

Attn: Jerry Lein
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

Submittal via email to ndpsc@nd.gov
Case Number: PU-14-105

Re: Sunflower Wind Project – Reseeding Plan

Dear Mr. Lein,

The Sunflower Wind Project has begun completing construction activities for 2016 and per the requirements set forth in the ND-03 Sunflower PSC 2014-06-25 Cert Site Compatibility (PSC 2014-05-09 Certification of Provisions item number 18) stating that reclamation, fertilization, and reseeding is to be done according to the Natural Resources Conservation Service recommendations, unless otherwise specified by the landowner and approved by the Commission. Please refer to Attachment 1 for the Sunflower Wind Project reseeding plan that follow NRCS guideline and has been approved by project landowners.

If you have any questions, please give me a call at the number below.

Sincerely,



Aron Anderson
Senior Project Manager
Solas Energy Consulting
aanderson@solasenergyconsulting.com
612-599-4251

CC:

Jerry Lein	Jon Johnson
Todd Hartleben	Deron Lawrence
Sean Garry	Cindy Whitney
Jed Dailey	Ryan Hartleben

Attachment 1 – Sunflower Reseeding Plan

Sunflower Wind Project

Seeding Plan

Schedule:

The NDSU Ranchers Guide to Grassland Management provides recommended seeding dates for pasture development. For a dormant seeding, it is recommended to proceed after October 20th. The MNDOT specifications for seeding also recommend similar dates and soil temperatures to be a less than 40 Degrees Fahrenheit at a depth of 1". Mortenson Civil is planning to proceed with dormant seeding after the recommended date of Oct 20th.

Permanent Seeding:

Permanent seeding will be done in conjunction with the attached map that summarizes the requests of landowners and compliance with non-invasive grasses per the approval of the local NRCS Branch.

DECOMPACTION: Prior to seeding activities, the soil will be decompacted to the extents of the topsoil section. Careful attention will be needed to avoid bringing up subsoil into the topsoil layer. Generally speaking, a motorgrader or dozer will decompact the soil using rippers. Depending on the composition of the soil, additional discing may be needed depending on the intended land use.

SOIL PREP: In areas with a high potential for erosion it is recommended that a no-till seed drill be used to limit the amount of loose soil and avoid soil loss caused by erosion. In areas with little erosion potential, a disk cultivator or drag harrow will be used depending on soil and site conditions.

SEEDING: All seeding shall be completed using a seed drill. The seed drill will be dialed in to the correct application rate per the attached seed mix specification application rate (varies between seed mixtures). In addition to the permanent seed mixture, a cover crop will be used to ensure native seed passes through the seed drill at the correct rate and provides

faster germination for stabilization of erosive soils. The cover crop seed is an annual seed mix that is not intended for permanent vegetative cover.

MULCHING: Locally sourced straw mulch will be used in areas with steeper slopes or higher potential for erosion. The mulch will be processed through a bale buster at an approximate application rate of 1.5-2 tons per acre. The mulch will then be disc anchored into the soil using a custom straw crimper (See attached).

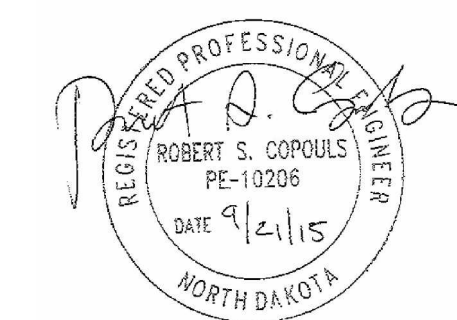
EROSION CONTROL BLANKET: Some specific areas with steeper slopes and/or concentrated water flow will require erosion control blanket. Additional rock checks and/or Straw wattles may be used in conjunction with the erosion control blanket to reduce the potential for erosion.

