

US Department of Energy

APR 17 2014



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Electricity Delivery and
Energy Reliability

April 17, 2014

Rec'd AS PP-305
New docket created
PP-399

The Department of Energy
Office of Electricity Delivery and Energy Reliability
OE-20, Room 8G-024
1000 Independence Avenue, S.W.
Washington, D.C. 20585

RE: Montana Alberta Tie Ltd., OE Docket No. PP-305
*Application of Montana Alberta Tie Ltd. and MATL LLP for Amendment or, in the
Alternative, Rescission and Reissuance of Presidential Permit*

Dear Sir/Madam:

In accordance with Section 205.323 of the Department of Energy's ("DOE") regulations, 10 C.F.R. § 205.323 (2011), enclosed for filing in the above-captioned proceeding are an original and five (5) copies of the Application of Montana Alberta Tie Ltd. ("Montana Alberta Tie") and MATL LLP ("MATL") (jointly, the "Applicants") for Amendment or, in the Alternative, Rescission and Reissuance of Presidential Permit ("Application"). Also enclosed is a check for the filing fee in the amount of \$150 made out to the Treasurer of the United States.

As discussed more fully in the Application, the Applicants respectfully request DOE approval for an amendment to Presidential Permit PP-305 issued to Montana Alberta Tie on November 17, 2008, authorizing MATL, a related U.S. entity to operate the international transmission facilities, including a single circuit 230-kV electric transmission line originating at NorthWestern Energy's 230-kV switchyard in Great Falls, Montana, and extending north approximately 130 miles to a point at the U.S.-Canada border near Cut Bank, Montana (the "Permitted Facilities"), or, in the alternative, for Presidential Permit PP-305 to be rescinded and reissued to MATL.

An affidavit by Robert Carpenter, the Vice President of Montana Alberta Tie, has been enclosed averring that Montana Alberta Tie requests to transfer PP-305 to MATL. Further, I have enclosed an affidavit as the senior legal counsel for the managing partner of MATL averring that no change in construction or operation of the previously authorized international transmission line facilities will occur due to the transfer requested here.

On May 16, 2013, the Applicants filed a letter with DOE Staff requesting amendment or in the alternative, rescission and reissuance of PP-305. As per recent guidance from DOE Staff, the enclosed Application is being submitted in lieu of the May 16, 2013 request.

Should you have any questions or concerns regarding this matter, please contact the undersigned.

Sincerely,



Stacy Myers
Senior Legal Counsel, Green Power and
Transmission
Enbridge Energy Company, Inc.
1100 Louisiana St., Suite 3300
Houston, TX 77002
Tel: (713) 821-2293
Email: Stacy.Myers@enbridge.com

Attachments

UNITED STATES OF AMERICA
BEFORE THE
DEPARTMENT OF ENERGY
OFFICE OF FOSSIL ENERGY

MONTANA ALBERTA TIE LTD.
AND
MATL LLP

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PRESIDENTIAL PERMIT
NO. PP-305

**APPLICATION OF MONTANA ALBERTA TIE LTD. AND MATL LLP FOR
AMENDMENT OR, IN THE ALTERNATIVE, RESCISSION AND REISSUANCE OF
PRESIDENTIAL PERMIT**

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I. INFORMATION REGARDING THE APPLICATION

The Applicants request that PP-305 be amended to name MATL as the Permittee or, in the alternative, that the Permit be rescinded and reissued to MATL. PP-305, which was issued by DOE on November 17, 2008, authorizes the construction, operation, and maintenance of international transmission facilities, including a single-circuit 230-kV electric transmission line originating at NorthWestern Energy's 230-kV Switchyard in Great Falls, Montana, and extending north approximately 130 miles to a point at the U.S.-Canada border near Cut Bank, Montana. The Applicants now request that Montana Alberta Tie be removed from PP-305 as the Permittee, and that MATL be named as Permittee of PP-305. This request is being made for business reasons in order to allow the international transmission line to be owned and operated jointly by both MATL and Montana Alberta Tie—MATL, a related U.S. entity, will be the owner and operator of the Permitted Facilities in the United States (up to the U.S.-Canada border), and Montana Alberta Tie, a related Canadian entity, will remain the owner and operator of that portion of the transmission line in Canada which extends north from the U.S.-Canada border.

As stated in the affidavit of Stacy L. Myers attached to this Application as Exhibit B, no change in construction or operation of the previously authorized Permitted Facilities will occur due to the transfer requested here. Further, the Permitted Facilities will continue in service as authorized under the Permit until such date that the DOE takes action on this Application.

1.1 Legal Name of Applicants

The legal names of the Applicants are Montana Alberta Tie Ltd. and MATL LLP. Montana Alberta Tie remains a Canadian entity incorporated under the Canadian Business

Corporations Act #634471-2, and is headquartered at 3000, 425 – 1st Street SW Calgary, AB T2P 3L8 Canada.

MATL is a limited liability partnership that is organized under the laws of the state of Montana and is registered with the Montana Secretary of State to conduct business in the state of Montana, with its principal place of business located at 1100 Louisiana, Suite 3300, Houston, Texas 77002.

1.2 Legal Names of All Partners

The Applicants have no partners in connection with the Permitted Facilities.

1.3 Communications and Correspondence

All communications and correspondence regarding this Application should be addressed to the following:

Stacy Myers
Senior Legal Counsel
Green Power and Transmission
Enbridge Energy Company, Inc.
1100 Louisiana St., Suite 2500
Houston, TX 77002
Tel: (713) 821-2293
Fax: (713) 821-2229
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Travis Allen
Senior Regulatory Analyst
Green Power and Transmission
Enbridge Energy Company, Inc.
1100 Louisiana St., Suite 2500
Houston, TX 77002
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Travis.Allen@enbridge.com

1.4 Foreign Ownership and Affiliations

At the time DOE issued PP-305, Montana Alberta Tie was under the ownership of Tonbridge Power Inc. (“Tonbridge”). On October 13, 2011, Enbridge Inc. (“Enbridge”), a

publicly-traded corporation based in Calgary, Canada, acquired Tonbridge, together with its subsidiaries, Montana Alberta Tie and MATL.¹

Montana Alberta Tie is under the ownership and control of Enbridge. MATL is an indirect, wholly-owned subsidiary of Enbridge Transmission Holdings (U.S.) L.L.C which is in turn an indirect, wholly-owned subsidiary of Enbridge. Montana Alberta Tie LP Inc. ("MATL LP") owns, as a limited partner, 99.5 percent (99.5%) of the partnership interests in MATL, and Montana Alberta Tie U.S. Holdings GP Inc. ("MATL GP") owns, as general partner, the remaining one-half of one percent (0.5%) of the partnership interests in MATL. MATL GP is a wholly-owned direct subsidiary of Enbridge Transmission Holdings (U.S.) L.L.C., and MATL LP is a wholly-owned subsidiary of MATL GP.

1.5 Contracts with Foreign Governments or Foreign Private Concerns

The Applicants do not have any existing contracts with any foreign (i.e., non-Canadian or non-U.S.) government, or any foreign (i.e., non-Canadian or non-U.S.) private concerns, relating to the Permitted Facilities or to any purchase, sale or delivery of electric energy over the Permitted Facilities.

1.6 Compliance with Law

As set forth in the affidavits of Robert Carpenter and Stacy L. Myers attached to this Application as Exhibit B, the operations and maintenance of the Permitted Facilities, as described herein, is within the corporate powers of Montana Alberta Tie and MATL. Further, Montana Alberta Tie has complied with and, upon amendment or reissuance of PP-305 as requested by this Application, MATL will continue to comply with all permit obligations and

¹ See *Enbridge Inc.*, 136 FERC ¶ 62,264 (2011).

conditions required under PP-305 and all pertinent federal and state laws related to the interconnection, operation, and maintenance of the Permitted Facilities.

2. INFORMATION REGARDING THE PERMITTED FACILITIES

2.1 Description of the Transmission Line

The description of the Permitted Facilities covered by the Presidential Permit is unchanged from how it is described in Montana Alberta Tie's October 7, 2005 Application for a Presidential Permit, as revised, which was approved in Order No. PP-305, and is attached hereto as Exhibit C. The Permitted Facilities Montana Alberta Tie was authorized to construct in that order have been constructed and were placed into service in September 2013. No changes to the Permitted Facilities are contemplated at this time.

2.2 Maps

The MATL Line and Key Ancillary Facilities map and other maps, as supplemented by July 31, 2006 and September 27, 2006 filings, included as Figures 1 and 2 in the October 4, 2005 Application (attached hereto as Exhibit C) continue to accurately show the physical location (latitude and longitude) and ownership of the Permitted Facilities on the international border.

2.3 Bulk Power System Information

No bulk power system information is provided with this Application because no information has changed from the October 4, 2005 Application, with the exception of supplements previously provided in the July 31, 2006 and September 27, 2006 filings, which are also attached hereto in Exhibit C.

3. INFORMATION REGARDING POTENTIAL ENVIRONMENTAL IMPACTS

Applicants do not request authorization to construct any new facilities. The authorizations requested in this Application will not have an impact on the environment.

4. EXHIBITS

Exhibit A – Presidential Permit PP-305

Exhibit B – Opinions of Counsel for the Applicants

Exhibit C – MATL's October 4, 2005 Application for a Presidential Permit, as supplemented by July 31, 2006 and September 27, 2006 filings, which was approved in Order No. PP-305

WHEREFORE, for the foregoing reasons, Montana Alberta Tie and MATL respectfully request that the DOE either (i) amend Presidential Permit PP-305 to designate MATL as the Permittee, or in the alternative, (ii) rescind Presidential Permit PP-305 and reissue it to MATL.

Respectfully submitted,



Stacy Myers
Senior Legal Counsel
Green Power and Transmission
Enbridge Energy Company, Inc.
1100 Louisiana St., Suite 2500
Houston, TX 77002
Tel: (713) 821-2293
Email: stacy.myers@enbridge.com

April 17, 2014

*APPLICATION OF MONTANA ALBERTA TIE LTD. AND MATL LLP FOR AMENDMENT OR,
IN THE ALTERNATIVE, RESCISSION AND REISSUANCE OF
PRESIDENTIAL PERMIT*

EXHIBIT A

United States
Department of Energy

Office of Electricity Delivery and Energy Reliability

Montana Alberta Tie Ltd.

OE Docket No. PP-305



Presidential Permit

No. PP-305

November 17, 2008

Montana Alberta Tie Ltd.

Presidential Permit No. PP-305

I. BACKGROUND

The Department of Energy (DOE) has the responsibility for implementing Executive Order (EO) 10485, as amended by EO 12038, which requires the issuance of a Presidential permit for the construction, operation, maintenance, and connection of electric transmission facilities at the United States international border.¹ DOE may issue the permit if it determines that the permit is in the public interest, and after obtaining favorable recommendations from the U.S. Departments of State and Defense.

On October 7, 2005, Montana Alberta Tie Ltd. (MATL) submitted an application for a Presidential permit to DOE's Office of Electricity Delivery and Energy Reliability (OE). MATL, a private Canadian corporation owned by Tonbridge Power, is proposing to construct and operate an international 230-kilovolt (kV), alternating current merchant (i.e., private) transmission line that would originate at the existing NorthWestern Energy (NWE) 230-kV Switchyard in Great Falls, Montana, and extend north to a new substation to be constructed northeast of Lethbridge, Alberta, Canada. The line would cross the U.S.-Canada international border north of Cut Bank, Montana. Approximately 130 miles of the 203-mile long transmission line are proposed to be constructed in the United States. The proposed line would be constructed and owned by MATL. It would be part of the Western Interconnection (western grid)². A phase shifting transformer would be installed at the substation near Lethbridge to control the direction of power flows on the line.

Notice of the MATL application was published in the *Federal Register* on November 1, 2005, (70 FR 65891) requesting that comments, protests, and petitions to intervene be submitted to DOE by December 1, 2005. None were received.

In addition to obtaining a Presidential permit from DOE, MATL also must obtain a Certificate of Compliance from the Montana Department of Environmental Quality (DEQ) under the Montana Major Facility Siting Act (MFSA), (75-20-101, et seq., Montana Code Annotated), and a right-of-way grant for Transportation and Utility Systems and Facilities on Federal Land from the Bureau of Land Management (BLM) of the U.S. Department of the Interior.

Because of the similarities in the requirements of the National Environmental Policy Act of 1969 (NEPA) and the Montana Environmental Policy Act (MEPA), DOE and DEQ (the

¹ The authority to administer the International Electricity Regulatory program through the regulation of electricity exports and the issuance of Presidential permits has been delegated to the Assistant Secretary for the Office of Electricity Delivery and Energy Reliability (OE), in Redelegation Order No. 00-002.10C issued on May 29, 2008.

² There are three distinct power grids or "interconnections" within the United States: the Eastern Interconnection, the Western Interconnection, and the Electric Reliability Council of Texas. The three interconnections are electrically independent from each other, except for a few low capacity direct current transmission lines that loosely link them. Within each interconnection, electricity is produced the instant it is used and flows over virtually all transmission lines from generators to customer loads.

“agencies”) cooperated in the preparation of a single environmental review document that would satisfy both Federal and State requirements. Initially, DOE considered an environmental assessment (EA) to be the appropriate level of review under NEPA, while DEQ considered the appropriate level of review under MEPA to be an EIS. However, based on public comments received on the Federal EA and Montana EIS published in March 2007, and changes to the State tax law that took place in Montana’s April 2007 special legislative session, DOE determined that an environmental impact statement (EIS) was required to properly assess the environmental impacts. The agencies published a Final EIS in February 2008.

On October 22, 2008, DEQ issued a Certificate of Compliance indicating that the proposed transmission line is in conformance with MFSA requirements. On November 12, 2008, DOE signed a Record of Decision (ROD) which was published in the *Federal Register* on November 17, 2008 (73 FR 67860). The ROD announces DOE’s decision to grant a Presidential permit to MATL for development of its proposed international transmission line along the preferred alternative identified and analyzed in the EIS, with the implementation of certain environmental mitigation measures and electric reliability conditions. BLM has not yet reached a decision on MATL’s request for a right-of-way grant.

II. DISCUSSION

In support of its Presidential permit application, MATL submitted technical studies demonstrating the operation of the U.S. electric power supply system with the MATL project in service. These studies included the *System Impact Study* commissioned by NWE, dated September 26, 2006, and the *Phase 2 Study Report* accepted by the Project Review Group of the Western Electricity Coordinating Council (WECC)³, dated July 24, 2007.

The results of the *System Impact Study* indicate that the proposed international transmission line can be interconnected to the NWE system at the Great Falls substation and operated without violating industry-established reliability criteria, provided that MATL mitigates potential overloads on two autotransformers identified in the contingency analysis and operates its shunt capacitor facilities in such a way as to avoid high voltages during all electric system operating conditions. This Permit contains a condition requiring MATL to comply with these interconnection requirements.

The results of the WECC *Phase 2 Study Report* indicate that the proposed MATL line can be installed and operated at non-simultaneous power levels of up to 300 megawatts (MW) northbound (from the United States to Canada) and up to 325 MW southbound (from Canada to the United States) without having an adverse impact on the reliability of the U.S. electric power system, provided that MATL implements the mitigation plan described in that report. MATL has committed to implementing this mitigation plan, which includes development and implementation of a remedial action scheme and related operating procedures and nomograms.⁴ This Permit also

³ The Western Electricity Coordinating Council is one of 8 regional electric reliability councils within the United States. It is responsible for coordinating and promoting electric reliability in all or part of 14 western states, the Canadian Provinces of British Columbia and Alberta, and the northern portion of Baja California, Mexico.

⁴ Remedial action schemes and nomograms are operating procedures that establish limits on the amount of electric power that

contains a condition requiring MATL to develop and implement that mitigation plan and to adhere to all other operating requirements that may be prescribed by WECC and/or NWE.

