

COREY, BYLER & REW, L.L.P.
ATTORNEYS AT LAW

STEVEN H. COREY*
DAVID M. BLANC*
TIMOTHY P. O'ROURKE
STEVEN N. THOMAS
KARIN E. DALLAS
JENNIFER E. CURRIN
PATRICK M. GREGG
NICHOLAS R. BLANC°

222 S.E. DORION AVENUE
P.O. BOX 218
PENDLETON, OREGON 97801-0218

TELEPHONE (541) 276-3331
FAX (541) 276-3148

DOUGLAS E. HOJEM, OF COUNSEL
HENRY C. LORENZEN, OF COUNSEL

ROBERT E. O'ROURKE, RETIRED

GEORGE H. COREY, DECEASED
ALEX M. BYLER, DECEASED
LAWRENCE B. REW, DECEASED

Email: corey@corey-byler.com

*Admitted in Oregon and Washington
°Admitted in Oregon and California

April 11, 2016

VIA EMAIL AND HAND DELIVERY
Mr. George Murdock, Chair
Umatilla County Board of Commissioners
216 SE Fourth Street
Pendleton, OR 97801

RECEIVED

APR 11 2016

UMATILLA COUNTY
PLANNING DEPARTMENT

Re: Chopin Wind, LLC Wind Energy Project
Conditional Use Permit #C-1252-5; Land Use Decision #LUD-194-15

Dear Chair Murdock, Mr. Elfering, and Mr. Givens:

As you know I, along with Patrick Gregg and our law firm of Corey, Byler & Rew, LLP, represent Chopin Wind, LLC ("Chopin Wind") in relation to Chopin Wind's efforts to construct a 10 megawatt wind energy project and associated transmission line here in Umatilla County. I offer this letter to provide legal evaluation to assist you in analyzing the issues and making your decision on Chopin Wind's Conditional Use Permit and Land Use Decision that are before you on appeal.

Appellants, principally Jesse and Granella Thompson, ask the Commissioners to require that Staggs Road, a county road, not be used at all by Chopin Wind and urge the use of Ferguson Road exclusively. As explained more fully below, the appellants' efforts to prevent any use of Staggs Road by vehicle traffic for construction and operation of the wind energy facility and to prevent installation of the underground transmission line beneath Staggs Road are directly contrary to the rights granted to Ferguson Ranches, Inc. and Chopin Wind under Oregon law and the appellants' arguments should be disregarded. Chopin Wind has fully met its burden of proof as the applicant and substantial evidence is in the record in favor of Chopin Wind's position. We therefore respectfully request that you affirm the decision of the Umatilla County Planning Commission with no changes made to the Final Findings and Conclusions that were issued by the Planning Commission.

The appellants' argument should be rejected for two reasons. First, such a result is flagrantly contrary to Oregon law. Second, substantial evidence in the record establishes that Staggs Road is actually a superior choice. Thus, the Commissioners should disregard these

arguments by the appellants and affirm the permit which contemplates the use of Staggs Road for construction, repair and maintenance of the wind energy project and the burying of the underground transmission line along Staggs Road.

State law sets forth the requirements governing access to a county road. Specifically, ORS 374.309 describes the regulations a county may impose with respect to access onto a county road. Subsection 1 of ORS 374.309 states that:

The county court or board of county commissioners shall adopt reasonable rules and regulations and may issue permits, not inconsistent with the law, for the use of the rights of way of county roads for the purposes described in ORS 374.305. ORS 374.309 (1).

Subsection 3 of that same statute requires the county to allow a specific level of access to all property owners who abut the county road. It provides as follows:

The powers granted by this section and ORS 374.315 **may not be exercised so as to deny any property abutting the road reasonable access**. In determining what is reasonable access, the county court or board of county commissioners shall apply the following criteria:

(a) The access must be sufficient to allow the authorized uses for the property identified in the acknowledged local comprehensive plan;

(b) The type, number, size, and location of approaches must be adequate to serve the volume and type of traffic anticipated to enter and exit the property, based upon the planned uses for the property. ORS 374.309 (3) (emphasis added).

Subsection 3 of ORS 374.309 is a clear directive to counties in Oregon. A property owner who abuts a county road must be allowed to use that road. As evident on the map attached hereto as Exhibit A and also set forth in the staff report prepared by the Umatilla County Planning Department staff, the Ferguson Ranch, Inc. property leased by Chopin Wind, where the project will be located, abuts Staggs Road. Any argument here by the appellants that Staggs Road should not be used ignores the binding law in Oregon. Put simply: Chopin Wind as lessee, and Ferguson Ranch, Inc. as owner, have an absolute right to access Staggs Road under ORS 374.309 and such access cannot be denied.

Further, ORS 379.309 does not allow the scope of the access to be limited. Indeed, subsection (3)(a) plainly states that the use must be sufficient to allow the "authorized uses" for the property. As applied here, that means the use of Staggs Road that the county must allow its use related to the construction and operation of a wind energy project as well as the installation and subsequent use and maintenance of an underground transmission line. Wind energy facilities are conditional uses permitted in an Exclusive Farm Use zone under

Oregon law and the Umatilla County Development Code.¹ In this case, the project site is located in an area zoned for Exclusive Farm Use. Likewise, a buried transmission line is also permitted within the county right of way under the Umatilla County Development Code and under state law.² Therefore, reasonable access in this instance is access along Staggs Road for construction and maintenance of the wind energy project and access for the construction, use and maintenance of the underground transmission line. No basis exists for the appellants' arguments to the contrary that a party who abuts a county road can be compelled to stay off of that road or use another county road.

In addition to the clear legal standards that confer upon Chopin Wind and Ferguson Ranch, Inc. a right to use Staggs Road, the facts in the record also support the use of Staggs Road. Not only has the Umatilla County Planning Department Staff undertaken a comprehensive review of Chopin Wind's application and proposed Findings and Conditions, after its intensive hearing and deliberation the Planning Commission subsequently approved the suggested Findings and Conditions without a single change. Further, the Director of the County's Department of Public Works submitted a letter indicating that the preferred option for Umatilla County is Staggs Road. More significantly, Chopin Wind has applied for and received a utility access permit from the Umatilla County Department of Public Works. Said access permit is attached. The issuance of the utility access permit is powerful and persuasive evidence that the location of the underground transmission line along Staggs Road is appropriate.

Put simply, the proposed conditions urged upon the Commissioners by the appellants—which contemplate the non-use of Staggs Road—are simply not allowed under ORS 374.309. Access to Staggs Road must be granted to Chopin Wind as a lessee of property that abuts Staggs Road and to Ferguson Ranch, Inc. as the owner. A decision to the contrary elevates the interests of the Thompsons, who own 842 feet out of Staggs Road's total length of 11,176 feet, above the interests of other parties rightfully entitled to use Staggs Road and above the explicit requirements of state law. Such a result is not legally allowed. Chopin Wind therefore respectfully suggests that the appropriate course of action is for the Umatilla County Commissioners to affirm the decision of the Planning Commission.

Appellants ask the Commissioners to forbid use of Staggs Road for any purpose. This request is not in accord with the law cited above. Such a result would negatively impact Chopin Wind, which has invested significant financial and other resources into developing this wind energy project.

Chopin Wind appreciates the opportunity to present its position to the Commissioners and respectfully suggests that the appropriate decision by the

¹ See ORS 215.283; Umatilla County Development Code §§ 152.061, 152.615, 152.616 (HHH), and 152.617

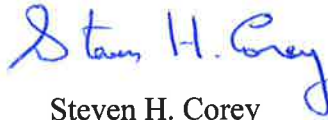
² See ORS 215.274; 215.275, Umatilla County Development Code §§ 152.617 (II)(7). See also ORS 758.010 (1) which states that "any person has a right and privilege to construct, maintain and operate" electric service lines along public roads free of charge. ORS 758.010 (1).

Mr. George Murdock
April 11, 2016
Page 4 of 4

Commissioners is to affirm the decision of the Umatilla County Planning Commission with respect to Conditional Use Permit #C-1252-5 and Land Use Decision #LUD-194-15.

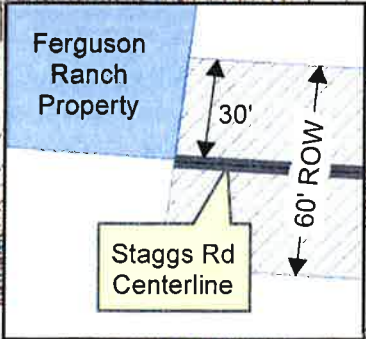
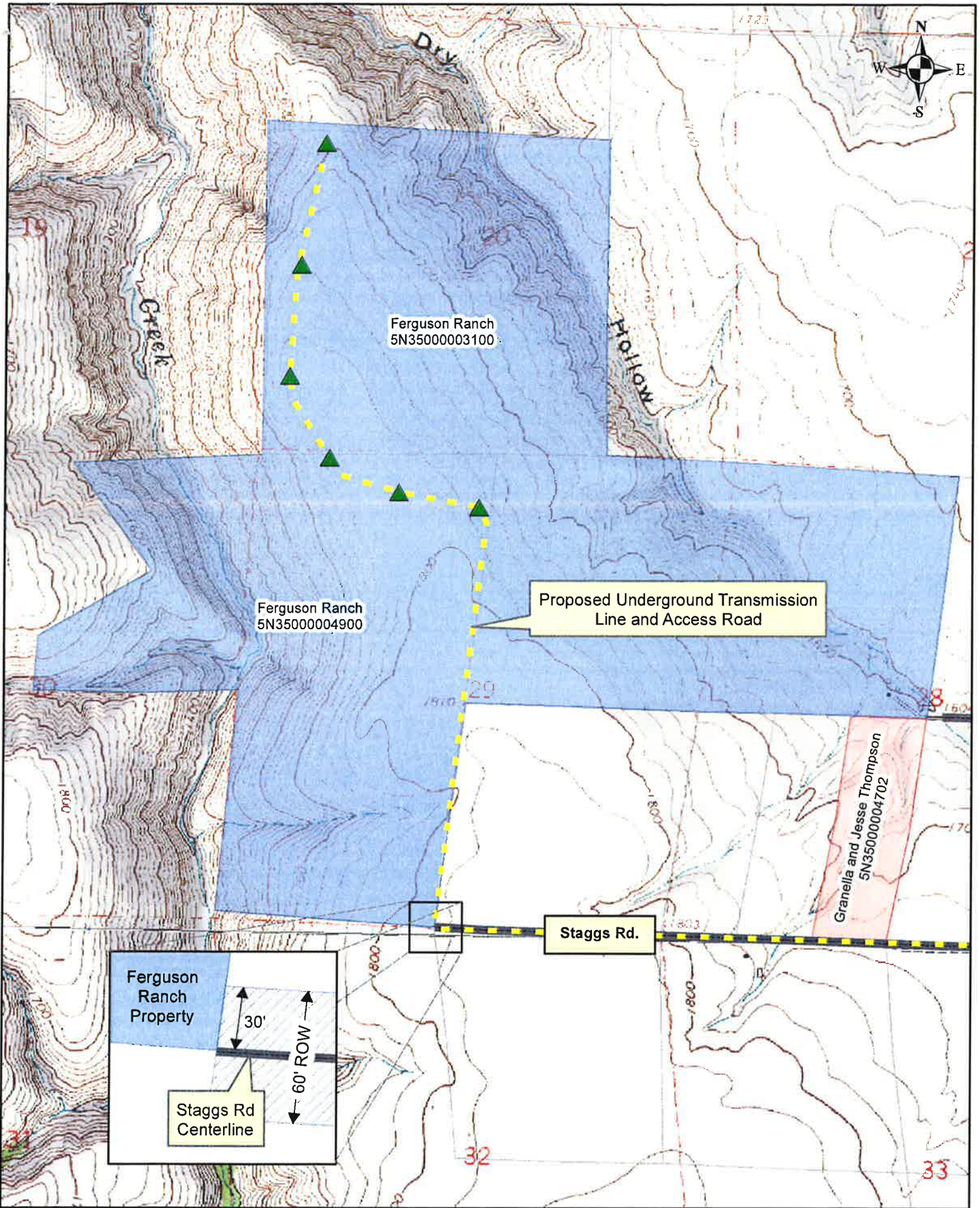
Thank you.

Sincerely yours,

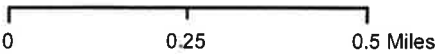


Steven H. Corey
Patrick M. Gregg

cc: Douglas R. Olsen
Jeffrey L. Kleinman



1:17,000



Chopin Wind, LLC
 Access to Public County Road
 Stags Rd.



Prepared April 7, 2016

long

RECEIVED
4/4/16

DATE PERMIT FORM ISSUED: _____

ISSUED BY: _____

FEE: 50⁰⁰
CK# 2693

UMATILLA COUNTY DEPARTMENT OF PUBLIC WORKS
3920 WESTGATE
PENDLETON, OREGON 97801

PERMIT APPLICATION FORM
FOR
INSTALLATION OF UTILITIES ON COUNTY AND PUBLIC ROADS

I (We) Chopin Wind, LLC _____

(Please Print or Type Names)

4365 Executive Drive Suite 1470, San Diego, CA 92121 858-450-6800 _____

(Address)

(Telephone Number)

hereby respectfully request permission to access Umatilla County Road

No. 674 , Staggs Rd. _____

(Road Name)

or Public Road _____ located

(Road Name)

in the North Line of Section 32, 33, 34, Township 5N, Range 35E
(1/4 Section)

E.W.M. with a Underground electric line _____

(Water Line, Gas Line, Electric Line, Telephone Line, etc.)

the location of which is more particularly described by the attached sketch (attach copy of assessor's map, available at Road Department, with installation location shown and a plan of the proposed installation showing depths, trench widths, distances from existing edges of traveled roadway, etc.). I (We) agree to defend, indemnify and hold harmless Umatilla County and its officials and employees from all claims, liability and causes of action that arise from or relate in any way to my (our) installation of utilities on the county and public roads.

