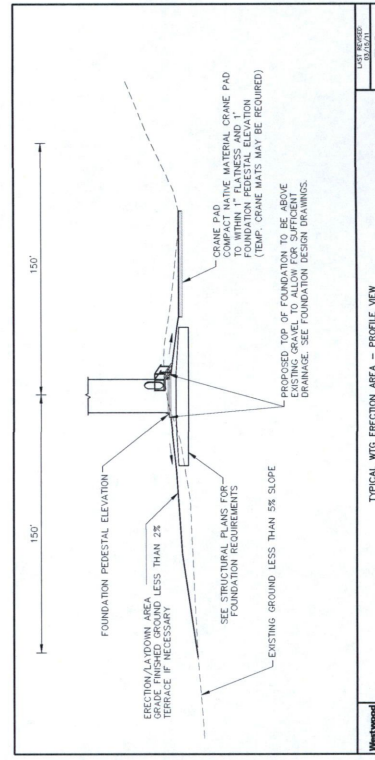
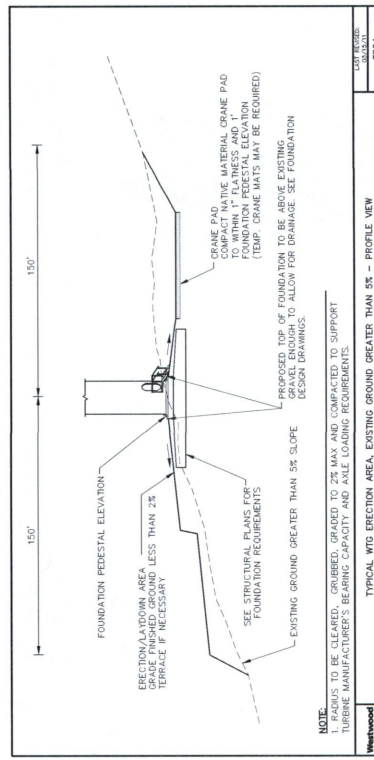
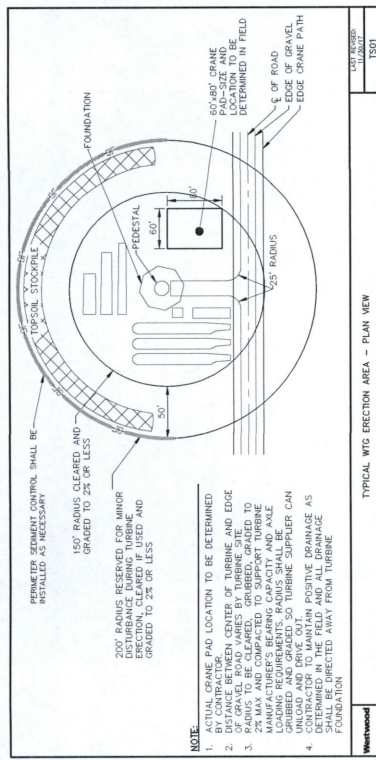
NOTE:

1. POINT "A" MATERIAL SHALL BE INSTALLED TO ENSURE THAT WATER FLOWS DOWN THE SLOPE AND NOT ACROSS THE ROLL.

Westwood

USE RECORD

GOODS



Westwood

1715 Westwood Drive, Suite 200
Westwood, ND 58052
Phone: 701.535.5522
Fax: 701.535.5523
www.westwoodnd.com

Westwood Professional Services, Inc.

CULVERT AND LOW WATER CROSSING SCHEDULE
TO BE ADDED AT A LATER DATE

TURBINE COORDINATES
GARDEN/NORTH DAKOTA STATE PLANE - SOUTH ZONE, US FOOT

Turbine Number	Northing	Eastng
T-1	481808.162609	1637973.452878
T-2	490011.074228	1637840.667097
T-3	488693.640309	1636393.597548
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T-40	477780.694015	1648954.335379
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Designed:	DJP
Checked:	DJP
Drawn:	DNK
As-Built Drawing:	
Revisions:	
A 06/22/18	50% CIVL PLANS
B 09/19/18	50% CIVL PLANS REVISED
C 09/28/18	ISSUED FOR PERMITTING
D 10/02/18	60% CIVL PLANS

Prepared For:

WANZEK

2023 2nd Avenue NW
West Fargo, ND 58079

Glen Ullin
Energy Center

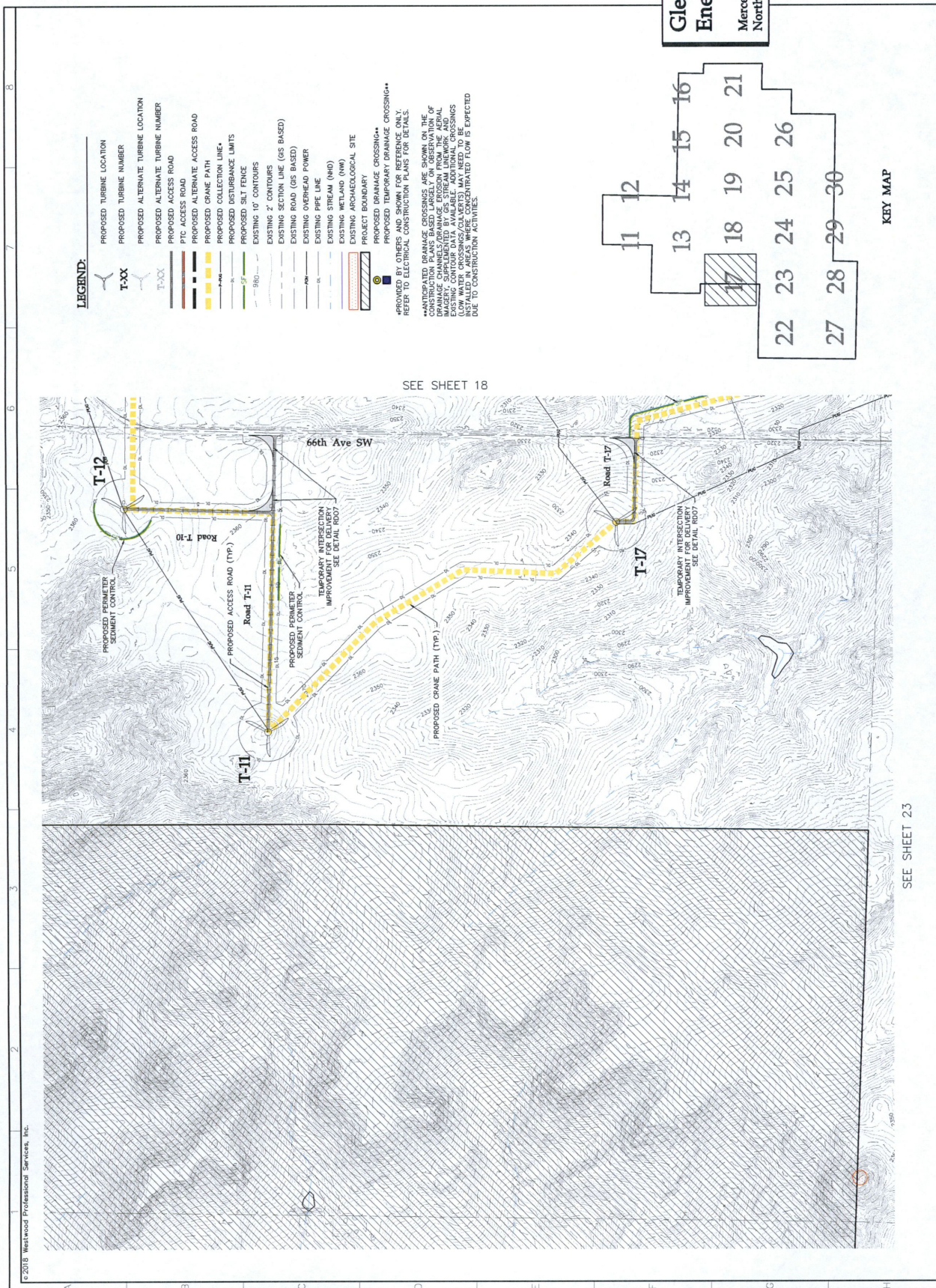
Mercer and Morton Counties,
North Dakota

