

COLUMBUS I CLEVELAND CINCINNATI-DAYTON MARIETTA

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Sally W. Bloomfield 614.227.2368 sbloomfield@bricker.com October 19, 2015

Via Electronic Filing

Ms. Barcy McNeal Public Utilities Commission of Ohio Administration/Docketing 180 East Broad Street, 11th Floor Columbus, OH 43215-3793

Re: Trishe Wind Ohio, LLC, Case No. 13-197-EL-BGN

Dear Ms. McNeal:

The December 16, 2013 Opinion, Order, and Certificate approving Northwest Ohio Wind Energy, LLC's [now known as Trishe Wind Ohio, LLC ("Trishe")] Certificate of Environmental Compatibility and Public Need ("Certificate") and the October 1, 2013 Supplement to Amended Application ("Supplement") established a set of conditions and supplemental commitments as part of the Certificate.

Within this set of conditions and commitments, **Certificate Condition No. 6** requires the following:

At least 30 days prior to the preconstruction conference, the Applicant shall submit to Staff, for review and acceptance, one set of detailed engineering drawings of the so that Staff can determine that the design is in compliance with the terms of the certificate. The layout shall be provided in hard copy and as geographically-referenced electronic data. The design shall include all conditions of the certificate and references at the locations where the Applicant and/or its contractors must adhere to a specific condition in order to comply with the certificate.

Attached for filing is a copy of the surface plan for the substation. If you have any questions please call at the number listed above.

Sincerely,

Sally W. Bloomfield

Attachment

cc: Grant Zeto (w/Attachment)

fally W Bloomfuld

Chris Cunningham (w/Attachment)



DASHIELL

ENGINEERS - CONSTRUCTORS

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TRANSMITTAL #	14
DATE	October 16, 2015
PROJECT #	700941
CLIENT	GAMESA-NW OHIO WINDFARM
DESCRIPTION	IFC Grading

X CONSTRUCTION

DRAWINGS PER THE ATTACHED LIST HAVE BEEN RELEASED FOR FABRICATION AND/OR FIELD INSTALLATION.

DRAWING DISTRIBUTION		INFORMATION APPROVAL		L	CONSTRUCTI		TION	ION RECORD					
NAME	COMPANY ADDRESS	Р	E	K	Р	E	K	Р	E	K	Р	E	K
Edward Johnson	Gamesa								FTP				
Mikel Hurtado Martinez	Gamesa								FTP				
Alazne Pol Castillo	Gamesa								FTP				
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Charlie Haynes	Dashiell Corp.								FTP				

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TRANSMITTED BY: CASEY HAYNES DASHIELL RALEIGH ENGINEERING DEPARTMENT

GAMESA-NW OHIO WINDFARM DASHIELL PROJECT NO. 700941

TRANSMITTAL NO. 14 ISSUED FOR CONSTRUCTION

Document No.	Sh.	Title	Rev.	
		GAMESA	i	
700941A-DC0-04320	1-3	NORTHWEST OHIO WIND FARM	0	
700941A-DC0-04320	1-3	138/34.5kV SUBSTATION	U	
		SITE PREPARATION SPECIFICATION		
		GAMESA		
700941A-DC0-04330	1	NORTHWEST OHIO WIND FARM	0	
700941A-DC0-04330	'	138/34.5kV SUBSTATION		
		FINAL SURFACING SPECIFICATION		
		GAMESA		
700941A-DC0-70000	1	NORTHWEST OHIO WIND FARM	0	
700941A-DC0-70000	'	138/34.5kV SUBSTATION	U	
		SITE GRADING PLAN		
		GAMESA	0	
700041A DC0 70001	1	NORTHWEST OHIO WIND FARM		
700941A-DC0-70001	'	138/34.5kV SUBSTATION	0	
		SITE GRADING SECTIONS		

SITE PREPARATION

1.0 Scope

- 1.1 Site preparation shall be provided by the Subcontractor.
- 1.2 The site area shall be defined as shown by the project site drawing.
- 1.3 Site preparation shall include the substation site area.
- 1.4 It is the intent of this specification for the Subcontractor to provide a roadbed like surface that will shed rainwater readily and minimize construction delays.
- 1.5 Definitions
 - 1.5.1 Contractor shall be defined as Dashiell's Construction Dept.
 - 1.5.2 Engineer shall be defined as Dashiell's Engineering Dept.
 - 1.5.3 Subcontractor shall be defined as the party responsible for performing the site work.