Signature of Permittee

PERMITTEE AGREES TO THE FOLLOWING TERMS AND CONDITIONS:

SPECIFICATIONS

A notice of at least 10 days from request to issuance of permit will be required in order for the Public Works Department to inspect and approve the proposed project. If right-of-way location needs to be determined, a minimum of 14 days will be required.

If the proposed project is a complete installation and not just a crossing, two sets of plans will be submitted along with the permit application to be used by the Public Works Director or his/her representative for permit approval.

Upon granting of this permit, the applicant hereby agrees to install necessary installations in the following manner:

1. Road Crossing

Unless Written permission is first obtained from the Public Works Director to open cut, pipeline or conduit which crosses under the surfaced portion of the road shall either be tunneled, jacked, driven, or placed in a hole bored under the surface for that purpose with the following provisions:

- a. All installations shall be a minimum of 4 feet from the surface of the road to the top of the installation or a minimum of 3 feet from the bottom of the roadside ditch, if present, to the top of the installation, whichever is greater.**
- b. If the tunneling method is used, it shall be by an approved method which supports the surrounding materials so as to prevent caving or settlement.**
- c. If installing a pipe or conduit on a gravel road, the backfilling of the trench must be accomplished immediately after the facility authorized by the permit has been placed therein. The backfill must be compacted to at least 90% of the maximum density of the material used for backfilling to a point no nearer than 2 feet below the traveled road surface. The remaining 2-foot depth shall be backfilled with 5/8"-0, 3/4"-0, 1"-0, or 1-1/2"-0 crushed aggregate base or other approved backfill material and compacted in layers not to exceed 6" in depth to at least 95% of the maximum density of the backfill material used.**
- d. If installing a pipe or conduit on a paved road, the same backfill procedures used on a gravel road shall be used, except that the top 3" of the trench shall be filled with O.D.O.T. Class "C" Asphalt Concrete compacted to 95% of maximum density.**

Other backfill methods must be approved by the Public Works Director prior to construction.

2. Pipelines

- a. The minimum distance from the top of the pipe to the traveled road surface or ground elevation if not in the roadway itself shall be 48 inches, or a minimum of 36 inches below the bottom of the road ditch, whichever distance is greater, and these required distances may be increased by the Public Works Director or his representative if warranted by conditions such as possible increases in ditch depths from scouring or road maintenance, clearance of existing drainage structures or other utilities, code requirements, future road re-construction plans, etc. All pipelines shall be placed under drainage structures or under drainage ways, unless otherwise authorized in Special Provisions of this form. Pipelines may be attached to bridges if authorized by the Public Works Director at locations described in the Special Provisions.**
- b. Where a buried crossing is sought, to expedite insertion, removal, or replacement of carrier pipes, or protect carrier pipes from external loads or shock, and to carry leaking fluids or gases from the roadway, it is required to place pressure pipeline crossings of County and Public roads in conduit or casing pipe. Exceptions may be made for coated and/or cathodic protected steel pipe placed by the trenching method, ductile iron pipe, and other durable type pipe having a long term life expectancy, leak proof joints, and the capability of withstanding the external loads applied to the pipe through vehicular use of the roadways. Coated pipe placed by the boring or jacking method should be placed in a casing pipe unless the coating is of a type resistant to abrasion.**

3. Installations Adjacent to Roadway

- a. All installations shall be buried at a minimum depth of 4 feet from the existing ground elevation to the top of the installation and shall be outside of the traveled surface of the roadway.**
- b. If said installation is installed in the shoulder of the road, backfill will be suitable to the Public Works Director or his/her representative. Backfill will be compacted to at least 90% of the maximum density of the material used to a point 1 foot from the elevation of the traveled surface of the road. The remaining 1 foot shall be backfilled with 5/8"-0, 3/4"-0, 1"-0, or 1-1/2"-0 crushed aggregate base and compacted in lifts not to exceed 6" in depth to at least 95% of the maximum density of the aggregate base. All drainage ditches disturbed by the installation shall be re-shaped and returned to working condition.**

4. Traffic Control

Applicant must maintain and protect the movement and safety of traffic at all times.

- a. In trenching across the County or Public road, no more than ½ of the traveled way is to be opened at one time unless provisions have been made for a detour route, approved by the Public Works Director or his/her representative. Closure of intersecting streets, road approaches, or other access points will not be permitted without providing alternate routes around or through the installation.**
- b. In all cases, signing and flagging will meet the requirements of the latest Manual on Uniform Traffic Control Devices (MUTCD) for the particular situation and will be at the sole expense of and the responsibility of the Permittee.**

5. Insurance

The Permittee must carry all necessary liability insurance to protect the public at all times and may be required to show proof of such before issuance of the permit.

6. Repairs

All roadbed surfaces and ditches disturbed by utility installations, adjustments, or repairs covered by this permit will be repaired or replaced within one week of the installation unless other arrangements have been made as shown on the Special Provisions on this form.

All roadbed surfaces disturbed by utility installations, adjustments, or repairs covered by this permit which result in hazards to the traveling public shall be repaired or replaced within 24 hours of delivery of a written notice to the Permittee or adequately signed and/or barricaded, as per MUTCD Standards, to warn the public a hazard exists.

Any repair or replacement not accomplished by the Permittee under the above, within the specified time will be done by the County with no prior notice to the Permittee and at the expense of the Permittee. The County will also make any immediate repairs, alterations, or additions to any barricading, signing, or warning for a hazardous area when such barricading, signing, or warning is found to be inadequate, inappropriate, or

ineffective without prior notice to the Permittee and at the expense of the Permittee.

For a period of one year following the patching of any paved surface, the Permittee shall be responsible for the condition of said pavement patches, and during that time shall, upon request of the Public Works Director, repair to the County's satisfaction any of the said patches which become settled, cracked, broken, or otherwise faulty.

The repair or maintenance of said installation shall be the responsibility of the applicant at all times. Any necessary repairs will be completed by the Permittee not more than 48 hours after notification by the Public Works Department.

7. Removal, Relocation, and Repair

This permit is issued pursuant to Oregon Revised statutes 374.305 to 374.325, a copy of which are attached to this form, which authorizes the Umatilla County Board of Commissioners to subsequently require the Permittee to remove, relocate, or repair the pole line, buried cable, pipeline, or other facility covered by this permit as needed or order the Department of Public Works to replace, repair, or maintain County Roads affected by the installation of these facilities at the sole cost of the Permittee, and by his/her signature on page 1 of this form, the permittee consents and agrees to such conditions.

Upon receiving written notice from the Board to remove, relocate, or repair the said facility the Permittee shall, within 30 days, make arrangements for the removal, relocation, or repair of same at his/her sole cost, in accordance with said written notice.

If the Permittee fails to commence installation of the pole line, buried cable, pipeline, or other facility covered by this permit within 60 days from the date the permit is issued, said permit shall be deemed null and void and all privileges thereunder forfeited, unless a written extension of time is obtained from the Public Works Director.

APPROVALS

Doug Hall
(Section Foreman or Assistant Public Works Director)

3-11-16
(Date)

Permission is hereby granted by the Umatilla County, pursuant to Oregon Revised Statutes 375.305 to 374.325, to make the aforesaid installation in accordance with all specifications. The Permittee as indicated on Page 1 shall at all times be responsible and liable for any and all damages arising from or caused by this installation and this permit may be revoked at any time.

PERMISSION GRANTED THIS 11 **DAY OF** April, 2016.

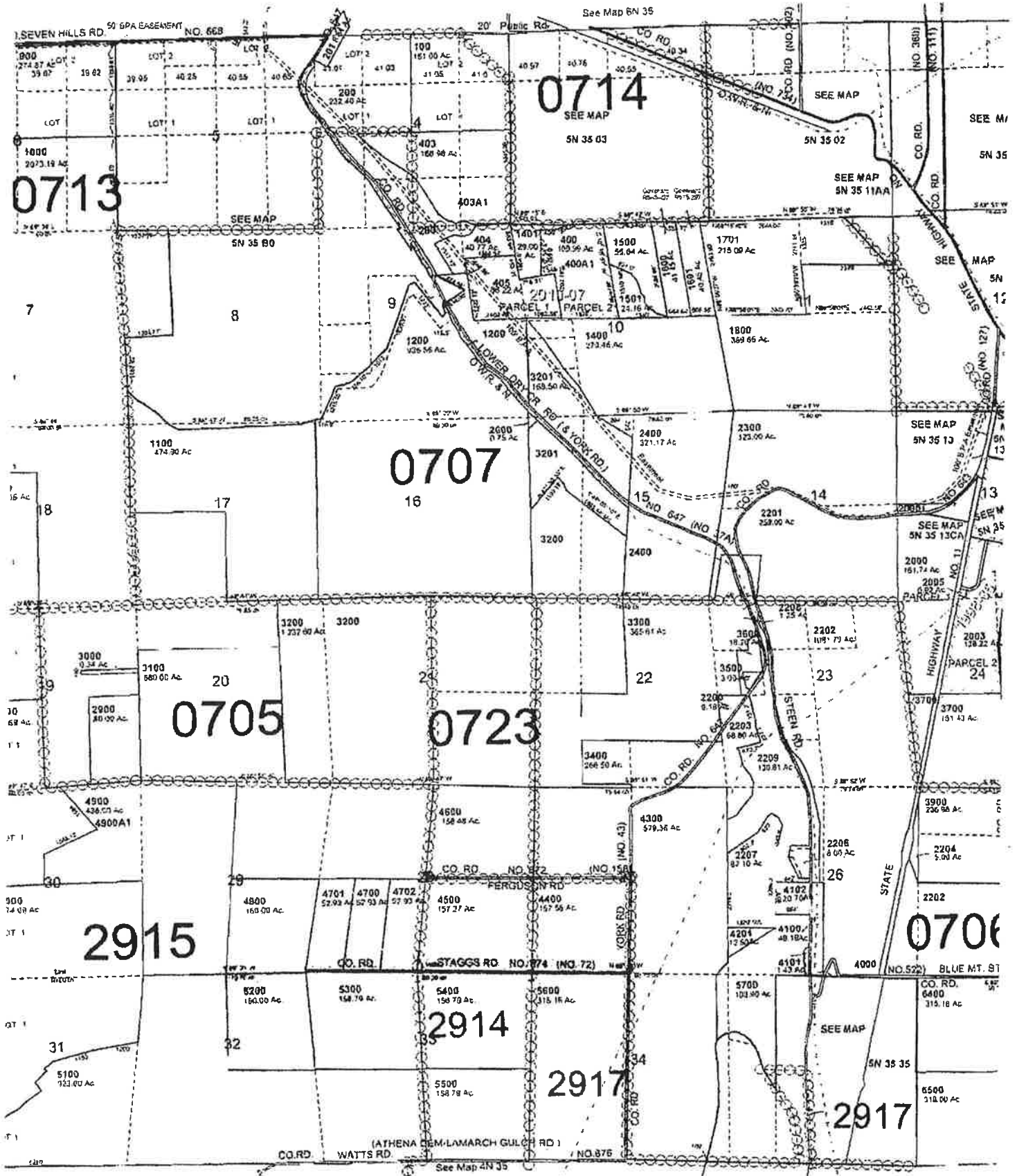
Tom Lellan
(Public Works Director)

4/11/16
(Date)

Assessment & Taxation
prepared for is it suitable
for purposes.

T5N R35E WM UMATILLA COUNTY

SCALE 1"



RECEIVED
4-4-10

Long

DATE PERMIT FORM ISSUED: _____

ISSUED BY: _____

FEE: 50⁰⁰
CHK # 2695

UMATILLA COUNTY DEPARTMENT OF PUBLIC WORKS
3920 WESTGATE
PENDLETON, OREGON 97801

PERMIT APPLICATION FORM
FOR
INSTALLATION OF UTILITIES ON COUNTY AND PUBLIC ROADS

I (We) Chopin Wind, LLC
(Please Print or Type Names)
4365 Executive Drive Suite 1470, San Diego, CA 92121 858-450-6800
(Address) (Telephone Number)

hereby respectfully request permission to access Umatilla County Road

No. 647 York Rd.
667
(Road Name)

or Public Road _____ located
(Road Name)
in the N-S Centerline of Section 34, 3, Township 5N, Range 35E
4N 35E
(1/4 Section)

E.W.M. with a Underground electric line
(Water Line, Gas Line, Electric Line, Telephone Line, etc.)

the location of which is more particularly described by the attached sketch (attach copy of assessor's map, available at Road Department, with installation location shown and a plan of the proposed installation showing depths, trench widths, distances from existing edges of traveled roadway, etc.). I (We) agree to defend, indemnify and hold harmless Umatilla County and its officials and employees from all claims, liability and causes of action that arise from or relate in any way to my (our) installation of utilities on the county and public roads.

[Signature]
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If the Permittee fails to commence installation of the pole line, buried cable, pipeline, or other facility covered by this permit within 60 days from the date the permit is issued, said permit shall be deemed null and void and all privileges thereunder forfeited, unless a written extension of time is obtained from the Public Works Director.

SPECIAL PROVISIONS

Lined area for text entry, consisting of approximately 30 horizontal lines.

APPROVALS

Ray Hall
(Section Foreman or Assistant Public Works Director)

4/11/16
(Date)

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PERMISSION GRANTED THIS 41 **DAY OF** APRIL, 2016.

