



Basin Electric Power Cooperative

Roundup-Kummer Ridge 345-kV Transmission Line Dunn-
McKenzie Counties

Case No. PU-23-361

Construction Inspection Report



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6 PU-23-361 Filed 07/16/2024 Pages: 78

Construction Inspection Report

SEH - Short Elliot Hendrickson Inc.

Matt Schaible



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July 16, 2024

RE: Case No. PU-23-361
Basin Electric Power Cooperative
Roundup-Kummer Ridge 345-kV
Transmission Line Dunn-McKenzie
Counties
Construction Inspection Report

Mr. Victor Schock
Public Utility Analyst
North Dakota Public Service Commission
600 East Boulevard Avenue, Dept. 408
Bismarck, ND 58505-0480

Dear Mr. Schock:

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 Map
4. Appendix B - Photographs

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew Schaible", with a long horizontal flourish extending to the right.

Matthew Schaible, PE
Short Elliot Hendrickson Inc.
905 Tacoma Ave., Suite 2
Bismarck, ND 58504

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 4719 Shelburne Street, Suite 6, Bismarck, ND 58503
SEH is 100% employee-owned | sehinc.com | 701.354.7121 | 888.908.8166 fax



EXECUTIVE SUMMARY

Page _____ of _____

Date:

Project:	

A handwritten signature in blue ink, appearing to read 'J. M. ...'.

Inspector's Signature



INSPECTOR'S DIARY

Page ____ of ____

Project:		Contractor:	
Date:	Day:	Subcontractor:	
Weather:		Temp:	Inspector:
Work Activities:			
Labor Force:			
Contractor Correspondence:			
Other Remarks:			

A handwritten signature in blue ink, appearing to read 'J. M. ...'.

Inspector's Signature



INSPECTOR'S DIARY

Page _____ of _____

Date:

Project:	Contractor or Sub:
Photo Description:	

Inspector's Signature



INSPECTOR'S DIARY

Page _____ of _____

Date:

Project:	Contractor or Sub:
Photo Description:	

Inspector's Signature



INSPECTOR'S DIARY

Page _____ of _____

Date:

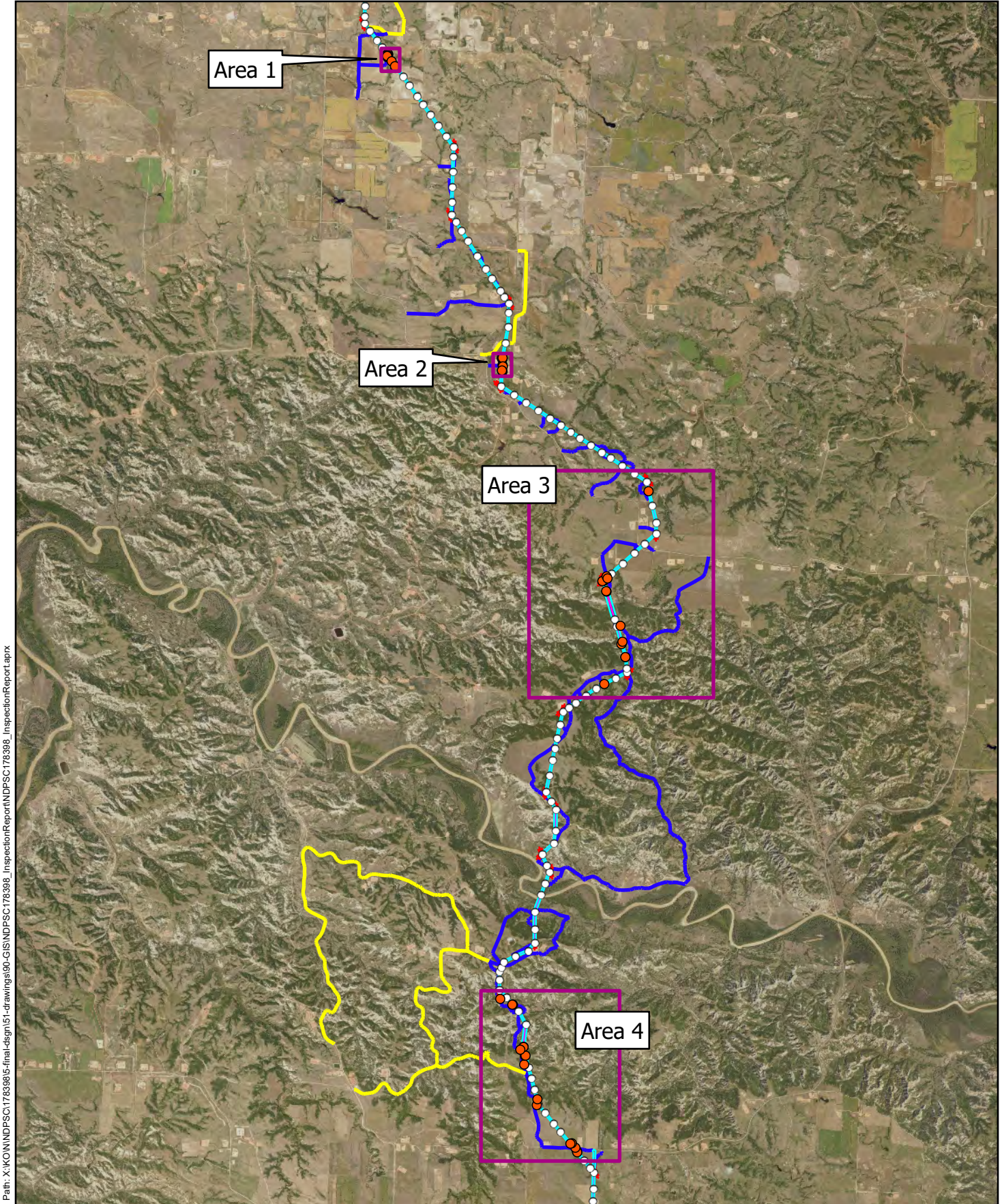
Project:	Contractor or Sub:
Photo Description:	