References/Attachments:

- 1.) Sunflower Seeding Map
- 2.) Sunflower Seed Mixtures
- 3.) ND DOT Spec Section 251 – Seeding
- 4.) ND DOT Spec Section 253 – Mulching
- 5.) Truax Straw Crimper

LEGEND:

- PROJECT BOUNDARY
- TURBINE LOCATION
- TURBINE/MET TOWER NUMBER
- PROPOSED MET TOWER
- PROPOSED ACCESS ROAD
- PROPOSED CRANE PATH
- PROPOSED UNDERGROUND COLLECTION
- PROJECT FACILITIES
- EXISTING ROAD (GIS)
- EXISTING STREAM
- MICROWAVE BEAM PATH
- EX. OVERHEAD POWER
- SECTION NUMBER
- SHEET NUMBER REFERENCE

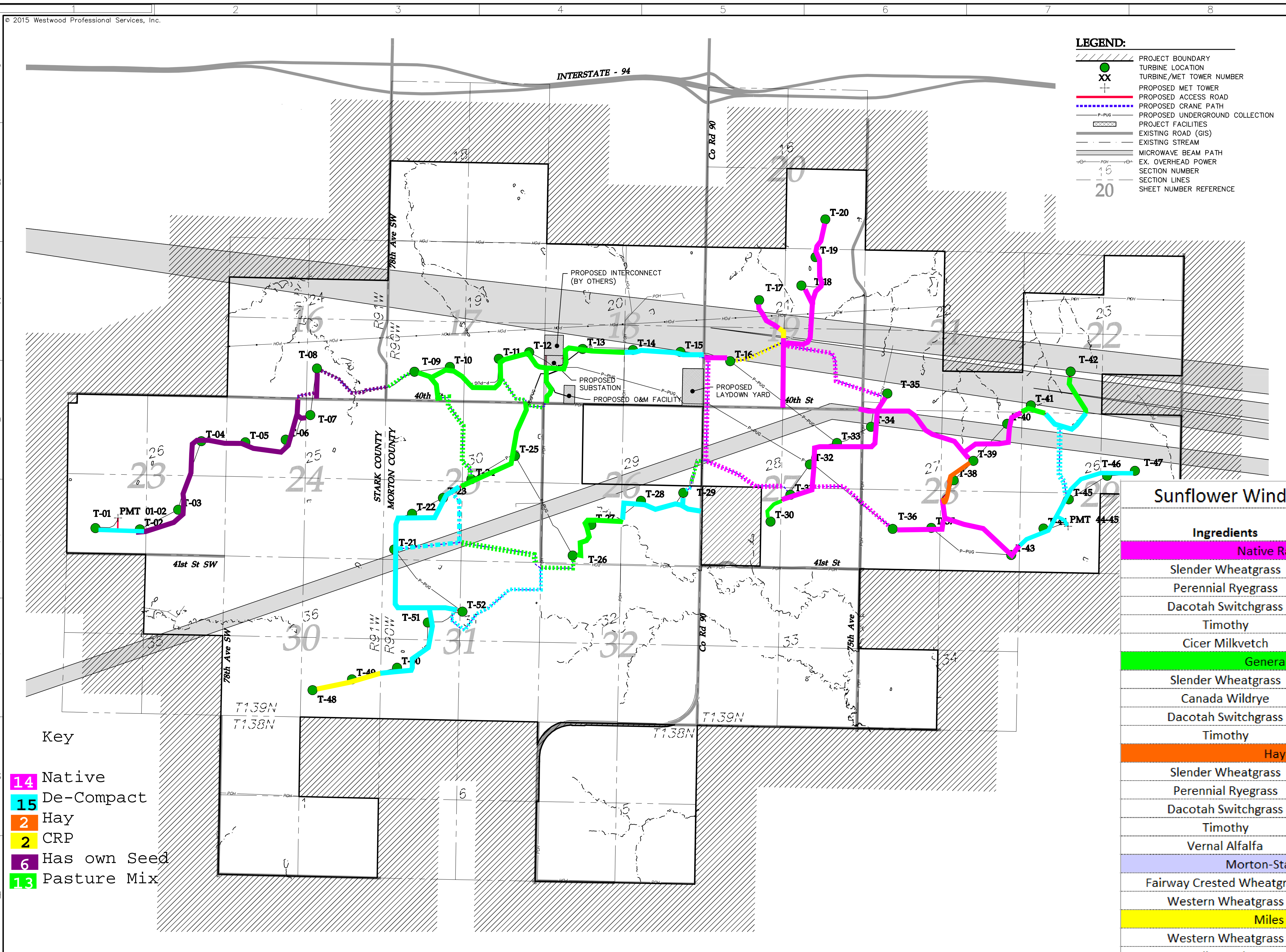


Designed: DFK
Checked: RSC
Drawn: TBR

Record Drawing by/date:

Revision #	DATE	DESCRIPTION
0	09/21/15	ISSUED FOR CONSTRUCTION

Prepared for:



- Key**
- 14 Native
 - 15 De-Compact
 - 2 Hay
 - 2 CRP
 - 6 Has own Seed
 - 13 Pasture Mix

Sunflower Wind Project Seed Mixes

Ingredients	Quantity (PLS)	Pounds Per Acre
Native Range Seed Mix		
Slender Wheatgrass	2	2
Perennial Ryegrass	13.5	13.5
Dacotah Switchgrass	1.5	1.5
Timothy	1.75	1.75
Cicer Milkvetch	12.5	12.5
General Pasture Mix		
Slender Wheatgrass	2	2
Canada Wildrye	13.5	2
Dacotah Switchgrass	1.5	1.5
Timothy	1.75	1.75
Hay Seed Mix		
Slender Wheatgrass	3	3
Perennial Ryegrass	15	15
Dacotah Switchgrass	2	2
Timothy	3	3
Vernal Alfalfa	12.5	12.5
Morton-Stark County ROW		
Fairway Crested Wheatgrass	16	10
Western Wheatgrass	17	5
Miles Shantz CRP		
Western Wheatgrass	10	8
Intermediate Wheatgrass	5	8.5

Sunflower Wind Project Seed Mixtures

Seed Species	Quantity (PLS)	Pounds Per Acre
Native Range Seed Mix		
Slender Wheatgrass	2	2
Perennial Ryegrass	13.5	13.5
Dacotah Switchgrass	1.5	1.5
Timothy	1.75	1.75
Cicer Milkvetch	12.5	12.5
General Pasture Mix		
Slender Wheatgrass	2	2
Canada Wildrye	13.5	2
Dacotah Switchgrass	1.5	1.5
Timothy	1.75	1.75
Hay Seed Mix		
Slender Wheatgrass	3	3
Perennial Ryegrass	15	15
Dacotah Switchgrass	2	2
Timothy	3	3
Vernal Alfalfa	12.5	12.5
Morton-Stark County ROW		
Fairway Crested Wheatgrass	16	10
Western Wheatgrass	17	5
Miles Shantz CRP		
Western Wheatgrass	10	8
Intermediate Wheatgrass	5	8.5



September 28, 2016

RE: Sunflower Wind Project

Agassiz Seed & Supply Inc of West Fargo, ND wishes to submit the following for your approval. The mixtures for this project will be blended using tests from an approved AOSCA laboratory to the specifications defined in section 708 of the NDDOT Standard Specifications Manual. All seed will be sourced based on HVEG Table 2 of the NRCS FOTG.

<u>General Pasture Mix</u>	<u>LBS/Acre</u>
Slender Wheatgrass	2.0
Perennial Ryegrass	13.5
Dacotah Switchgrass	1.5
Timothy	<u>1.75</u>
Total	31.25

Sincerely,

Al Holleman

Al Holleman



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<u>Hay Seed Mix</u>	<u>LBS/Acre</u>
Slender Wheatgrass	3.0
Perennial Ryegrass	15.0
Dacotah Switchgrass	2.0
Timothy	3.0
Vernal Alfalfa	<u>12.5</u>
Total	31.25

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<u>Miles Shantz CRP</u>	<u>LBS/Acre</u>
Western Wheatgrass	8.0
Intermediate Wheatgrass	<u>8.5</u>
Total	16.5

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<u>Morton/Stark County ROW</u>	<u>LBS/Acre</u>
Fairway Crested Wheatgrass	10.0
Western Wheatgrass	<u>5.0</u>
Total	15.0

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<u>Native Range Seed Mix</u>	<u>LBS/Acre</u>
Slender Wheatgrass	2.0
Perennial Ryegrass	13.5
Dacotah Switchgrass	1.5
Timothy	1.75
Cicer Milkvetch	<u>12.5</u>
Total	31.25

Sincerely,

Al Holleman

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SECTION 251 SEEDING

251.01 DESCRIPTION

This work consists of seeding disturbed areas.