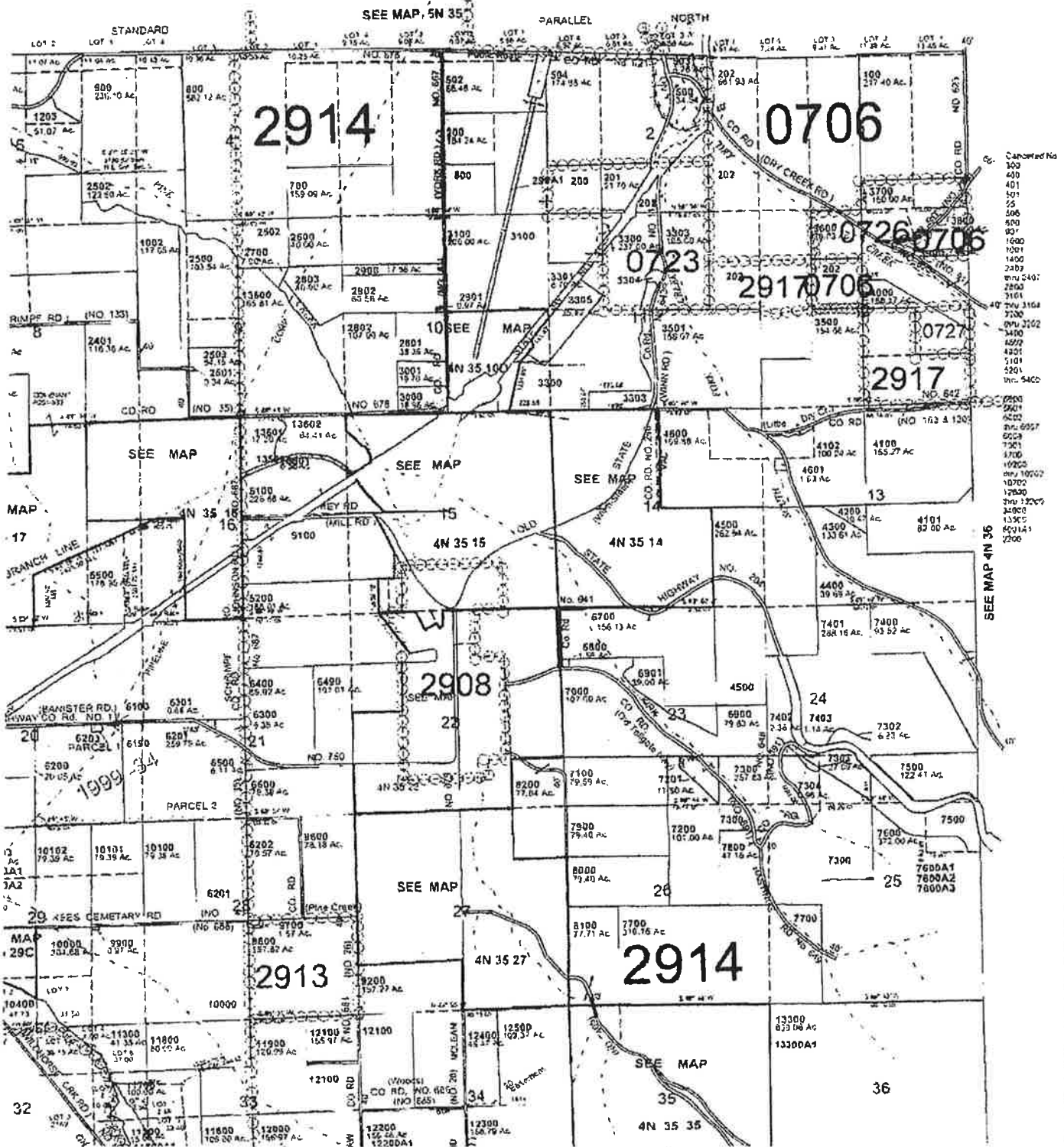
Tom Lellan
(Public Works Director)

4/11/16
(Date)

T4N R35E WM
UMATILLA COUNTY

SCALE 1"-2000'

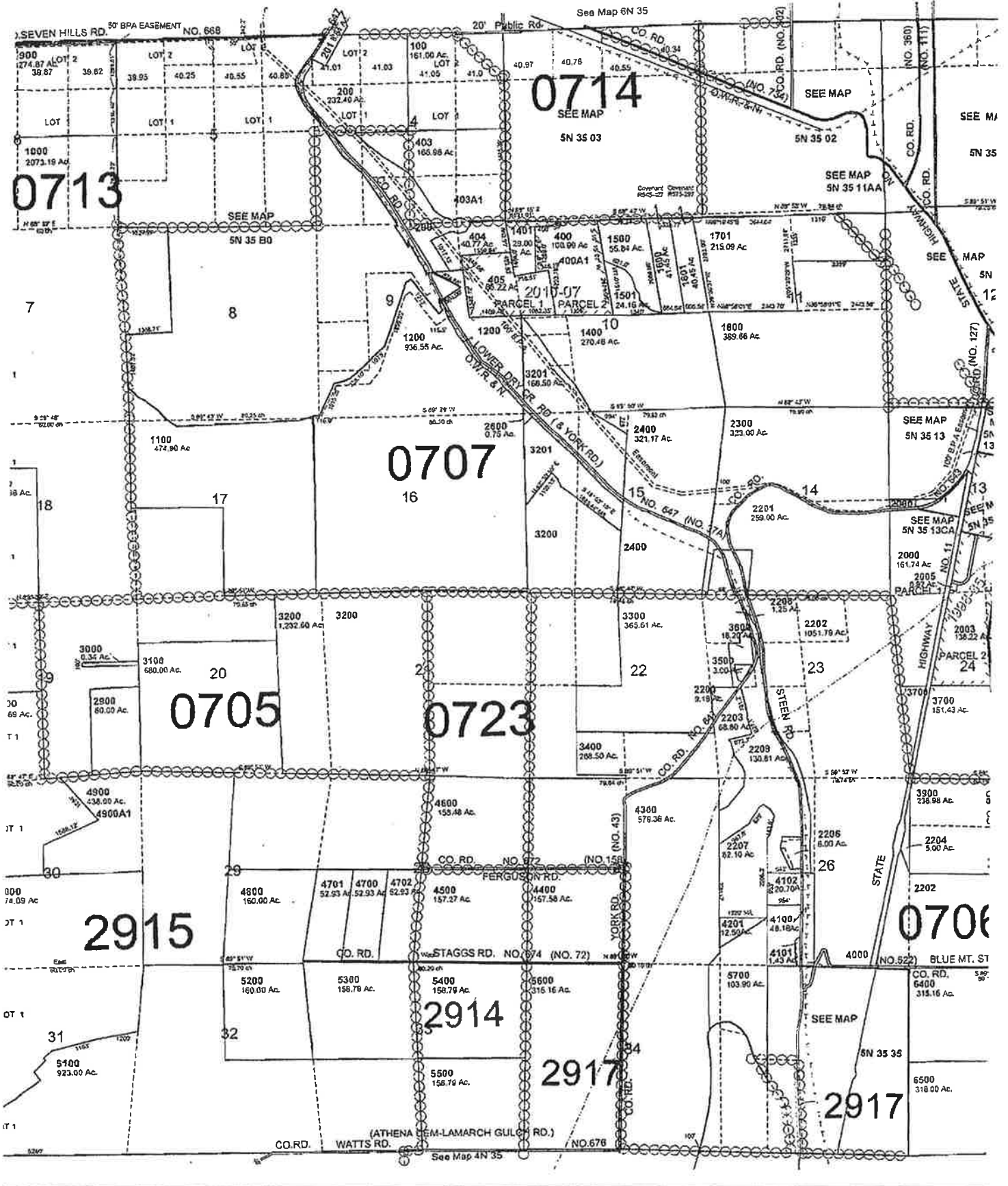
4N 35
AERIAL PHOTO NO. NZ-5P-61-65
95-99
138-142



essment & Taxation
pared nor is it suitable
ing purposes.

T5N R35E WM UMATILLA COUNTY

SCALE 1"



RECEIVED
4/4/11

Doug

DATE PERMIT FORM ISSUED: _____

ISSUED BY: _____

FEE: 50⁰⁰
CK# 2692

UMATILLA COUNTY DEPARTMENT OF PUBLIC WORKS
3920 WESTGATE
PENDLETON, OREGON 97801

PERMIT APPLICATION FORM
FOR
INSTALLATION OF UTILITIES ON COUNTY AND PUBLIC ROADS

I (We) Chopin Wind, LLC
(Please Print or Type Names)

4365 Executive Drive Suite 1470, San Diego, CA 92121 858-450-6800
(Address) (Telephone Number)

hereby respectfully request permission to access Umatilla County Road
No. 15⁶²⁷, Old Road 15 (Williamson Rd)
(Road Name)

or Public Road _____ located
(Road Name)

in the N-S Centerline of Section 15, Township 4N, Range 35E
(1/4 Section)

E.W.M. with a Underground electric line
(Water Line, Gas Line, Electric Line, Telephone Line, etc.)

the location of which is more particularly described by the attached sketch (attach copy of assessor's map, available at Road Department, with installation location shown and a plan of the proposed installation showing depths, trench widths, distances from existing edges of traveled roadway, etc.). I (We) agree to defend, indemnify and hold harmless Umatilla County and its officials and employees from all claims, liability and causes of action that arise from or relate in any way to my (our) installation of utilities on the county and public roads.

[Signature]
Signature of Permittee

PERMITTEE AGREES TO THE FOLLOWING TERMS AND CONDITIONS:

SPECIFICATIONS

A notice of at least 10 days from request to issuance of permit will be required in order for the Public Works Department to inspect and approve the proposed project. If right-of-way location needs to be determined, a minimum of 14 days will be required.

If the proposed project is a complete installation and not just a crossing, two sets of plans will be submitted along with the permit application to be used by the Public Works Director or his/her representative for permit approval.

Upon granting of this permit, the applicant hereby agrees to install necessary installations in the following manner:

1. Road Crossing

Unless Written permission is first obtained from the Public Works Director to open cut, pipeline or conduit which crosses under the surfaced portion of the road shall either be tunneled, jacked, driven, or placed in a hole bored under the surface for that purpose with the following provisions:

- a. All installations shall be a minimum of 4 feet from the surface of the road to the top of the installation or a minimum of 3 feet from the bottom of the roadside ditch, if present, to the top of the installation, whichever is greater.**
- b. If the tunnelling method is used, it shall be by an approved method which supports the surrounding materials so as to prevent caving or settlement.**
- c. If installing a pipe or conduit on a gravel road, the backfilling of the trench must be accomplished immediately after the facility authorized by the permit has been placed therein. The backfill must be compacted to at least 90% of the maximum density of the material used for backfilling to a point no nearer than 2 feet below the traveled road surface. The remaining 2-foot depth shall be backfilled with 5/8"-0, 3/4"-0, 1"-0, or 1-1/2"-0 crushed aggregate base or other approved backfill material and compacted in layers not to exceed 6" in depth to at least 95% of the maximum density of the backfill material used.**
- d. If installing a pipe or conduit on a paved road, the same backfill procedures used on a gravel road shall be used, except that the top 3" of the trench shall be filled with O.D.O.T. Class "C" Asphalt Concrete compacted to 95% of maximum density.**

Other backfill methods must be approved by the Public Works Director prior to construction.

2. Pipelines

- a. The minimum distance from the top of the pipe to the traveled road surface or ground elevation if not in the roadway itself shall be 48 inches, or a minimum of 36 inches below the bottom of the road ditch, whichever distance is greater, and these required distances may be increased by the Public Works Director or his representative if warranted by conditions such as possible increases in ditch depths from scouring or road maintenance, clearance of existing drainage structures or other utilities, code requirements, future road re-construction plans, etc. All pipelines shall be placed under drainage structures or under drainage ways, unless otherwise authorized in Special Provisions of this form. Pipelines may be attached to bridges if authorized by the Public Works Director at locations described in the Special Provisions.**
- b. Where a buried crossing is sought, to expedite insertion, removal, or replacement of carrier pipes, or protect carrier pipes from external loads or shock, and to carry leaking fluids or gases from the roadway, it is required to place pressure pipeline crossings of County and Public roads in conduit or casing pipe. Exceptions may be made for coated and/or cathodic protected steel pipe placed by the trenching method, ductile iron pipe, and other durable type pipe having a long term life expectancy, leak proof joints, and the capability of withstanding the external loads applied to the pipe through vehicular use of the roadways. Coated pipe placed by the boring or jacking method should be placed in a casing pipe unless the coating is of a type resistant to abrasion.**

3. Installations Adjacent to Roadway

- a. All installations shall be buried at a minimum depth of 4 feet from the existing ground elevation to the top of the installation and shall be outside of the traveled surface of the roadway.**
- b. If said installation is installed in the shoulder of the road, backfill will be suitable to the Public Works Director or his/her representative. Backfill will be compacted to at least 90% of the maximum density of the material used to a point 1 foot from the elevation of the traveled surface of the road. The remaining 1 foot shall be backfilled with 5/8"-0, 3/4"-0, 1"-0, or 1-1/2"-0 crushed aggregate base and compacted in lifts not to exceed 6" in depth to at least 95% of the maximum density of the aggregate base. All drainage ditches disturbed by the installation shall be re-shaped and returned to working condition.**

4. Traffic Control

Applicant must maintain and protect the movement and safety of traffic at all times.

- a. In trenching across the County or Public road, no more than ½ of the traveled way is to be opened at one time unless provisions have been made for a detour route, approved by the Public Works Director or his/her representative. Closure of intersecting streets, road approaches, or other access points will not be permitted without providing alternate routes around or through the installation.**
- b. In all cases, signing and flagging will meet the requirements of the latest Manual on Uniform Traffic Control Devices (MUTCD) for the particular situation and will be at the sole expense of and the responsibility of the Permittee.**

5. Insurance

The Permittee must carry all necessary liability insurance to protect the public at all times and may be required to show proof of such before issuance of the permit.

6. Repairs

All roadbed surfaces and ditches disturbed by utility installations, adjustments, or repairs covered by this permit will be repaired or replaced within one week of the installation unless other arrangements have been made as shown on the Special Provisions on this form.

All roadbed surfaces disturbed by utility installations, adjustments, or repairs covered by this permit which result in hazards to the traveling public shall be repaired or replaced within 24 hours of delivery of a written notice to the Permittee or adequately signed and/or barricaded, as per MUTCD Standards, to warn the public a hazard exists.

Any repair or replacement not accomplished by the Permittee under the above, within the specified time will be done by the County with no prior notice to the Permittee and at the expense of the Permittee. The County will also make any immediate repairs, alterations, or additions to any barricading, signing, or warning for a hazardous area when such barricading, signing, or warning is found to be inadequate, inappropriate, or

ineffective without prior notice to the Permittee and at the expense of the Permittee.