DOE has consistently expressed its expectation that owners of international transmission facilities provide access across the border in accordance with the principles of comparable open access and non-discrimination contained in the Federal Power Act and articulated in the Federal Energy Regulatory Commission's Order No. 888 (Promoting Wholesale Competition Through Open Access Non-Discriminatory Transmission Services by Public Utilities; FERC Stats. & Regs. ¶31,036 (1996)), as amended. In a related proceeding, FE Docket No. 99-1 (64 FR 40580, July 27, 1999), DOE indicated its intention to amend certain Presidential permits to require permit holders to provide non-discriminatory open access transmission services over their international transmission lines. This proceeding has not yet been concluded. However, in its permit application MATL asserts that it intends to operate the proposed transmission facilities in an "open access" mode making them available for use by other parties to transmit electric energy between the United States and Canada.

III. FINDING AND DECISION

In determining whether issuance of a Presidential permit is in the public interest, DOE considers the environmental impacts of the proposed project pursuant to NEPA, determines the project's impact on electric reliability, and any other factors that DOE may also consider relevant to the public interest.

DOE has assessed the impact that the issuance of this Permit would have on the environment pursuant to NEPA. This assessment is documented in the *Final Environmental Impact Statement for the Montana Alberta Tie Ltd. (MATL) 230-kV Transmission Line* (DOE/EIS-0399) and in the ROD issued on November 17, 2008. The findings and determinations in the ROD are predicated in part on the implementation of all project-specific environmental protection measures MATL proposed in its MFSA application, as described in the EIS, and also on the environmental specifications incorporated by reference in the Certificate of Compliance issued by DEQ on October 22, 2008. Accordingly, this Permit contains a condition requiring MATL to implement and adhere to those measures.

DOE also has assessed the impact that the operation of the proposed international transmission facilities would have on the reliability of the U.S. electric power supply system. Based on the information in the docket and as discussed above, DOE has determined that the installation and operation of the proposed international transmission facilities by MATL, as conditioned herein, would not adversely impact the reliability of the U.S. electric power supply system.

The Secretary of State and the Secretary of Defense have concurred with the issuance of a Presidential permit to MATL for the proposed facilities.

may be transmitted over a particular transmission line or produced by a generating station under varying electric system conditions of load and equipment availability. These operating procedures establish a means of avoiding or mitigating any reliability problems that are expected to exist under various system contingencies.

Based upon the above discussion and analysis, DOE has determined that the issuance of a Presidential permit to MATL is consistent with the public interest.

IV. ORDER

Pursuant to the provision of EO 10485, as amended by EO 12038, and the Rules and Regulations issued thereunder (Title 10, Code of Federal Regulations, section 205.320 *et. seq.*), permission is granted to MATL to construct, operate, maintain, and connect electric transmission facilities at the international border of the United States and Canada, as further described in Article 2 below, upon the following conditions:

Article 1. The facilities herein described shall be subject to all conditions, provisions and requirements of this Permit. This Permit may be modified or revoked by the President of the United States without notice, or by DOE after public notice, and may be amended by DOE after proper application thereto.

Article 2. The facilities covered by and subject to this Permit shall include the following facilities and all supporting structures within the right-of-way occupied by such facilities:

a single-circuit 230-kV electric transmission line originating at NorthWestern Energy's 230-kV Switchyard in Great Falls, Montana, and extending north approximately 130 miles to a point on the U.S.-Canada border north of Cut Bank, Montana. The permitted facilities shall be constructed along a route identified as the preferred alternative in the Final EIS (DOE/EIS-0399).

These facilities are more specifically shown and described in the application filed in this docket, as amended.

Article 3. The facilities described in Article 2 above shall be designed and operated in accordance with the applicable reliability criteria established by the Western Electricity Coordinating Council and the regional balancing authority, and consistent with that of the North American Electric Reliability Corporation or their successors. The maximum non-simultaneous rate of transmission over the permitted facilities shall not exceed 300 MW northbound (from the United States to Canada) and 325 MW southbound (from Canada to the United States). Furthermore, MATL must mitigate potential overloads on the two autotransformers identified in the contingency analysis contained in the *System Impact Study* submitted to DOE in support of MATL's Presidential permit application, and operate its shunt capacitor facilities in such a way so as to avoid high voltages during all electric system operating conditions.

MATL shall implement the mitigation plan described in the *WECC Phase 2 Study Report* provided to DOE, including development and implementation of a remedial action scheme and related operating procedures and nomograms and all other operating requirements that may be prescribed by WECC and/or NWE.

Article 4. No change shall be made in the facilities covered by this Permit or in the authorized operation or connection of these facilities unless such change has been approved by DOE.

Article 5. MATL shall at all times maintain the facilities covered by this Permit in a satisfactory condition so that all requirements of the National Electric Safety Code in effect at the time of construction are fully met.

Article 6. The operation and maintenance of the facilities covered by this Permit shall be subject to the inspection and approval of a properly designated representative of DOE, who shall be an authorized representative of the United States for such purposes. MATL shall allow officers or employees of the United States, with written authorization, free and unrestricted access into, through, and across any lands occupied by these facilities in the performance of their duties.

Article 7. MATL shall investigate any complaints from nearby residents of radio or television interference identifiably caused by the operation of the facilities covered by this Permit. MATL shall take appropriate action as necessary to mitigate such situations. Complaints from individuals residing within one-half mile of the centerline of the transmission line are the only ones which must be resolved. MATL shall maintain written records of all complaints received and of the corrective actions taken.

Article 8. The United States shall not be responsible or liable: for damages to or loss of the property of, or injuries to, persons; for damages to, or loss of the facilities covered by this Permit; or for damages to, or loss of the property of, or injuries to the person of MATL officers, agents, servants or employees or of others who may be on said premises; any of which may arise from or be incident to the exercise of the privileges granted herein; and MATL shall hold the United States harmless from any and all such claims.

Article 9. MATL shall arrange for the installation and maintenance of appropriate metering equipment to record permanently the hourly flow of all electric energy transmitted between the United States and Canada over the facilities authorized herein. MATL shall make and preserve full and complete records with respect to the electric energy transactions between the United States and Canada. MATL shall furnish annual reports to DOE, by the 15th of February each year, detailing for each month of the previous year: (1) the gross amount of electricity imported to the United States, in kilowatt hours; (2) the consideration paid for such imports; and (3) the maximum hourly rate of transmission, in kilowatts. Annual reports must be filed regardless of current activity and whether or not deliveries of electric energy have been made. If no transactions have been made, a one-sentence report indicating "no activity" for the previous year is sufficient.

Reports shall be submitted to the U.S. Department of Energy, Office of Electricity Delivery and Energy Reliability, OE-20, 1000 Independence Avenue, SW, Washington, D.C. 20585. Properly identified reports will also be accepted via facsimile at (202) 586-8008 to meet time requirements, but original copies should still be filed at the above address.

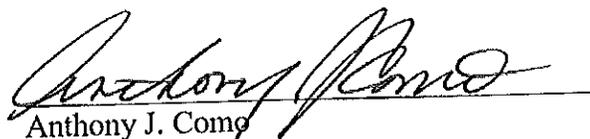
Article 10. Neither this Permit nor the facilities covered by this Permit, or any part thereof, shall be transferable or assignable, except in the event of the involuntary transfer of the facilities by the operation of law. In the case of such an involuntary transfer, this Permit shall continue in effect for a period of 60 days and then shall terminate unless an application for a new permit pursuant to Title 10, Code of Federal Regulations, section 205.323, has been received by DOE. Upon receipt by DOE of such an application, this existing Permit shall continue in effect pending a decision on the new application. During this decision period, the facilities authorized herein shall remain substantially the same as before the transfer.

In the event of a proposed voluntary transfer of the facilities, the existing permit holder and the party to whom the transfer would be made shall file a joint application with DOE for a Presidential permit together with a statement of the reasons for the transfer.

Article 11. Upon the termination, revocation or surrender of this Permit, the permitted facilities which are owned, operated, maintained, and connected by MATL and described in Article 2 of this Permit, shall be removed and the land restored to its original condition within such time as DOE may specify and at the expense of MATL. If MATL fails to remove such facilities and/or any portion thereof authorized by this Permit, DOE may direct that such actions be taken for the removal of the facilities or the restoration of the land associated with the facilities at the expense of MATL. MATL shall have no claim for damages by reason of such possession, removal or repair. However, if certain facilities authorized herein are useful for other utility operations within the bounds of the United States, DOE will not require that those facilities be removed and the land restored to its original condition upon termination of the international interconnection.

Article 12. MATL shall implement all project-specific environmental protection measures contained in its MFSA application and all environmental specifications incorporated by reference in the Certificate of Compliance issued by DEQ on October 22, 2008.

Issued in Washington, D.C. on November 17, 2008.



Anthony J. Comor
Director, Permitting and Siting
Office of Electricity Delivery and
Energy Reliability

*APPLICATION OF MONTANA ALBERTA TIE LTD. AND MATL LLP FOR AMENDMENT OR,
IN THE ALTERNATIVE, RESCISSION AND REISSUANCE OF
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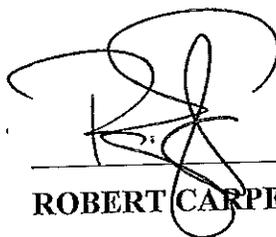
EXHIBIT B

AFFIDAVIT OF ROBERT CARPENTER

I, Robert Carpenter, state as follows:

1. I am Vice President of Montana Alberta Tie Ltd. ("MATL").
2. MATL is incorporated under the Canadian Business Corporations Act #634471-2, and is headquartered at 3000, 425 - 1st Street S.W. Calgary, AB T2P 3L8 Canada.
3. MATL was previously a subsidiary of Tonbridge Power Inc. ("TPI"), whose shares were acquired by a subsidiary of Enbridge Inc. On January 1, 2013, TPI was amalgamated into Montana Alberta Tie Ltd. ("MATL"), which is under the ownership and control of Enbridge Inc. MATL is currently an indirect subsidiary of Enbridge (U.S.) Inc., which is also under the ownership and control of Enbridge Inc.
4. The U.S. Department of Energy ("DOE"), acting upon the application submitted by MATL, issued Presidential Permit OE Docket No. PP-305 to MATL on November 17, 2008, which authorizes the construction and operation of international transmission facilities, including a single-circuit 230-kV electric transmission line originating at NorthWestern Energy's 230-kV Switchyard in Great Falls, Montana, and extending north approximately 130 miles to a point on the U.S.-Canada border north of Cut Bank, Montana.
5. MATL now requests that Presidential Permit OE Docket No. PP-305 be transferred solely to MATL LLP.
6. Acting in my capacity as Vice President, I have the authority to request the transfer and assignment of MATL's interest and title in Presidential Permit OE Docket No. PP-305 to MATL LLP.

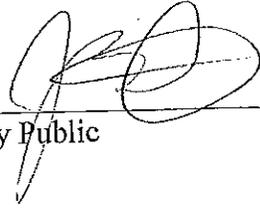
DATED this 18th day of April, 2013.



A handwritten signature in black ink, consisting of a large, stylized 'R' and 'C' intertwined, positioned above a horizontal line.

ROBERT CARPENTER

SUBSCRIBED AND SWORN TO before me this 18th day of April, 2013.



Notary Public

My Commission Expires:

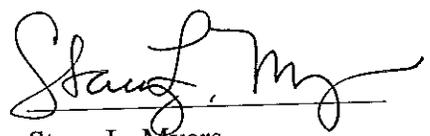
N/A - barrister and solicitor

AFFIDAVIT OF STACY L. MYERS

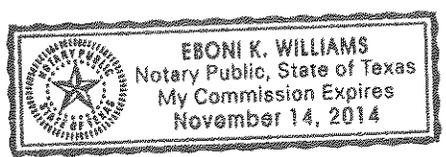
I, Stacy L. Myers, state as follows:

1. I am the senior legal counsel for Montana Alberta Tie U.S. Holdings GP Inc., the managing partner of MATL LLP.
2. Montana Alberta Tie U.S. Holdings GP Inc. is the managing partner of MATL LLP and has the authority to sign on behalf of MATL LLP in its capacity as managing partner.
3. MATL LLP is a limited liability partnership organized under the State of Montana, having its address at 1100 Louisiana, Suite 3300, Houston, TX 77002.
4. MATL LLP is registered with the Montana Secretary of State to conduct business within the State of Montana.
5. MATL LLP was previously a subsidiary of Tonbridge Power Inc. ("TPI"), whose shares were acquired by a subsidiary of Enbridge Inc. On January 1, 2013, TPI was amalgamated into Montana Alberta Tie Ltd. ("Montana Alberta Tie"), which is under the ownership and control of Enbridge Inc. MATL LLP is currently an indirect subsidiary of Enbridge (U.S.) Inc., which is also under the ownership and control of Enbridge Inc.
6. The U.S. Department of Energy ("DOE"), acting upon the application submitted by Montana Alberta Tie, issued Presidential Permit OE Docket No. PP-305 to Montana Alberta Tie on November 17, 2008, which authorizes the construction and operation of international transmission facilities, including a single-circuit 230-kV electric transmission line originating at NorthWestern Energy's 230-kV Switchyard in Great Falls, Montana, and extending north approximately 130 miles to a point on the U.S.-Canada border north of Cut Bank, Montana.
7. MATL LLP, together with Montana Alberta Tie, now request that Presidential Permit OE Docket No. PP-305 be transferred solely into the name of MATL LLP.
8. Upon transfer of the Presidential Permit, MATL LLP intends to comply in all material respects with the terms and conditions contained in Presidential Permit OE Docket No. PP-305 related to construction and/or operation of the transmission line authorized therein.
9. Acting in my capacity as senior legal counsel for Montana Alberta Tie U.S. Holdings GP Inc., the managing partner of MATL LLP, I have the authority sign on behalf of MATL LLP and bind MATL LLP to comply with the terms and conditions contained in Presidential Permit OE Docket No. PP-305.
10. Attached as Exhibit 1 to this Affidavit, is documentation evidencing that MATL LLP is registered with the Montana Secretary of State to conduct business within the State of Montana.

DATED this 14th day of April, 2014.


Stacy L. Myers

SUBSCRIBED AND SWORN TO before me this 14th day of April, 2014.



Notary Public: Eboni K. Williams

My Commission Expires: 11/14/2014

EXHIBIT 1

SECRETARY OF STATE STATE OF MONTANA

CERTIFICATE OF FACT

I, **LINDA McCULLOCH**, Secretary of State of the State of Montana, do hereby certify that pursuant to Title 35, Chapter 10, Montana Code Annotated, an Application for Registration of Limited Liability Partnership for

MATL LLP

was filed in this office on **OCTOBER 3, 2006**.

I further certify that on **OCTOBER 16, 2009**, an amendment was filed changing the partners and/or addresses.

I further certify that on **JULY 7, 2011**, the Limited Liability Partnership filed their required renewal with this office.

I further certify that the description of the business to be transacted under the Limited Liability Partnership is **ACQUISITION, CONSTRUCTION, OPERATION OF A CROSS BORDER ELECTRONIC TRANSMISSION LINE**.

I further certify that the business is being transacted in **ALL COUNTIES**.

I further certify that the partners on record are **MONTANA ALBERTA TIE US HOLDING GP INC., MONTANA ALBERTA TIE LP INC, 30 W 14TH ST STE 207, HELENA, MT 59601**.

I further certify that the expiration date is **OCTOBER 3, 2016**, unless an application for renewal of the Limited Liability Partnership registration is received by this office within 90 days prior to the expiration date.

I further certify that according to my records the Limited Liability Partnership is active and it is in good standing.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Montana, at Helena, the Capital, this **May 2, 2013**.



LINDA McCULLOCH
Secretary of State

Certified File Number: **P137636**



MONTANA ALBERTA TIE U.S. HOLDINGS GP INC.