251.02 EQUIPMENT

A. Class I, II, III, and Wetland Seed Mixture Equipment.

Use a grass drill equipped with double disk furrow openers that are:

- Spaced no greater than 8 inches apart;
- Individually mounted;
- Adjustable;
- Spring loaded; and
- Capable of planting seeds at depths between 1/4 and 3/4 inches.
- Packer wheels meeting one of the following requirements:
 - » Mounted individually to each furrow opener and have an adjustable spring tension; and
 - » Mounted independently with a press wheel positioned to follow directly behind each furrow opener.

Equip the seed box with:

- A positive feed mechanism that meters seed in a uniform manner with agitators that prevent seed bridging; and
- Baffles or partitions that keep all seeds uniformly mixed during drilling.

If chaffy native grasses (sideoats grama, big bluestem, or Indiangrass) are part of the seed mixture, equip the seed box with a positive picker-wheel mechanism with oversize teeth and auger style agitators that meters the chaffy native grasses either in a mixture or separately in a uniform manner.

B. Temporary Cover Crop Seed Mixture Equipment.

Use a seed drill that provides a uniform flow of seed at the required rate and a planting depth between 1/2 and 1 1/2 inches.

251.03 MATERIALS

A. General.

Furnish seed that meets or exceeds Pure Live Seed requirements for the specified seed.

Use seed that contains no prohibited noxious weed seeds and contains less than 25 seeds per pound of restricted noxious weed seeds. North Dakota Department of Agriculture classifies noxious weeds at www.nd.gov/ndda.

The Engineer will not accept seed that is wet, moldy, or damaged.

B. Seed Testing.

Provide seed that has been tested for purity and germination within 12 months of the planting date by one of the following methods:

- North Dakota Seed Department, Seed Lab;
- Commercial seed testing lab; or
- A registered member of the Society of Commercial Seed Analysts.

Provide the certified test report before beginning seeding operations.

C. Labeling.

Provide a label for each bag of seed that meets the requirements of the North Dakota State Seed Department. The labeling requirements can be found at the following location: <http://www.nd.gov/seed/index.aspx>

D. Seed Class.

Provide the minimum amount of seed per acre shown in Table 251-01. The mix requirements for Class III seed will be specified in the Plans.

Table 251-01 Seed Class Mix Requirements		
Grass Species	Variety	Pounds Pure Live Seed Per Acre
Class I		
Kentucky Blue Grass	Park	4.0
Perennial Rye Grass	-	5.4
Blue Grama	Bad River	2.4
Sideoats Grama	Killdeer, Pierre, Butte	7.2
TOTAL		19.0
Class II - Early Season		
Western Wheatgrass	Rodan, Rosana, Walsh, Flintlock, W.R. Poole, Recovery	9.6
Switchgrass	Dacotah, Forestburg, or Sunburst, Summer	3.2
Green Needlegrass	Lodorm, AC Mallard, Fowler	2.4
Sideoats Grama ¹	Killdeer, Pierre, Butte	3.6
Slender Wheatgrass	Revenue, Primar, Adanac, Pryor, Firstrike	5.0
TOTAL		23.8

Table 251-01 Seed Class Mix Requirements		
Grass Species	Variety	Pounds Pure Live Seed Per Acre
Class II - Late Season		
Western Wheatgrass	Rodan, Rosana, Walsh, Flintlock, W.R. Poole, Recovery	9.6
Switchgrass	Dacotah, Forestburg, or Sunburst, Summer	1.6
Green Needlegrass	Lodorm, AC Mallard, Fowler	3.6
Canada Wild-rye	Mandan	5.2
Slender Wheatgrass	Revenue, Primar, Adanac, Pryor, Firstrike	5.0
TOTAL		25.0

E. Temporary Cover Crop.

Provide a temporary cover crop that consists of oats. Spread at a rate of 64 pounds pure live seed per acre.