For a period of one year following the patching of any paved surface, the Permittee shall be responsible for the condition of said pavement patches, and during that time shall, upon request of the Public Works Director, repair to the County's satisfaction any of the said patches which become settled, cracked, broken, or otherwise faulty.

The repair or maintenance of said installation shall be the responsibility of the applicant at all times. Any necessary repairs will be completed by the Permittee not more than 48 hours after notification by the Public Works Department.

7. Removal, Relocation, and Repair

This permit is issued pursuant to Oregon Revised statutes 374.305 to 374.325, a copy of which are attached to this form, which authorizes the Umatilla County Board of Commissioners to subsequently require the Permittee to remove, relocate, or repair the pole line, buried cable, pipeline, or other facility covered by this permit as needed or order the Department of Public Works to replace, repair, or maintain County Roads affected by the installation of these facilities at the sole cost of the Permittee, and by his/her signature on page 1 of this form, the permittee consents and agrees to such conditions.

Upon receiving written notice from the Board to remove, relocate, or repair the said facility the Permittee shall, within 30 days, make arrangements for the removal, relocation, or repair of same at his/her sole cost, in accordance with said written notice.

If the Permittee fails to commence installation of the pole line, buried cable, pipeline, or other facility covered by this permit within 60 days from the date the permit is issued, said permit shall be deemed null and void and all privileges thereunder forfeited, unless a written extension of time is obtained from the Public Works Director.

APPROVALS

Doug Hall
(Section Foreman or Assistant Public Works Director)

4/12/16
(Date)

Permission is hereby granted by the Umatilla County, pursuant to Oregon Revised Statutes 375.305 to 374.325, to make the aforesaid installation in accordance with all specifications. The Permittee as indicated on Page 1 shall at all times be responsible and liable for any and all damages arising from or caused by this installation and this permit may be revoked at any time.

PERMISSION GRANTED THIS 11 DAY OF April, 2016.

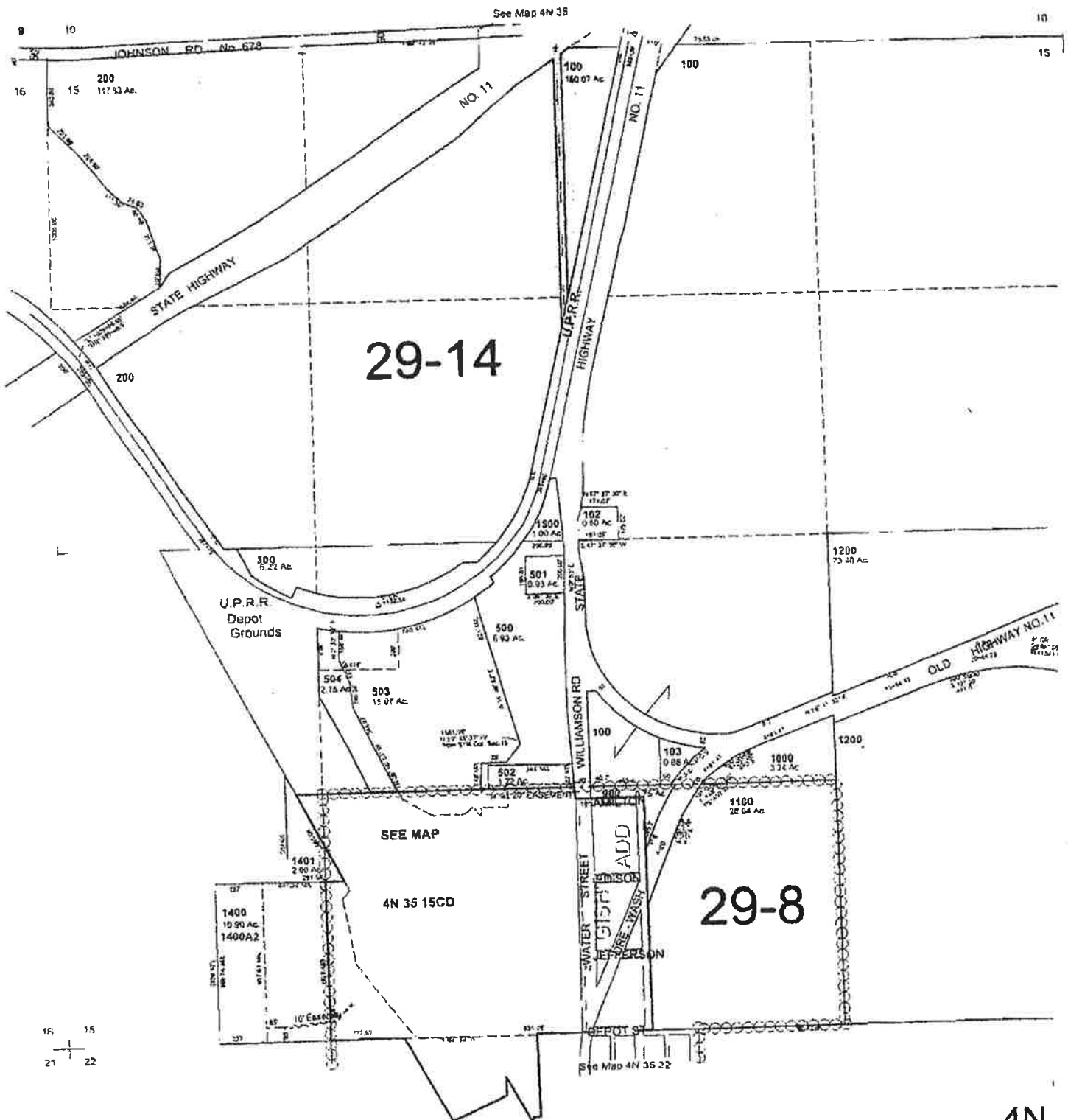
Tom Bellon
(Public Works Director)

4/14/16
(Date)

SEC 15 T4N R35E WM
UMATILLA COUNTY
SCALE 1"=400'

4N

AERIAL PHO



4N

Doug

RECEIVED
4/4/16

DATE PERMIT FORM ISSUED: _____

ISSUED BY: _____

FEE: 5000
ck # 2694

UMATILLA COUNTY DEPARTMENT OF PUBLIC WORKS
3920 WESTGATE
PENDLETON, OREGON 97601

PERMIT APPLICATION FORM
FOR
INSTALLATION OF UTILITIES ON COUNTY AND PUBLIC ROADS

I (We) Chopin Wind, LLC
(Please Print or Type Names)

4365 Executive Drive Suite 1470, San Diego, CA 92121 858-450-6800
(Address) (Telephone Number)

hereby respectfully request permission to access Umatilla County Road
No. 676, Watts Rd.
(Road Name)

or Public Road _____ located
(Road Name)
in the North Line of Section 3, Township 4N, Range 35E
(1/4 Section)

E.W.M. with a Underground electric line
(Water Line, Gas Line, Electric Line, Telephone Line, etc.)

the location of which is more particularly described by the attached sketch (attach copy of assessor's map, available at Road Department, with installation location shown and a plan of the proposed installation showing depths, trench widths, distances from existing edges of traveled roadway, etc.). I (We) agree to defend, indemnify and hold harmless Umatilla County and its officials and employees from all claims, liability and causes of action that arise from or relate in any way to my (our) installation of utilities on the county and public roads.

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- b. If the tunneling method is used, it shall be by an approved method which supports the surrounding materials so as to prevent caving or settlement.**
- c. If installing a pipe or conduit on a gravel road, the backfilling of the trench must be accomplished immediately after the facility authorized by the permit has been placed therein. The backfill must be compacted to at least 90% of the maximum density of the material used for backfilling to a point no nearer than 2 feet below the traveled road surface. The remaining 2-foot depth shall be backfilled with 5/8"-0, 3/4"-0, 1"-0, or 1-1/2"-0 crushed aggregate base or other approved backfill material and compacted in layers not to exceed 6" in depth to at least 95% of the maximum density of the backfill material used.**
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If the Permittee fails to commence installation of the pole line, buried cable, pipeline, or other facility covered by this permit within 60 days from the date the permit is issued, said permit shall be deemed null and void and all privileges thereunder forfeited, unless a written extension of time is obtained from the Public Works Director.

APPROVALS

Dag Hall
(Section Foreman or Assistant Public Works Director)

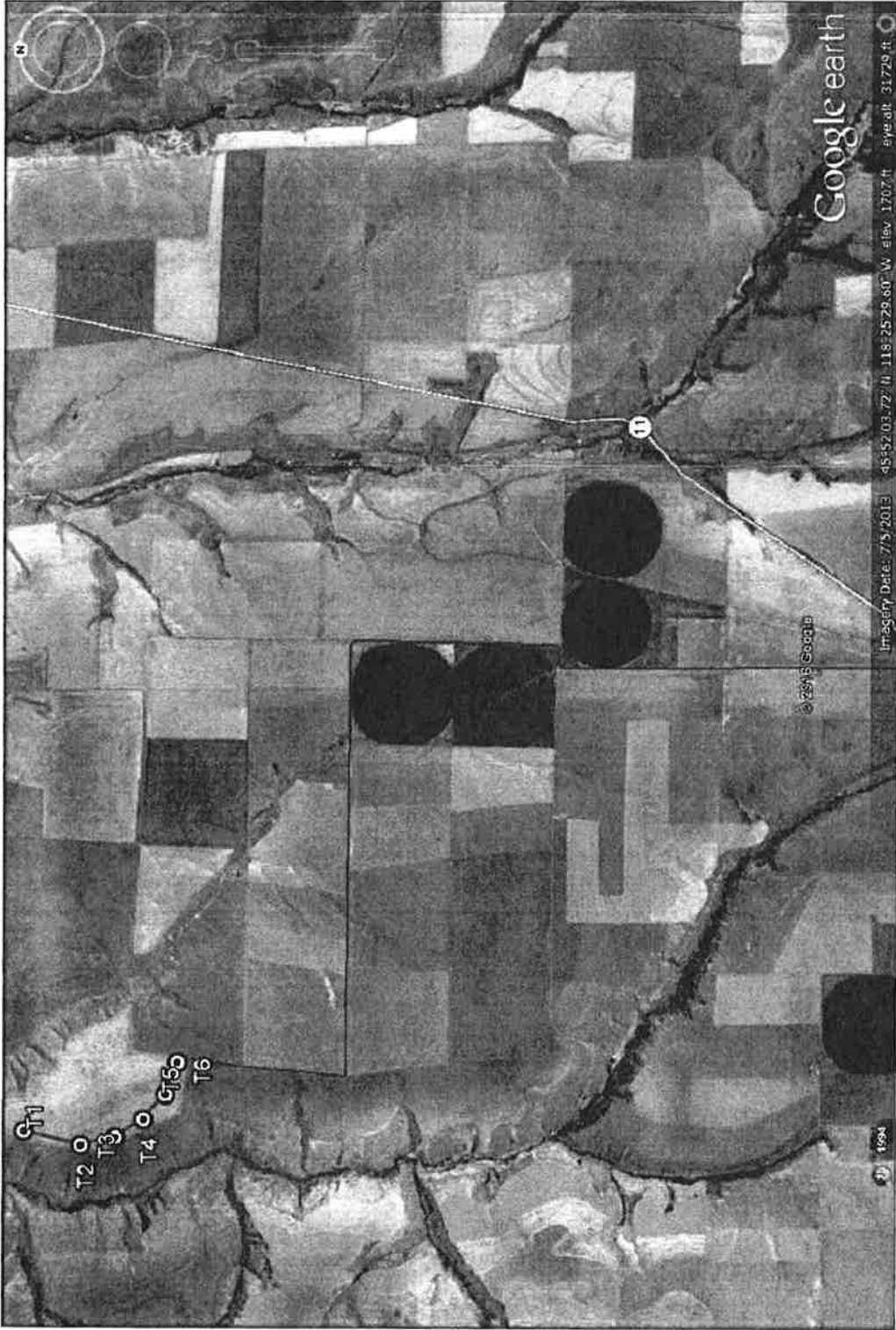
4-11-16
(Date)

Permission is hereby granted by the Umatilla County, pursuant to Oregon Revised Statutes 375.305 to 374.325, to make the aforesaid installation in accordance with all specifications. The Permittee as indicated on Page 1 shall at all times be responsible and liable for any and all damages arising from or caused by this installation and this permit may be revoked at any time.

PERMISSION GRANTED THIS 11 DAY OF April, 2016.

Tom Sellen
(Public Works Director)

4/11/16
(Date)



NOTES:

1. CABLE INSTALLATION IN ROAD RIGHT OF WAY PER ROUTE SHOWN.
2. INSTALL CABLES 42" - 48" DEEP BY MACHINE TRENCHING.
3. SPLICE AND JUNCTION BOX LOCATIONS TO BE DETERMINED.
4. ROAD OR RAILWAY CROSSINGS BY HORIZONTAL DIRECTIONAL DRILLING/BORING WITH HDPE CONDUIT.