**CORPORATE SECRETARY'S CERTIFICATE
ON BEHALF OF
MATL LLP**

The undersigned hereby certifies that he is the duly elected and qualified Corporate Secretary of Montana Alberta Tie U.S. Holdings GP Inc., a Montana corporation (the "General Partner"), which serves as the general partner of MATL LLP, a Montana limited liability partnership (the "Partnership"), and that, as such, he is familiar with the facts herein certified. The undersigned hereby further certifies on behalf of the General Partner and the Partnership as of the date hereof, as follows:

- 1) below is a true, correct and complete copy of certain resolutions duly adopted by the sole General Partner of the Partnership adopted by Unanimous Written Consent of the Board of Directors (In Lieu of Special Meeting) effective October 1, 2012; and such resolutions have not been amended, modified, revoked or rescinded and remain in full force and effect:

RESOLVED FURTHER, that any officer of the Corporation, acting as a duly authorized agent of the Corporation acting in its capacity as General Partner of MATL LLP, shall be, and are hereby authorized to execute any and all documents pertaining to: (i) the acquisition of lands and rights-of-way in the State of Montana that are necessary for the construction and operation of the Montana Alberta Tie Line (including, without limitation, right of way purchase agreements, easement agreements and/or grants, leases, annual payment agreements, mortgages of the foregoing, and all documents reasonably ancillary thereto); and (ii) the acquisition of any governmental or regulatory permits, authorizations, certifications, and the like, that are necessary for the construction and operation of the Montana Alberta Tie Line; and

RESOLVED FURTHER, that any of the President, any Vice President, Treasurer, Assistant Treasurer, Controller, Corporate Secretary or Tax Officer, acting as a duly authorized agent of the Corporation acting in its capacity as General Partner of MATL LLP, shall be, and are hereby authorized to execute any and all documents pertaining to any agreements, contracts, instruments, instructions, authorizations, applications, and the like, that are necessary for the construction and operation of the Montana Alberta Tie Line.

RESOLVED, that any acts of the authorized officers of the Corporation, which acts would have been authorized by the foregoing resolutions except that such acts were taken prior to the adoption of such resolutions, are hereby severally ratified, confirmed, approved and adopted as the acts of the Corporation.

- 2) that the following person is now acting as an authorized representative of the Company in respect to matters involving permitting and affiliated bonds; and that the signature at the right of his name is the genuine signature of said representative;

Senior Legal Counsel

Stacy L. Myers



IN WITNESS WHEREOF, I have hereunto signed my name.

Dated: April 1, 2014



Bruce A. Stevenson
Corporate Secretary

*APPLICATION OF MONTANA ALBERTA TIE LTD. AND MATL LLP FOR AMENDMENT OR,
IN THE ALTERNATIVE, RESCISSION AND REISSUANCE OF
PRESIDENTIAL PERMIT*

EXHIBIT C

MONTANA ALBERTA TIE LTD



October 4, 2005

Ms. Ellen Russell
Senior Project Manager
U.S. Department of Energy
Office of Electricity Delivery
and Energy Reliability
1000 Independence Ave. SW
Room 6H-050
Washington, DC 20585 U.S.A.

Dear Ms. Russell:

Subject: Presidential Permit Application

Attached are an original and two copies of an Application for a Presidential Permit for the Montana Alberta Tie Ltd. Project 230 kV Power Transmission Line, Lethbridge, Alberta – Great Falls, Montana. Also attached are three original copies of the partial Major Facilities Siting Act application (MFSA) to the Montana Department of Environmental Quality. Montana Alberta Tie Ltd. (MATL) anticipates filing the outstanding portion of the MFSA application within the next two weeks and will also forward a copy of that application to the Department of Energy.

Also attached is a money order in the amount of \$150.00 US for the filing fee.

In the event that you wish to contact me, my telephone number is (403) 264-4465 ext. 226 and my email is bob.williams@matl.ca.

Respectfully,

A handwritten signature in cursive script that reads "Robert L. Williams".

Bob Williams
Vice President Regulatory

Enclosures (7)

cc: Patrick Farmer, Patrick Mullen

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**UNITED STATES OF AMERICA
BEFORE THE
DEPARTMENT OF ENERGY
OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY**

Montana Alberta Tie Ltd.
Docket No. PP-305.

**APPLICATION FOR A PRESIDENTIAL PERMIT
FOR THE MONTANA ALBERTA TIE LTD. PROJECT
230-kV POWER TRANSMISSION LINE
LETHBRIDGE, ALBERTA – GREAT FALLS, MONTANA**

Pursuant to Executive Order 10485, as amended by Executive Order 12038, and the United States Department of Energy's ("DOE") applicable administrative procedures (10 CFR §205.320 – 205.329), Montana Alberta Tie Ltd. ("MATL") hereby applies for a Presidential Permit authorizing it to construct, connect, operate and maintain facilities to transmit electric energy at the international border between the United States of America ("U.S.") and Canada. In support of this application, MATL states as follows:

I. Information Regarding the Applicant

A. Legal Name of the Applicant

The legal name of the applicant is Montana Alberta Tie Ltd. ("MATL"). MATL is incorporated under the Canadian Business Corporations Act #634471-2, headquartered at Rocky Mountain Plaza, Suite 800, 615 Macleod Trail SE, Calgary, Alberta, T2G 4T8, Canada.

B. Legal Name of All Partners

MATL is the sole applicant.

C. Communications and Correspondence

All communications and correspondence regarding this application should be addressed to:

Mr. Bob Williams
Vice President Regulatory
Montana Alberta Tie Ltd.
Rocky Mountain Plaza
Suite 800
615 Macleod Trail SE
Calgary, Alberta, Canada

T2G 4T8
Phone: (403) 264-4465
Fax: (403) 265-1299
Email: bob.williams@matl.ca

D. Foreign Ownership and Affiliations

Neither MATL nor its transmission facilities are owned wholly or in part by a foreign government or directly or indirectly assisted by a foreign government or instrumentality thereof; or whether the applicant has any agreement pertaining to such ownership by or assistance from any foreign government or instrumentality thereof.

E. Existing Foreign Contracts

MATL does not have any existing contracts with any foreign government, or any foreign private concerns, relating to any purchase, sale or delivery of electric energy. MATL does not intend to apply for an authorization to export electricity.

F. Compliance with Law

As set forth in an opinion of counsel attached as Exhibit 1, the construction, connection, operation and maintenance of the proposed project is within the corporate power of MATL, and MATL has complied with or will comply with all pertinent Federal and State laws.

II. Information Regarding the Proposed Transmission Facilities Subject to the Presidential Permit

A. Introduction

MATL proposes to construct and operate a 240/230-kV AC merchant transmission line between Great Falls, Montana and Lethbridge, Alberta. The approximate 200-mile line would connect the Alberta Interconnected Electrical System operated by the Alberta Electric System Operator ("AESO") and NorthWestern Energy's ("NWE") transmission system. The connections will be made at NorthWestern's 230 kV substation just north of Great Falls, at the Glacier Electric Cooperatives substation at Cut Bank, and a new substation North East of Lethbridge. Though both systems are part of the Western Interconnection, a phase shifting transformer will be installed at the Lethbridge substation to control power flows between the two regions. Figure 1 shows the location of the proposed project and key ancillary facilities.

The proposed project would be the U.S.' first power transmission interconnection with the Alberta Interconnected Electrical System and is expected to facilitate development of additional sources of generation (e.g., wind farms both in northern Montana and southern Alberta) and improve transmission system reliability in Montana, Alberta, and on a regional basis in both the U.S. and Canada. In addition, the project would promote increased trade in electrical energy across the international border, and provide a transmission route to balance energy surplus/shortage situations in an efficient and economic manner.

MATL commissioned detailed power system studies that indicated clear and significant benefits from the proposed project to transmission in both Alberta and Montana. These studies included modeling using Western Electrical Coordinating Council ("WECC") guidelines, and concluded that the proposed MATL project is technically feasible and would be capable of transferring 300 MW north to south, or 300 MW south to north, under steady state (all transmission in service) conditions. Some transfer limitations could occur during extreme Alberta-British Columbia counter flow situations because the limit of the phase shifting transformer would be reached. MATL has initiated the WECC path rating approved process and will forward the approval to the DOE upon receiving the document.

A more detailed description of the proposed project is provided in the application prepared for the State of Montana's Major Facility Siting Act ("MFSA") entitled *Montana Alberta Tie Ltd. Project, 230-kV Power Transmission Line, Lethbridge, Alberta - Great Falls, Montana*, a preliminary copy of which is included with this report.

B. Technical Description

A technical description of the project is set forth in Table 1 in the form of specifications:

Table 1 - Technical Specifications

| Item | Specification |
|---|---|
| Number of Circuits | Single circuit overhead |
| Operating Voltage and Frequency | 240 kV/230 kV, 60 Hz |
| Conductor Size, Type and Number of Conductors per Phase | Curlew; 1033.5 kcmil; aluminum with steel reinforcing strands (ACSR); one conductor per phase |
| Wind and Ice Loading Design Parameters | ½ inch ice, with a wind pressure of 8.3 lb/ft ² |
| Description and Drawing of Typical Structure | Refer to Table Two: Structural Diagrams |
| Structure Spacing with Typical Ruling and Maximum Spans | Typical span: 788 feet, Maximum span: 906 feet |
| Conductor Phase Spacing | 21 feet |
| Design Line to Ground & Conductor Side Clearances | 21 feet for both clearances based on "H" frame structures |

In Table 2 is a series of diagrams attached to this document in Exhibit 2 with more technical and structural details.

Table 2 - Structural Diagrams

| | |
|--|------------------|
| 240kV H-Frame Tangent STR. Type 1 and Type 2 | MATLP-43-D1-0003 |
| 240kV H-Frame Tangent STR. Assemblies Type 1 and Type 2 | MATLP-43-D1-0003 |
| 240kV H-Frame Tangent STR. | MATLP-43-D1-0004 |
| 240kV H-Frame Light Angle Assemblies | MATLP-43-D1-0004 |
| Three Pole 240kV Medium Angle Structure with Two Overhead Shield Wires | MATLP-43-D1-0005 |
| Three Pole 249kV Medium Angle Structure With 2 OHSW Assembly Drawings | MATLP-43-D1-0005 |
| Three Pole 249kV Medium Angle Structure with 2 OHSW Assembly Drawings | MATLP-43-D1-0005 |
| Three Pole 240kV Heavy Angle Structure with Two Overhead Shield Wires | MATLP-43-D1-0006 |
| Assemblies | MATLP-43-D1-0006 |
| Assemblies | MATLP-43-D1-0006 |
| Three Pole 240kV Deadend Structure with Two Overhead Shield wires | MATLP-43-D1-0007 |
| Assembly Drawings | MATLP-43-D1-0007 |
| Assembly Drawings | MATLP-43-D1-0007 |
| Standard Setting Method For Dead-Ends | MATLP-43-D1-0001 |
| Steel Pipe Foundation | MATLP-43-D1-0002 |
| Type SS Triple Helix Anchor | MATLP-43-D1-0001 |
| Type SS Triple Helix Anchor | MATLP-43-D1-0002 |
| Slug Anchor | MATLP-43-D1-0003 |

In Figure 1 the location of the MATL Line and Key Ancillary Facilities are represented.

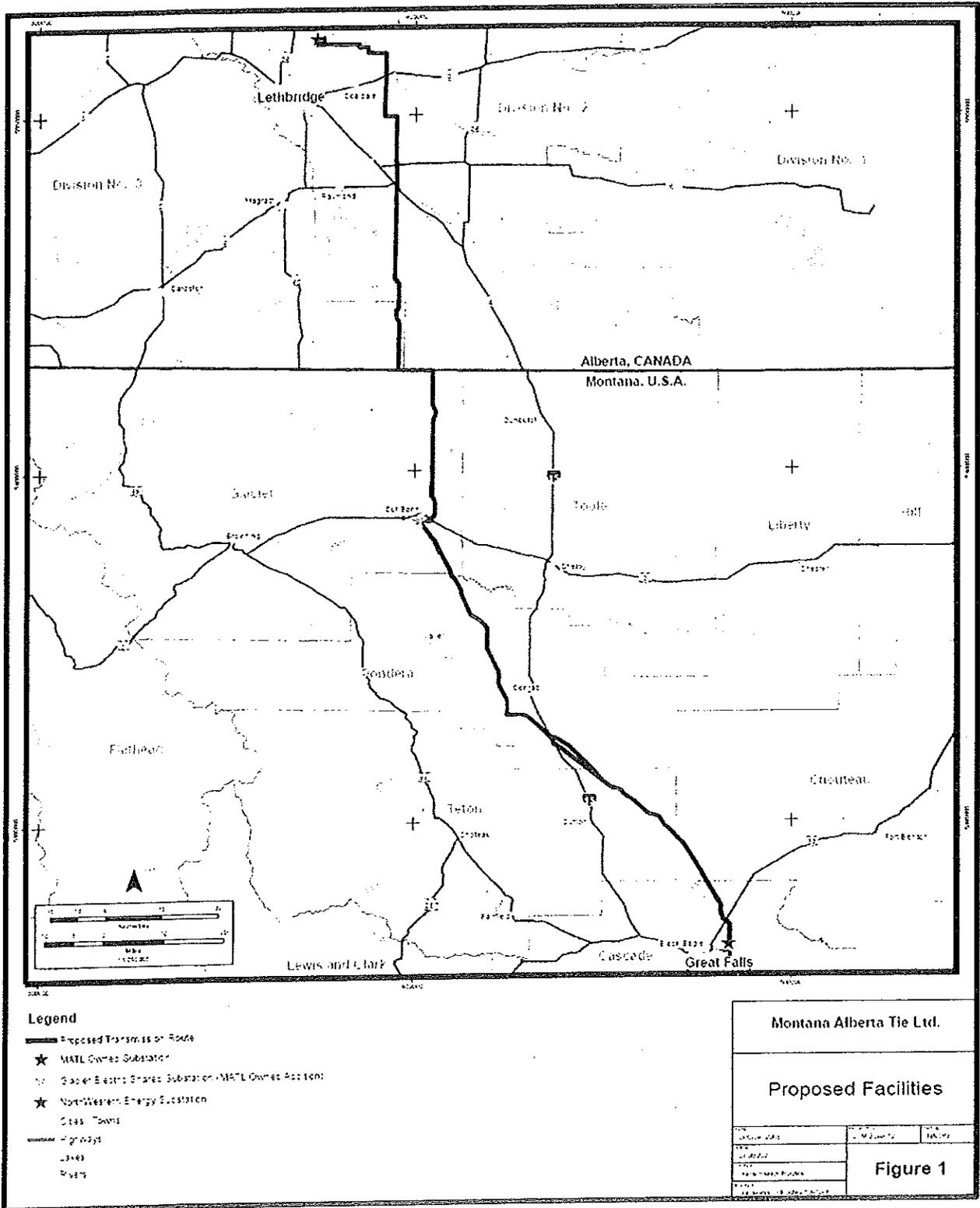


Figure 2 is the detailed map of the International Border Crossing.