2.0 Clearing and Grubbing

- 2.1 The site shall be cleared of all stumps, brush, shrubs, grass, specified trees and other vegetation. Rocks, debris and all other material obstructing the work shall also be cleared from the work site.
- 2.2 The site shall be cleared of all grass and roots to a depth of six (6) inches in the pad area.
- 2.3 Grubbing shall include the removal of stumps and roots larger than one (1) inch in diameter and stones larger than two (2) inches in size.
- 2.4 All material resulting from the clearing and grubbing operations shall be hauled and disposed of away from the site, unless otherwise noted. No burning of debris at the site is permitted unless approved in writing.

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BARRY HUGHES, P.E. OH PE.79827

ENGINEER

PE NUMBER

DASHIELL CORPORATION-FIRM NO. 03148

OCTOBER 16, 2015

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Gamesa - Haviland, Ohio Northwest Ohio Wind Farm 138/34.5 kV Substation Site Preparation Specification

DRAWN CSR CHK'D BAH DATE 10/12/2015 owg. NO. 700941A-DC0-04320 SH. 1 OF 3 REV.

3.0 Rough Grading

- 3.1 The exposed surface shall be proof-rolled and all soft spots excavated to firm material.
- 3.2 Soil from excavated areas shall be replaced with fill material.
- 3.3 The soil shall be scarified to a depth of nine (9) inches and compacted after roots have been removed.
- 3.4 The fill material shall be placed in a maximum eight (8) inches loose lifts (6 inches compacted) and shall be compacted to 95% modified proctor density at optimum moisture content (-0%, +4%) as determined by ASTM Specification D698.

4.0 Fill Material

- 4.1 Material, which is to be used for fill, shall be a clean, inorganic, cohesive soil. Fill material shall be free of debris and contain less than two (2) percent by weight of organic material. It shall have a plasticity index between 15-22 and a liquid limit of 40 or less. If this material is not readily available, soil with a lower plasticity index may be used upon engineer's approval.
- 4.2 The Subcontractor shall specify the proposed source of fill material prior to commencement of filling operations, so that representative samples of the material can be collected by the Subcontractor for testing.
- 4.3 If the Subcontractor wishes to provide an alternative fill material to that which has been called for, or proposes to use a stabilized or treated material, the Subcontractor shall submit all relevant data on the material to the Contractor for evaluation.

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Gamesa - Haviland, Ohio Northwest Ohio Wind Farm 138/34.5 kV Substation Site Preparation Specification

DRAWN CSR CHK'D BAH DATE 10/12/2015 owg. NO. 700941A-DC0-04320 SH. 2 OF 3 REV.

5.0 Quality Control

- 5.1 The Subcontractor shall obtain test data for the proposed fill material and submit to the Engineer prior to commencing fill placement. The following tests shall be used to determine the acceptability of the fill material and shall be used for quality control during compaction.
 - 5.1.1 A set of test data shall consist of a natural moisture content determination, Atterberg Limits testing, one (1) Standard Sieve Analysis, per ASTM C136 or ASTM D422 and one (1) Modified Proctor Test, per ASTM D1557.
 - 5.1.2 A new set of test data shall be obtained when there is a change in the fill material and for each 2,000 cubic yards.
- 5.2 Each compacted lift shall be tested for in-place density every 5,000 square feet per ASTM D1556, ASTM D2167 or ASTM D2922. If a test indicates unacceptable results, the fill placed subsequent to the preceding test shall be scarified, adjusted to proper moisture and re-compacted.
- 5.3 Tests shall be performed under the direction of a professional engineer.
- 5.4 All test results shall be submitted to the Engineer.
- 5.5 Following completion of site preparation activities, the Subcontractor shall provide a topographic survey to the engineer for review. The survey is to be provided in both a drawing and electronic format to Dashiell Civil Engineer, so that it can be determined whether the desired lines and grades have been achieved. The survey shall shoot levels on a 50' +/- grid throughout the newly prepared area.

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DRAWN CSR CHK'D BAH DATE 10/12/2015

700941A-DC0-04320 SH. 3 OF 3

FINAL SURFACING

1.0 Definitions

- 1.0.1 Contractor shall be defined as Dashiell's Construction Dept.
- 1.0.2 Engineer shall be defined as Dashiell's Engineering Dept.
- 1.0.3 Subcontractor shall be defined as the party responsible for performing the site work.

