



# Badger Wind LLC

Amend-Badger Wind Project-Logan & McIntosh Counties

Case No. PU-24-87

Construction Inspection Report



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144 PU-24-87 Filed 08/26/2025 Pages: 53

Construction Inspection Report

SEH - Short Elliot Hendrickson Inc.

Loretta A. Marshik, PE



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for All of Us®

August 19<sup>th</sup>, 2025

RE: Case No. PU-24-87  
Badger Wind LLC  
Amend-Badger Wind Project-Logan &  
McIntosh Counties  
Construction Inspection Report

Mr. Robert Frank  
Utility Financial Analyst, Public Utilities Division  
North Dakota Public Service Commission  
600 East Boulevard Avenue, Dept. 408  
Bismarck, ND 58505-0480

Dear Mr. Frank:

Attached is the Construction Inspection Report for the above referenced project. This report includes the following:

1. Executive Summary
2. Inspection Report
3. Appendix A – Photo Location Maps
4. Appendix B - Photographs

Sincerely,

A handwritten signature in blue ink that reads "Loretta A. Marshik".

Loretta A. Marshik, PE  
Short Elliott Hendrickson Inc.  
905 Tacoma Ave., Suite 2  
Bismarck, ND 58504



**EXECUTIVE SUMMARY**

Date: Ins. 8/12/25, report 8/28/25

Project: Badger Wind, LLC, PU-24-87

The Construction Inspection visit included observation and documentation of means and methods for constructing haul roads, turbine footprints, turbine foundations, and structure erection. Other topics investigated included condition of previously installed erosion control measures (ECMs) and condition of topsoil stockpiles from the 2024 Topsoil Stripping Inspection. Finally, the inspector documented site safety conditions and procedures.

**ISSUES REQUIRING RESOLUTION:** Several areas throughout project footprint had silt fence that was either experiencing buildup of sediment or where posts had not been driven correctly in a section of the silt fence. See photos P6-8, 11-12, & 22 as evidence.

**PROPOSED RESOLUTION(S):** Contractor should have personnel go through project footprint and check all erosion control for silt deposits (and clean any deposits found), verify silt fence staking is adequate (and if not, reinstall those sections), and ensure to look for any wind degradation of silt fence and replace any silt fence deteriorated by the wind. SEH will verify that changes have occurred during next construction inspection.

Upon Inspection, the site appears to follow the means and methods discussed with the inspector and meets the construction and Commission siting rules, laws, and applicable Orders except those listed above.

Inspector's Signature



## Daily Construction Observation Report

Job No./file  
NDPSC 171771

Date  
08/12/2025

**Project:** Badger Wind

**Location:** Tower 23B04

**RPR Name:** Dalton Bruce

**Start Time:** 9:58 AM

**End Time:** 4:30pm

**Morning Weather:** Sunny

**Afternoon Weather:** Sunny

**Temp. (F):** High 77 Low 55

**Rainfall (in):** 0

**Utility Conflicts:** No

### Overall Comments:

**Prime Contractor:** Blattner Energy

**Foreman Name:** Reed Bartell

**# of Crews:** 250

**Equipment Onsite:** Dozers, Cranes, Road Graders, Skid Steers

**Contractor Notes:** At 4:07 pm I had James call someone to escort me closer to 13B03 for documentation purposes.

### Observations

**Time:** 11:32am

**Description:** Site excavation

**Comments:** Reed and I arrived to observe excavation activities. Orsted used a track excavator to remove material from where the wind turbine base is to go. Contractor verified elevations for grading using a laser level for checking work done by dozer with GPS.

**Time:** 11:34am

**Description:** Means and methods

**Comments:** Orsted used spray paint to mark limits of excavation as shown in photos. Rebar is on site for later use in slab construction.

**Time:** 11:54am

**Description:** Means and methods

**Comments:** Process: topsoil was stripped and stored, all on site material was placed and compacted to make construction pad. Excavator pulling material for base, dozer will fine grade and laser level will be used to ensure correct elevations.

**Time:** 12:00pm

**Description:** Erosion Control

**Comments:** Contractor has 5 separate water trucks patrolling project roads to mitigate dust and for proof rolling.

**Time:** 1:00pm

**Description:** Means and methods

**Comments:** Crews used cranes to lift and install the base of the first wind turbine. Crews then bolted the piece to the foundation. Crew will continue erecting pieces.

**Time:** 1:01pm

**Description:** Site Condition

**Comments:** Site 13B02 is very wet. Reed and Levi are concerned about all the water and wet soil. Levi wants to bring out a box grader and a put more material down to absorb the water.

**Time:** 1:49pm

**Description:** Means and methods

**Comments:** Dozer operator was cleaning up subsoil to be compacted before applying next lift of subsoil to get area around foundation up to grade.

**Time:** 2:23pm

**Description:** Misc.

**Comments:** We got stuck checking on downed silt fence. Waiting on someone to pull us out. Reed had transferred me over to James at approximately 1:30.