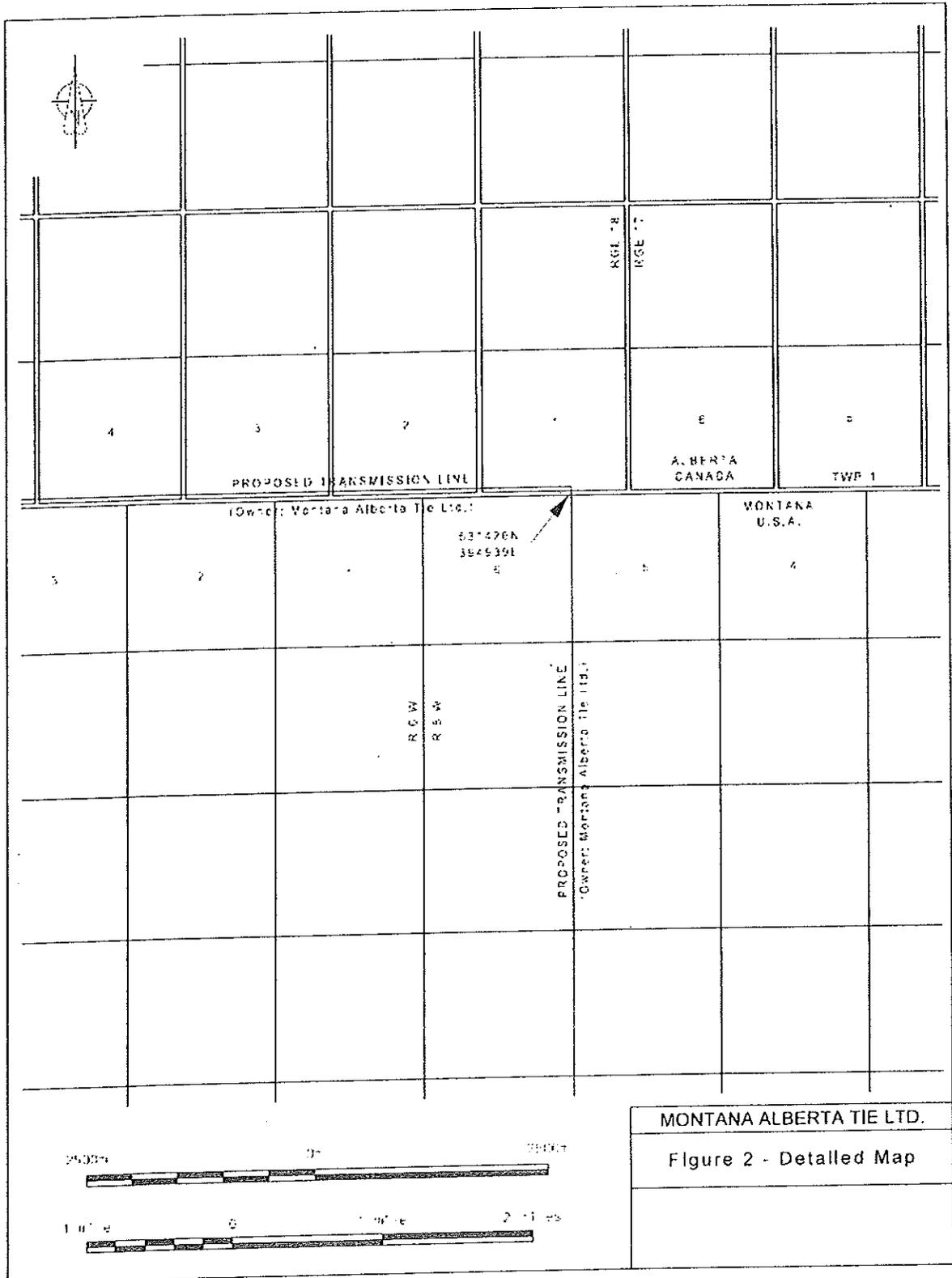


Table 3 – Bulk Power System Information

| | |
|--|---|
| Expected Power Transfer | 300 MW |
| Short Time Emergency Conductor Rating | <ul style="list-style-type: none"> - Normal rating is defined as summer and winter ratings, based on conductor configuration and temperature. - The emergency rating as 110% of the winter normal rating for a duration of 10 minutes |
| System Power Flow Plots | To be Addressed in 1) the WECC path rating process, which is underway and 2) NorthWestern Energy Systems Studies |
| Line Design Features for Minimizing Television and/or Radio Interference | The design shall comply with IEEE standard L50 for audible noise, TV and radio interference. |
| Relay Protection Scheme | The required protection scheme will be based on systems studies to be conducted by NorthWestern Energy in Montana and Alberta Electric System Operator in Alberta. The relay protection schemes will follow WECC reliability and local control area criteria. |

C. Information Regarding Environmental Impacts

Environmental Impacts are being addressed in the Montana Major Facilities Siting Application. A partial application comprised of Sections 1.0, 2.0, and 3.0 is attached.

An assessment of the potential environmental impacts resulting from the construction, operation, maintenance and decommissioning of the proposed facilities is being prepared. This assessment will include, but not necessarily be limited to, comparison of each practical project alternative for:

- navigable waterway crossings,
- floodplains,
- wetlands,
- critical wildlife habitat,
- threatened or endangered biota,
- tribal lands; and
- historic or recreational use sites.

The assessment will be prepared according to applicable DOE and National Environmental Policy Act (“NEPA”) guidance documents and direction, and will include a comparison of practical alternatives, rationale for selection of right-of-way widths, and a general discussion of the environmental impact of each alternative.

D. Verification

This application has been verified by an officer of the applicant having knowledge of the matters set forth above, as provided in Exhibit 3.

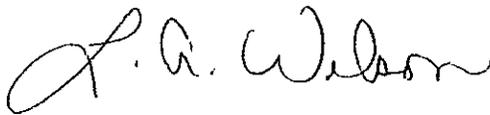
E. Outstanding Information

The following Table 3 summarizes the information that will be provided at a later date.

Table 4 – Outstanding Information

| Information | Anticipated Date of Filing |
|---|----------------------------|
| Montana Major Facilities Siting Application | October 2005 |
| WECC Path Rating | May 2006 |
| NorthWestern Energy Systems Study | December 2005 |

Respectfully submitted,



Lorry Wilson
Chief Executive Officer
Montana Alberta Tie Ltd.
Rocky Mountain Plaza
Suite 800
615 Macleod Trail SE
Calgary, Alberta, Canada
T2G 4T8
Phone: (403) 264-4465
Fax: (403) 265-1299
Email: lorry.wilson@matl.ca

Our File: 194771

Your File:

John P. Carleton
Direct Phone: (403) 267-9406
E-mail: john.carleton@macleoddixon.com

Lynn Hardy
Assistant
Direct Phone: (403) 267-9456
E-mail: lynn.hardy@macleoddixon.com

September 30, 2005

U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
1000 Independence Ave. SW
Washington, D.C.

Dear Sir:

Re: Montana Alberta Tie Ltd. Application for a Presidential Permit

We are counsel to Montana Alberta Tie Ltd. ("MATL"). This opinion is delivered to you pursuant to 10 CFR 205.322(a)(6) which requires that an opinion of counsel be included in the Presidential Permit application in respect of the proposed Montana Alberta Tie Project.

We have reviewed the incorporation documents of MATL as contained in its minute books as provided to us. We have also reviewed the draft of MATL's Application for a Presidential Permit to the U.S. Department of Energy dated September 30, 2005.

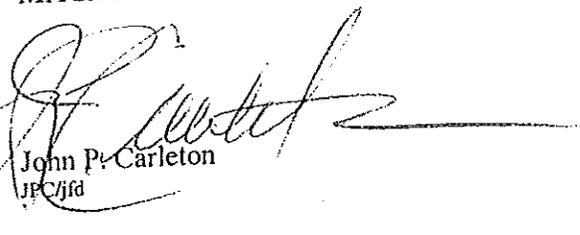
Based solely upon such reviews, we are of the opinion that the project proposed under MATL's Application for a Presidential Permit is within the corporate power of MATL.

The opinion expressed above is limited to the laws of the Province of Alberta and the federal laws of Canada applicable therein in force on the date hereof.

This opinion is provided solely for your benefit in connection with MATL's Application for a Presidential Permit and may not be relied upon for any purpose or by any other person.

Yours very truly,

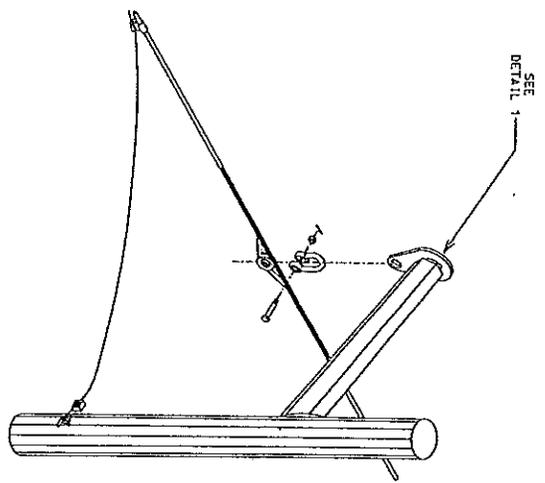
MACLEOD DIXON LLP


John P. Carleton
JPC/jfd

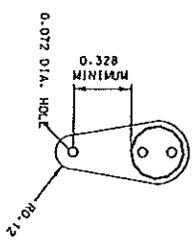
| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|---|
| 1 | SNC13 | SUSPENSION PIPED TANGENT STR. |
| 1 | SNC13 | CONNECTOR, WEDGE TYPE |
| 1 | SNC13 | CARTRIDGE, COLOR CODE RED |
| 1 | SNC13 | SHACKLE TWISTED W/BOLT, 50 KN |
| 1 | SNC13 | CLAMP, GROUND, BRZ 1/2 HH BOLT TANALUT |
| 1 | SNC13 | WIRE, #10GSR STD OR S8 FOR QND DOWNLEAD |

| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|---|
| 1 | SNC14 | BULB TYPE GUY 50MM X 25 MM OVAL 1111 KN |
| 1 | SNC14 | CLAMP SOCKET SUSPENSION |
| 1 | SNC14 | SHACKLE CHAIN W/ BOLT, 80 KN |
| 1 | SNC14 | INSULATOR SYN. SOC-BALL, SIL. 200KV |

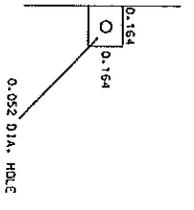
| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|---------------------------------------|
| 1 | SNC4 | CONNECTOR, 420 OR 440 TO FLAT SURFACE |
| 1 | SNC4 | WIRE, CU SOLID, 50 BARE #4 |
| 1 | SNC4 | ROD, GROUND, 50" X 1/2 STEEL |



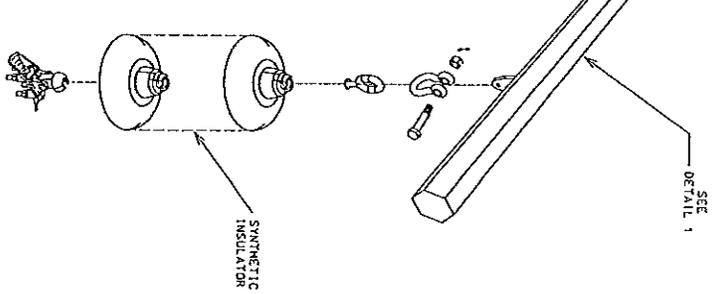
ASSEMBLY SNC 13
STEEL ARM



DETAIL 1
ATTACHMENT DETAIL

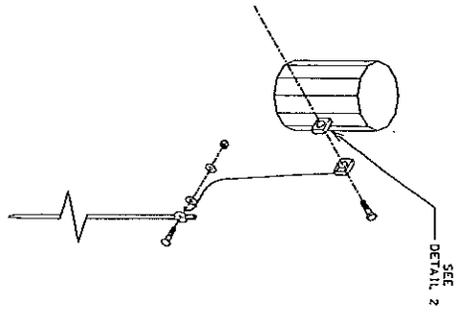


DETAIL 2
GROUNDING TAB



ASSEMBLY SNC 114

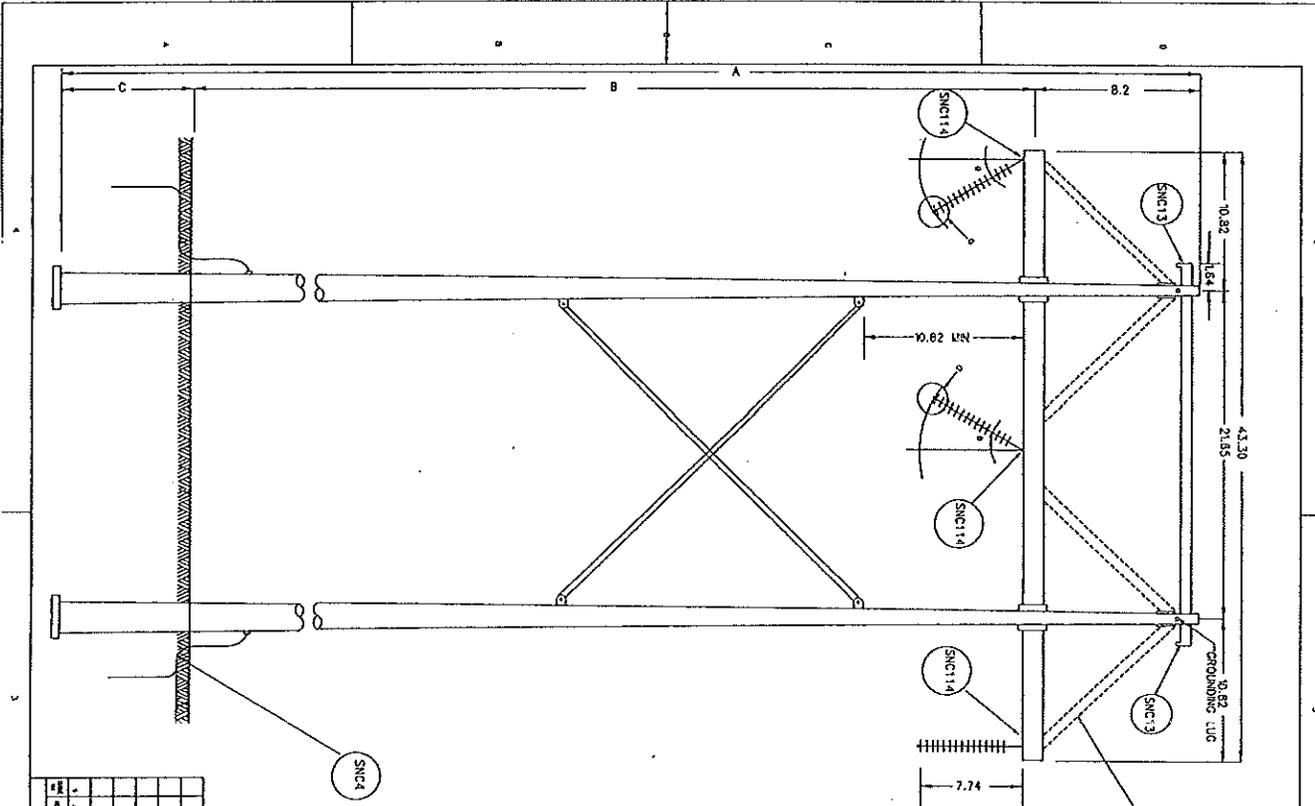
NOTE:
1. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS
ARE IN FEET.