F. Wetland Seed. Provide the minimum amount of seed per acre shown in Table 251-02.

Table 251-02 Wetland Seed Mix				
Grass			Pounds Pure Live Seed Per Acre	
Common Name	Scientific Name	Variety	East of Hwy 83	West of Hwy 83
Prairie Cord Grass	<i>Spartina pectinata</i>	Red River	1.1	1.1
American Slough Grass	<i>Beckmannia syzigachne</i>	Common	0.2	0.2
Fowl Blue Grass	<i>Poa palustris</i>	Common	0.2	0.2
Fox Sedge	<i>Carex vulpinoidea</i>	Common	0.2	0.2
American Manna Grass ¹	<i>Glyceria grandis</i>	Common	0.2	0.2
Fowl Manna Grass ¹	<i>Glyceria striata</i>	Common	0.1	0.1
Bluejoint Grass ²	<i>Calamagrostis canadensis</i>	Common	0.1	0.1
Virginia Wild-rye	<i>Elymus virginicus</i>	Omaha	2.0	-
Canada Wild-rye	<i>Elymus canadensis</i>	Mandan	-	1.3
Total			4.1	3.4

¹American, Fowl, or both may be used. If only one is used the seeding rate of other species does not need to be increased.

²Seed may not be available and can be removed without increasing the seeding rate of other species.

G. Fertilizer.

Use a fertilizer mixture that contains a minimum of 20 pounds of nitrogen (N)

and 20 pounds of phosphorous (P_2O_5) per acre.

251.04 CONSTRUCTION REQUIREMENTS

A. General.

Clear seeding areas of all deleterious materials. Shape the cleared areas before seeding.

Do not place seed in frozen ground or in standing water.

Operate equipment parallel to the contours of the ground.

B. Seedbed Preparation.

Cultivate or disk topsoil to a depth of approximately 3 inches. Break up lumps and clods exposed by the initial pass of tillage equipment into pieces less than 1 inch in diameter. Remove materials greater than 1 inch in diameter that cannot be broken up. Construct a smooth and firm seedbed that allows seeds to be placed at a depth between 1/4 and 3/4 inches.

Do not cultivate or disk topsoil if temporary cover crop has achieved greater than 25 percent vegetative coverage determined by the Engineer.

Round the tops of backslopes before seeding.

Cover the exposed backslope with existing topsoil during the finish grading work without loading and transporting the topsoil.

Leave seedbeds that are to be hydraulic mulched with seed in loose condition.

Mow temporary cover crop to a height between 8 and 10 inches before placing final seed mixture.

C. Seasonal Limitations.

If seeding is required before April 20 or between July 16 and August 9, plant a temporary cover crop as specified in Section 251.03 E, "Temporary Cover Crop." Re-seed the area with Class I, II, or III seed mixture between April 20 and July 15 or after August 10 and before the ground freezes.

If planting Class II seed between April 20 and July 15, use the Class II – Early Season seed mixture specified in Table 251-01.

If planting Class II seed after August 10 and before the ground freezes, use the Class II – Late Season mixture specified in Table 251-01.

D. Seeding Requirements.

1. Class I, II, III, and Wetland Seeding Requirements.

Plant seeds to a depth between 1/4 and 3/4 inches.

2. Other Equipment Seeding Requirements.

Employ other methods in areas that are inaccessible to a grass drill.

Use a drag harrow to cover the seed. Use a light-weight packer over the seeded area.

Seed only when wind is less than 15 mph when not using a grass drill.

E. Fertilizer.

SECTION 253 MULCHING

253.01 DESCRIPTION

This work consists of grass hay or straw mulching, and hydraulic mulching.

253.02 EQUIPMENT

A. Hydraulic Mulch.

Use Hydraulic spraying equipment that mixes the seed and mulch in water.

B. Straw Mulch.

Use equipment that uniformly distributes the mulch over the seedbed.

Use a puncher that consists of a series of dull, flat disks:

- With notched or cutout edges;
- Approximately 20 inches in diameter;
- 0.25 inches thick;
- Spaced approximately 8 inches apart; and
- Fitted with scrapers.

253.03 MATERIALS

A. Seed.

Use the seed classification shown in the bid item that meets the requirements of section 251.03 D, "Seed Class."

B. Hydraulic Mulch.

Use hydraulic mulch free of germination or growth inhibiting factors. Provide hydraulic mulch free of recycled paper and toxins.

Provide hydraulic mulch with fibers that are capable of absorbing water and allowing infiltration to the underlying soil without restricting emergence of seedlings.