Construction Details

60% Completion
NOT FOR CONSTRUCTION

Date: 10/02/18
Sheet: 9 OF 30

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Minnetonka, MN 55343
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(952) 937-6822
(616) 937-6150
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Westwood Professional Services, Inc.



KEY MAP

**Glen Ullin
Energy Center**
Mercer and Morton Counties,
North Dakota

Civil Plan Set 12 11 17

**60% Completion
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Date: 10/02/18
Sheet: 17 of 30

0-9

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Westwood Professional Services, Inc.

Designated	Checklist	Drawings	Re-Built Drawing	Re-Built Drawing Description
D99			A. 08/22/18	30% CIVIL PLANS
D97			B. 09/19/18	30% CIVIL PLANS REVISED
D96			C. 09/26/18	ISSUED FOR PERMITTING
D95			D. 10/02/18	60% CIVIL PLANS

Prepared for:

WANZEK

a MathNet Company

2028 2nd Avenue NW
West Fargo, ND 58078

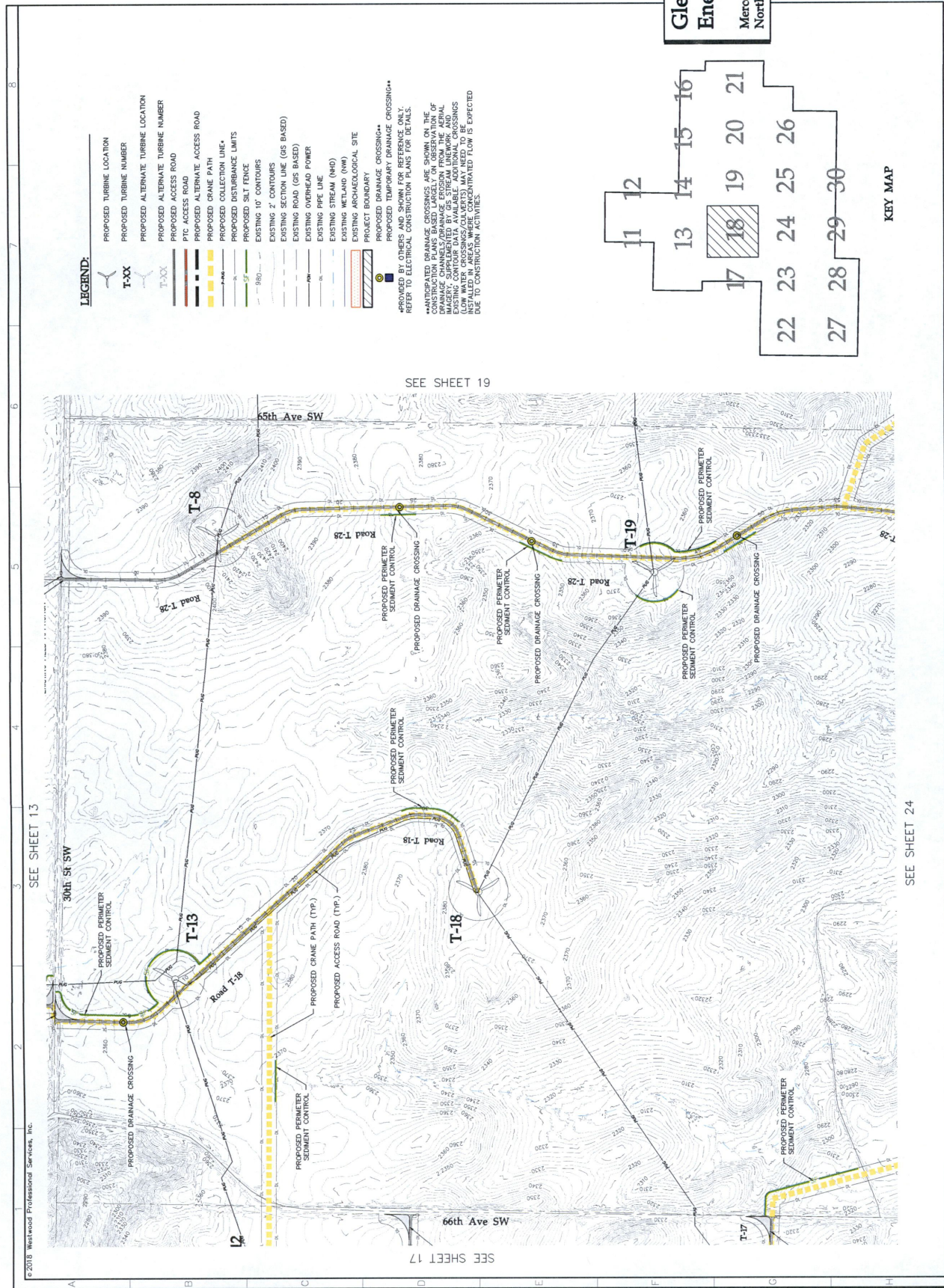


**Glen Ullin
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North Dakota

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Sheet: 18 OF 30



SEE SHEET 13

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DSP	DSP	RMC
Designed:		
Checkback:		
Drawn:		
As-Built Drawing:		
Servicing:	Issued:	
A 08/27/18	30% CIVIL PLANS	
B 09/19/18	30% CIVIL PLANS REVISED	
C 09/29/18	ISSUED FOR PERMITTING	
D 10/02/18	60% CIVIL PLANS	

Prepared for:

WANZEK

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2025 2nd Avenue NW
Woodbury, NJ 08078