2.0 Soil Sterilization

2.1 Prior to the application of the site final surfacing, the subcontractor shall treat the site with a soil sterilizing agent for vegetation control.

3.0 Surfacing Material

3.1 Final surfacing shall be comprised of crushed limestone (Texas DOT Aggregate Grade 4 / ASTM C33 Grade # 57 or equal). The gradation of the crushed stone material shall conform to the following:

<u>Sieve</u>	% Retained Limits	% Retained Avg.
1-1/2"	0	0
1"	0-5	2
1/2"	40-75	58
No. 4	90-100	97
No. 8	95-100	99

3.2 Crushed stone gradations with large amounts of fine material are not acceptable. The use of crushed stone material with gradations different than specified above, shall require the approval of the contractor

4.0 Surfacing Installation

- 4.1 Prior to the installation of surfacing material, the subcontractor shall re-grade and recompact the site.
- 4.2 The Subcontractor shall install the surfacing material to a depth of 6" unless otherwise specified.

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BARRY HUGHES, P.E. OH PE.79827

ENGINEER

PE NUMBER

DASHIELL CORPORATION-FIRM NO. 03148

OCTOBER 16, 2015

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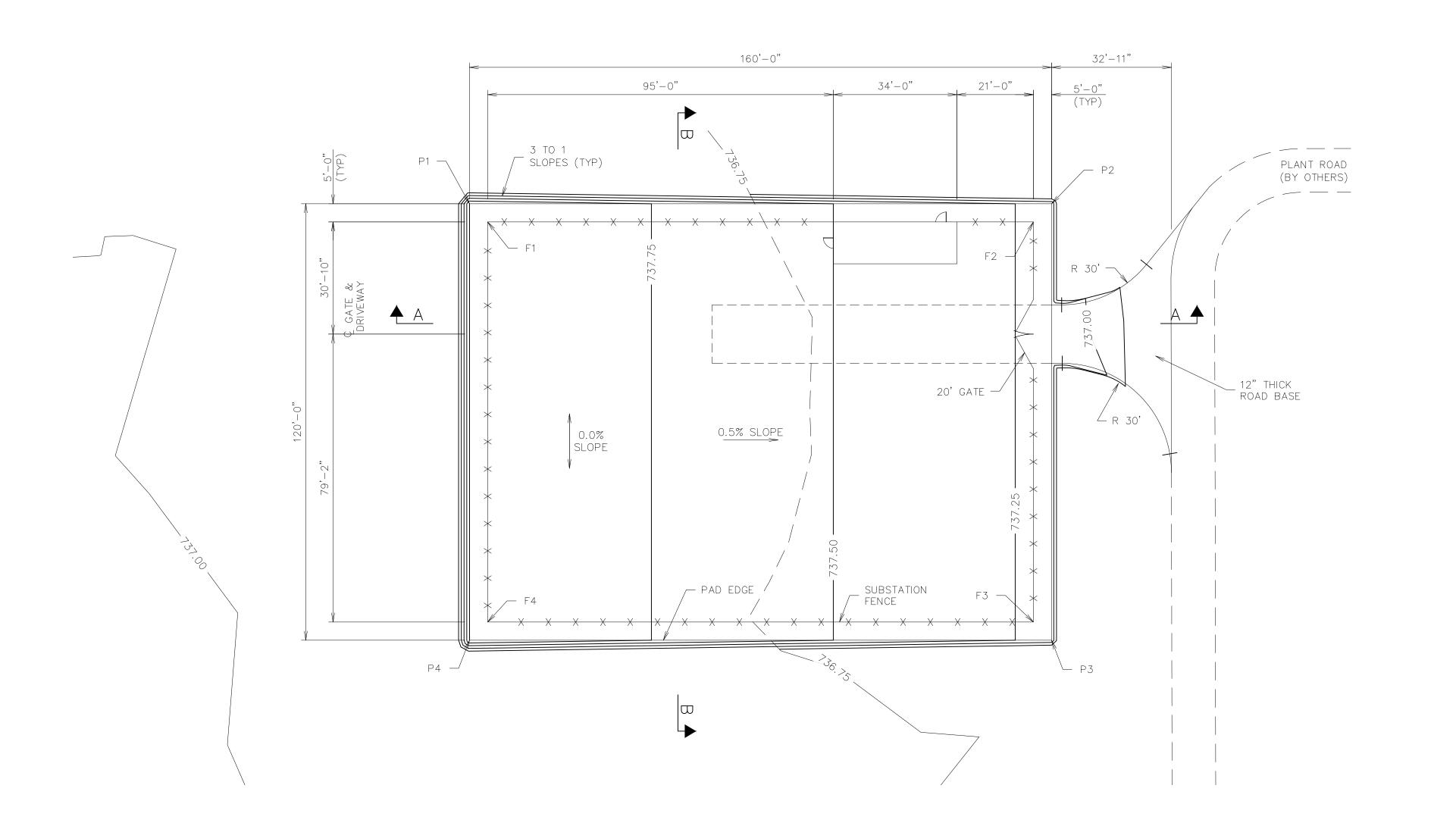