Provide a Certificate of Compliance stating that hydraulic mulch has a moisture content less than 10 percent at time of delivery.

C. Straw Mulch.

Use mulch material consisting of straw from cereal grain or native hay. The mulch shall be free of seed bearing stalks of noxious weeds as defined by the North Dakota Department of Agriculture. At least 50 percent of the mulch by weight must be at least 8 inches in length.

The Engineer will not accept mulch that:

- Is wet, musty, moldy, or rotted;
- Is chopped or ground; or
- Contains deleterious material.

D. Tackifier.

Use a tackifier consisting of one of the following:

1. Water soluble natural proteins, vegetable gums, or guar gums blended with gelling and hardening agents. Guar gum based tackifier shall consist of a minimum of 95 percent guar gum by weight with the remainder consisting of dispersing and cross-link additives.
2. Water soluble blend of hydrophilic polymers, viscosifiers, sticking aids and other gums.

E. Bonded Fiber Matrix.

Use a bonded fiber matrix consisting of a continuous layer of elongated fiber strands held together by a water resistant bonding agent. The matrix shall be 100 percent biodegradable and composed of, by weight, 90 percent wood fiber, 9 percent natural binder and 1 percent organic and mineral activators.

253.04 CONSTRUCTION REQUIREMENTS**A. General.**

Uniformly cover seeded areas with mulch within 24 hours of initiating seeding.

Protect traffic, signs, structures, and other objects from being marked or splattered by the material.

B. Hydraulic Mulch.**1. General.**

Use mulch that is evenly dispersed and suspended in agitated water. Apply at a rate of 1 ton per acre with a minimum of 95 percent coverage of the seedbed.

When hydraulic mulch is required, the specified seed mixture may be combined with the hydraulic mulch and applied in a single application.

2. Temporary Care Maintenance.

Keep the soil in the mulch area moist a minimum of 3 inches deep for the first 21 days.

The Engineer will not require watering between October 1 and May 15 in areas with hydraulic seeding.

3. Seasonal Limitations.

If applying seed mixture and hydraulic mulch in a single application, the time-frames specified in Section 251.04 C, "Seasonal Limitations" will apply.

C. Straw Mulch.**1. Application.**

Place mulch at a rate of 2 tons per acre.

Do not perform mulching operations when the sustained wind velocity is greater than 25 miles per hour.

Avoid placing excessive cover that smothers seedlings.

2. Anchoring.

Anchor mulch using one of the following methods:

a. Punching.

Immediately following application, punch mulch into the soil using a puncher.

Operate the tiller parallel to the contours of the ground.

Push the mulch into the soil 3 inches, with the ends of the mulch exposed above the soil surface.

b. Tackifier.

Use tackifier on areas where slopes are greater than 3:1. Apply the tackifier at the rate recommended by the manufacturer. If no manufacturer recommendations are available, apply at a rate between 175 and 275 pound per acre by spraying with the mulch or immediately following the mulching application.

3. Maintenance.

Repair or re-mulch damaged areas.

D. Bonded Fiber Matrix.

Apply at the manufacturers recommended rate or 3,900 pounds per acre and use a mix consisting of 1 pound bonded fiber matrix to 12.5 gallons water.

Install the matrix with hydraulic seeding equipment.

253.05 METHOD OF MEASUREMENT

The Engineer will measure, completed and in place, as specified in Section 109.01, "Measurement of Quantities."

253.06 BASIS OF PAYMENT

Pay Item	Pay Unit
Straw Mulch	Acre, Square Yard
Hydraulic Mulch	Acre, Square Yard
Bonded Fiber Matrix	Acre, Square Yard

Such payment is full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

SAFETY

1. Required standard PPE (hard hat, safety glasses, gloves, high visibility clothing)
2. Complete Pre-Task Planning card each day prior to starting work
3. Use a spotter any time working within 3' of foundation pedestal or transformer
4. Equipment working in close proximity to crew on the ground, be aware of pinch points
5. Be alert when loading and unloading equipment to and from each site
6. Traffic on site
7. Always use 3 points of contact while entering and exiting equipment
8. Utility awareness
9. Look out for snakes and spiders

Quality

1. Ensure proper depth of decompaction (8-10in)
2. Make sure that the proper width is achieved on the road shoulders.
3. Ensure area around turbine site is decompacted

Quality Procedure:

1. Crew will check and verify that decompaction is being achieved for proper depth.
2. Mortenson Foreman/Surveyor will verify areas of decompaction have been completed.
3. Ensure that site is restored back to as close to original topography as possible.
4. Upon completion of a string road Mortenson Superintendent/Engineer will contact the owner to complete the necessary sign off documentation and schedule seeding.