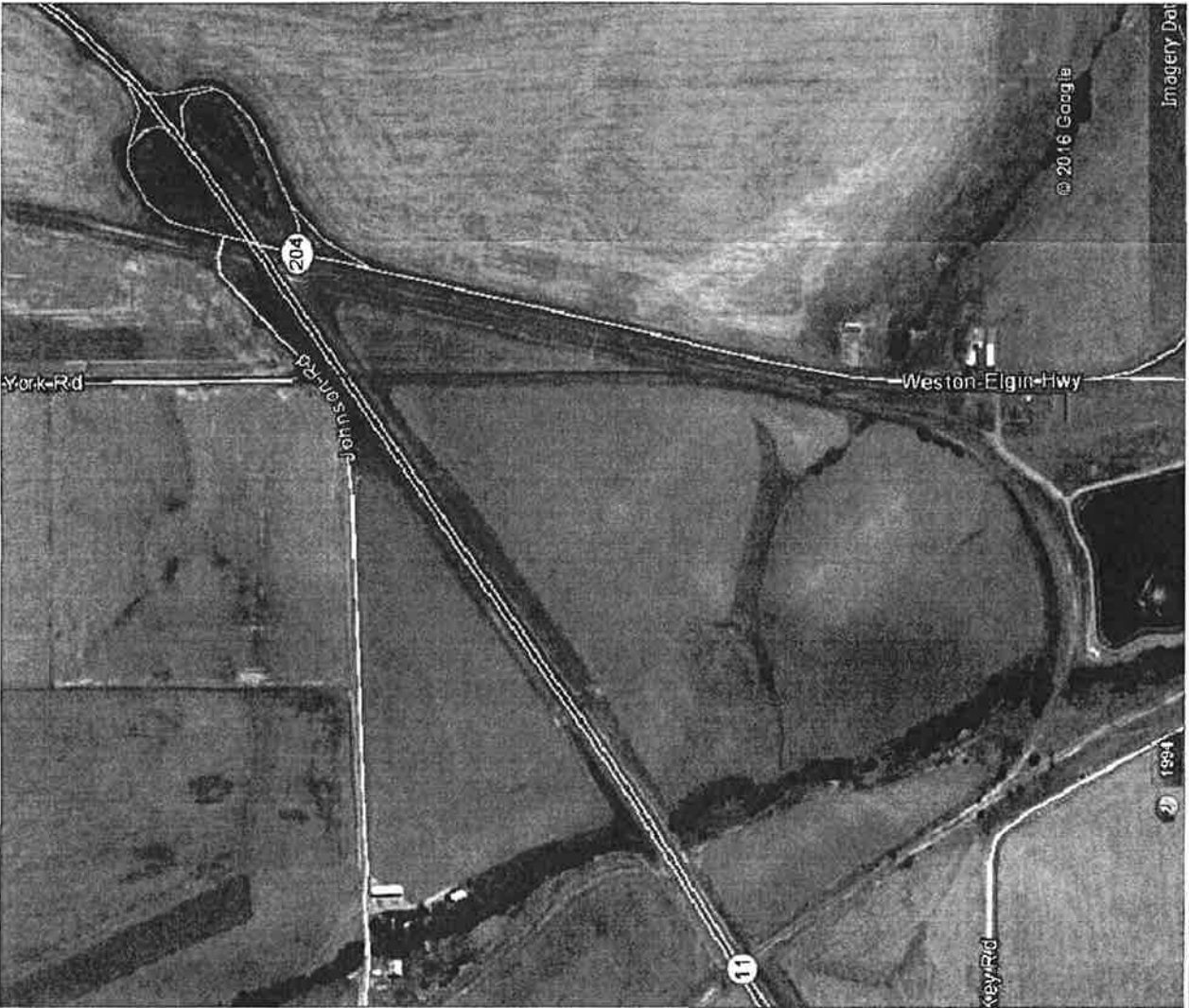
NO.	REV.	DATE	BY	CHKD.	DESCRIPTION

CEIG CONSULTING ENGINEERS GROUP 11000Y CORNER 5TH AND 14TH SPOKANE, ID 83402 PHONE: (208) 325-1100 FAX: (208) 325-1101 WWW: WWW.CEIG.COM		PROJECT: CHO-PP-02RA DWG. NO.: DATE: 01/26/15 SCALE: NONE CHECKED: JH DATE:	
CHOPIN WIND FARM SUBSTATION COLLECTION SYSTEM AND TRANSMISSION LINE NORTH SECTION AERIAL VIEW		PROJECT: CHO-PP-02RA DWG. NO.: DATE: 01/26/15	



Google earth
 Imagery Date: 7/5/2013 - 45°52'03.72" N, 118°25'29.60" W, elev. 1707.7 ft, 31729 ft. 0

1994



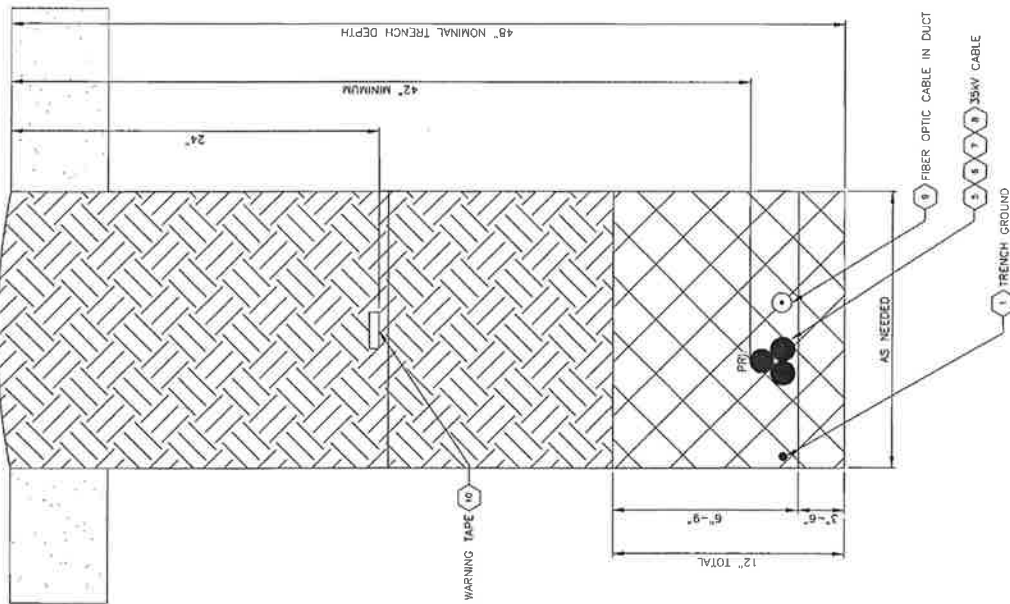
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4. ROAD OR RAILWAY CROSSINGS BY HORIZONTAL DIRECTIONAL DRILLING/BORING WITH HDPE CONDUIT.

PROJECT NO.	DATE	SCALE	PROJECT CODE
11	01/28/15	NONE	CHO-PP-03RA
CEIG CONSULTING ENGINEERS GROUP 1100 W. WASHINGTON AVE. SUITE 200 CHICAGO, IL 60606			
CHOPIN WIND FARM SUBSTATION COLLECTION SYSTEM AND TRANSMISSION LINE SOUTH SECTION AERIAL VIEW			
CHECKED BY	DATE	SCALE	PROJECT CODE
DRWN BY	DATE	DWG. NO.	



TRENCH FOR FIBER AND CABLE



CABLE PLACEMENT IN TRENCH

TREFOIL (ALL SIZES)
SECURE CABLE EVERY 100' OR
DEMONSTRATE CONSISTENT PLACEMENT.

UNDISTURBED EARTH

COMPACTED BACKFILL
UNLESS OTHERWISE SPECIFIED
SEE NOTE 3

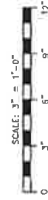
CLEAN SOIL - NO ROCKS > 1"

ITEM NUMBER ON DRAWING TR-08



NOTES:

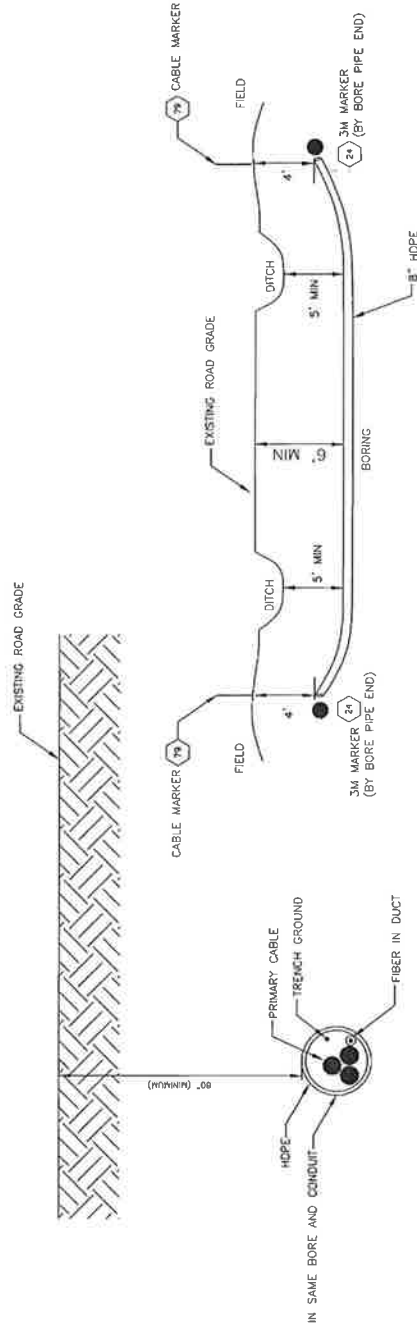
- EXACT TRENCH WIDTH DETERMINED BY EQUIPMENT REQUIRED FOR TERRAIN.
- DEPTHS SPECIFIED ARE TO EXISTING GRADE. MINIMUM DEPTHS TO BE FOLLOWED AT ALL TIMES. DEVIATION FROM NOMINAL DEPTHS AT THE DISCRETION OF THE DESIGN ENGINEER AND OWNER BASED ON FIELD CONDITION.
- BACK FILLING IS PART OF ALL TRENCHING UNITS. BACK FILL WITH NATIVE FILL FROM TRENCH. HAND REMOVE LARGE ROCKS FROM TRENCH.
 - A. COMPACT FILL TO 85% FIELD TEST COMPACTION IN FIRST 1/4 WILE AT 2-3 LOCATIONS. IF COMPACTION METHOD PROVES ACCEPTABLE, NO FURTHER TESTS REQUIRED.
 - B. SELECT FILL REQUIRED IF BOTTOM OF TRENCH IS ROCK OR SHALE. BED CABLES ON 3" OF LOCAL SELECT FILL.
 - C. SELECT FILL REQUIRED, 8"-12" ABOVE CABLE PER DRAWINGS WHERE LOCAL SOIL HAS SIGNIFICANT ROCK > 1" AND DOES NOT APPEAR SUITABLE FOR BACKFILL. REFER TO UNANTICIPATED EXCAVATION PROCEDURE.
 - D. SCREENED FILL OR IMPORTED SAND NOT REQUIRED AT THIS SITE.
- WARNING TAPE AT 24" TO BE SPECIFIED ON ALL CIRCUITS. FURNISHED BY TRENCHING CONTRACTOR.
- MAINTAIN 15' MINIMUM SPACING BETWEEN PARALLEL CIRCUITS.
- USE HEAVY DUTY TIE WRAPS AS REQUIRED TO MAINTAIN TRIPLEXED BUNDLE CONFIGURATION. ENSURE THAT THE WRAPS ARE STRONG ENOUGH TO WITHSTAND BACKFILLING, TAPE AND TRENCH BOX ROLLERS ARE ALSO ACCEPTABLE.
- TYPE AND SIZE OF MEDIUM VOLTAGE CABLES TO BE INSTALLED BETWEEN TOWERS IS SPECIFIED IN THE MEDIUM VOLTAGE ONE LINE DIAGRAM.
- TYPE OF FIBER OPTIC CABLE TO BE INSTALLED BETWEEN TOWERS IS SPECIFIED IN THE FIBER OPTIC ONE LINE DIAGRAM. ANY EXTRA EXCAVATED MATERIAL AND SOIL REMOVED FROM THE TRENCH SHALL BE SPREAD ON SITE AT LOCATION SUITABLE TO LANDOWNER.
- THE LOCATION OF EACH INDIVIDUAL CIRCUIT (CENTER OF TRIPLEXED CABLE) SHALL BE RECORDED IN (WAS ENABLED) USING A SURVEYING ACCURACY OF +/-7 GPS WHILE THE TRENCH IS OPEN AND THE CABLE IS BEING PLACED.
- ALL SPLICE LOCATIONS, JUNCTION BOXES AND THE EXACT LOCATIONS OF WHERE THE CABLES ENTER AND EXIT THE FOUNDATIONS SHALL BE RECORDED BY GPS AND MARKED IN THE FIELD.
- ELECTRICAL CONTRACTOR TO TRENCH ACROSS ACCESS ROADS. STRIP ROAD GRAVEL. CUT GEOTECH FABRIC AND RESTORE/REPAIR PER CIVIL PLANS. COORDINATE WORK WITH GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL BURIED CABLE MARKERS AT:
 - BOTH SIDES OF ROAD CROSSINGS.
 - BOTH SIDES OF WETLAND CROSSINGS.
 - ENGINE CROSSINGS.
 - PROPERTY LINE CROSSINGS.



THIS LINE IS ONE INCH WHEN DRAWING IS FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY.