ASSEMBLY SNC 4

| NO. | DESCRIPTION | ISSUE | REVISED | DATE | BY | CHKD. | APP'D. |
|-----|-------------|-------|---------|------|----|-------|--------|
| 1 | ISSUE | 1 | | | | | |
| 2 | ISSUE | 2 | | | | | |
| 3 | ISSUE | 3 | | | | | |
| 4 | ISSUE | 4 | | | | | |
| 5 | ISSUE | 5 | | | | | |
| 6 | ISSUE | 6 | | | | | |
| 7 | ISSUE | 7 | | | | | |
| 8 | ISSUE | 8 | | | | | |

PROJECT: MONTANA-ALBERTA TIE LINE
 SHEET: 3 OF 3
 DATE: 08-20-03
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 PROJECT: 240 KV M-AL TANGENT STR. ASSEMBLIES TYPE 1 AND TYPE 2
 PROJECT NO: MTL-P-43-01-0003



| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|--|
| 3 | SNC114 | BALL-BEY GUY SOAM W/ES WM OVAL 111 KN |
| 2 | SNC114 | CLAMP GROUND BRZ 1/2 H.H. BOLT L/WK/UT |
| 5 | SNC4 | WIRE CU SOLID, BRZ 1/2 H.H. BOLT L/WK/UT |
| 2 | SNC3 | WIRE #24CSR STD OR S8 FOR GND DOWNLEAD |
| 2 | SNC4 | CONNECTOR #20 OR #40 TO FLAT SURFACE |
| 2 | SNC3 | CONNECTOR, WEIGOS-TYPE |
| 2 | SNC3 | CARRIER, COLOR CODE RED |
| 2 | SNC114 | CLAMP SOCKET SUSPENSION |
| 2 | SNC3 | RIGID GROUND BRZ 1/2 LK STEEL |
| 2 | SNC3 | SUSPNS PRPD TANGENT STR, S16* |
| 2 | SNC114 | SPACER, TWISTED W/BOLT, 90 KN |
| 2 | SNC114 | SPACER, CHAIN W/ BOLT, 90 KN |
| 3 | SNC114 | INSULATOR, SYN, SOCBALL, SIL, 240KV |

Structure: 240KV H-Frame Tangent Structure
 Deflection: 1 Degree Line Angle
 Conductor: 1033 kcmil ACSR Outlow
 O.H.S.W.: 516 Steel Grade 230
 O.P.G.W.: 16mm O.P.G.W. (To be determined)

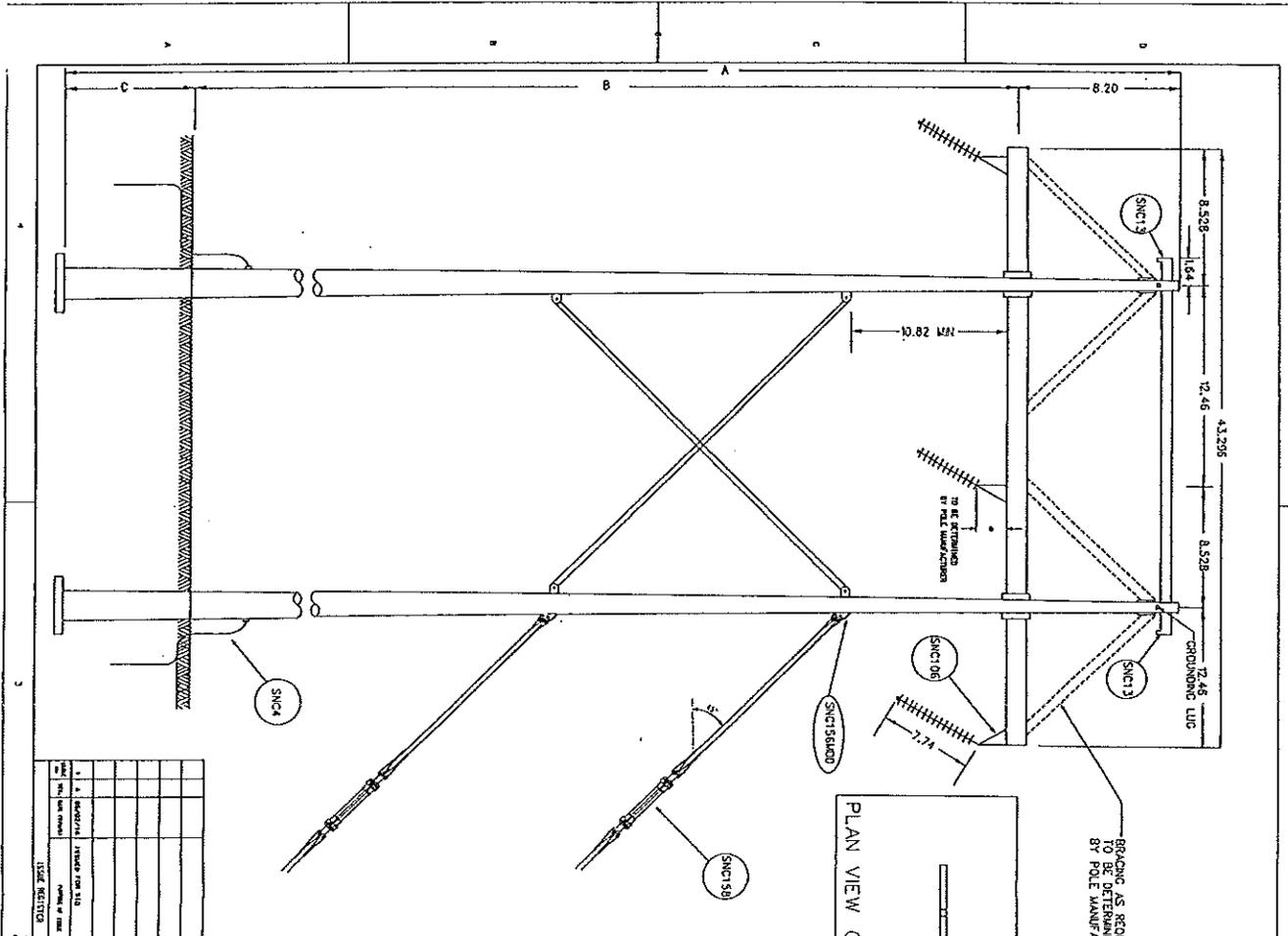
| Temp. | Wind | Swing | Clearance |
|-------|------|-------|-----------|
| (°C) | (Pa) | (ft) | (ft) |
| 4 | 0 | 10 | 5.88 |
| 4 | 87.5 | 95 | 2.10 |
| -30 | 500 | 50 | 2.78 |

| Pole Dimension | |
|----------------|-------|
| A | B |
| feet | m |
| 55 | 16.78 |
| 60 | 18.20 |
| 65 | 19.81 |
| 70 | 21.34 |
| 75 | 22.86 |
| 80 | 24.38 |
| 85 | 25.91 |
| 90 | 27.43 |

- General Notes:
1. Poles are to be designed and fabricated in accordance with ACSE Manual and reports No. 72 - Design of Steel Transmission Pole Structures, Second Edition.
 2. Steel poles to be designed for 200 lps/s soil.
 3. Flight to be galvanized or weathering steel.
 4. Pole to embed embedded 10% of pole height plus 4 feet.
 5. Stainless steel ground rib at peak top & near groundline are required.
 6. Ladder clips are required.
 7. Design calculations are to be included with bid for review by SNC-Lavalin ATP Inc.
 8. All dimensions to the centre of vane.
 9. All dimensions in feet.
 10. For assembly drawings see sheet 2.
 11. Pole fabrication shall be in accordance with SNC-Lavalin ATP Specification 99A504 "Fabrication of Tubular Steel Transmission Structures".
 12. Items on the structure need not be considered in design.

| NO. | DESCRIPTION | DATE | BY | CHECKED | DATE | BY |
|-----|-------------|------|----|---------|------|----|
| 1 | DESIGN | | | | | |
| 2 | REVISION | | | | | |
| 3 | REVISION | | | | | |
| 4 | REVISION | | | | | |
| 5 | REVISION | | | | | |
| 6 | REVISION | | | | | |
| 7 | REVISION | | | | | |
| 8 | REVISION | | | | | |
| 9 | REVISION | | | | | |
| 10 | REVISION | | | | | |
| 11 | REVISION | | | | | |
| 12 | REVISION | | | | | |

APPROVED: **SNC-LAVALIN**
 PROJECT: 240KV H-FRAME TANGENT STR.
 SHEET: 1 AND THREE
 DATE: 1997-01-03



| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|---|
| 4 | SNC156 | GLY STRAIN INSULATOR, 240KV, 100KV UTS |
| 3 | SNC114 | INSULATOR, SYN. SOCGALL, SIL, 240KV |
| 3 | SNC114 | SHACKLE CHAIN W. BOLT, 80 KN |
| 2 | SNC113 | SHACKLE TWISTED W/BOLT, 80 KN |
| 2 | SNC113 | SUSPEN. BRD TWINGRIP TYPES, 516 |
| 2 | SNC104 | ROD, GROUND, 5/8" X 8' STEEL |
| 3 | SNC114 | CLAMP SOCKET SUSPENSION |
| 8 | SNC156 | GRIP, PRFD 7/16 QTY 40, GREEN |
| 8 | SNC156 | GRIP, PRFD 7/16 QTY 40, GREEN |
| 2 | SNC113 | CARRIAGE, COLOR CODE RED |
| 2 | SNC113 | CONNECTOR, WEDGE-TYPE |
| 2 | SNC104 | CONNECTOR, #20 OR #40 TO FLAT SURFACE |
| 140 | SNC156 | WIRE, GUY/7 STR, STL, GR, 180/7676DIA |
| 2 | SNC113 | WIRE, #20CSR STD OR #8 FOR GND DOWNLEAD |
| 8 | SNC104 | WIRE, CU SOLID, SD BARE #4 |
| 2 | SNC113 | CLAMP, GROUND, BRZ, 1/2 HX BOLT W/HAULT |
| 3 | SNC114 | BALL-EYE QTY, 50MM X25 MM OVAL 111 KN |
| 4 | SNC156 | CLEVIS THIMBLE, GALV, 20MM SPREAD |

Structure: 240KV H-Frame Light Angle Structure
 Deflection: 5 Degree Line Angle
 Conductor: 1033 kcmil ACSR Curlew
 O.H.S.W.: 5716 Steel Grade 230
 OPCH: 16mm OPGW (To be determined)

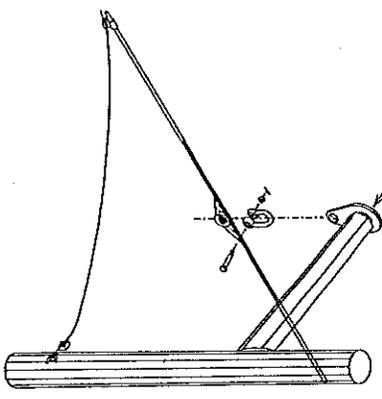
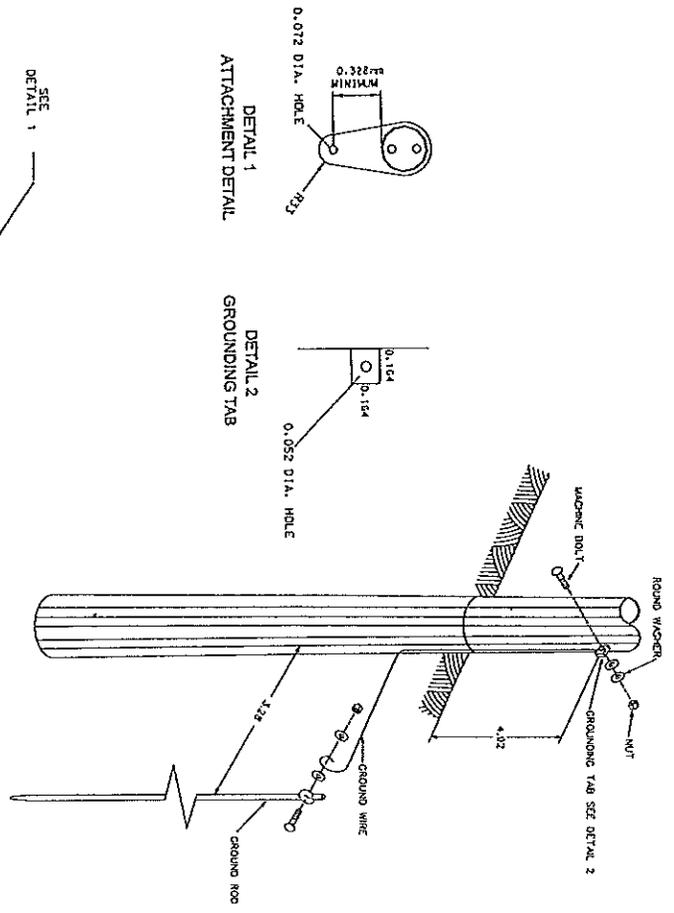
| Air Gap Requirements | | |
|----------------------|------------|------------|
| Temp. (C) | Wind (m/s) | Swing (ft) |
| 4 | 0 | 35 |
| 4 | 875 | 85 |
| -30 | 500 | 59 |

| Pole Dimensions | | |
|-----------------|-------|------|
| A | B | C |
| feet | m | feet |
| 55 | 16.76 | 37.3 |
| 60 | 18.29 | 41.8 |
| 65 | 19.81 | 46.3 |
| 70 | 21.34 | 50.8 |
| 75 | 22.86 | 55.3 |
| 80 | 24.38 | 59.8 |
| 85 | 25.91 | 64.3 |
| 90 | 27.43 | 68.8 |

- General Notes:
1. Poles are to be designed and fabricated in accordance with ACSE Manuals and reports No. 71 - Design of Steel Transmission Pole Structures, Second Edition.
 2. Base plates to be designed for 200MPa soil.
 3. Finish to be galvanized or weathering steel.
 4. Pole to direct embedded 10% of pole height plus 4 feet.
 5. Stabilize steel ground tab at pole top & near groundline are required.
 6. Ladder clips are required.
 7. Design calculations are to be included with bid for review by SNC-Lavalin ATP Inc.
 8. All dimensions in feet.
 9. All dimensions to the center of vangs.
 10. For assembly drawings see sheet 2 and 3.
 11. Pole fabrication shall be in accordance with SNC Lavalin ATP Specification H&S-C-04.
 12. Fabrication of tubular steel Transmission Structures.
 13. Tying on the structure need not be considered in design.

| MATERIAL AND ITEM LIST FOR STRUCTURE SNC13 | |
|--|--|
| QTY | ASSEMBLY DESCRIPTION |
| 1 | SNC13 SUSPENSION TOWER 518" |
| 1 | SNC13 CONNECTOR, MESSER-TYPE |
| 1 | SNC13 CARTRIDGE, COLOR CODE RED |
| 1 | SNC13 SPACER, TWISTED WIRE, 30 IN |
| 1 | SNC13 CLAMP, GROUND BRZ, 1/2" X 1/4" BOLT TWAKUT |
| 1 | SNC13 WIRE #24GCR STD OR SB FOR GND DOWNLEAD |

| MATERIAL AND ITEM LIST FOR STRUCTURE SNC4 | |
|---|--|
| QTY | ASSEMBLY DESCRIPTION |
| 1 | SNC4 CONNECTOR, #20 OR #40 TO FLAT SURFACE |
| 3 | SNC4 WIRE, CU SOLID, SD BARE #4 |
| 1 | SNC4 ROD, GROUND, 5/8" X 8' STEEL |



NOTE
1. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS
ARE IN FEET.

| REVISIONS | | REVISION REGISTER | |
|-----------|--------------------|-------------------|----|
| NO. | DESCRIPTION | DATE | BY |
| 1 | ISSUED FOR BIDDING | | |
| 2 | ISSUED FOR BIDDING | | |
| 3 | ISSUED FOR BIDDING | | |
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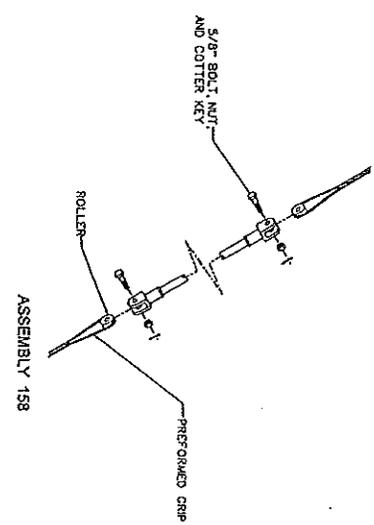
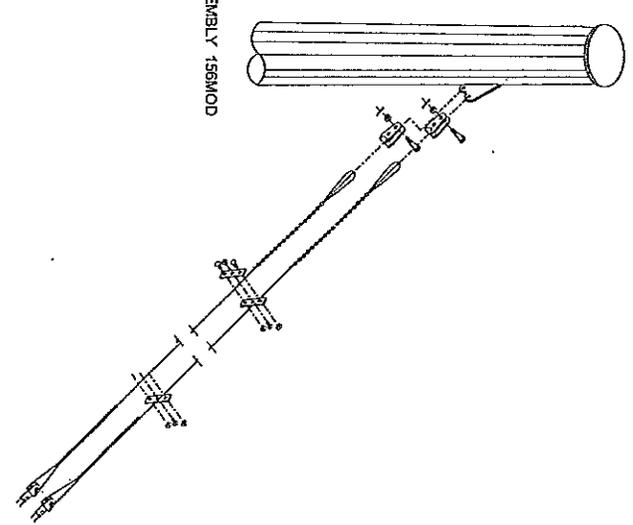
MONTANA ALBERTA TIE LTD.
 240 KV H-FRASE LIGHT ANGLE ASSEMBLIES
 DRAWING NO. MAT-P-3-01-0004
 SHEET 1 OF 3

| SECTION | DESCRIPTION |
|---------|---|
| 1 | VERTICAL AND TYPICAL SECTION DISSECTION |
| 2 | ASSEMBLY |
| 3 | DISSECTION |
| 4 | DISSECTION |
| 5 | DISSECTION |