Mortenson Construction
 Project Manager: Tom Kubes 763.287.5140
 Superintendent: Mike Trotter 406.360.5668
 Field Engineer: Mandi Petrosky 406.422.8354

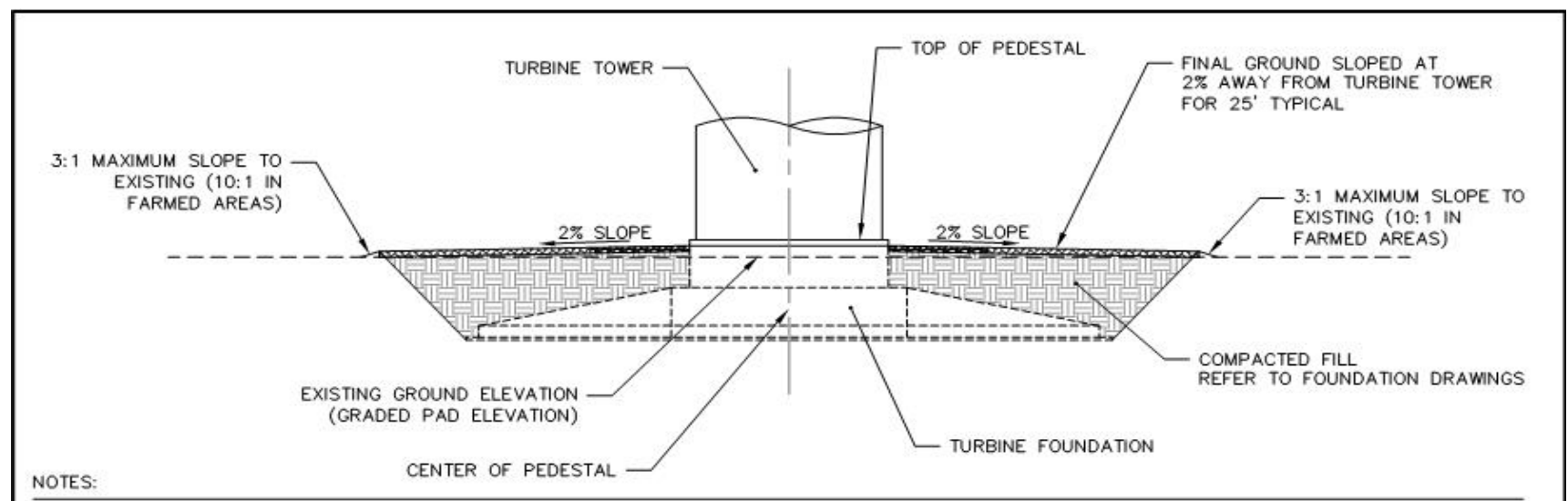
INTEGRATED WORK PLAN Sunflower Wind Wind Project Restoration

Before Starting

1. Complete Pre-task Planning Card with crew and review this IWP.
2. Fill out all required permits and collect the proper signatures
3. Preform all equipment inspections prior to starting any work
4. Ensure all previous activities have been completed and approved at least (24 to 48hrs in advance)

Construction

1. Arrive at work area look for any existing utility locates and the directions they run.
2. Restore crane path area, restore turbine sites making sure to ensure 2% slope from pedestal, and restore 36' roads down to 16'
3. Set the required depth on the ripper attachment typically (8-10in) for subgrade
4. Once subgrade is prepped, start decompacting topsoil using equipment insuring not to bring subsoil up to the surface
5. If subsoil is being brought up to the surface adjust the ripper attachment accordingly
6. Start decompaction process again and always being aware of what's in front and behind you
7. Get sign off from the owner for the finished area
8. Turn completed area over for seeding activity



START DATE: 4/13/15
END DATE:
DURATION: 12 Weeks
CREW SIZE: 2 - Operators
PRODUCTIVITY:
 180.6LF/Man Hour