DATE	ISSUED	REVISED	DATE
CEIG CONSULTING ENGINEERS GROUP MINNESOTA			
CHOPIN WIND FARM COLLECTION SYSTEM TRENCHES FOR CABLE INSTALLATION			
CHECKED	SCALE AS SHOWN		
DATE	REV. NO.		
DRAWN	DATE		
	02/23/18		
CHO-TR-01RA			



TYPICAL PROFILE

BORING WITH CONDUIT
 500 KC/MIL OR LARGER = 8" HDPE SDR 17
 4/0 OR SMALLER = 6" HDPE SDR 17

NOTES:

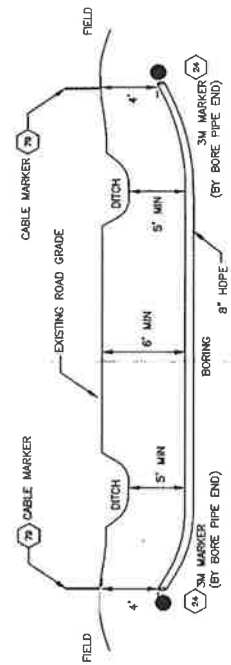
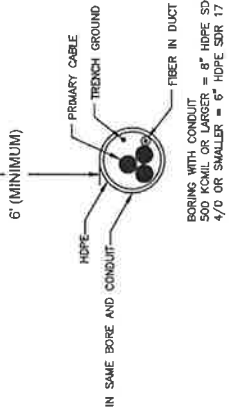
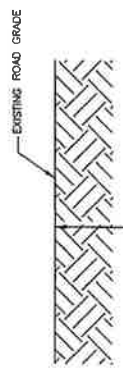
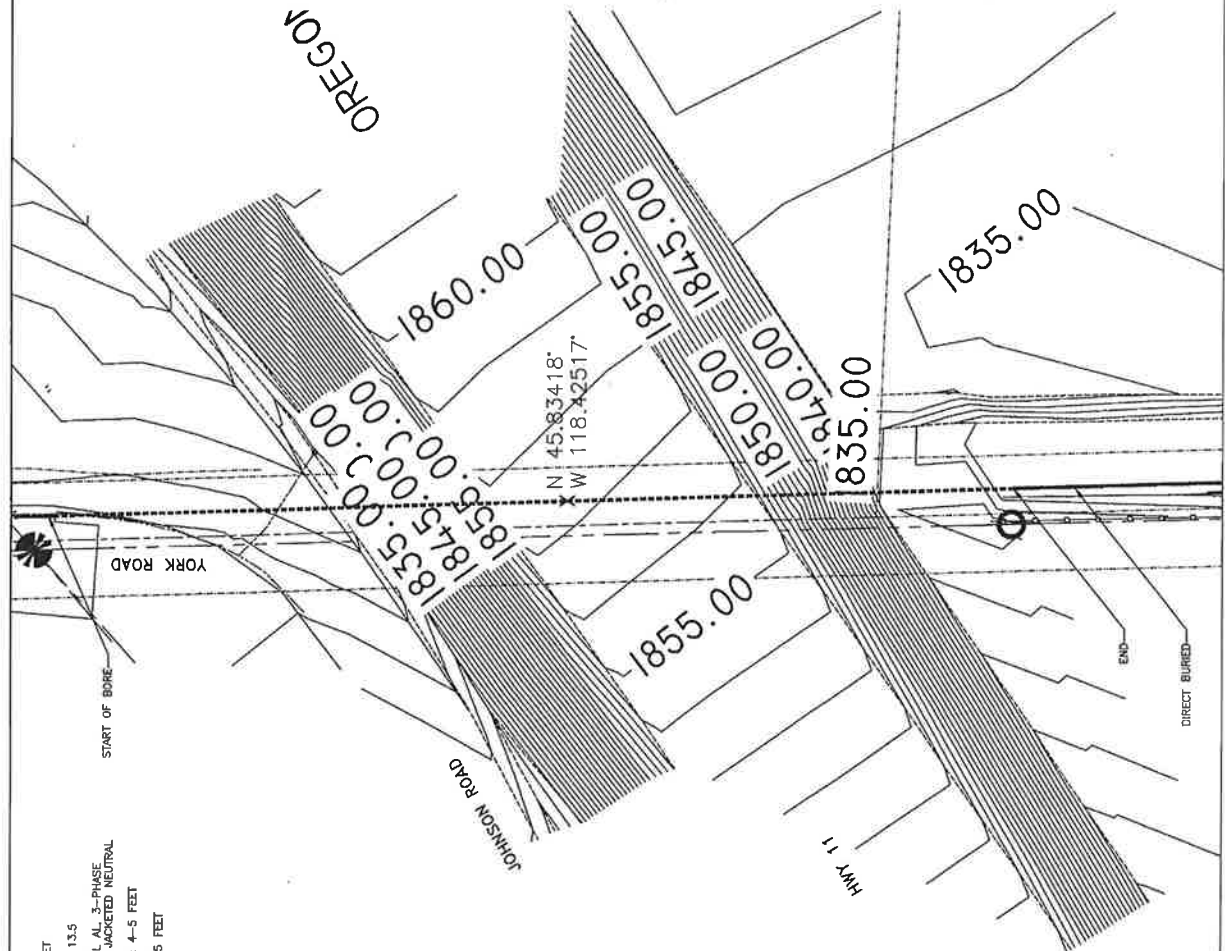
1. BURIAL DEPTH UNDER ROADS, RAILROADS AND BODIES OF WATER TO MEET REQUIREMENTS OF THE JURISDICTION. FURNISH AS BUILT LOCATIONS AND DRAWING, FOR AUTHORITY HAVING JURISDICTION, FOR EACH CROSSING.
2. MINIMUM DEPTH DETERMINED 5'-0" BELOW BOTTOM OF DITCH.
3. FIBER AND PRIMARY ARE PULLED IN THE SAME BORE HOLE UNLESS OTHERWISE INSTRUCTED.
4. MATERIAL QUANTITY (CONDUIT) DETERMINED IN FIELD, HDPE OR AS APPROVED BY OWNER.
5. BORE FROM OUTSIDE R.O.W. EDGE TO OUTSIDE R.O.W. EDGE UNLESS DIRECTED BY PERMIT TO ALLOW BORE PITS IN R.O.W.
6. SILT FENCING IF REQUIRED TO CONTAIN BORING FLUIDS.
7. RECORD GPS LOCATION OF START AND END OF BORING PIPE. MARK WITH 3M MARKER BALL. INSTALL BURIED CONDUIT MARKER AT R.O.W. EDGE, FENCE OR AS DIRECTED.
8. OBSERVE CABLE HANDLING REQUIREMENTS FOR PULLING CABLE IN BORES. (SEE SPECIFICATION AND/OR MANUFACTURER RECOMMENDATIONS).
9. REVIEW ROAD USE/CROSSING OR PERMIT AGREEMENTS PRIOR TO START OF WORK.

(xx) INDICATES ITEM # ON ELECTRICAL MATERIAL LIST, SEE DWG. TR-08



REV	DATE	BY	CHKD	DATE	APP'D
1	02/24/11	WJ	WJ		
CEIG CONSULTING ENGINEERS GROUP TRANSMISSION DIVISION					
CHOPIN WIND FARM COLLECTION SYSTEM ROAD BORING DETAIL					
DESIGNED	SCALE	DATE	BY	NO.	DATE
	1" = 10'	02/24/11	WJ	02/24/11	
DRWN	DATE	BY	NO.	DATE	
WJ	02/24/11	WJ	02/24/11		

BORING DISTANCE: 350 FEET
 BORE PIPE 8" HOPE SDR 13.5
 CIRCUIT: 34.5KV, 1000KOHM, AL, 3-PHASE
 345 MIL, TRXLPE, JACKETED NEUTRAL
 DEPTH AT START OF BORE: 4-5 FEET
 DEPTH AT HWY C/L: 20-25 FEET



TYPICAL PROFILE

- NOTES:
- BURIAL DEPTH UNDER ROADS, RAILROADS AND BODIES OF WATER TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FURNISH AS BUILT LOCATIONS AND DRAWING, FOR AUTHORITY HAVING JURISDICTION, FOR EACH CROSSING.
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 - RECORD GPS LOCATION OF START AND END OF BORING PIPE. MARK WITH 3M MARKER BALL. INSTALL BURIED CONDUIT MARKER AT R.O.W. EDGE, FENCE OR AS DIRECTED.
 - OBSERVE CABLE HANDLING REQUIREMENTS FOR PULLING CABLE IN BORES. (SEE SPECIFICATION AND/OR MANUFACTURER RECOMMENDATIONS).
 - REVIEW ROAD USE/CROSSING OR PERMIT AGREEMENTS PRIOR TO START OF WORK.

XX INDICATES ITEM # ON ELECTRICAL MATERIAL LIST. SEE DWG. TR-09

DATE	ISSUED	REVISED	DATE	BY

CEIG CONSULTING ENGINEERS GROUP
 15000 N. W. 22ND AVE., SUITE 200
 BOCA RATON, FLORIDA 33433
 PHONE: (561) 991-1100
 FAX: (561) 991-1101
 WWW: WWW.CEIG.COM

CHOPIN WIND FARM
 COLLECTION SYSTEM
 NORTH CROSSING

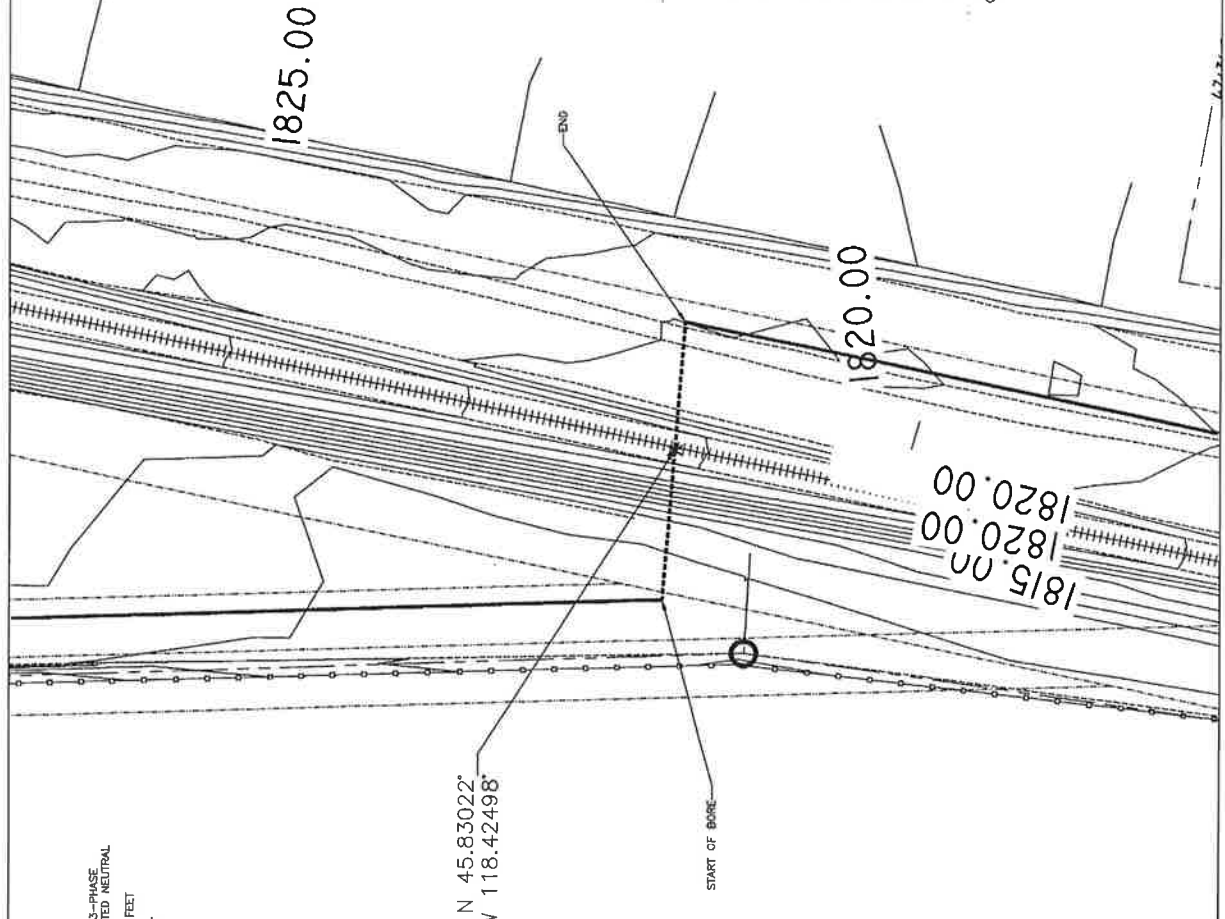
CHECKED	SCALE: AS SHOWN
DATE	PROJECT/ DRAWING
DRAWN	DATE
DATE	DWG. NO.

CHO-SK-02RA

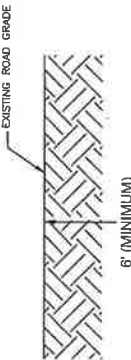
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THIS DRAWING IS ONE INCH HIGH
 DRAWING IS TO BE SCALED ACCORDINGLY
 ONE INCH SCALE ACCORDINGLY

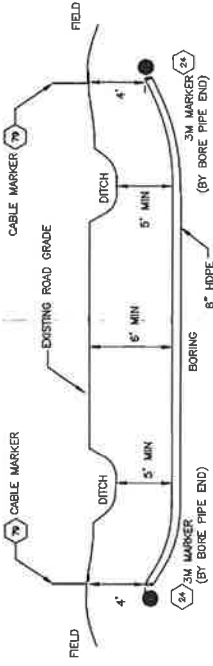
BORING DISTANCE: 100 FEET
 BORE PIPE: 8" HDPE SDR 13.5
 CIRCUIT: 34.5KV, 1000KCMIL AL 3-PHASE
 34.5 MIL THXLPE, JACKETED NEUTRAL
 DEPTH AT START OF BORE: 4-5 FEET
 DEPTH AT HWY C/L: 20-25 FEET



N 45.83022°
 W 118.42498°



IN SAME BORE AND CONDUIT—
 HDPE
 PRIMARY CABLE
 TRENCH GROUND
 FIBER IN DUCT
 BORING WITH CONDUIT
 500 KCMIL OR LARGER = 8" HDPE SDR 17
 4/0 OR SMALLER = 6" HDPE SDR 17



TYPICAL PROFILE

NOTES:

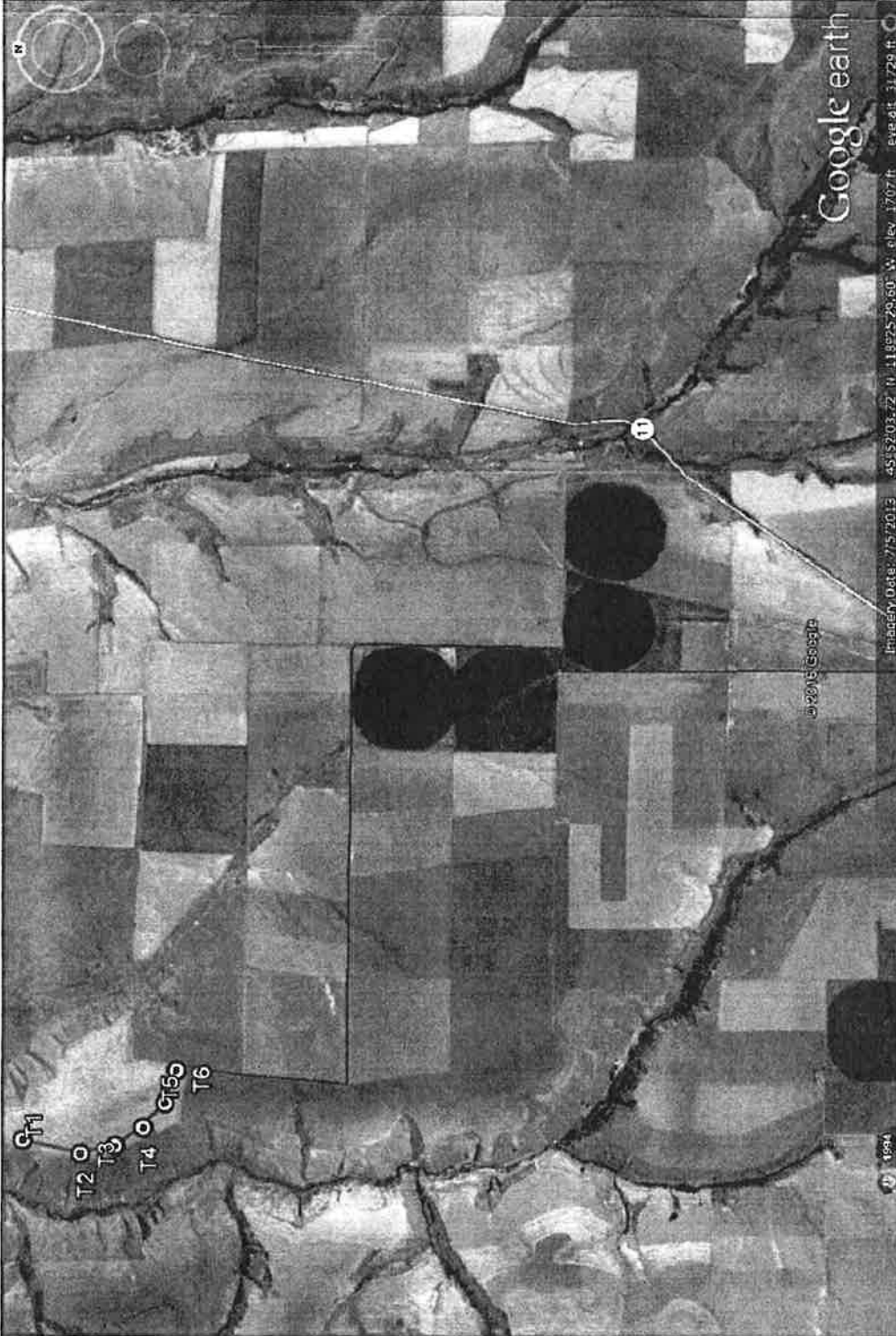
- BURIAL DEPTH UNDER ROADS, RAILROADS AND BODIES OF WATER TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, FURNISH AS BUILT LOCATIONS AND DRAWING, FOR AUTHORITY HAVING JURISDICTION, FOR EACH CROSSING.
- MINIMUM DEPTH DETERMINED 5'-0" BELOW BOTTOM OF DITCH.
- FIBER AND PRIMARY ARE PULLED IN THE SAME BORE HOLE UNLESS OTHERWISE INSTRUCTED.
- MATERIAL QUANTITY (CONDUIT) DETERMINED IN FIELD, HDPE OR AS APPROVED BY OWNER.
- BORE FROM OUTSIDE R.O.W. EDGE TO OUTSIDE R.O.W. EDGE UNLESS DIRECTED BY PERMIT TO ALLOW BORE FITS IN R.O.W.
- SILT FENCING IF REQUIRED TO CONTAIN BORING FLUIDS.
- RECORD GPS LOCATION OF START AND END OF BORING PIPE. MARK WITH 3M MARKER BALL. INSTALL BURIED CONDUIT MARKER AT R.O.W. EDGE, FENCE OR AS DIRECTED.
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- REVIEW ROAD USE/CROSSING OR PERMIT AGREEMENTS PRIOR TO START OF WORK.

(XX) INDICATES ITEM # ON ELECTRICAL MATERIAL LIST. SEE DWG. TR-08

SCALE: 1"=20'

THIS DRAWING IS THE PROPERTY OF CHIEG CONSULTING ENGINEERS GROUP. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION WITHOUT WRITTEN PERMISSION IS STRICTLY PROHIBITED.

CHIEG CONSULTING ENGINEERS GROUP 10000 W. 100th St., Suite 100 Overland Park, KS 66204 TEL: 913.241.1100 FAX: 913.241.1101 WWW.CHIEG-ENGINEERS.COM		PROJECT NO. DATE DRAWN DATE	SCALE: AS SHOWN PROJECT NO.: SHEET NO. DATE
PROJECT: CHORIN WIND FARM COLLECTION SYSTEM RAILROAD CROSSING		CHORIN-SK-01RA	

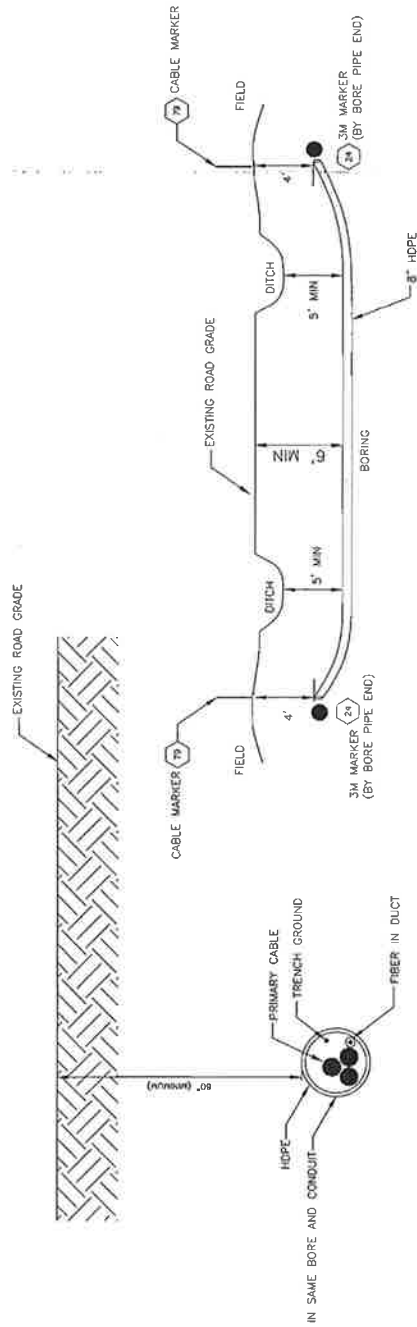


NOTES:

1. CABLE INSTALLATION IN ROAD RIGHT OF WAY PER ROUTE SHOWN.
2. INSTALL CABLES 42"-48" DEEP BY MACHINE TRENCHING.
3. SPLICE AND JUNCTION BOX LOCATIONS TO BE DETERMINED.
4. ROAD OR RAILWAY CROSSINGS BY HORIZONTAL DIRECTIONAL DRILLING/BORING WITH HOPE CONDUIT.

NO.	DATE	DESCRIPTION	BY	CHKD	DATE
CEIG CONSULTING ENGINEERS GROUP TRANSMISSION, MINNESOTA					
CHOPIN WIND FARM SUBSTATION COLLECTION SYSTEM AND TRANSMISSION LINE NORTH SECTION AERIAL VIEW					
CHECKED: JH DATE: 01/28/15			SCALE: NONE		
DRAWN: JH DATE: 01/28/15			PROJECT: CEG0102		
CHO - PP - 02RA					





TYPICAL PROFILE

BORING WITH CONDUIT
 3/4" MINIMUM DIAMETER = 8" HDPE SDR 17
 1/2" OR SMALLER = 6" HDPE SDR 17

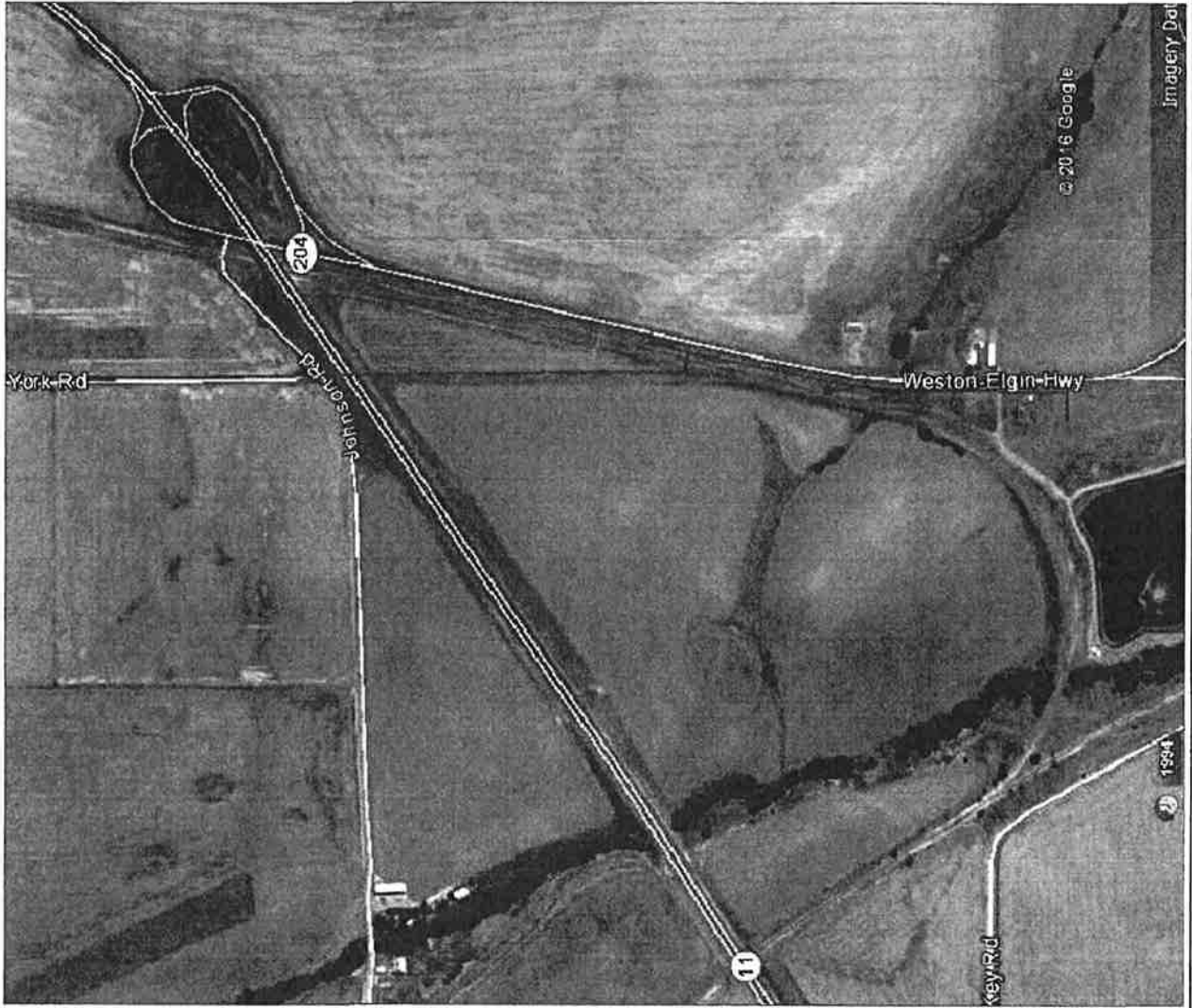
NOTES:

1. BURIAL DEPTH UNDER ROADS, RAILROADS AND BODIES OF WATER TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FURNISH AS BUILT LOCATIONS AND DRAWING, FOR AUTHORITY HAVING JURISDICTION, FOR EACH CROSSING.
2. MINIMUM DEPTH DETERMINED 5'-0" BELOW BOTTOM OF DITCH.
3. FIBER AND PRIMARY ARE PULLED IN THE SAME BORE HOLE UNLESS OTHERWISE INSTRUCTED.
4. MATERIAL QUANTITY (CONDUIT) DETERMINED IN FIELD. HDPE OR AS APPROVED BY OWNER.
5. BORE FROM OUTSIDE R.O.W. EDGE TO OUTSIDE R.O.W. EDGE UNLESS DIRECTED BY PERMIT TO ALLOW BORE PITS IN R.O.W.
6. SILT FENCING IF REQUIRED TO CONTAIN BORING FLUIDS.
7. RECORD GPS LOCATION OF START AND END OF BORING PIPE. MARK WITH 3M MARKER BALL. INSTALL BURIED CONDUIT MARKER AT R.O.W. EDGE, FENCE OR AS DIRECTED.
8. OBSERVE CABLE HANDLING REQUIREMENTS FOR PULLING CABLE IN BORES. (SEE SPECIFICATION AND/OR MANUFACTURER RECOMMENDATIONS).
9. REVIEW ROAD USE/CROSSING OR PERMIT AGREEMENTS PRIOR TO START OF WORK.