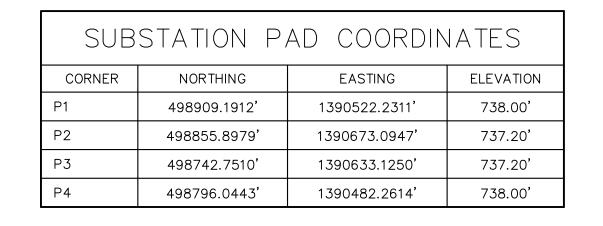
Gamesa - Haviland, Ohio Northwest Ohio Wind Farm 138/34.5kV Substation Final Surfacing Specification

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CHK'D	BAH
DATE	10/12/2015

DWG. NO. 700941A-DC0-04330 SH. 1 OF 1

REV.





PROPOSED FENCE COORDINATES					
CORNER	NORTHING	EASTING	ELEVATION		
F1	498902.8113'	1390525.2802'	737.98'		
F2	498852.8491'	1390666.7141'	737.23'		
F3	498749.1312'	1390630.0752	737.23'		
F4	498799.0934'	1390488.6413'	737.98'		

LEGEND

FENCE LINE

PROPOSED CONTOUR LINE

- CALTERED)

P1 PAD CORNER

F1 FENCE CORNER

SURVEY INFORMATION

- 1. COORDINATES ARE BASED ON THE OHIO STATE PLANES; NAD83 DATUM, NORTH ZONE, US FOOT COORDINATE SYSTEM, NAD 83 IN FEET (3401).
- 2. BACKGROUND INFORMATION OBTAINED FROM A LIDAR SURVEY PROVIDED BY WESTWOOD MULTI-DISCIPLINED SURVEYING & ENGINEERING, DATED 9/28/15.

NOTES

- 1. THE INFORMATION SHOWN ON THESE DRAWINGS IS PROVIDED TO BETTER ENABLE THE CONTRACTOR TO ACCURATELY ESTIMATE THE AMOUNT OF WORK REQUIRED TO CONSTRUCT THE SITE TO THE ELEVATIONS SHOWN ON THE GRADING PLAN. WE BELIEVE THAT THE CONTOURS SHOWN ACCURATELY REPRESENT THE CONDITION OF THE SITE ON THE DATE IT WAS SURVEYED BUT THE CONTRACTOR IS EXPRESSLY PERMITTED TO PERFORM ANY ADDITIONAL FIELD VERIFICATION PROCEDURES HE DEEMS NECESSARY TO PREPARE HIS BID.
- 2. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS:

 SITE PREPARATION_____700941A-DC0-04320
- FINAL SURFACING______700941A-DC0-04320
- 3. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE FINISHED SUBGRADE ELEVATIONS (TOP OF COMPACTED FILL/ BOTTOM OF FINAL ROCK SURFACE)
- UNLESS OTHERWISE NOTED.

 4. ALL CUT SLOPES SHALL NOT BE STEEPER THAN 3:1 EXCEPT WHERE NOTED

 5. ALL FILL SLOPES SHALL NOT BE STEEPER THAN 3:1 EXCEPT WHERE NOTED
- 6. SITE AREA TO BE COVERED WITH 6" THICK LAYER OF CRUSHED LIMESTONE. CRUSHED LIMESTONE TO EXTEND 5 FEET OUTSIDE FENCE AND DOWN SIDE SLOPES.

0	ISSUED FOR CONSTRUCTION	10/16/15	CSR	ВАН
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REV	DESCRIPTION	DATE	DRAWN	ENGINEER

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
BARRY ANTHONY HUGHES, P.E. OH PE.79827
DASHIELL CORPORATION-FIRM NO. 03148
ON OCTOBER 16, 2015
CURRENT REVISION ONLY

HUGHES PE.79827

DASH ELL ENGINEERS CONSTRUCTORS WWW.dashiell.com

GAMESA — HAVILAND, OHIO NORTHWEST OHIO WIND FARM 138/34.5kV SUBSTATION SITE GRADING PLAN

DWG. NO.