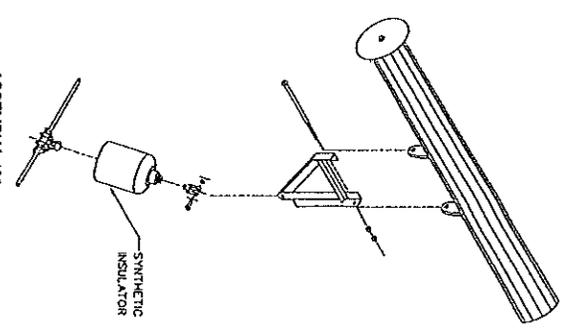
| SECTION | DESCRIPTION |
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| 2 | ASSEMBLY |
| 3 | DISSECTION |
| 4 | DISSECTION |
| 5 | DISSECTION |

| SECTION | DESCRIPTION |
|---------|---|
| 1 | VERTICAL AND TYPICAL SECTION DISSECTION |
| 2 | ASSEMBLY |
| 3 | DISSECTION |
| 4 | DISSECTION |
| 5 | DISSECTION |

ASSEMBLY 156MOD



ASSEMBLY 106



| SECTION | DESCRIPTION |
|---------|---|
| 1 | VERTICAL AND TYPICAL SECTION DISSECTION |
| 2 | ASSEMBLY |
| 3 | DISSECTION |
| 4 | DISSECTION |
| 5 | DISSECTION |

| SECTION | DESCRIPTION |
|---------|---|
| 1 | VERTICAL AND TYPICAL SECTION DISSECTION |
| 2 | ASSEMBLY |
| 3 | DISSECTION |
| 4 | DISSECTION |
| 5 | DISSECTION |

MATL P-43-01-0004

REVISIONS

REVISIONS

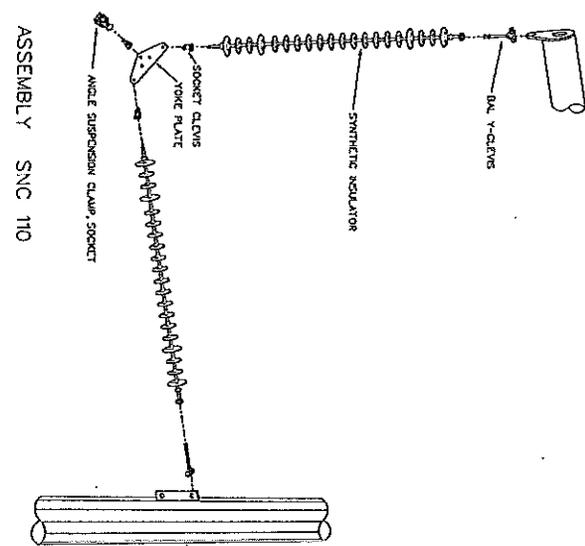
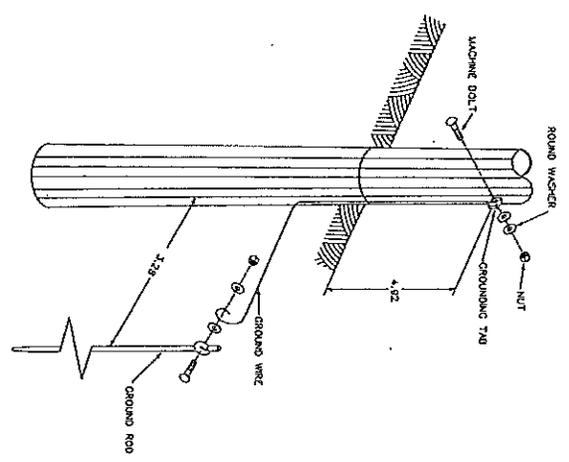
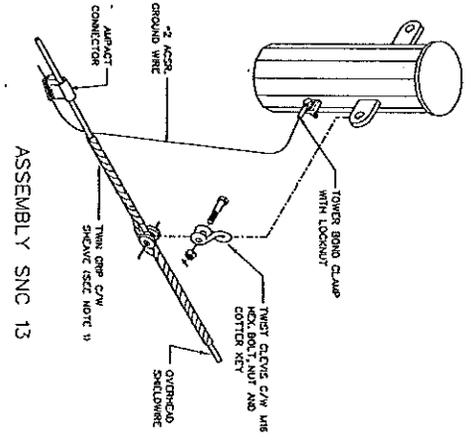
REVISIONS

REVISIONS

| QTY | ASSEMBLY | DESCRIPTION |
|-----|-----------------------------|--|
| 1 | SUSPENSION TOWER, TYPE 575* | |
| 1 | SNC13 | CONNECTOR, WEDGE TYPE |
| 1 | SNC13 | CARTRIDGE, COLOR CODE RED |
| 1 | SNC13 | SHOCK TWISTED WIRE, 20 MM |
| 1 | SNC13 | CLAMP, GROUND, 8/2 1/2 H. BOLT TYPICAL |
| 1 | SNC13 | WIRE #20GK STD OR 3/8 FOR GND DOWNLEAD |

| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|--------------------------------------|
| 1 | SNC4 | CONNECTOR #20 DR #40 TO FLAT SURFACE |
| 1 | SNC4 | WIRE GIL SOLID, SD BARE #4 |
| 1 | SNC4 | ROD, GROUND, 3/8" X 8' STEEL |

| QTY | ASSEMBLY | DESCRIPTION |
|-----|----------|--|
| 1 | SNC10 | SOCKET-CLAWS, GUY, 3/8MM O.D. 23MM L, #178 |
| 1 | SNC10 | BALL-CLAWS, GUY, 3/8MM O.D. 23MM L, #178 B |
| 1 | SNC10 | PLATE, YOK, 1/8 SPACING |
| 1 | SNC10 | BALL-YOK/SLAY, HIL BRGMM L, W20 SILET |
| 1 | SNC10 | ROD, ARMOUR, PREP AL GURELWV2, SABLE L2 |
| 1 | SNC10 | CLAMP, ANGLE SLIP, SOCK, 1.40-2.18 |
| 1 | SNC10 | INSULATOR, SYN SOC-BALL, SIL, 240KV |



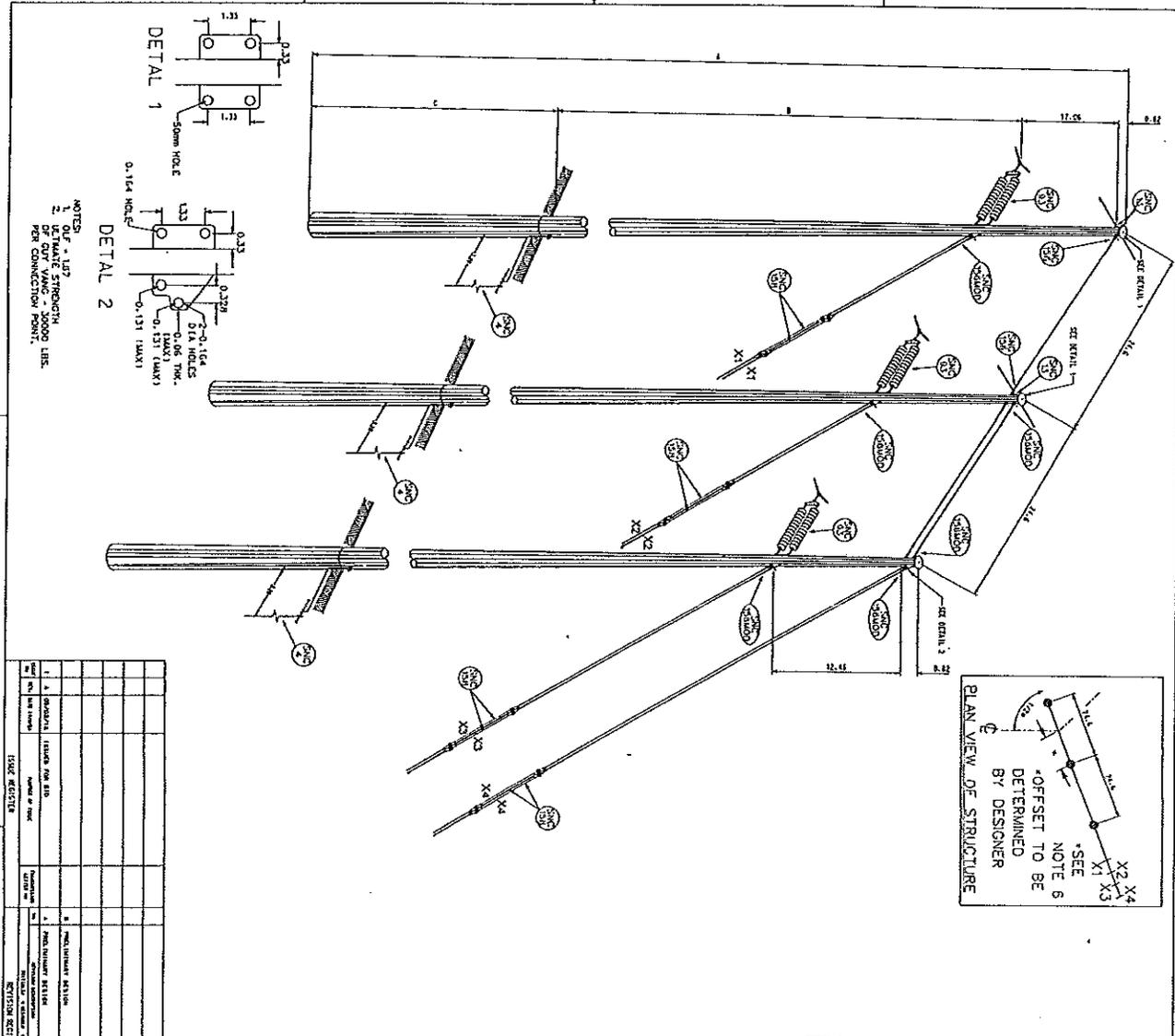
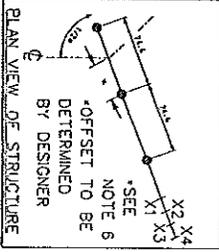
NOTE:
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| REV | DATE | DESCRIPTION |
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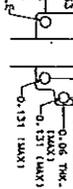
PROJECT: MONTANA-ALBERTA TIE LINE
 DRAWING NO: TREL-594W-MOD-114
 TITLE: ANGLE STRUCTURE WITH 2 DRW
 ASSIGNED: B. BARKINS

DATE: 11/19/43-01-0005

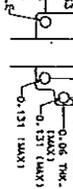


NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

DETAIL 1



DETAIL 2



| ITEM NO. | DESCRIPTION | QTY | UNIT | REMARKS |
|----------|-------------|-----|------|---------|
| 1 | POLE | 1 | EA | |
| 2 | POLE | 1 | EA | |
| 3 | POLE | 1 | EA | |
| 4 | POLE | 1 | EA | |
| 5 | POLE | 1 | EA | |
| 6 | POLE | 1 | EA | |
| 7 | POLE | 1 | EA | |
| 8 | POLE | 1 | EA | |
| 9 | POLE | 1 | EA | |
| 10 | POLE | 1 | EA | |
| 11 | POLE | 1 | EA | |
| 12 | POLE | 1 | EA | |
| 13 | POLE | 1 | EA | |
| 14 | POLE | 1 | EA | |
| 15 | POLE | 1 | EA | |
| 16 | POLE | 1 | EA | |
| 17 | POLE | 1 | EA | |
| 18 | POLE | 1 | EA | |
| 19 | POLE | 1 | EA | |
| 20 | POLE | 1 | EA | |

- General Notes:
1. Poles are to be designed and fabricated in accordance with ASCE Materials and Design No. 72 - Design of Steel Transmission Pole Structures, Second Edition.
 2. Base plates to be designed for 200kPa soil.
 3. Poles to be galvanized or weathering steel.
 4. Poles to be galvanized or weathering steel.
 5. All dimensions are to the center of the pole.
 6. All dimensions are to the center of the pole.
 7. Ladder clips are required.
 8. Design calculations are to be included with bid for review by SNC-Lavalin ATP Inc.
 9. All dimensions are in feet.
 10. For assemblies are sheet 2 and 3.
 11. Outside pole is 5 feet shorter.
 12. Pole fabrication shall be in accordance with SNC Lavalin ATP Specification 8845-04 "Fabrication of Tubular Steel Transmission Structures".
 13. Loading on the structure need not be considered in design.

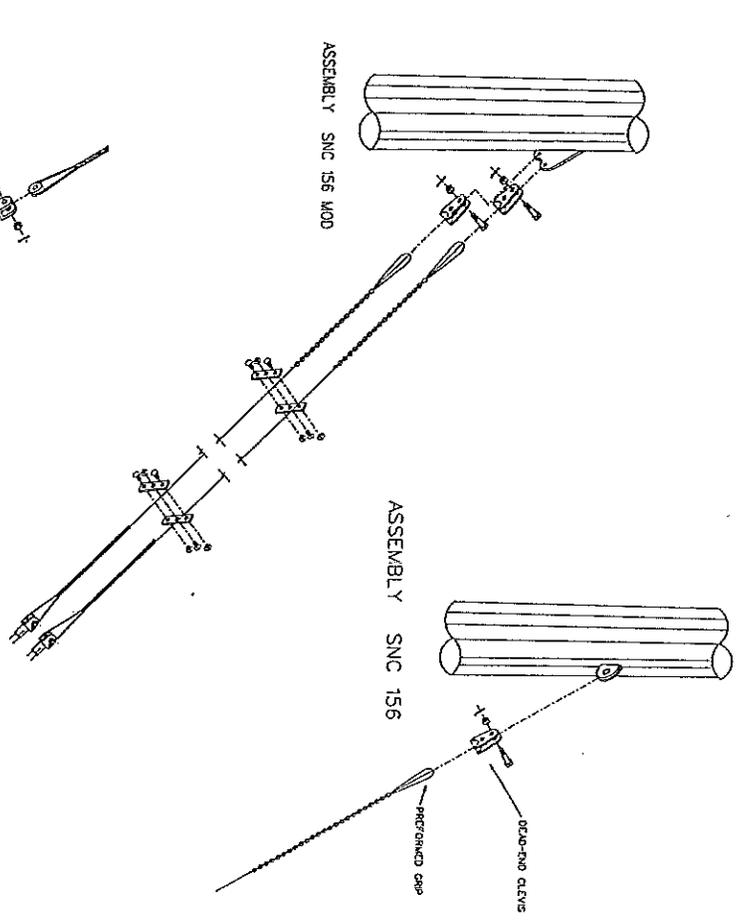
| Temp. | Wind | Swings | Clearance |
|-------|------|------------|-----------|
| (C) | (Pa) | ft-Degrees | (ft)-mm |
| 0 | 70 | 67 | 5.58 |
| 4 | 875 | 51 | 40 |
| 30 | 500 | 82 | 64 |
| | | | 2.78 |

| Pole Dimensions | |
|-----------------|----|
| A | B |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |

Structure: 240kV 3 Pole Heavy-Angle Structure
 Deflection: 20 to 45 Degree Line Angle
 Conductor: 1033 kcmil ACSR Copper
 O.H.S.W.: 576" Steel Grade 220
 O.P.G.W.: 16mm O.P.G.W. (To be determined)

| QTY | ASSEMBLY | DESCRIPTION |
|-----|------------------------|--|
| 2 | SNC03 | SOCKET-CLAVIS, G.I.V. 38MM D. 22MM S. M16 |
| 14 | SNC156, 156M0D | CLAMP, THINBLE, GALV. 20MM SPREAD |
| 2 | SNC03 | PLATE, VORSE, 16 SPACING |
| 2 | SNC03 | BALL, 162MM G.I.V. H.L. 89MM L. N20 BLT |
| 2 | SNC16M0D | CLAMP, GUY, GALV. 16MM BOLT, 3 BOLT STRAIGHT |
| 0 | SNC04 | CLAMP, GROUND, BRZ. 1/2" H.H. BOLT TWANUT |
| 0 | SNC04 | WIRE, CU, SOLID, 50 BARE #4 |
| 2 | SNC13 | WIRE, #2ACSR STD OR S8 FOR GND DOWNLEAD |
| 300 | SNC156, 156M0D | WIRE, GUY, 7 STR. 57L, GR. 180, 7/8" DIA. |
| 2 | SNC04 | CONNECTOR, #20 OR #40 TO FLAT SURFACE |
| 2 | SNC13 | CONNECTOR, WIRE, 2-TYPE |
| 2 | SNC13 | CARTRIDGE, COLOR, CODE RED |
| 44 | SNC156, 156M0D, SNC151 | GRIP, 1800 ZINC GUY, 40, GREEN |
| 1 | SNC03 | ROD, ANCHOR, BRZD AL, CURVED, 5/8" DIA, L/2 |
| 1 | SNC03 | CLAMP, ANCHOR, SUSP, SOCK, 1, 402-2/8 |
| 2 | SNC04 | ROD, GROUND, 5/8" X 5' STEEL |
| 2 | SNC04 | SUSPENSION, PERD THINBLE, TYPES 576" |
| 2 | SNC13 | SPACER, TWISTED W/ BOLT, 80 MM |
| 2 | SNC03 | INSULATOR, STRN, SOC-BALL, STL, 240KV |
| 0 | SNC156 | GUY STRAIN INSULATOR, 240KV, 1000KV UTS |