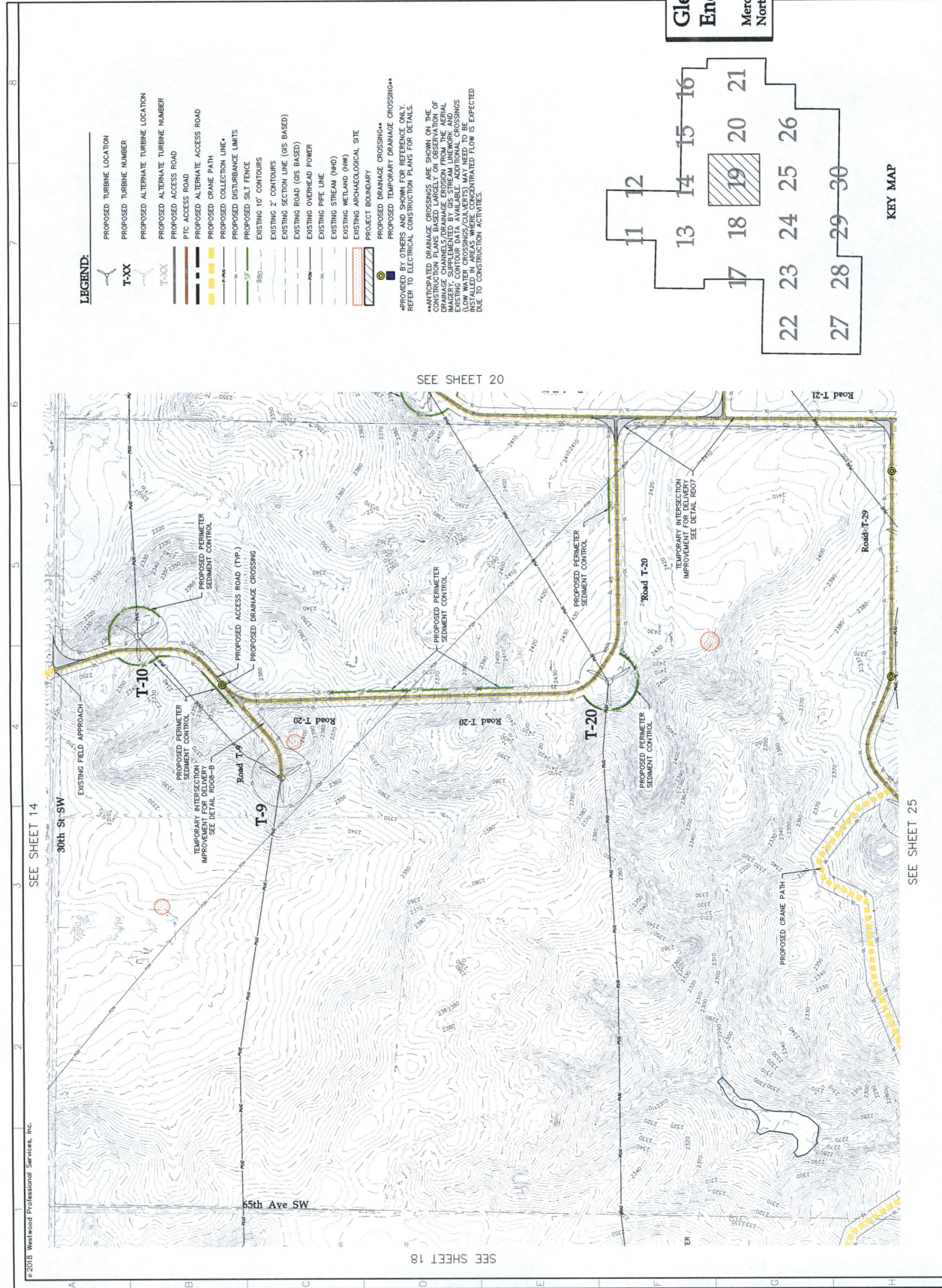


**Glen Ullin
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Mercer and Morton Counties,
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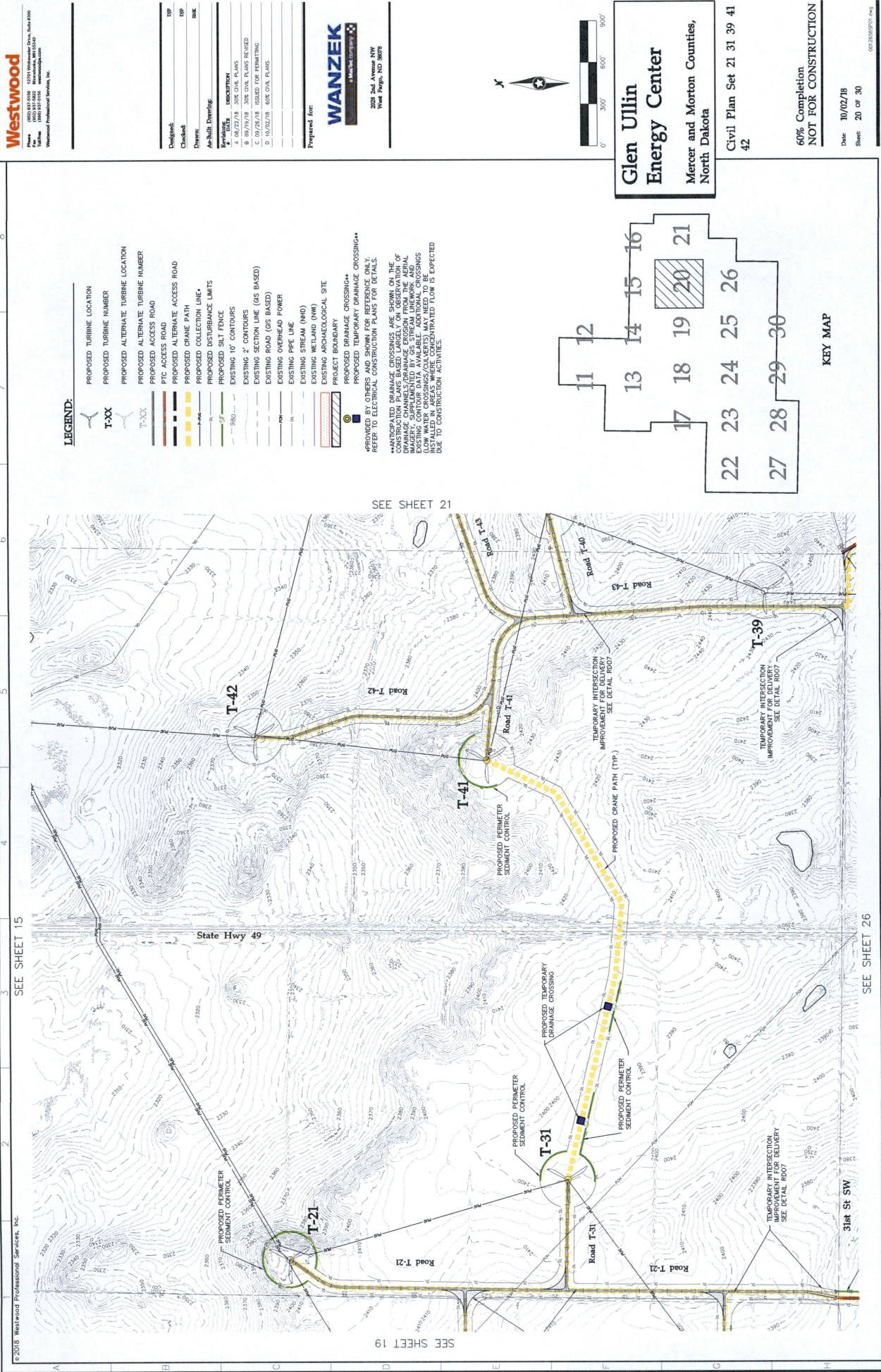
Civil Plan Set 9 10 20