**Time:** 2:53pm

**Description:** Misc

**Comments:** The grader is now stuck from trying to pull us out. Next up the dozer will attempt to pull us out.

**Time:** 3:38pm

**Description:** Work progress

**Comments:** At 12B01, crew finished the base of their concrete foundation and have the rebar bolts in place to pour the pad for the turbine base. Crew has pump installed to dewater area before backfilling work occurs.

**Time:** 4:02pm

**Description:** Meeting

**Comments:** Sitting in on a safety meeting regarding the different practices, as well as talking about offloading of materials.



**INSPECTOR'S DIARY**

Date: 8/21/2025

Project: Badger Wind, LLC	Contractor or Sub: Blattner Energy
Photo Description:	
Photo Name:	Description:
P1 - Erosion Control/Topsoil Storage	
P2 - Erosion Control/Topsoil Storage	
P3 - Access Road	
P4 - Erosion Control/Topsoil Storage/Access Road	
P5 - Construction Means and Methods	
P6 - Potential Erosion Control Issue	
P7 - Potential Erosion Control Issue	
P8 - Potential Erosion Control Issue	
P9 - Erosion Control	
P10 - Access Road	
P11 - Potential Erosion Control Issue	
P12 - Potential Erosion Control Issue	
P13 - Topsoil Storage	
P14 - Site Conditions	
P15 - Site Conditions	
P16 - Site Safety	
P17 - Means and Methods	
P18 - Equipment	
P19 - Equipment	
P20 - Means and Methods	
P21 - Topsoil Storage	
P22 - Potential Erosion Control Issue	
P23 - Means and Methods	
P24 - Site Conditions	
P25 - Means and Methods/Equipment	
P26 - Equipment	
P27 - Material Storage	
P28 - Material Storage	
*See attached Photo Layout Map with location of each photo (P1-P48), and attached pages of photos	

Inspector's Signature



**INSPECTOR'S DIARY**

Date: 8/21/2025

Project: Badger Wind, LLC	Contractor or Sub: Blattner Energy
Photo Description:	
Photo Name:	Description:
P29 - Equipment	
P30 - Equipment	
P31 - Equipment	
P32 - Site Conditions	
P33 - Site Conditions	
P34 - Materials	
P35 - Means and Methods	
P36 - Site Conditions	
P37 - Site Conditions	
P38 - Misc.	
P39 - Means and Methods	
P40 - Site Conditions	
P41 - Site Conditions	
P42 - Equipment/Means and Methods	
P43 - Means and Methods	
P44 - Site Safety	
P45 - Site Safety	
P46 - Equipment	
P47 - Equipment	
P48 - Equipment	
<p>*See attached Photo Layout Map with location of each photo (P1-P48), and attached pages of photos</p>	

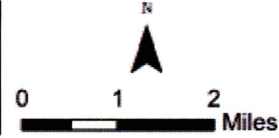
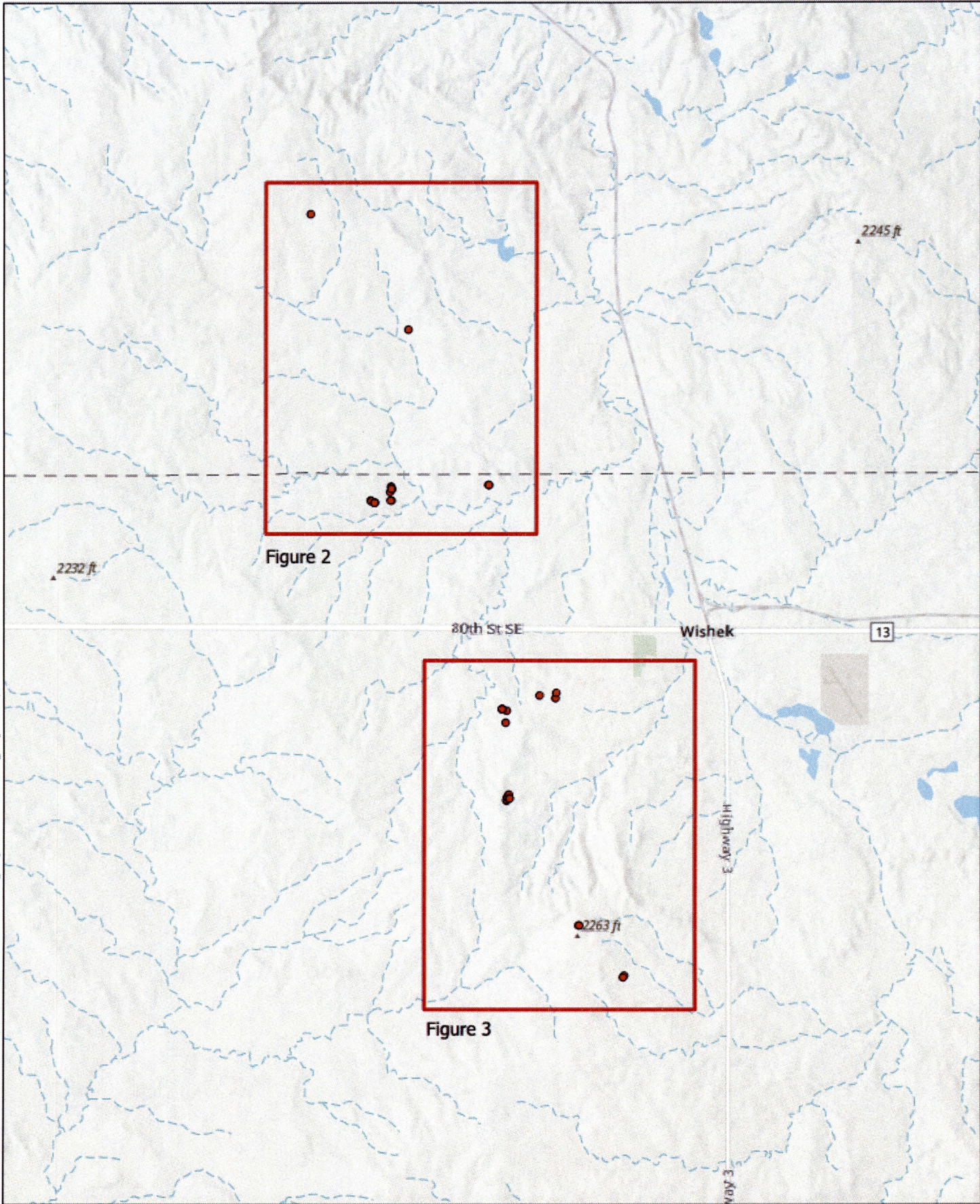
*Falter Jonsson*