A handwritten signature in blue ink, appearing to read 'B. M. ...'.



Inspector's Signature

Appendix A

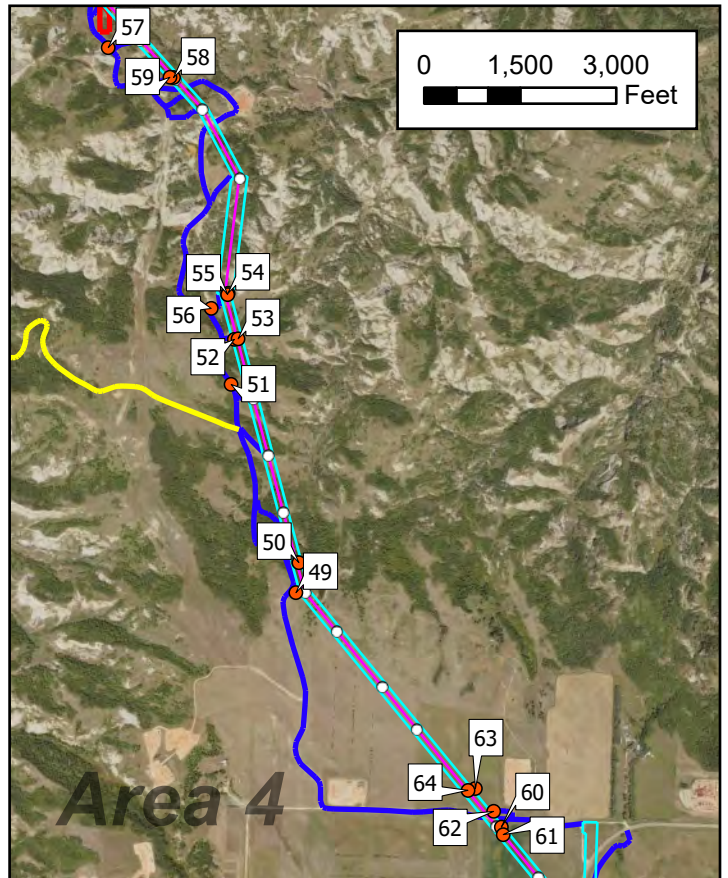