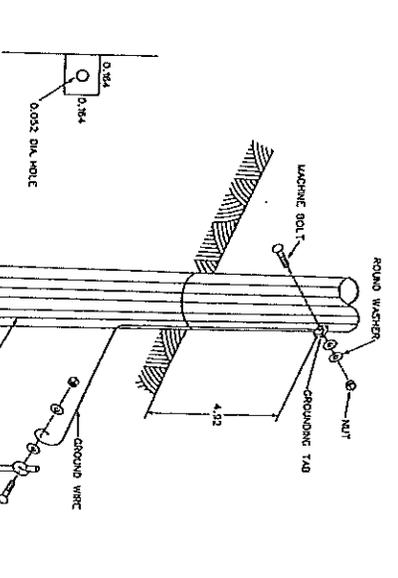
DATE: 11/11/11
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT: THREE POLE 240KV HEAVY ANGLE STRUCTURE WITH OVERHEAD SHIELD WIRE



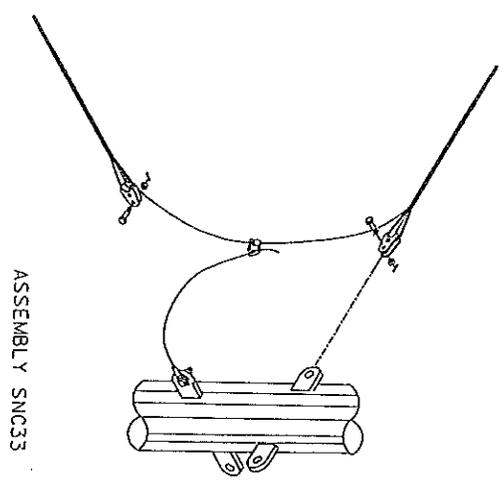
| MATERIAL AND ITEM LIST FOR STRUCTURE SNC158 | |
|---|--|
| QTY | ASSEMBLY DESCRIPTION |
| 1 | SNC158MOD CLEWS, THIMBLE, GUY, 20MM SPREAD |
| 2 | SNC158MOD GRIP PRFD 7/16 GUY 20 GREEN |
| 20 | SNC158MOD WIRE GUY 7 STR. STL. GR. 180/716DIA |
| MATERIAL AND ITEM LIST FOR STRUCTURE SNC156 | |
| QTY | ASSEMBLY DESCRIPTION |
| 1 | SNC156 GUY STRAIN INSULATOR 200KV, 1000X UTS |
| 2 | SNC156 GRIP PRFD 7/16 GUY 20 GREEN |
| 4 | SNC156MOD CLEWS, THIMBLE, GUY, 20MM SPREAD |
| 50 | SNC156MOD WIRE GUY 7 STR. STL. GR. 180/716DIA |
| 2 | SNC158MOD CLAMP GUY (GUY/3/8 BOLT) 3 BOLT STRAIGHT |

| PROFITABLE UNIT | | PROFITABLE UNIT | |
|-----------------|-------------|-----------------|-------------|
| QTY | DESCRIPTION | QTY | DESCRIPTION |
| 1 | SNC158 MOD | 1 | SNC158 MOD |
| 2 | SNC156 MOD | 2 | SNC156 MOD |
| 20 | SNC158 MOD | 20 | SNC158 MOD |

PROJECT: SNC158 MOD
 DRAWING: SNC158 MOD
 DATE: 1/1/81
 SHEET: 1 OF 1
 MATE-p-3-01-0005



DETAIL 1
GROUNDING TAB



ASSEMBLY SNC 4



ASSEMBLY SNC33

NOTE:
1. UNLESS OTHERWISE INDICATED ALL DIMENSIONS
ARE IN FEET.

| QTY | ASSEMBLY | DESCRIPTION |
|--|----------|---|
| 1 | SNC4 | CONNECTOR FOR 20 OR 40 TO 20 BOLT SURFACE |
| 1 | SNC4 | WIRE GA SOLID SQUARE #4 |
| 1 | SNC4 | ROD GROUND 40R X 4 FT STEEL |
| MATERIAL AND ITEM LIST FOR STRUCTURE SNC33 | | |
| QTY | ASSEMBLY | DESCRIPTION |
| 2 | SNC33 | CLAMP THIMBLE GALV ZNMM SPREAD |
| 1 | SNC33 | CLAMP GROUND BRZ 1/2 H BOLT W/ NUT |
| 1 | SNC33 | WIRE #2 ASSR STD OR SR FOR OHD DOWN LEAD |
| 1 | SNC33 | CONNECTOR WEDGE TYPE |
| 1 | SNC33 | CARTRIIDGE COLOR CODE RED |
| 1 | SNC33 | GRV GALV ERW GALV STEEL 5/8 |
| MATERIAL AND ITEM LIST FOR STRUCTURE SNC4 | | |
| QTY | ASSEMBLY | DESCRIPTION |
| 1 | SNC4 | ROCKET-BOLT GALV ZNMM 3/4 X 20MM S 1/16 |
| 1 | SNC4 | SHANKLE ANCHOR STEEL 1/2 X 22 X 1/2 |
| 1 | SNC4 | PLATE YONG 1/2 SPACING |
| 1 | SNC4 | BALL-Y-CLAMP GALV HI BONDAL W/2 H/T |
| 1 | SNC4 | CONNECTOR WEDGETYPE CLAMP ASSR STD |
| 1 | SNC4 | CARTRIIDGE COLOR CODE YELLOW |
| 1 | SNC4 | DIAPHRG 2 COUP CONN 1033 5 ASSR CBL |
| 1 | SNC4 | INSULATOR 57N 500-20ALL SL 2400V |

| NO | REV | DESCRIPTION | DATE | BY | CHKD |
|-----|-----|----------------|------|----|------|
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PROFESSIONAL SEAL

MONTEALBA ALBERTA TIE LTD.

MONTEALBA-ALBERTA TIE LINE

ASSEMBLY DRAWINGS

DATE: 1981-03-01

SCALE: 1/4" = 1'-0"

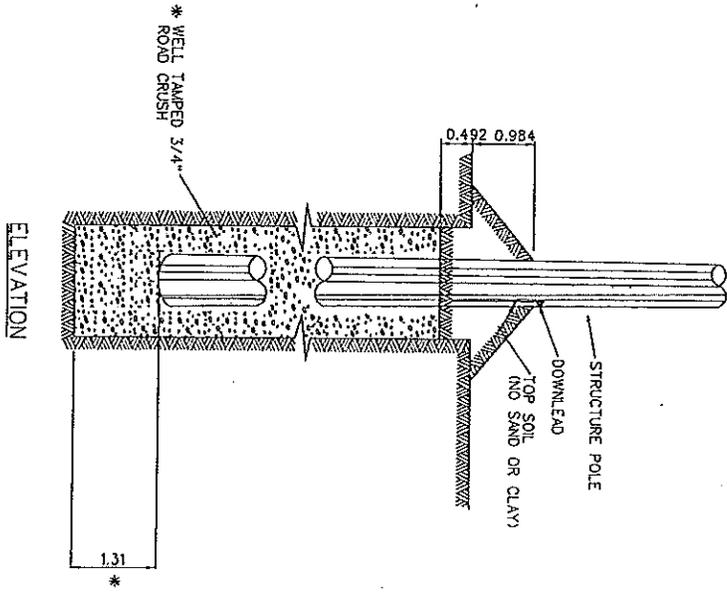
PROJECT: MONT-ALB-TIE

NO. 1



PLAN

* 0.656 MET



ELEVATION

- NOTES:
1. DEPTH - LENGTH OF POLE X 10% + 1.2m, UNLESS SPECIFIED ON STRUCTURE LIST.
 2. BACKFILL IS TO HAVE A SLOPE @ 45°-5° FROM THE OUTSIDE OF THE POLE TO THE EDGE OF THE ORIGINAL GROUND SURFACE AND IS TO BE TAPPED TO 85% PROCTOR. BENTONITE MAY BE USED IN WET AREAS.
 3. AUGER SIZE TO BE 36" OR 42", DETERMINED BY POLE DIAMETER.
 4. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE INDICATED.

| INDICATED | | INDICATED | | INDICATED | | INDICATED | | INDICATED | | | |
|-----------|--------------------------|-----------|-----------------------------|-----------|------------------------------|-----------|------------------------------|-----------|--------------------------------|----|-----------------------------|
| NO. | DESCRIPTION | NO. | DESCRIPTION | NO. | DESCRIPTION | NO. | DESCRIPTION | NO. | DESCRIPTION | | |
| 1 | REARVIEW MIRROR FOR BUS | 2 | REARVIEW MIRROR FOR TRUCK | 3 | REARVIEW MIRROR FOR VAN | 4 | REARVIEW MIRROR FOR CAR | 5 | REARVIEW MIRROR FOR MOTORCYCLE | 6 | REARVIEW MIRROR FOR BICYCLE |
| 7 | REARVIEW MIRROR FOR TRAM | 8 | REARVIEW MIRROR FOR TROLLEY | 9 | REARVIEW MIRROR FOR RAILROAD | 10 | REARVIEW MIRROR FOR AIRCRAFT | 11 | REARVIEW MIRROR FOR HELICOPTER | 12 | REARVIEW MIRROR FOR ROCKET |

REGISTRATION NO. 123456789

REGISTRATION EXPIRES 12/31/2024

REGISTRATION FEE \$100.00

REGISTRATION TAX \$10.00

REGISTRATION TOTAL \$110.00

REGISTRATION DATE 01/15/2024

REGISTRATION OFFICE 123456789

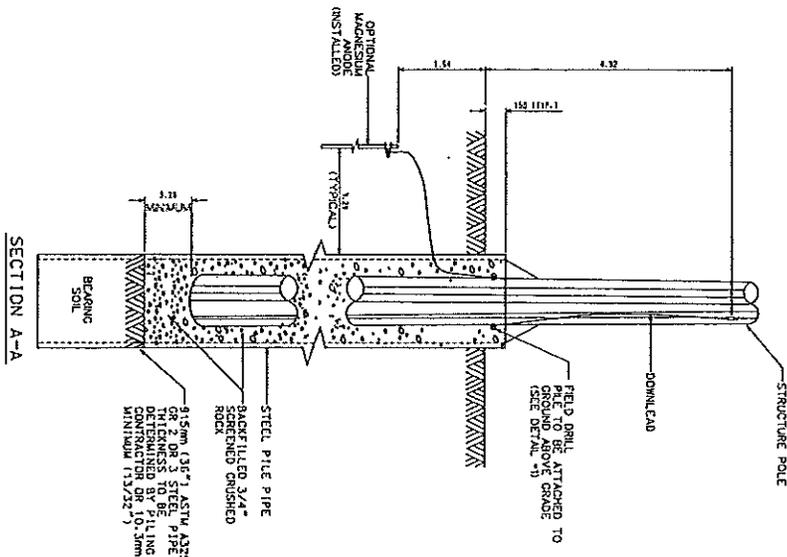
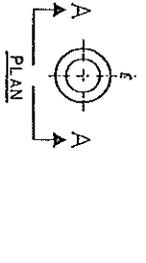
REGISTRATION NUMBER 123456789

REGISTRATION TYPE STANDARD SETTING METHOD FOR DEAD-ENDS

REGISTRATION NO. MATLP-43-02-0001

REGISTRATION DATE 01/15/2024

| MATERIAL LIST | |
|---------------|------------------------------------|
| ITEM | DESCRIPTION |
| 1 | 20' PILE, STEEL PIPE 136" DIAMETER |
| 513-2402 | BOLT 1/2" x 2" |
| 514-2102 | WASHER RD 1-3/8" 9/16" HOLE |
| 531-0102 | WIRE, COOPER #4 SOLID BARE |



OPTIONAL MACHESULA ANCHOR INSTALLED

FIELD DRILL ATTACHED TO PILE TO BE USED IN WET AREAS (SEE DETAIL #1)

DOWNLOAD

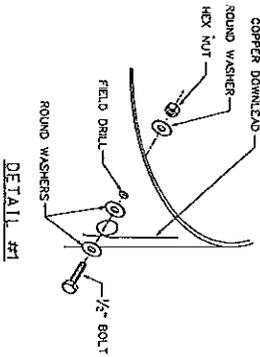
STRUCTURE POLE

STEEL PILE PIPE

BACKFILL TO BE 3/4" SAGGED AND FINISHED ROCK

9.15mm (3/8") ASTM A325 OR 2 OR 3 STEEL PIPE W/ MINIMUM 10% BE BENTONITE OR BE CONTRACTOR DR 10.5mm MINIMUM (13/32")

BEARING SOIL



- NOTES:
1. POLE TO BE SET TO STANDARD SETTING DEPTH - 10' x 12M UNLESS SPECIFIED OTHERWISE BY DESIGNER.
 2. BACKFILL TO HAVE SLOPE OF 45° FROM THE OUTSIDE OF THE POLE TO THE EDGE OF STEEL PIPE AND IS TO BE TAPPED TO 60% PROCTOR BENTONITE MAY BE USED IN WET AREAS.
 3. OPTIONAL MACHESULA ANCHOR TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
 4. ANY SPlicing REQUIRED SHALL HAVE FULL PENETRATION WELDS BY REQUIRED WELDERS CONFORMING TO CSA W59. VISUAL INSPECTION ONLY REQUIRED.
 5. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 6. PIPE TO BE DRIVEN FULL 20' LENGTH.

| NO. | DESCRIPTION | QTY | UNIT | REVISION |
|-----|---|-----|------|----------|
| 1 | POLE TO BE SET TO STANDARD SETTING DEPTH - 10' x 12M UNLESS SPECIFIED OTHERWISE BY DESIGNER. | | | |
| 2 | BACKFILL TO HAVE SLOPE OF 45° FROM THE OUTSIDE OF THE POLE TO THE EDGE OF STEEL PIPE AND IS TO BE TAPPED TO 60% PROCTOR BENTONITE MAY BE USED IN WET AREAS. | | | |
| 3 | OPTIONAL MACHESULA ANCHOR TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS. | | | |
| 4 | ANY SPlicing REQUIRED SHALL HAVE FULL PENETRATION WELDS BY REQUIRED WELDERS CONFORMING TO CSA W59. VISUAL INSPECTION ONLY REQUIRED. | | | |
| 5 | ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. | | | |
| 6 | PIPE TO BE DRIVEN FULL 20' LENGTH. | | | |

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER

NO. 123456789

DATE: 10/10/2023

PROJECT: STEEL PIPE FOUNDATION

DATE: 10/10/2023

SCALE: 1" = 1'