Inspector's Signature

# Appendix A

Photo Location Map

Path: X:\ND\NDPSC171771\5-final-dsgn\51-drawings\50-GIS\NDPSC171771\_BadgerWind.aprx

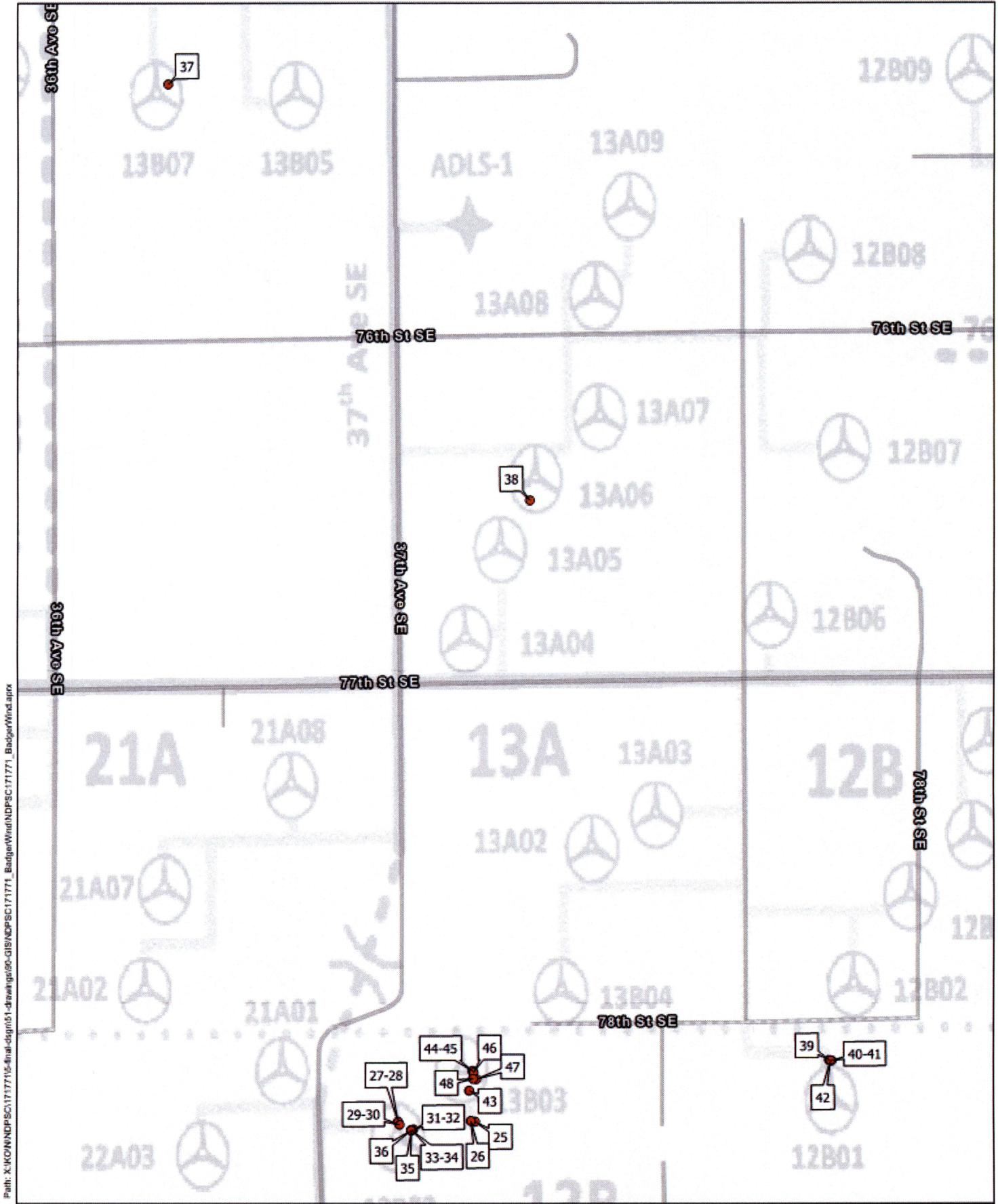


Project: NDPSC 171771  
 Print Date: 8/19/2025  
 Map by: Ischwarz  
 Projection: NAD 1983 State Plane  
 North Dakota South  