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Date: 10/02/18
Sheet: 19 OF 30



Attachment C



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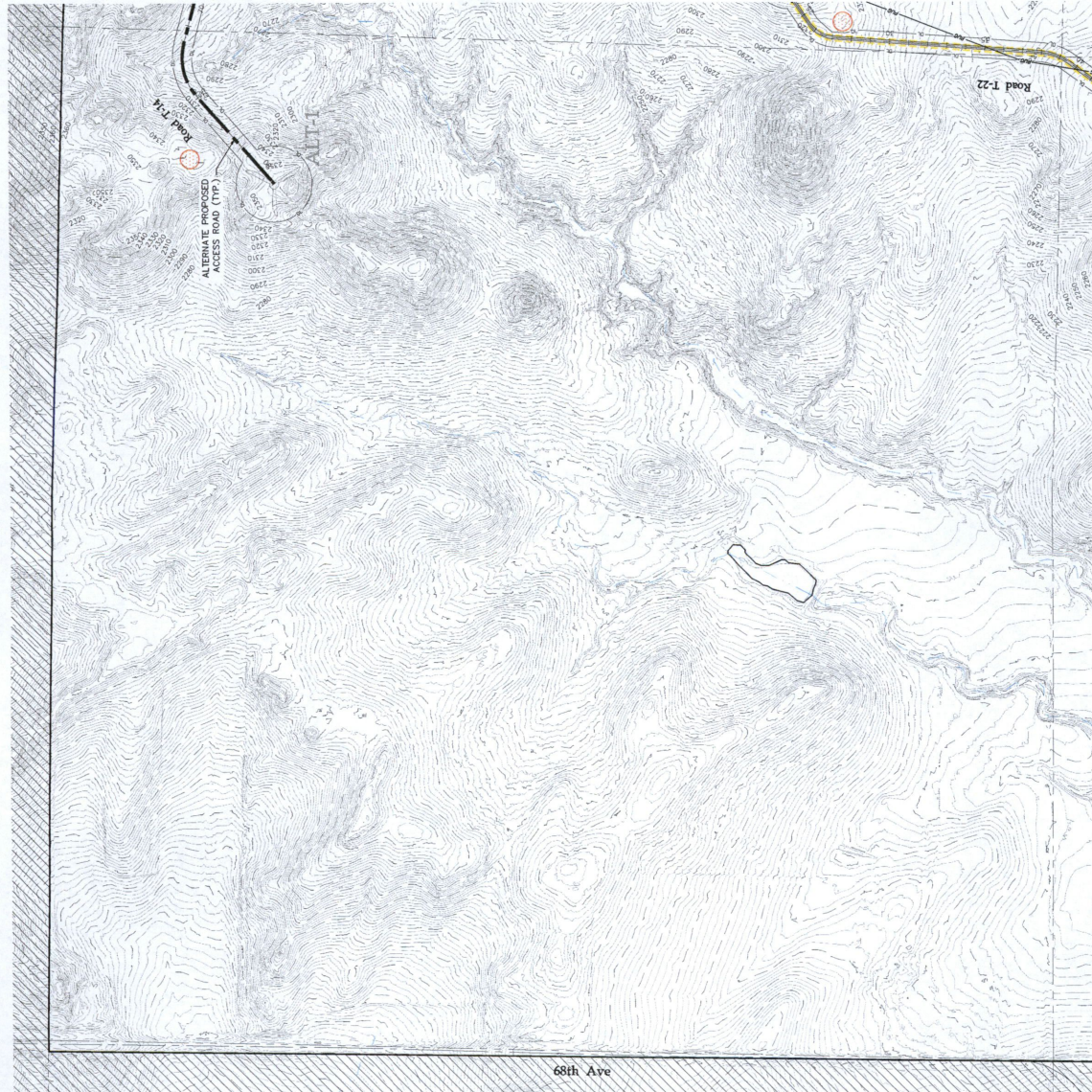
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Checked:	DTP	DATE	TIME
Drawn:	DATE	TIME	
As-built Drawing			
Revision	DATE	DESCRIPTION	
A	08/22/18	30K CIVIL PLANS	
B	09/19/18	30K CIVIL PLANS REVISED	
C	09/25/18	ISSUED FOR PERMITTING	
D	10/02/18	60K CIVIL PLANS	

Prepared for:

WANZEK

— a Maritz Company —

2026 2nd Avenue NW
West Fargo, ND 58078



SEE SHEET 23



**Glen Ullin
Energy Center**
Mercer and Morton Counties,
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Civil Plan Set ALT 1

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Sheet: 22 OF 30

0012656SP01.dwg

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Designator	Description	Date
D9		
D8		
D7		
D6		
D5		
D4		
D3		
D2		
D1		
D0		