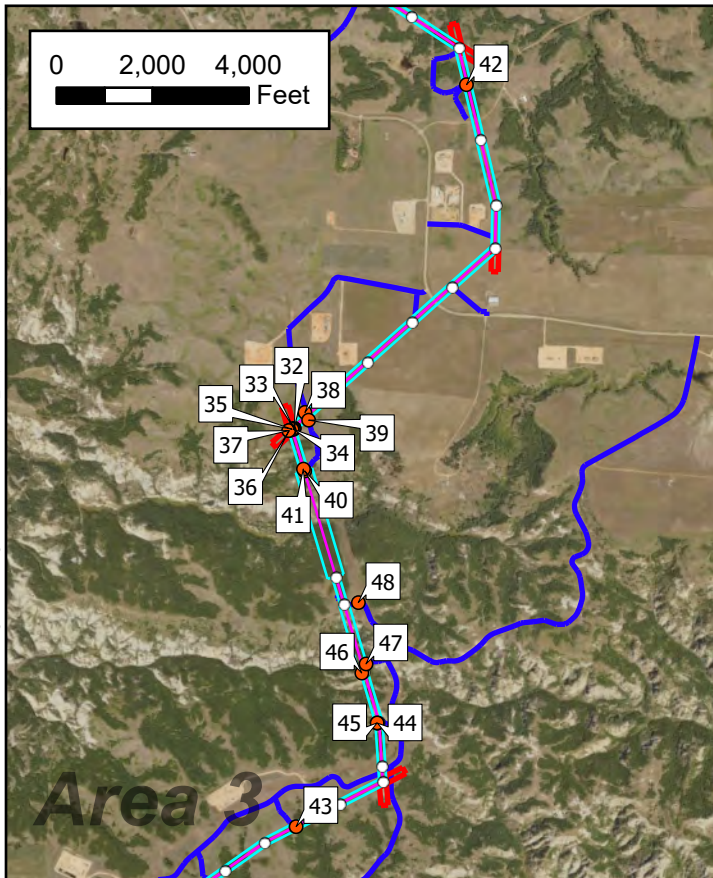
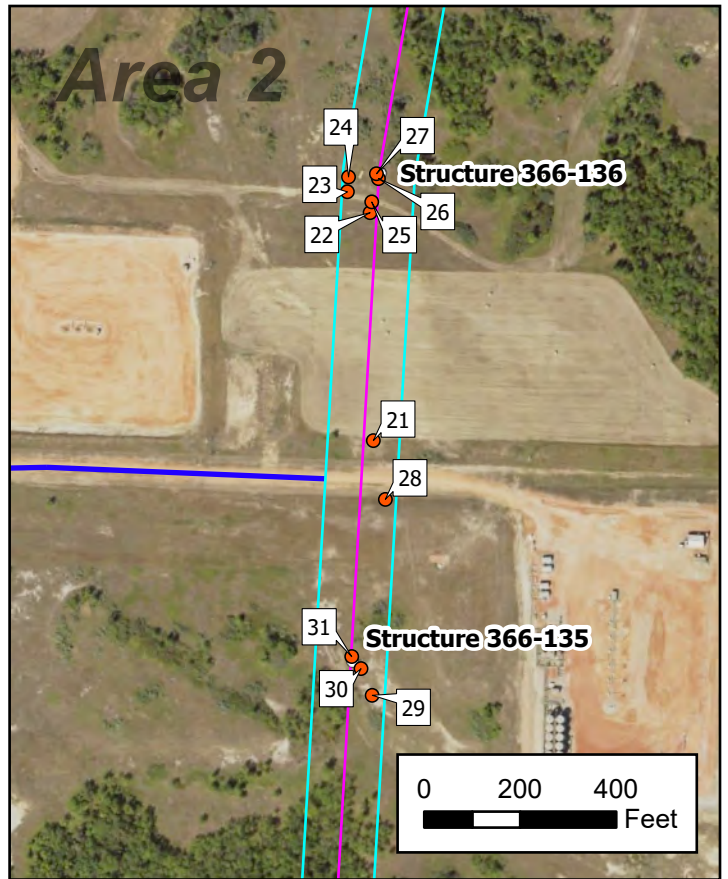
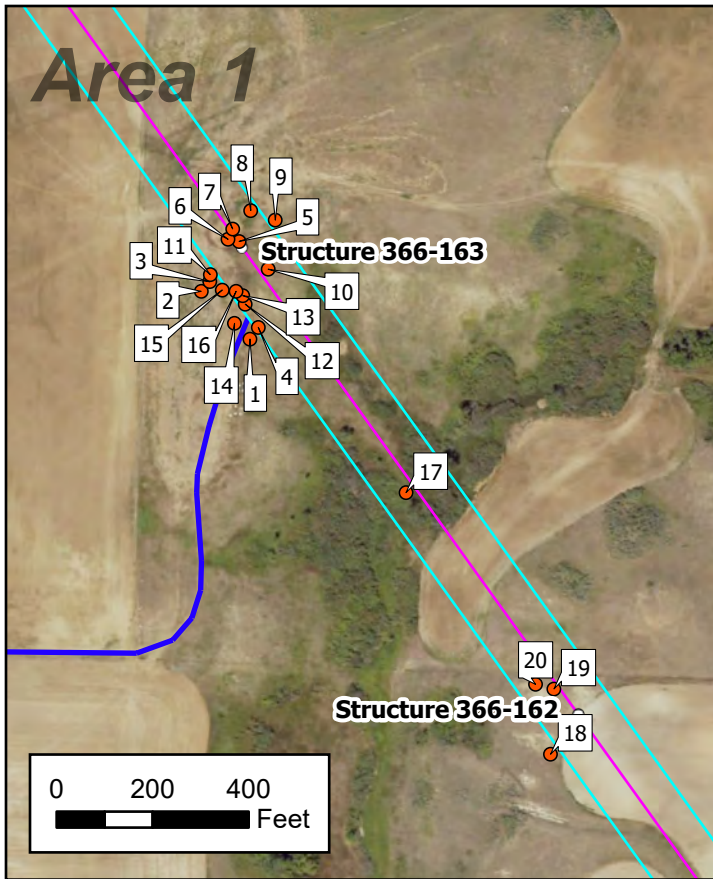
Photo Location Map