 Source: State of ND & SEH Inc.



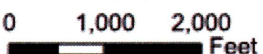
**Photo Locations - Overview**  
 Badger Wind  
 Wishek, ND

Figure  
 1

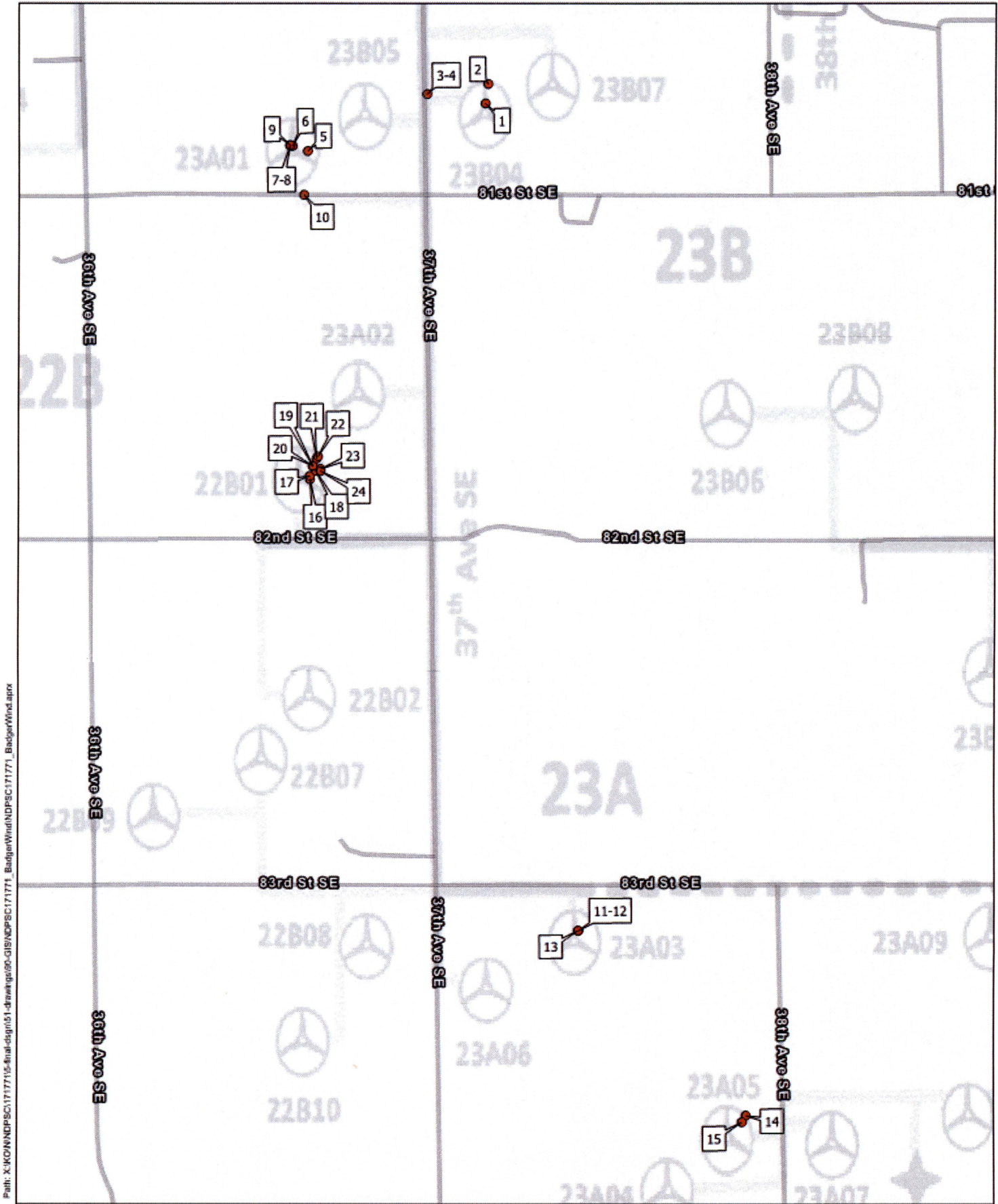
This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring sounding measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