ⓧ INDICATES ITEM # ON ELECTRICAL MATERIAL LIST. SEE DWG. TR-08



NO.	DATE	DESCRIPTION	BY	CHKD	DATE
CEIG CONSULTING ENGINEERS GROUP FABERSON, WASHINGTON, WASHINGTON					
PROJECT NO. CHOPIN WIND FARM DRAWING NO. COLLECTION SYSTEM TITLE ROAD BORING DETAIL					
CHECKED _____ DATE _____			SCALE 1"=10' DWG. NO. CH0-TR-03RA		
DRAWN _____ DATE _____			DATE 02/25/18		



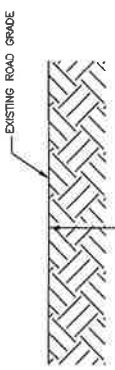
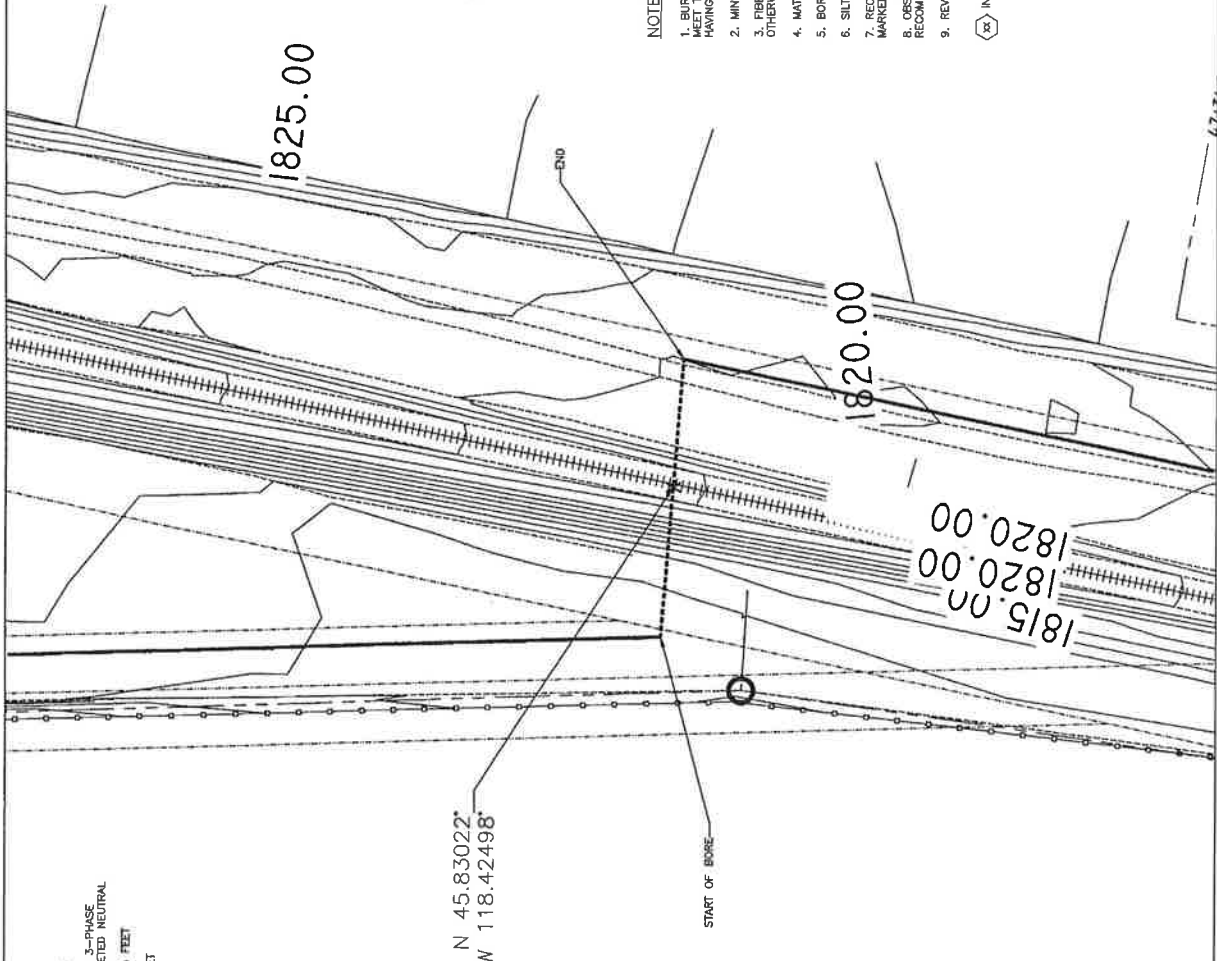
NOTES:

1. CABLE INSTALLATION IN ROAD RIGHT OF WAY PER ROUTE SHOWN.
2. INSTALL CABLES 42" - 48" DEEP BY MACHINE TRENCHING.
3. SPLICE AND JUNCTION BOX LOCATIONS TO BE DETERMINED.
4. ROAD OR RAILWAY CROSSINGS BY HORIZONTAL DIRECTIONAL DRILLING/BORING WITH HDPE CONDUIT.

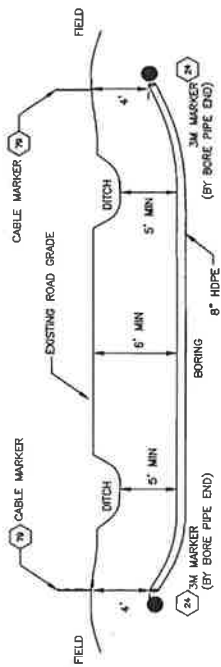
NO.	REV.	DATE	DESCRIPTION	DESIGNED	CHECKED	DATE
CEG CONSULTING ENGINEERS GROUP FARMINGTON, MINNESOTA						
CHOPIN WIND FARM SUBSTATION COLLECTION SYSTEM AND TRANSMISSION LINE SOUTH SECTION AERIAL VIEW						
CHECKED BY: _____ DATE: _____			SCALE: NONE PROJECT ELEVATION: _____			
DRAWN BY: _____ DATE: 01/26/15			SHEET NO. _____ TOTAL SHEETS _____			



BORING DISTANCE: 100 FEET
 BORE PIPE: 8" HDPE SDR 13.5
 CIRCUIT: 34.5KV, 1000KCMIL AL, 3-PHASE
 345 MIL. TRXLPE, JACKETED NEUTRAL
 DEPTH AT START OF BORE: 4-5 FEET
 DEPTH AT HWY C/L: 20-25 FEET



6" (MINIMUM)
 HDPE
 PRIMARY CABLE
 TRENCH GROUND
 FIBER IN DUCT
 BORING WITH CONDUIT
 500 KCMIL OR LARGER = 8" HDPE SDR 17
 470 OR SMALLER = 6" HDPE SDR 17

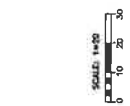


TYPICAL PROFILE

NOTES:

- BURIAL DEPTH UNDER ROADS, RAILROADS AND BORIES OF WATER TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, FURNISH AS BUILT LOCATIONS AND DRAWING, FOR AUTHORITY HAVING JURISDICTION, FOR EACH CROSSING.
- MINIMUM DEPTH DETERMINED 5'-0" BELOW BOTTOM OF DITCH.
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- MATERIAL QUANTITY (CONDUIT) DETERMINED IN FIELD. HDPE OR AS APPROVED BY OWNER.
- BORE FROM OUTSIDE R.O.W. EDGE TO OUTSIDE R.O.W. EDGE UNLESS DIRECTED BY PERMIT TO ALLOW BORE PITS IN R.O.W.
- SILT FENCING IF REQUIRED TO CONTAIN BORING FLUIDS.
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- REVIEW ROAD USE/CROSSING OR PERMIT AGREEMENTS PRIOR TO START OF WORK.

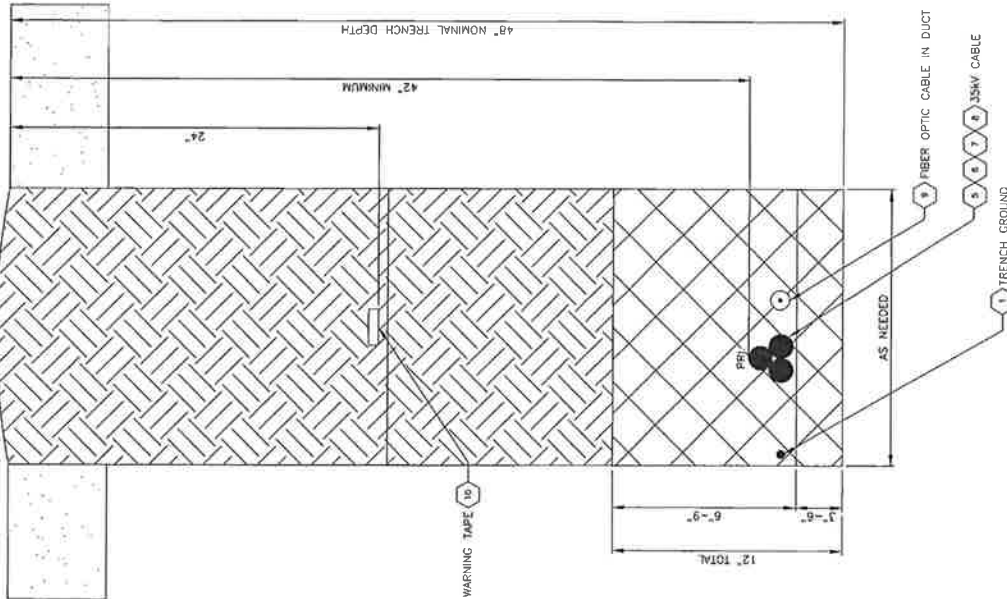
(X) INDICATES ITEM # ON ELECTRICAL MATERIAL LIST. SEE DWG. TR-05



THIS LINE IS ONE INCH WHEN PRINTED AT A SCALE OF ONE INCH = ONE HUNDRED FEET. SCALE ACCORDINGLY.

		CONSULTING ENGINEERS GROUP FARMINGTON, MINNESOTA	
CHOPIN WIND FARM COLLECTION SYSTEM RAILROAD CROSSING			
PROJECT #	DATE	SCALE	AS SHOWN
PROJECT # 0204702	DATE	DWG. NO.	
CHECKED	DATE	DESIGN	
DRAWN	DATE	DATE	
			CHO-SK-01RA

TRENCH FOR FIBER AND CABLE



NOTES:

1. EXACT TRENCH WIDTH DETERMINED BY EQUIPMENT REQUIRED FOR TERRAIN.
2. DEPTHS SPECIFIED ARE TO EXISTING GRADE. MINIMUM DEPTHS TO BE FOLLOWED AT ALL TIMES. DEVIATION FROM NOMINAL DEPTHS AT THE DISCRETION OF THE DESIGN ENGINEER AND OWNER BASED ON FIELD CONDITION.
3. BACK FILLING IS PART OF ALL TRENCHING UNITS. BACK FILL WITH NATIVE FILL FROM TRENCH. HAND REMOVE LARGE ROCKS. COMPACT FILL TO 95% FIELD TEST COMPACTION IN FIRST 1/4 MILE AT 2-3 LOCATIONS. IF COMPACTION METHOD PROVES ACCEPTABLE, NO FURTHER TESTS REQUIRED.
4. SELECT FILL REQUIRED IF BOTTOM OF TRENCH IS ROCK OR SHALE. BED CABLES ON 3" OF LOCAL SELECT FILL DOES NOT APPEAR SUITABLE FOR BACKFILL. REFER TO UNANTICIPATED EXCAVATION PROCEDURE.
5. SCREENED FILL OR IMPORTED SAND NOT REQUIRED AT THIS SITE.
6. WARNING TAPE AT 24" TO BE SPECIFIED ON ALL CIRCUITS. FURNISHED BY TRENCHING CONTRACTOR.
7. MAINTAIN 15' MINIMUM SPACING BETWEEN PARALLEL CIRCUITS.
8. USE HEAVY DUTY TIE WRAPS AS REQUIRED TO MAINTAIN TRIPLEXED BUNDLE CONFIGURATION. ENSURE THAT TIE WRAPS ARE STRONG ENOUGH TO WITHSTAND BACKFILLING. TAPE AND TRENCH BOX ROLLERS ARE ALSO ACCEPTABLE.
9. TYPE AND SIZE OF MEDIUM VOLTAGE CABLES TO BE INSTALLED BETWEEN TOWERS IS SPECIFIED IN THE MEDIUM VOLTAGE ONE LINE DIAGRAM.
10. TYPE OF FIBER OPTIC CABLE TO BE INSTALLED BETWEEN TOWERS IS SPECIFIED IN THE FIBER OPTIC ONE LINE DIAGRAM.
11. ANY EXTRA EXCAVATED MATERIAL AND SOIL REMOVED FROM THE TRENCH SHALL BE SPREAD ON SITE AT LOCATION SUITABLE TO LANDOWNER.
12. THE LOCATION OF EACH INDIVIDUAL CIRCUIT (CENTER OF TRIPLEXED CABLE) SHALL BE RECORDED IN (WAAS ENABLED) USING A SURVEYING ACCURACY OF +/- 7" GPS WHILE THE TRENCH IS OPEN AND THE CABLE IS BEING PLACED.
13. ALL SERVICE LOCATIONS, JUNCTION BOXES AND THE EXACT LOCATIONS OF WHERE THE CABLES ENTER AND EXIT THE FOUNDATIONS SHALL BE RECORDED BY GPS AND MARKED IN THE FIELD.
14. ELECTRICAL CONTRACTOR TO TRENCH ACROSS ROADS, STRIP ROAD GRAVEL, CUT GEOTECH FABRIC AND RESTORE/REPAIR PER CIVIL PLANS. COORDINATE WORK WITH GENERAL CONTRACTOR.
15. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL BURIED CABLE MARKERS AT:
 1. BOTH SIDES OF ROAD CROSSINGS.
 2. BOTH SIDES OF WETLAND CROSSINGS.
 3. FENCE CROSSINGS.
 4. PROPERTY LINE CROSSINGS.

CABLE PLACEMENT IN TRENCH

TREFOIL (ALL SIZES)
SECURE CABLE EVERY 100' OR
DEMONSTRATE CONSISTENT PLACEMENT.

UNDISTURBED EARTH

COMPACTED BACKFILL
UNLESS OTHERWISE SPECIFIED
SEE NOTE 3

CLEAN SOIL ~ NO ROCKS > 1"

ITEM NUMBER ON DRAWING TR-08



DATE	DESCRIPTION	DATE	DATE
11/15/17	CONSULTING ENGINEERS GROUP MINNAPCO CONSULTING ENGINEERS GROUP MINNAPCO CONSULTING ENGINEERS GROUP MINNAPCO CONSULTING ENGINEERS GROUP	11/15/17	11/15/17
CHOPIN WIND FARM COLLECTION SYSTEM TRENCHES FOR CABLE INSTALLATION		CHECKED	SCALE 45 5/8"=1'
		DATE	NO. 10. 02/20/17
		DRAWN	DATE
			02/23/16
			CHO-TR-01RA