Path: X:\KOWINDPSC\178398\5-final-dsign\51-drawings\90-GIS\NDPSC\178398_InspectionReport\NDPSC\178398_InspectionReport.aprx

		<p>Project: NDPSC 178398 Print Date: 7/16/2024</p> <p>Map by: tschwarz Projection: NAD 1983 State Plane North Dakota North Source: USDA-FSA Aerial Photography Field Office, SEH, Inc</p>	<p>Topsoil Removal & Construction Inspection Photo Location Map</p> <p>Roundup to Kummer Ridge 345kV Line</p>	<p>Figure 1</p>
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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.



Path: X:\KOWINDPSC\178398\5-final-dsgn\51-drawings\90-GIS\NDPSC\178398_InspectionReport.aprx

	<p>N</p> <p>● Photo Location</p>	<p>Project: NDPSC 178398 Print Date: 7/16/2024</p> <p>Map by: tschwarz Projection: NAD 1983 State Plane North Dakota North Source: USDA-FSA Aerial Photography Field Office, SEH, Inc</p>	<p>Topsoil Removal & Construction Inspection Photo Location Map</p> <p>Roundup to Kummer Ridge 345kV Line</p>	<p>Figure 2</p>
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Appendix B

Photos



Daily Construction Observation Report

Job No./file

Date

07/11/2024

Project: 345-kV Transmission Line

Location: Roundup to kummer ridge

RPR Name: Dalton Bruce

Start Time: 9:14 AM

End Time: 3:55 PM

Morning Weather: Sunny

Afternoon Weather: Sunny

Temp. (F): High 91 Low 66

Rainfall (in): 0

Utility Conflicts: No

Overall Comments:

Prime Contractor: FB timberline

Foreman Name: Brennan

of Crews: 4

Equipment Onsite: 2 cranes, 2 dozers, skidsteers

Contractor Notes:

Observations

Time: 9:16AM

Description: Crew assembling transmission line structures

Comments: Crew was assembling structure 163 towards north end of project.

Item Records

Location: Structure 163

Time: 9:19 AM

Direction Facing: N

Notes: Crew is assembling transmission line structure.



Location: Structure 163

Time: 9:22 AM

Direction Facing: NE

Notes: Foundation of structure 163, awaiting finished structure to be installed.