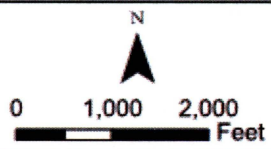
Path: X:\KONNDPSC1717715-final.dgn\1-drawings\90-GIS\NDPSC171771\_BadgerWind\NDPSC171771\_BadgerWind.aprx

	 	Project: NDPSC 171771 Print Date: 8/19/2025  Map by: Ischwarz Projection: NAD 1983 State Plane North Dakota South Source: State of ND & SEH Inc.	<h3 style="margin: 0;">Photo Locations - North of 80th</h3> <p style="margin: 0;">Badger Wind Wishek, ND</p>	<h2 style="margin: 0;">Figure 2</h2>
-------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------	------------------------------------------

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring sounding measurement of distance or direction or precision in the depiction of geographic features. The User of the map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



Path: X:\KON\NDPSC\171771\5-drawings\00-GIS\NDPSC\171771\_BadgerWind.aprx



Project: NDPSC 171771  
 Print Date: 8/19/2025  
 Map by: tschwarz  
 Projection: NAD 1983 State Plane  
 North Dakota South  
 Source: State of ND & SEH Inc.

**Photo Locations - South of 80th**  
 Badger Wind  
 Wishek, ND

**Figure**  
 3

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.

# Appendix B

Photos

**Item Records**

**Location:** 23B04

**Point Number:** 1

**Picture Number:** 1

**Time:** 10:00 AM

**Direction Facing:** NE

**Notes:** Current conditions of topsoil storage pile from October 24 topsoil stripping inspection. Vegetative cover abundant.



**Location:** 23B04

**Point Number:** 2

**Picture Number:** 2

**Time:** 10:03 AM

**Direction Facing:** W

**Notes:** Current conditions of silt fence installed during last years topsoil inspection. No evidence of silt buildup. Acceptable condition



**Location:** Access road to 23B04

**Point Number:** 3

**Picture Number:** 3--

**Time:** 10:10 AM

**Direction Facing:** NE

**Notes:** First photo condition of access road compared to last years inspection, second photo farmer planted field and contractor building curve for access road, topsoil stripped and windrowed. Either silt fence or fiber roll planned for ECM.



**Location:** 23A01

**Point Number:** 4

**Picture Number:** 5

**Time:** 10:17 AM

**Direction Facing:** W

**Notes:** Structure seal slab just finished pouring. Concrete truck washing out slag onto subsoil and slab.



**Location:** 23A01

**Point Number:** 5

**Picture Number:** 6

**Time:** 10:21 AM

**Direction Facing:** W

**Notes:** Silt fence installed last year. Evidence of silt deposition.



**Location:** 23A01

**Point Number:** 6

**Picture Number:** 7-i

**Time:** 10:22 AM

**Direction Facing:** E

**Notes:** First picture, side by side view of silt fence soil elevations. Second picture shows the bulge in the fence where silt has built up to a depth above 6+ ". Needs to be cleaned.



**Location:** 23A01

**Point Number:** 7

**Picture Number:** 9

**Time:** 10:25 AM

**Direction Facing:** N

**Notes:** Same silt fence as previous points, showing that the cleaning needs are localized in one spot.



**Location:** Access road to 23A01

**Point Number:** 8

**Picture Number:** 10

**Time:** 10:31 AM

**Direction Facing:** NW

**Notes:** Conditions of access road, crew has stripped topsoil for a curve. Mild expected interference into established crops.



**Location:** 23A03

**Point Number:** 9

**Picture Number:** 11

**Time:** 10:41 AM

**Direction Facing:** N

**Notes:** First photo looking north to previously installed silt fence. Second photo same silt fence looking south. Evidence of silt build up. Recommend cleaning.



**Location:** 23A03

**Point Number:** 10

**Picture Number:** 13

**Time:** 10:43 AM

**Direction Facing:** S

**Notes:** Topsoil pile shows ample evidence of vegetative cover, any not vegetated areas that eroded were caught by silt fence.