WANZEK

2028 2nd Avenue NW
West Fargo, ND 58078

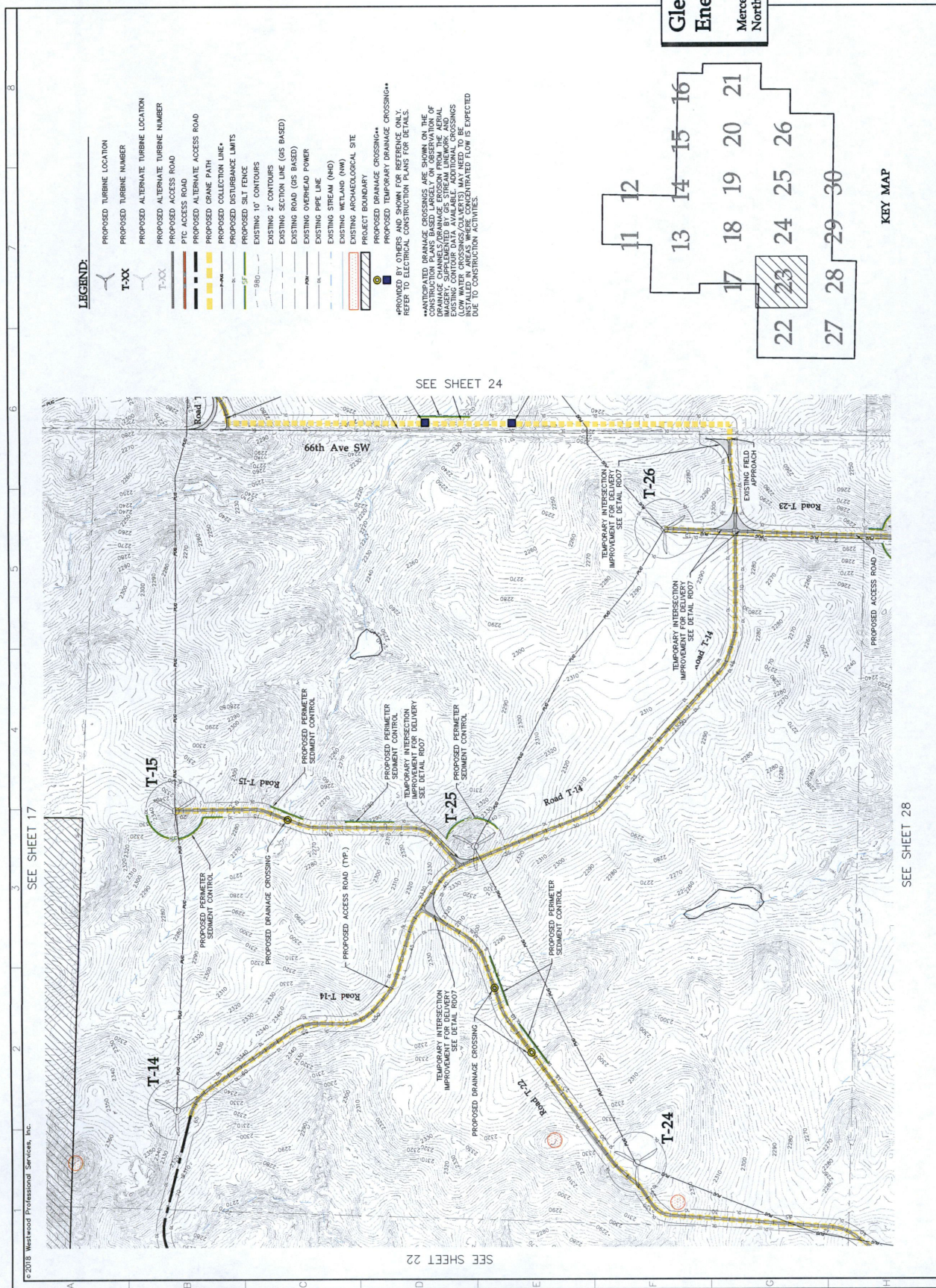
**Glen Ullin
Energy Center**
Mercer and Morton Counties,
North Dakota