700941A-DC0-70000

S. B. HUGHES

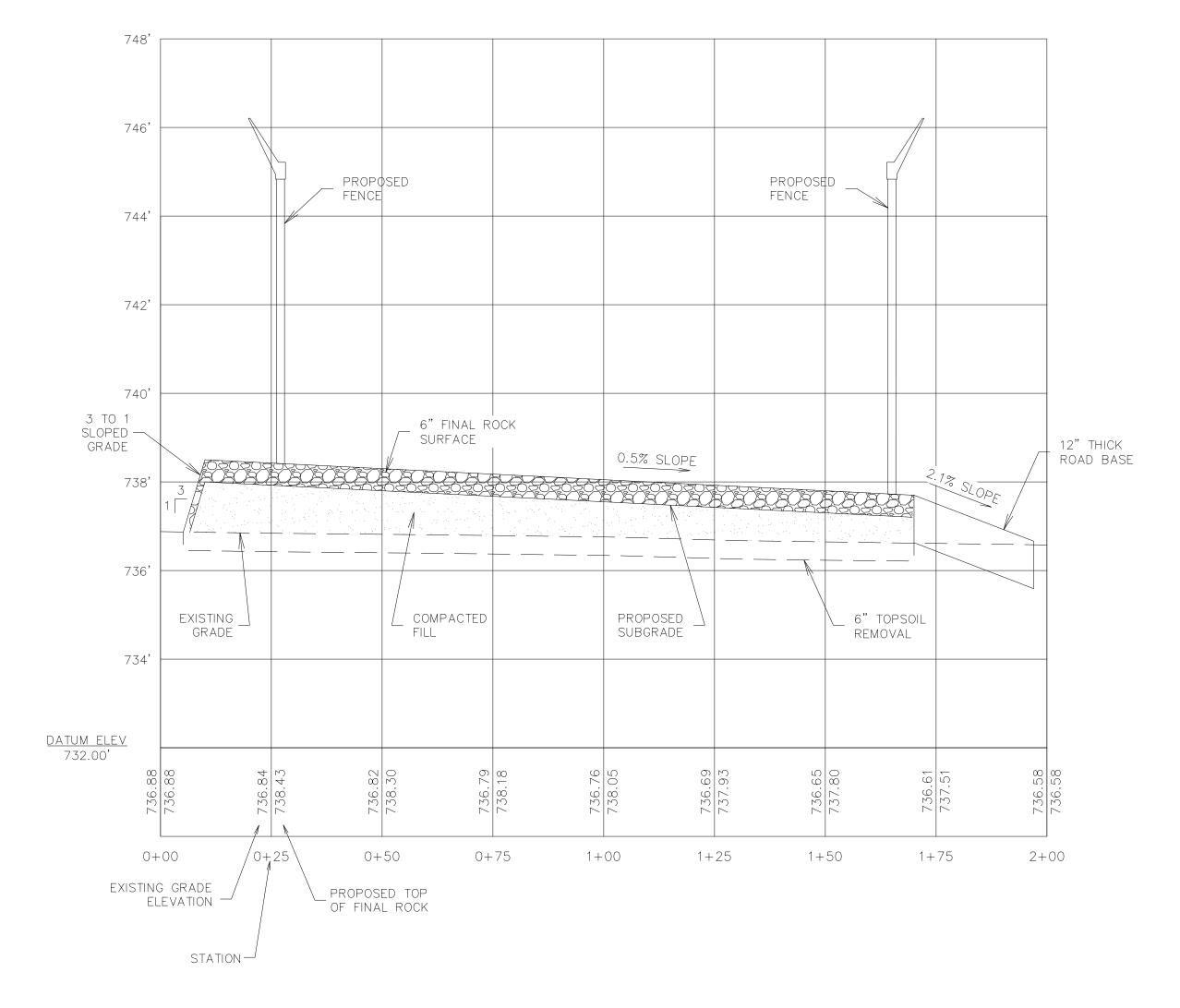
SCALE 1"=20'-0"