**Location:** 23A05

**Point Number:** 11

**Picture Number:** 14

**Time:** 10:54 AM

**Direction Facing:** W

**Notes:** Silt fence installed roughly 2 weeks prior. Topsoil windrowed but no vegetated just yet.



**Location:** 23A05

**Point Number:** 12

**Picture Number:** 15

**Time:** 10:57 AM

**Direction Facing:** S

**Notes:** Site prepped and ready for excavation to begin.



**Location:** 22B01

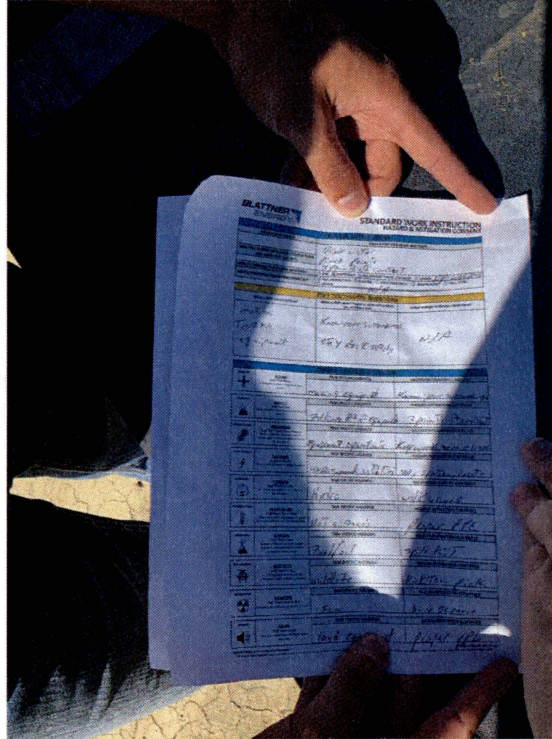
**Point Number:** 13

**Picture Number:** 16

**Time:** 11:18 AM

**Direction Facing:** W

**Notes:** JHA on site.



**Location:** 22B01

**Point Number:** 14

**Picture Number:** 17

**Time:** 11:19 AM

**Direction Facing:** NE

**Notes:** Crew is using laser level to check elevations.



**Location:** 22B01

**Point Number:** 15

**Picture Number:** 18

**Time:** 11:20 AM

**Direction Facing:** W

**Notes:** CAT 352 track excavator.



**Location:** 22B01

**Point Number:** 16

**Picture Number:** 19

**Time:** 11:21 AM

**Direction Facing:** W

**Notes:** CAT D6K dozer with GPS connection.



**Location:** 22B01

**Point Number:** 17

**Picture Number:** 20

**Time:** 11:22 AM

**Direction Facing:** SW

**Notes:** Paint markings for limits of excavation.



**Location:** 22B01

**Point Number:** 18

**Picture Number:** 21

**Time:** 11:23 AM

**Direction Facing:** E

**Notes:** Topsoil storage pile



**Location:** 22B01

**Point Number:** 19

**Picture Number:** 22

**Time:** 11:24 AM

**Direction Facing:** E

**Notes:** Silt fence installed. Evidence of 1 or 2 posts not driven correctly.



**Location:** 22B01

**Point Number:** 20

**Picture Number:** 23

**Time:** 11:30 AM

**Direction Facing:** W

**Notes:** Excavator is pulling subsoil out and stockpiling where concrete is to be poured.



**Location:** 22B01

**Point Number:** 21

**Picture Number:** 24

**Time:** 11:38 AM

**Direction Facing:** SW

**Notes:** Access road current conditions for later comparison and reference during as built and reclamation inspections.