Civil Plan Set 14 15 24 25
26

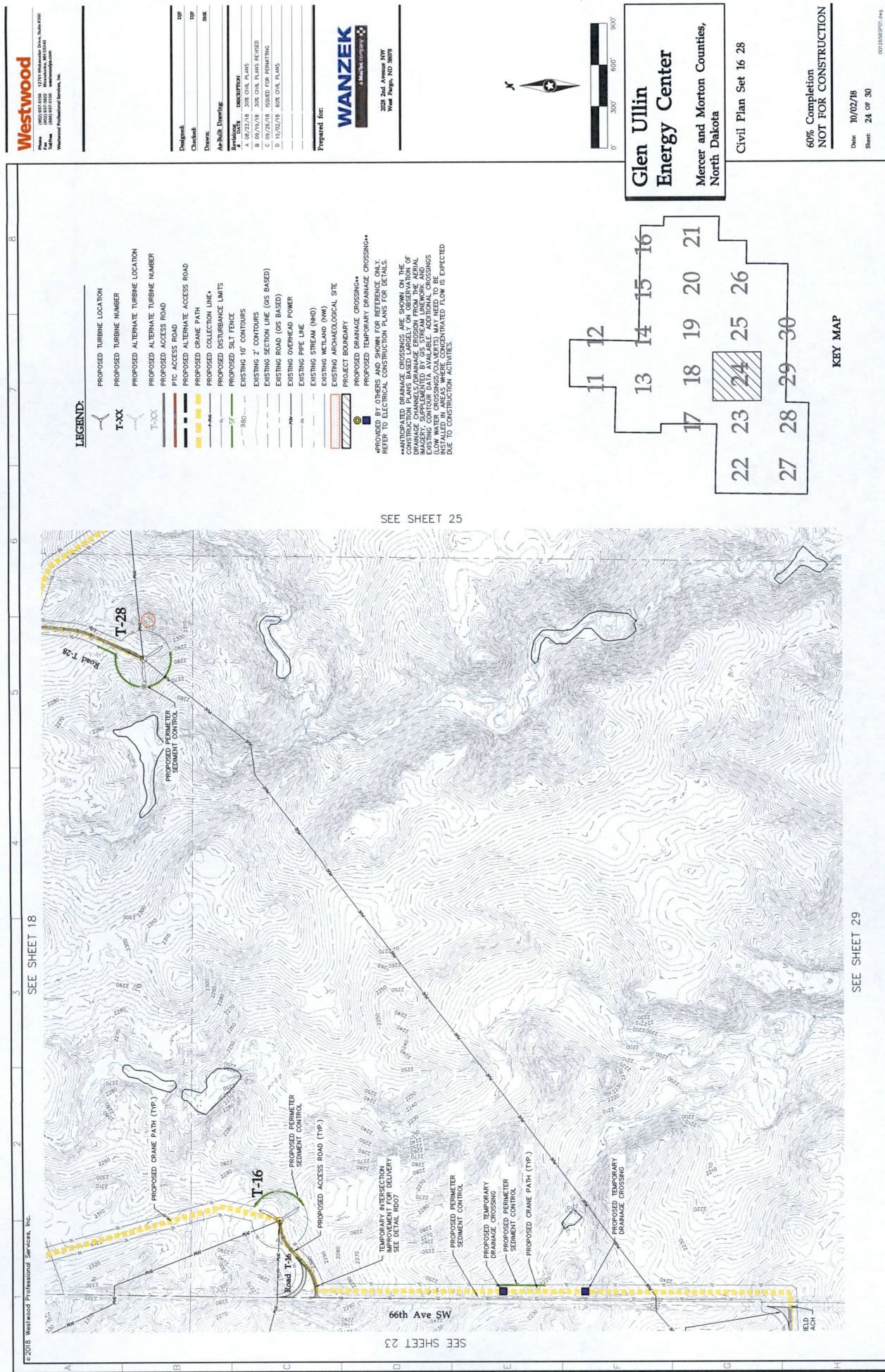
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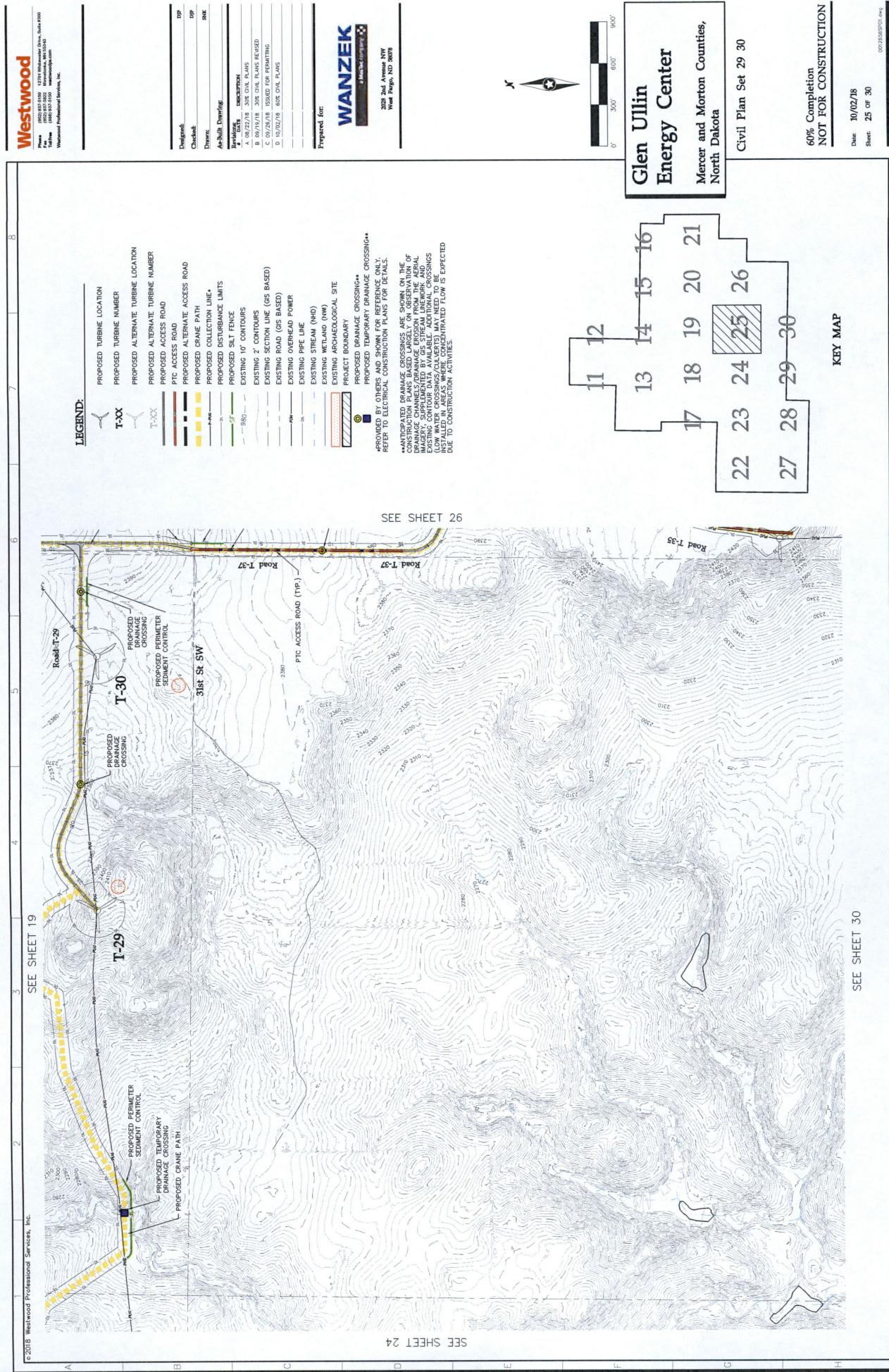
Date: 10/02/18
Sheet: 23 OF 30

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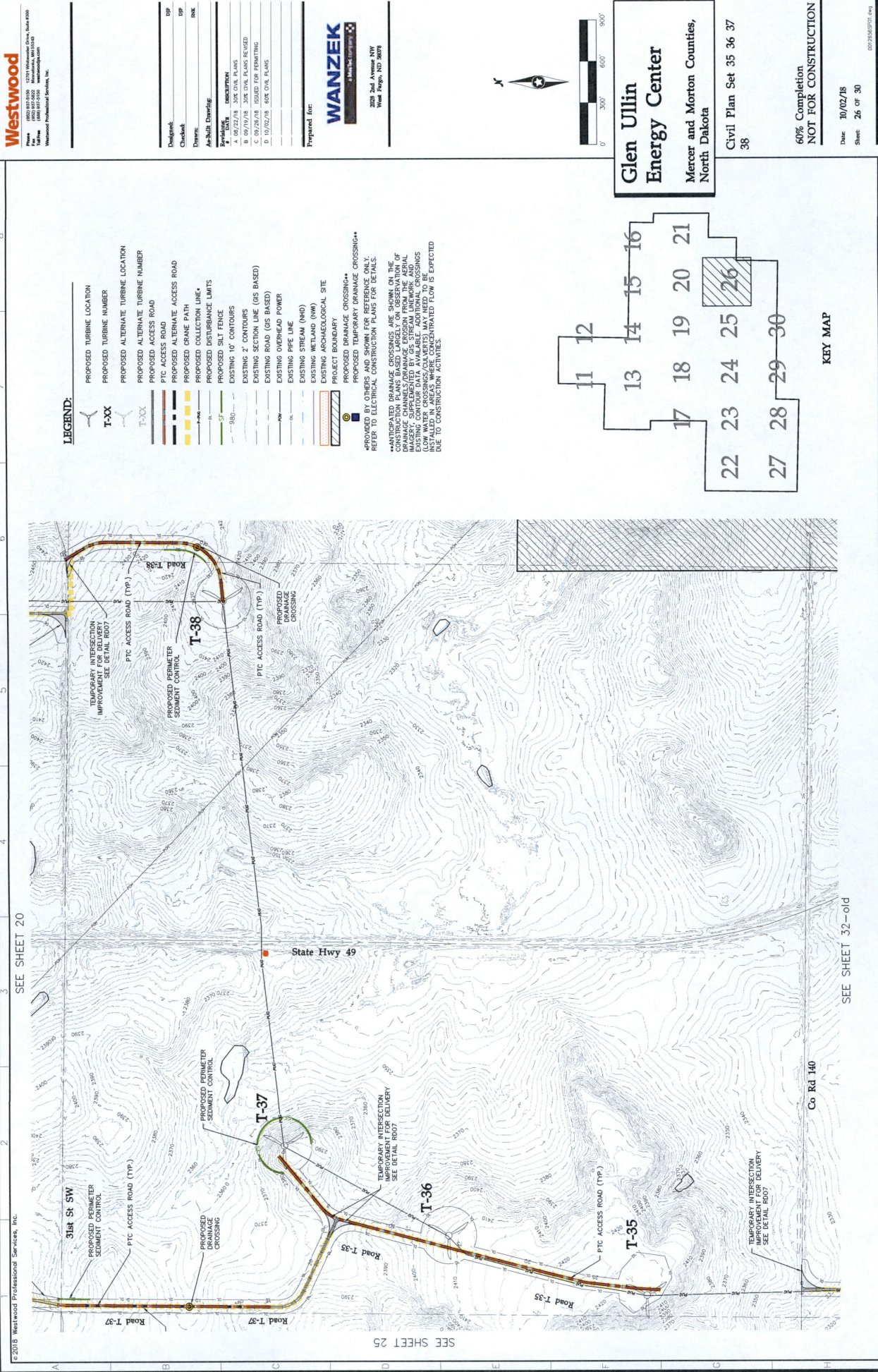