SHEET 1 of 1

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OCTOBER 16, 2015



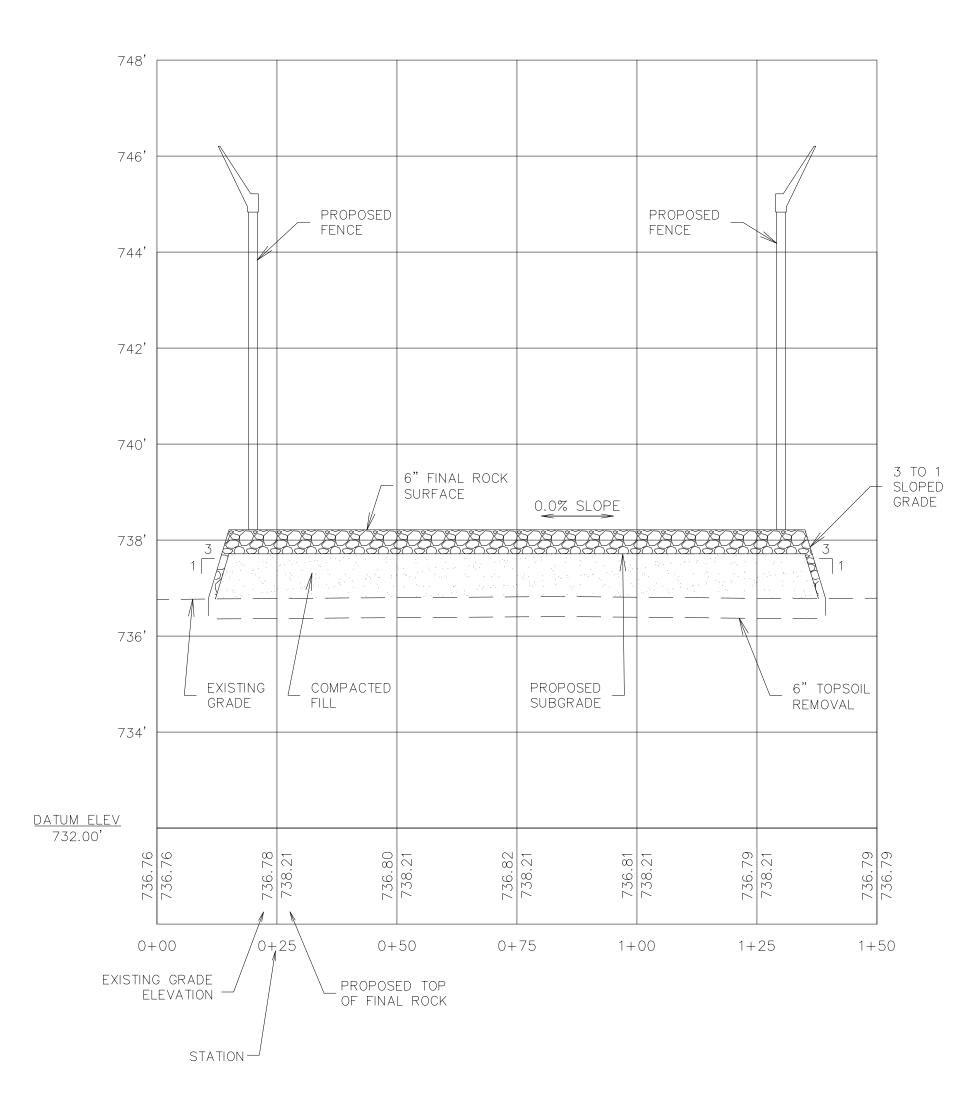
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SECTION A—A

HORIZONTAL SCALE 1"=20'

VERTICAL SCALE 1"=2'



SECTION B-B

HORIZONTAL SCALE 1"=20'

VERTICAL SCALE 1"=2'

INOTES

SEE SHEET 700941A-DC0-70000 SITE GRADING PLAN FOR ALL NOTES

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OCTOBER 16, 2015

GRAPHIC SCALE (IN FEET)

0 10 20 40 80

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GAMESA — HAVILAND, OHIO NORTHWEST OHIO WIND FARM 138/34.5kV SUBSTATION SITE GRADING SECTIONS

DATE 12 OCT 2015

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DWG. NO.

700941A-DC0-70001

ENG. B. HUGHES

SCALE 1"=20'-0"

SHEET 1 of 1

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in

Case No(s). 13-0197-EL-BGN

Summary: Correspondence of Trishe Wind Ohio, LLC in Compliance with Condition No. 6 electronically filed by Teresa Orahood on behalf of Sally Bloomfield