**Location:** 13B03

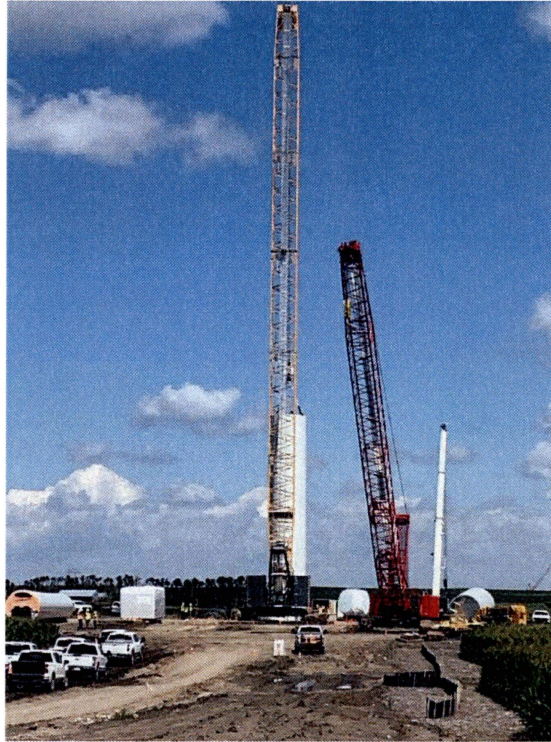
**Point Number:** 22

**Picture Number:** 25

**Time:** 12:45 PM

**Direction Facing:** N

**Notes:** Crew has begun erecting first wind turbine tower. Yellow crane is a Liebherr LR1300, red crane is a MLC 165



**Location:** 13B03 access road

**Point Number:** 23

**Picture Number:** 26

**Time:** 12:49 PM

**Direction Facing:** SE

**Notes:** JCB 512-56 Crane With forks attachment.



**Location:** 13B02

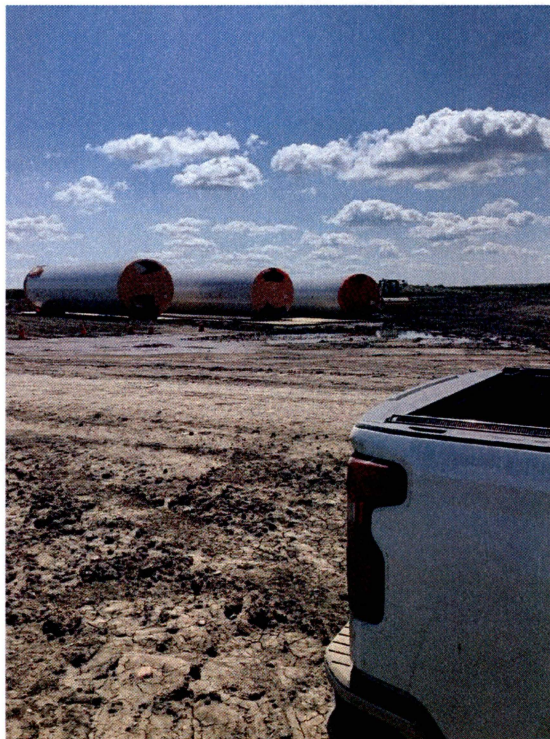
**Point Number:** 24

**Picture Number:** 27

**Time:** 12:52 PM

**Direction Facing:** E

**Notes:** Materials laid out for wind turbine structure. Crew is compacting site grading.



**Location:** 13B02

**Point Number:** 25

**Picture Number:** 29

**Time:** 12:54 PM

**Direction Facing:** E

**Notes:** CAT CS56 steel drum roller



**Location:** 13B02

**Point Number:** 26

**Picture Number:** 31

**Time:** 1:06 PM

**Direction Facing:** S

**Notes:** First picture, area that contractor needs a grader for, picture 2, foundation for wind turbine 13B02



**Location:** 13B02

**Point Number:** 27

**Picture Number:** 33

**Time:** 1:08 PM

**Direction Facing:** SW

**Notes:** 13B02 reinforcing steel. 1.5" diameter bolts.



**Location:** 13B02

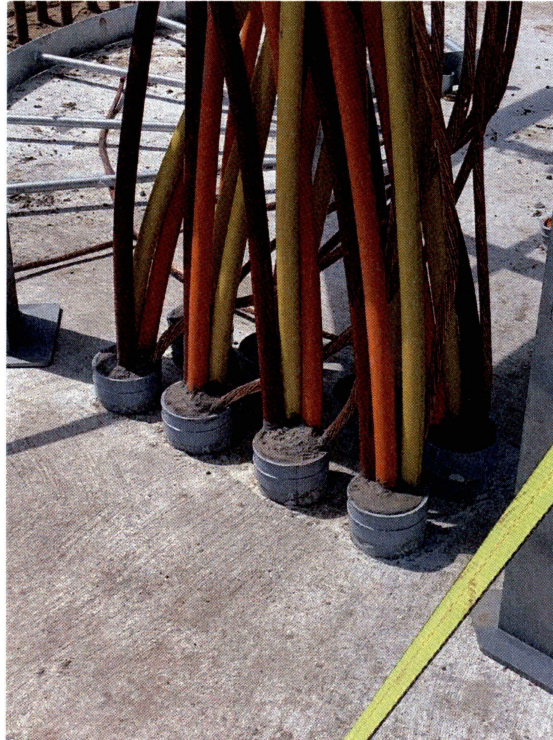
**Point Number:** 28

**Picture Number:** 35

**Time:** 1:09 PM

**Direction Facing:** SW

**Notes:** Wiring for structure 13B02



**Location:** 13B02

**Point Number:** 29

**Picture Number:** 36

**Time:** 1:13 PM

**Direction Facing:** W

**Notes:** Evidence of compaction by sheep's foot roller.



**Location:** 13B07

**Point Number:** 30

**Picture Number:** 37

**Time:** 1:47 PM

**Direction Facing:** W

**Notes:** Exposed structure foundation prior to backfilling



**Location:** Shortcut between 13A06 and 13A05

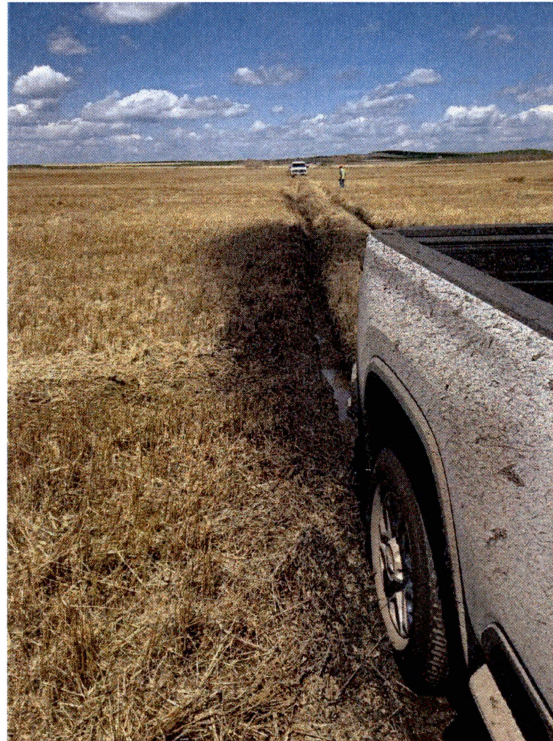