Attachment C





Attachment C



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DATE	DESCRIPTION	AMOUNT	BALANCE
10/02/18	30% CIVIL PLANS		
09/19/18	30% CIVIL PLANS REVISED		
09/26/18	ISSUED FOR PERMITTING		
10/02/18	60% CIVIL PLANS		

Prepared for:

WANZEK

a MathNet Company

2028 2nd Avenue NW
West Fargo, ND 58078

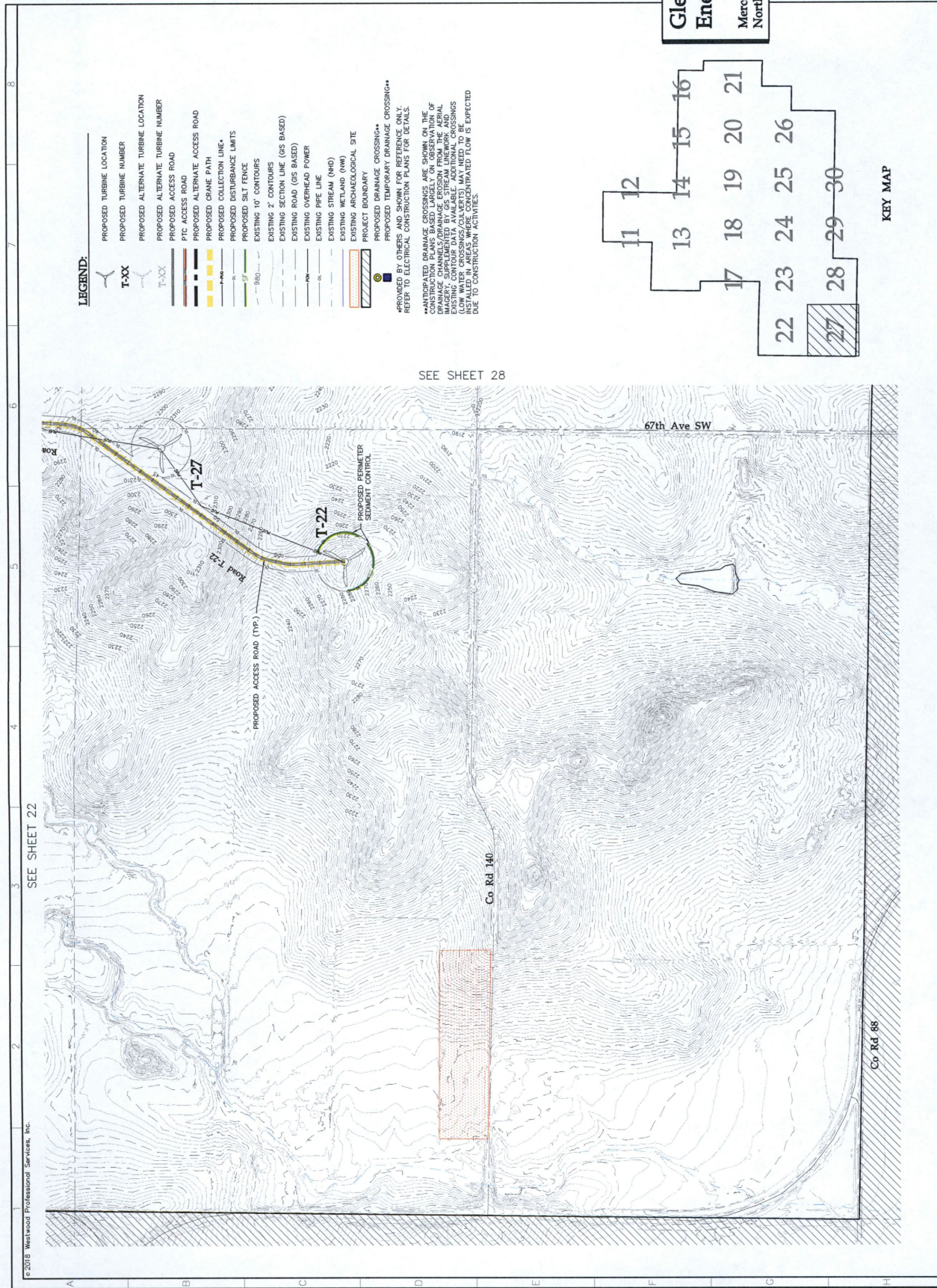


**Glen Ullin
Energy Center**
Mercer and Morton Counties,
North Dakota

Civil Plan Set 22 27

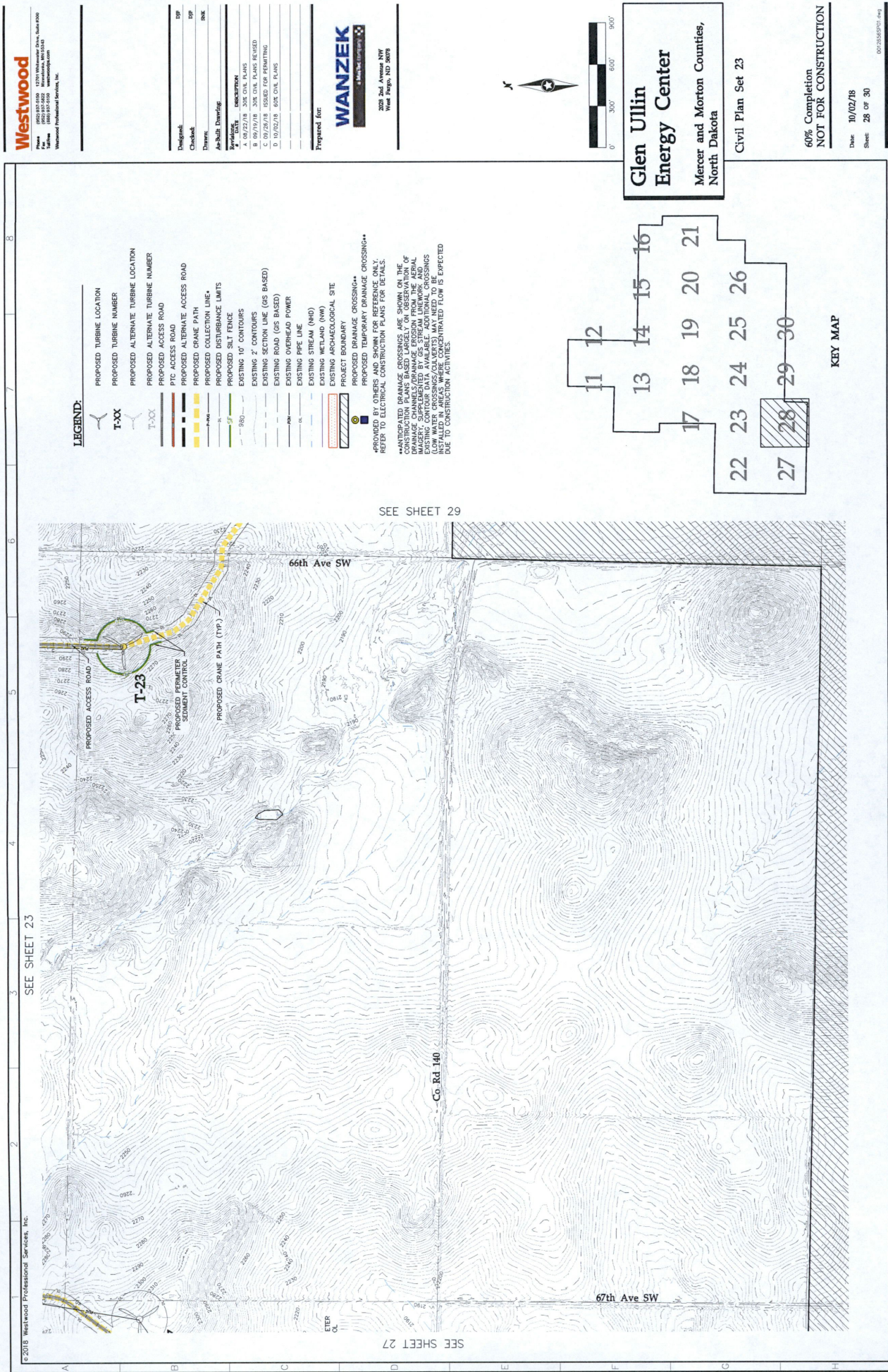