WORK HOURS
 NORMAL HOURS
 Mon-Fri /10 Hrs

Materials:

Equipment:

140M Blade
 D6 Dozer with 6 Way Blade
 Tractor with Ripper attachment

Reference Documents
 Sunflower Wind Project

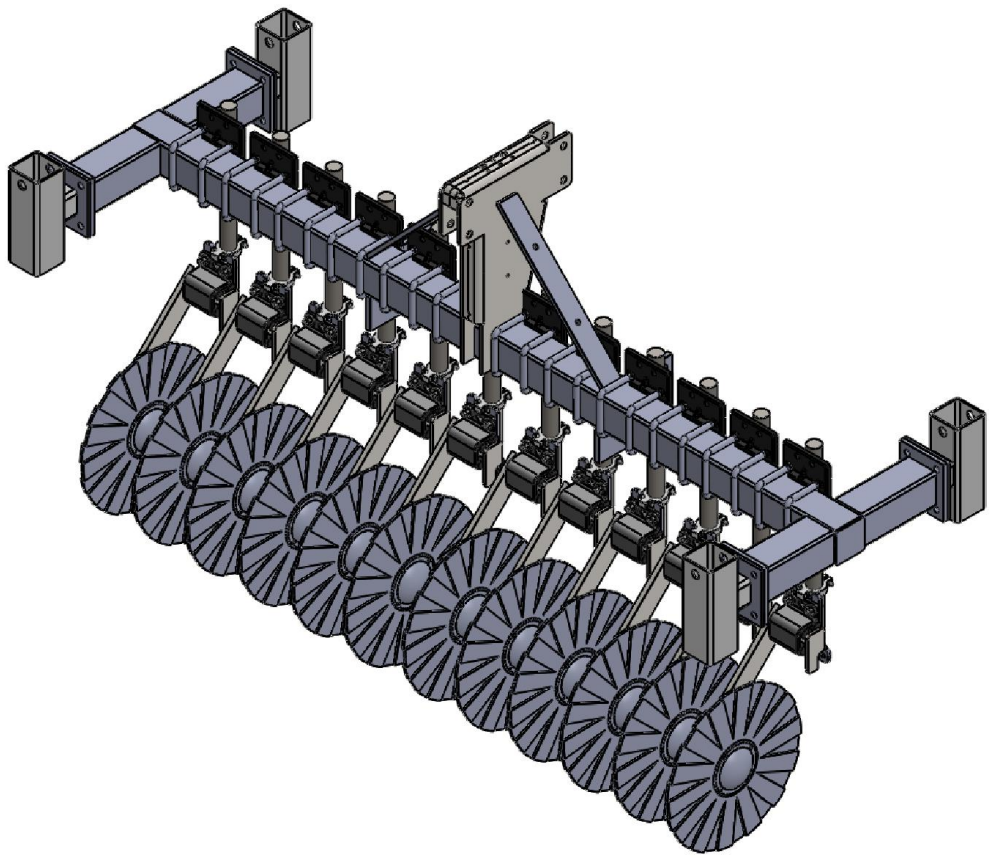
Revision History

Date	Revision
9/29/16	ORIGINAL PLAN

Prepared by:
 Mandi Petrosky Mortenson Civil

Mortenson Project Number:
 15148019- Sunflower Wind Project

812



TOLERANCES
(UNLESS NOTED OTHERWISE)
ANGLE: +/- .5 DEG
DECIMALS:
X.XX +/- .01"
BENDS: +/- .063"



truax COMPANY, INC.
4300 Quebec Ave. N
New Hope, MN 55428
(763) 537-6639

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

<small>THIS DRAWING, INCLUDING ALL SUBJECT MATTERS INDICATED THEREON OR DERIVED THEREFROM, COMPRISES PROPRIETARY INFORMATION AND IS THE EXPRESS PROPERTY OF TRUAX COMPANY, INC.</small>		
SCALE: 1:12	DRAWN: PGS	DATE: 1/11/16
MATERIAL: SEE B.O.M.		SHEET: 1 OF 1
TITLE: STRAW CRIMPER		PART # AND REV: 812

LAST SAVED: Thursday, February 04, 2016 1:35:43 PM