Location: Structure 163

Time: 9:23 AM

Direction Facing: N

Notes: Stockpiled topsoil. No ESC covering, but fairly flat area.



Location: Structure 163

Time: 9:26 AM

Direction Facing: SE

Notes: ROW path to structure 162.



Location: Structure 163

Time: 9:33 AM

Direction Facing: SW

Notes: Closer look at foundation of structure 163.



Location: Structure 163

Time: 9:35 AM

Direction Facing: W

Notes: Closer look at stockpiled topsoil, segregated from subsoils.



Location: Structure 163

Time: 9:36 AM

Direction Facing: NE

Notes: Crew is using wooden rafts to ensure stability for their cranes.



Location: Structure 163

Time: 9:38 AM

Direction Facing: SW

Notes: Skidsteer with bucket



Location: Structure 163

Time: 9:39 AM

Direction Facing: W

Notes: Manitex custom lift truck.



Location: Structure 163

Time: 9:41 AM

Direction Facing: W

Notes: Grove gmk5165-2



Location: Structure 163

Time: 9:48 AM

Direction Facing: NW

Notes: Finished structures 164-166



Location: Structure 163

Time: 9:55 AM

Direction Facing: E

Notes: Deere 624K with forks attached.



Location: Structure 163

Time: 9:57 AM

Direction Facing: NE

Notes: Crew preparing to transport structure 163 to its foundation.



Location: Structure 163

Time: 10:05 AM

Direction Facing: N

Notes: Crew has structure vertical. Ready to move to foundation.



Location: Structure 163

Time: 10:09 AM

Direction Facing: N

Notes: Crew preparing to set structure on its foundation.



Location: Structure 163

Time: 10:14 AM

Direction Facing: NW

Notes: Crew removing harness for crane.



Location: Halfway between structures 163 and 162

Time: 10:19 AM

Direction Facing: S

Notes: Planking used to allow easier travel and less disruption of a vegetated valley.



Location: Structure 162

Time: 10:23 AM

Direction Facing: NW

Notes: Silt fence in place on W side of ROW at structure 162.



Location: Structure 162

Time: 10:26 AM

Direction Facing: S

Notes: Topsoil showing full segregation from subsoil. No esc around it. Nearest silt fence is 20 feet away to west.



Location: Structure 162

Time: 10:28 AM

Direction Facing: S

Notes: Silt fence is installed correctly and you can see silt built up on east side.



Location: Halfway between structures 135 and 136

Time: 10:53 AM

Direction Facing: N

Notes: Drilling and pouring operations on structure 136: wide shot



Location: Structure 136

Time: 10:58 AM

Direction Facing: NE

Notes: Small crane used to lower mold into excavation hole



Location: Structure 136

Time: 10:59 AM

Direction Facing: NE

Notes: Rebar cage for foundation of structure 136



Location: Structure 136

Time: 11:00 AM

Direction Facing: E

Notes: Tracked driller. Currently drilling hole for foundation.



Location: Structure 136

Time: 11:02 AM

Direction Facing: N

Notes: Skidsteer used to move excavated material to a stock pile



Location: Structure 136

Time: 11:06 AM

Direction Facing: N

Notes: Crew using proper ppe (pfas) while standing next to a dangerous drop.



Location: Structure 136

Time: 11:08 AM

Direction Facing: N

Notes: Drilling operations of foundation: close up



Location: Halfway between structures 135 and 136

Time: 11:13 AM

Direction Facing: E

Notes: Erosion control blanket and pipe in place where crew had to build access point over a ditch.



Location: Structure 135

Time: 11:18 AM

Direction Facing: E

Notes: Stockpile of excavated material from foundation spot. No ESC present.



Location: Structure 135

Time: 11:19 AM

Direction Facing: N

Notes: Forms in place for concrete pour. Rebar cage installed (shown in next picture). Tarp covering to ensure unwanted moisture stays out.



Location: Structure 135

Time: 11:20 AM

Direction Facing: W

Notes: Rebar cage for foundation pour.



Location: Structure 112

Time: 12:04 PM

Notes: Skidsteer.

Direction Facing: SW



Location: Structure 112

Time: 12:05 PM

Direction Facing: W

Notes: Soilmec SR-35 crane.