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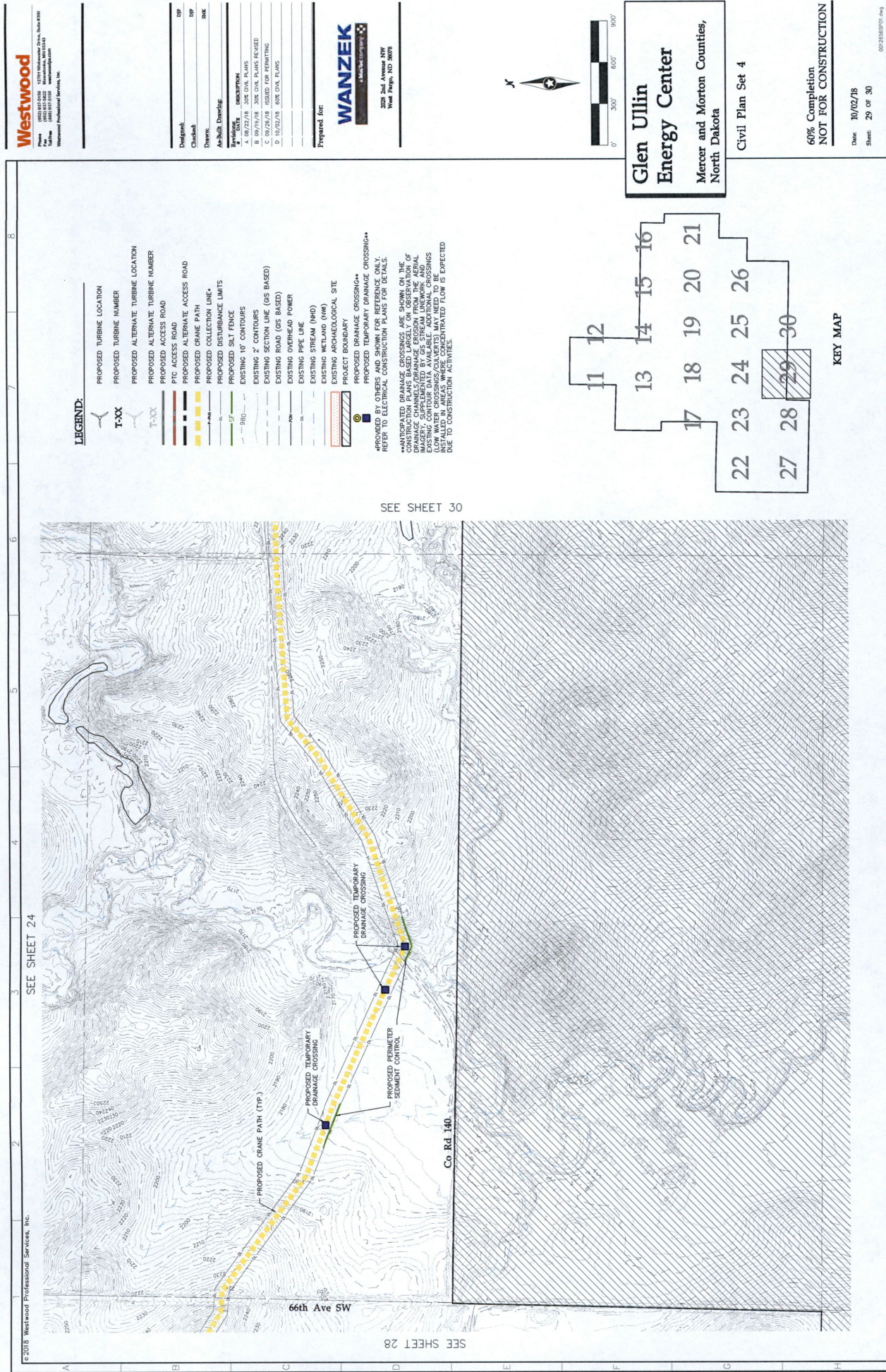
Date: 10/02/18
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KEY MAP

Attachment C





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SEE SHEET 29

[illegible]

Prepared for:

WANZEK

a Market Company

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West Fargo, ND 58078



**Glen Ullin
Energy Center**
Mercer and Morton Counties,
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