**Point Number:** 31

**Picture Number:** 38

**Time:** 2:39 PM

**Direction Facing:** NE

**Notes:** Truck got stuck. Crew coming to pull us out. Will verify reclamation when complete.



**Location:** 12B01

**Point Number:** 32

**Picture Number:** 39

**Time:** 3:36 PM

**Direction Facing:** NE

**Notes:** Finished foundation pour for wind turbine. Showing pad rebar and reinforcing bolts.



**Location:** 12B01

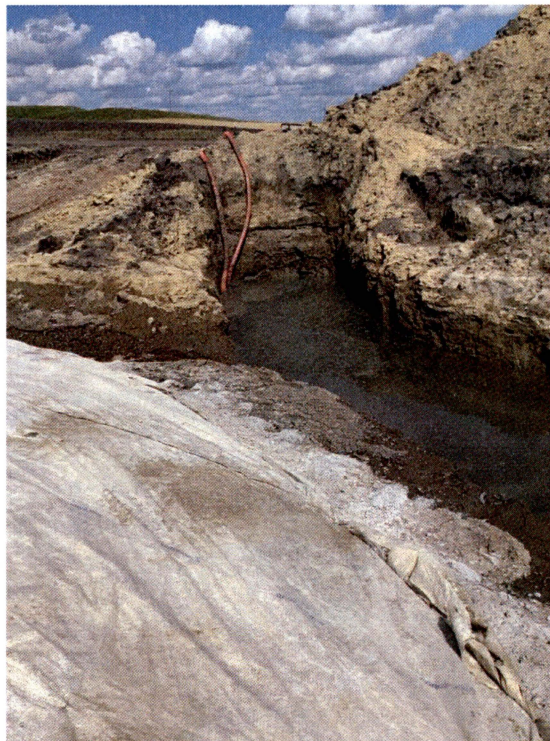
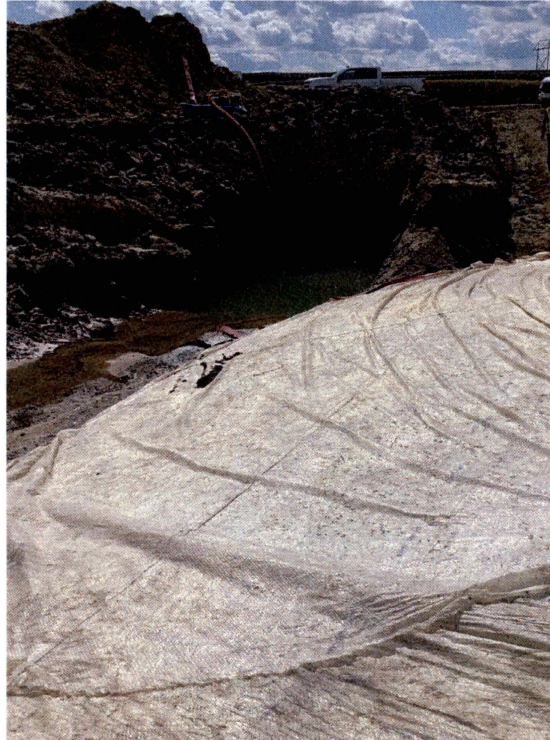
**Point Number:** 33

**Picture Number:** 40

**Time:** 3:41 PM

**Direction Facing:** E

**Notes:** East and west view of pumps used for dewatering



**Location:** 12B01

**Point Number:** 34

**Picture Number:** 42

**Time:** 3:43 PM

**Direction Facing:** NE

**Notes:** CAT TL255 bringing over concrete form



**Location:** 13B03

**Point Number:** 35

**Picture Number:** 43

**Time:** 4:05 PM

**Direction Facing:** N

**Notes:** Between previous visit and now, crew has gotten the second piece of the tower erected.



**Location:** 13B03

**Point Number:** 36

**Picture Number:** 44

**Time:** 4:10 PM

**Direction Facing:** NW

**Notes:** Site safety precautions in place, warning signs. Comes are in place for swing radii.



**Location:** 13B03

**Point Number:** 37

**Picture Number:** 46

**Time:** 4:13 PM

**Direction Facing:** W

**Notes:** Liebherr LR 1300.1 SX



**Location:** 13B03

**Point Number:** 38

**Picture Number:**

**Time:** 4:15 PM

**Direction Facing:** SW

**Notes:** Manitowoc MLC165-1



**Location:** 13B03

**Point Number:** 39

**Picture Number:**

**Time:** 4:16 PM

**Direction Facing:** SW

**Notes:** Link-Belt TCC 1200





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We're confident in our ability to balance these requirements.