Location: Structure 112

Time: 12:07 PM

Direction Facing: NW

Notes: Foundations drilled. Concrete operations currently taking place.



Location: Structure 112

Time: 12:21 PM

Direction Facing: NE

Notes: Crew pouring right foundation for h structure 112



Location: Structure 112 ROW

Time: 12:23 PM

Direction Facing: NW

Notes: Silt fence for topsoil stockpile



Location: Structure 112

Time: 12:24 PM

Direction Facing: NW

Notes: Stockpile of excavated material.



Location: NE of structure 112

Time: 12:37 PM

Direction Facing: SE

Notes: Topsoil pile with silt fence. Segregation has been sufficiently maintained.



Location: NE of structure 112

Time: 12:39 PM

Direction Facing: SW

Notes: Another topsoil pile with silt fence installed.



Location: Structure 111

Time: 12:46 PM

Direction Facing: W

Notes: Silt fence installed on downslope of structure location



Location: Structure 111

Time: 12:47 PM

Direction Facing: NE

Notes: Topsoil stockpile guarded by silt fence on downslope.



Location: Structure 120

Time: 1:01 PM

Direction Facing: NW

Notes: Dakota skipper butterfly avoidance area intact. No signs of damage to habitat.



Location: Structure 103

Time: 1:34 PM

Direction Facing: N

Notes: Topsoil stockpile protected on east side by silt fence



Location: Structure 107

Time: 1:42 PM

Direction Facing: W

Notes: Silt fence installed on site



Location: Structure 107

Time: 1:43 PM

Direction Facing: E

Notes: Foundations finished on structure 107. Awaiting tower.



Location: Structure 108

Time: 1:54 PM

Direction Facing: N

Notes: Topsoil stockpiled and protected by silt fence.



Location: Structure 108 access route

Time: 1:55 PM

Direction Facing: SW

Notes: Silt fence installed on downstream side of curve to prevent silt erosion



Location: Access road to structure 110

Time: 2:03 PM

Direction Facing: E

Notes: Boards in place to reduce impact to native lands.



Location: Structure 62

Time: 2:38 PM

Direction Facing: NE

Notes: Foundations for structure 62.



Location: Structure 63

Time: 2:42 PM

Direction Facing: NE

Notes: Topsoil stockpiled and protected by silt fence



Location: Between structures 66 & 67

Time: 2:47 PM

Direction Facing: E

Notes: Dakota skipper butterfly habitat avoidance zone. No signs of damage.



Location: Structure 67

Time: 2:50 PM

Direction Facing: S

Notes: Avoidance area.



Location: Structure 67

Time: 2:51 PM

Direction Facing: SE

Notes: Avoidance area is untouched.



Location: Structure 68

Time: 2:56 PM

Direction Facing: W

Notes: Foundations poured for this structure.



Location: Structure 68

Time: 2:57 PM

Direction Facing: W

Notes: Avoidance area untouched.



Location: Structure 68 access road

Time: 3:01 PM

Direction Facing: S

Notes: Silt fence installed to prevent soil deposition. Recommend cleaning.



Location: Structure 72 access road and running north to south

Time: 3:24 PM

Direction Facing: S

Notes: Extensive planking installed to ensure minimal impact to environment and ease of travel for equipment.



Location: Structure 71

Time: 3:27 PM

Direction Facing: NE

Notes: Silt fence installed on north side of site



Location: Structure 71

Time: 3:30 PM

Direction Facing: SE

Notes: Silt fence installed for top soil but needs fixing.



Location: Structure 57

Time: 3:44 PM

Direction Facing: W

Notes: Foundation is poured. Only install remains. Vegetation already growing back. Planks everywhere



Location: Structure 57

Time: 3:46 PM

Direction Facing: SE

Notes: Structure 56 also has finished foundation. Unable to reach with truck due to supplies blocking path.



Location: Access road to structure 58

Time: 3:50 PM

Direction Facing: E

Notes: Planking has been removed.



Location: Structure 58

Time: 3:54 PM

Direction Facing: NW

Notes: Foundation installed. Planking still in place.



Location: Structure 58

Time: 3:55 PM

Direction Facing: E

Notes: Silt fence installed on east side of site to prevent erosion.





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