PROJECT NO: 513-2402

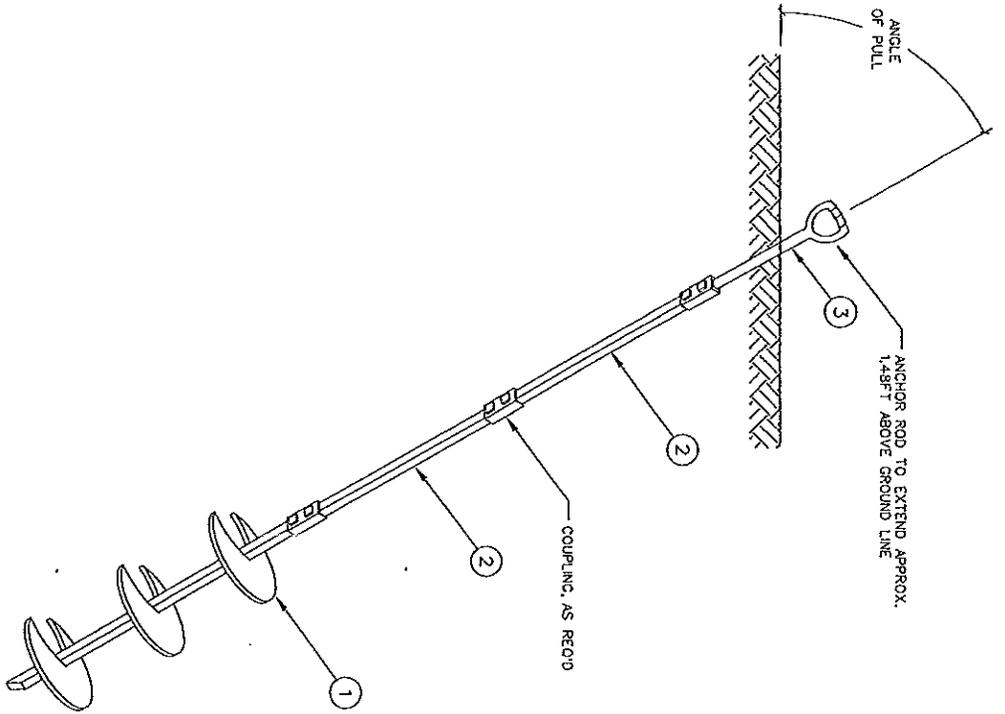
DATE: 10/10/2023

PROJECT: STEEL PIPE FOUNDATION

DATE: 10/10/2023

PROJECT NO: 513-2402

DATE: 10/10/2023



| MATERIAL LIST | |
|---------------|---|
| MARK NO. | DESCRIPTION |
| 1 | ANCHOR POWER INSTALLED SCREW TYPE TRIPLE HELIX 10" x 11-5/16" x 13-1/2" |
| 2 | ROD EXTENSION, 1-1/2" x 1-1/2" x 7'-0" C/W COUPLING |
| 3 | TRIPLE EYE NUT |

- NOTE:
1. THIS ANCHOR MUST BE INSTALLED TO A TORQUE OF 6.3 KILOIN (4870 FT-LB). ADDITIONAL EXTENSIONS AND COUPLINGS MUST BE ADDED UNTIL SPECIFIED TORQUE IS REACHED. IF THE ANCHOR STOPS SUDDENLY WHILE BEING INSTALLED, IT MUST BE ASSUMED THAT A ROCK OR OTHER HARD OBJECT WAS STRUCK AND THE ANCHOR SHOULD BE RE-INSTALLED ELSEWHERE OR A DIFFERENT TYPE USED.
 2. A COMPLETE ANCHOR REQUIRES THE ABOVE MENTIONED ITEMS. DESIGNER TO DETERMINE WHAT EXTENSIONS REQUIRED.

| TYPE REGISTER | | REVISION REGISTER | | REVISION REGISTER | | REVISION REGISTER | |
|---------------|------|-------------------|-------------|-------------------|------|-------------------|-------------|
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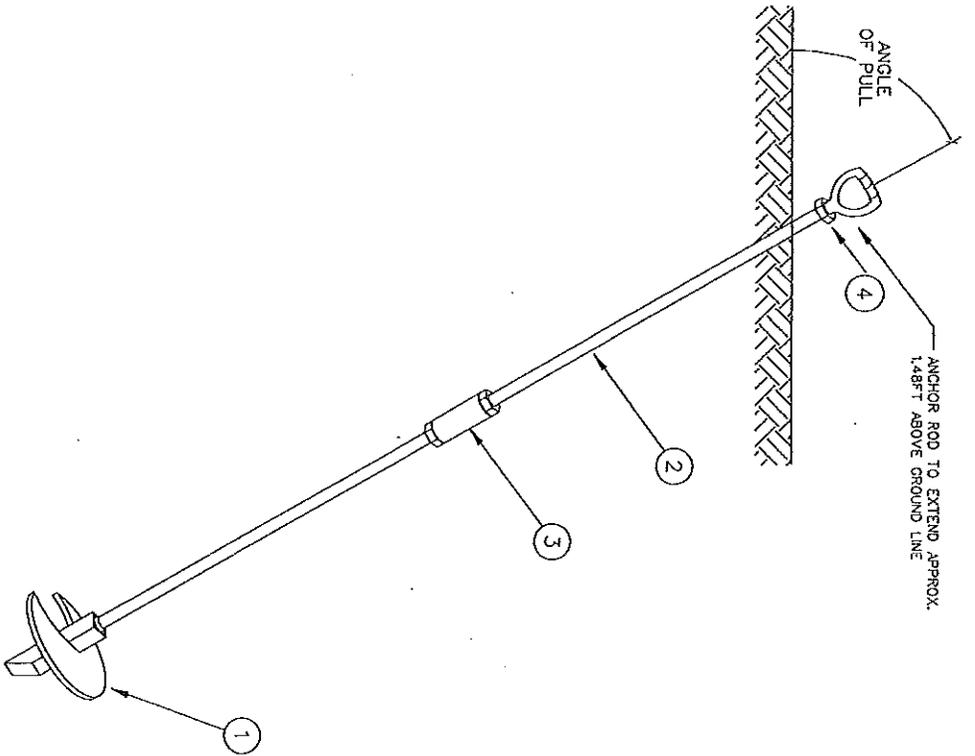
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ANCHOR ROD TO EXTEND APPROX. 1.5 FT ABOVE GROUND LINE.

ANGLE OF PULL

| MATERIAL LIST | | |
|---------------|--------|---|
| MARK NO. | QUANT. | DESCRIPTION |
| 1 | 1 | ANCHOR, POWER INSTALLED SCREW TYPE, HIGH INSTALLATION TORQUE, 1/4" SINGLE HELIX |
| 2 | 2 | ROD EXTENSION, 1" x 7'-0" |
| 3 | 1 | COUPLING, FOR 3/4" AND 1" DIA. EXTENSION ROD |
| 4 | 1 | TWIN EYE NUT FOR 3/4" AND 1" DIA. ANCHOR RODS |

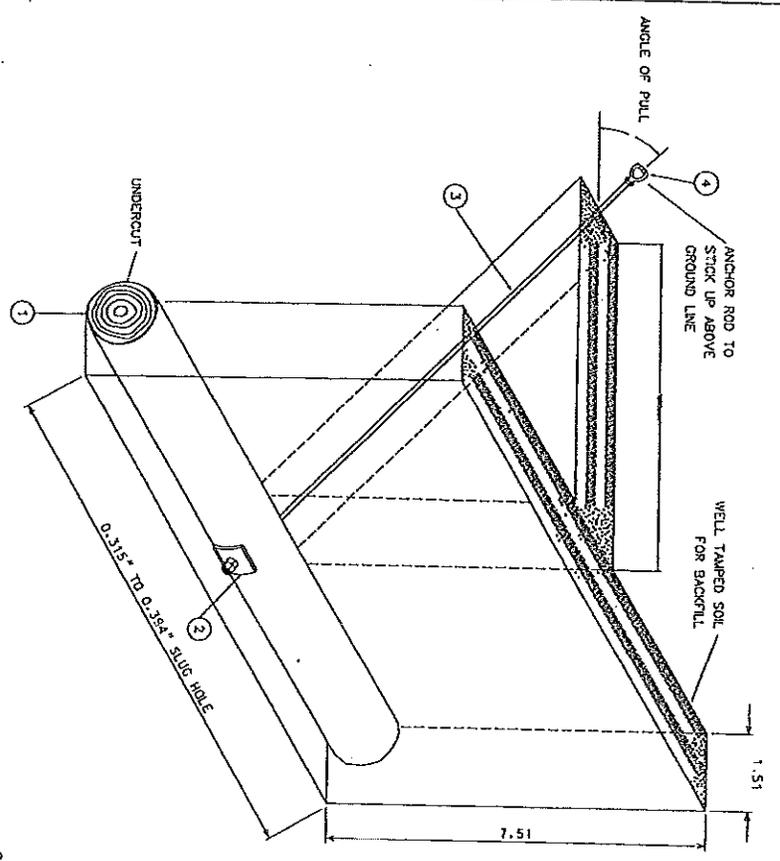
- NOTE:
1. THIS ANCHOR MUST BE INSTALLED TO A TORQUE OF 9.0 KIN. (63.8) ADJUSTING LIMITS AND COUPLINGS MUST BE ADDED UNTIL SPECIFIED TORQUE IS REACHED. IF THE ANCHOR STOPS SUDDENLY WHILE BEING INSTALLED, IT MUST BE ASSUMED THAT A ROCK OR OTHER HARD OBJECT WAS STRUCK AND THE ANCHOR SHOULD BE REINSTALLED ELSEWHERE, OR A DIFFERENT TYPE USED.
 2. A COMPLETE ANCHOR REQUIRES THE ABOVE MENTIONED ITEMS. DESIGNER TO DETERMINE WHAT EXTENSIONS REQUIRED.

| REVISIONS | | REVISIONS | | REVISIONS | |
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| NO. | DATE | DESCRIPTION | BY | CHKD. | APP'D. |
| 1 | | ISSUE FOR BID | | | |
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| PROJECT NO. | DATE | SCALE | BY | CHKD. | APP'D. |
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| PROJECT NO. | DATE | SCALE | BY | CHKD. | APP'D. |
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| PROJECT NO. | DATE | SCALE | BY | CHKD. | APP'D. |
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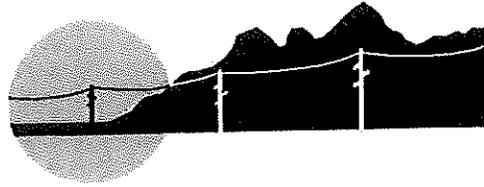
SOIL PRESSURE
 A SOIL PRESSURE OF 182 KPa IS DEVELOPED WHEN THIS ANCHOR IS AT FULL LOAD AND SET AS PER THE ABOVE SKETCH. A CHANGE IN SOIL PROBE READING OF 28 KPa OR MORE IS REQUIRED AT THE BOTTOM OF THE HOLE FOR FULL STRENGTH.

| MATERIAL AND ITEM LIST FOR STRUCTURE 8181 | |
|---|---------------------------------------|
| PART # | DESCRIPTION |
| 1 | ANCHOR ROD 14 DIA X 8 |
| 2 | WASHER SQ. CORNED 8 1/2 X 8 1/2 X 1/2 |
| 3 | ROD END TIGHT GALV. C/W NUT 38KIP |
| 4 | NUT 1/2IN EYE DIA FOR 3/4\"/> |

| MATERIAL AND ITEM LIST FOR STRUCTURE 8181 | |
|---|---------------------------------------|
| PART # | DESCRIPTION |
| 1 | ANCHOR ROD 14 DIA X 8 |
| 2 | WASHER SQ. CORNED 8 1/2 X 8 1/2 X 1/2 |
| 3 | ROD END TIGHT GALV. C/W NUT 38KIP |
| 4 | NUT 1/2IN EYE DIA FOR 3/4\"/> |

PROJECT: SLIP ANCHOR
 DRAWING NO: MAT-P-03-0003
 DATE: 1/2/03
 SCALE: 1/2" = 1'-0"
 SHEET NO: 3 OF 3

MONTANA ALBERTA TIE LTD



July 31, 2006

Ms. Ellen Russell
Senior Project Manager
U.S. Department of Energy
1000 Independence Ave. SW
Room 6H-050
Washington, DC 20585
U.S.A.

US Department of Energy

AUG 1 2006

Electricity, Delivery and Energy Reliability

Dear Ms. Russell:

Subject: MATL Technical Scope Change #1

Attached is MATL's Scope Change #1, that summarizes all of the technical and system changes that have been made since the start of the project. The most significant changes can be summarized as follows:

1. Mid point substation moved from Glacier Electric Cooperative's Cut Bank substation to McCormick Ranch, now referred to as the Marias substation.
2. Conductor changed from 1033 Curlew to 1590 Falcon.
3. Structure material changed from steel to laminated wood or round wood. Please note that steel structures may still be used for special applications such as monopole deadend structures.
4. Series compensation to be added to both line segments at the Marias substation.

If you have any questions or comments about the attached scope change document, please do not hesitate to contact me at 403-264-4465 or my email bob.williams@matl.ca.

Respectfully,

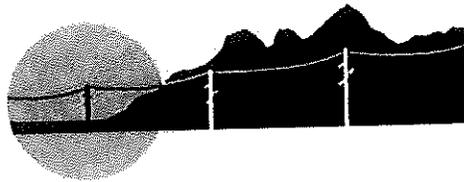
A handwritten signature in cursive script that reads "Robert L. Williams".

Bob Williams
Vice President, Regulatory

Enclosure (1)

cc: John Railton - MATL
Laura Dunphy - MATL
Mark Abraham - MATL
Dave Jacobson - AMEC
Pat Mullen - AMEC

MONTANA ALBERTA TIE LTD



Great Falls, Montana
to
Lethbridge, Alberta
Interconnection Project

Notification
Scope Change #1

May 26, 2006

| | Name | Signature | Date |
|-----------------|--------------|--------------------|-------------|
| Prepared | Mark Abraham | <i>MA</i> | May 26 2006 |
| Project Manager | Marc Clark | <i>MC</i> | 26 MAY 2006 |
| Approved | Lorry Wilson | <i>L.A. Wilson</i> | May 26 2006 |

MATL PROJECT SCOPE CHANGE #1

INTRODUCTION

The scope of the MATL transmission line project has been altered somewhat following the Open Season and the subsequent initiation of the regulatory applications exercise in May of 2005. The fundamental objective of the project, to build a 300MW/230 KV transmission line linking Great Falls, Montana and Lethbridge, Alberta remains unchanged, but a number of modifications have been made to the design to meet regulatory, environmental, land and commercial constraints.

SCOPE CHANGES

The following tables summarize the scope changes that have been made to this project since May 2005. Attached is a single line diagram and route map for reference.

1. Project System Changes

| Item | Original | Revision |
|--|-----------------------|---|
| Path Rating | 300MW both directions | No change |
| Emergency Rating | 320MW | 370MW |
| AESO Lethbridge 240kV Intertie | 300MW | No change |
| Glacier Electric 115kV Connection | 50MW | No connection |
| Great Plains Wind Energy - McCormick Ranch | T connection | Direct connection into mid-point substation |
| NorthWestern Great Falls 230kV Intertie | 300MW | No Change |

2. Transmission Line Routing and Substation Location Changes

| Item | Original | Revision |
|----------------------------------|--|---|
| Lethbridge Interconnection point | Tie into North Lethbridge 370S Substation | A new green field substation will be constructed approximately 10 km north east of 370S. The new substation's name is "MATL 120S". The existing transmission line 923L will be built in and out of 120S |
| Mid Point Substation | Tie into Glacier Electric 115kV system near Cut Bank | A new mid-point substation is to be built next to the Great Plains Wind Energy McCormick Ranch wind gathering station approximately 10 miles south of Cut Bank. This substation is to be named the "Marias Substation". |
| Great Falls Interconnection | Tie into NorthWestern Energy 230kV substation | No change |
| Transmission Route | Estimated length 300km. | Estimated Length 327km. The route is subject to change as a result of regulatory and right-of-way constraints. |

3. Transmission Line Design Changes

| Item | Original | Revision |
|---------------|--|---|
| Conductor | 1033 kcmil Curlew, single conductor per phase | 1590 kcmil Falcon, single conductor per phase |
| Structures | <ul style="list-style-type: none"> • Steel pole • H frame and monopole | <ul style="list-style-type: none"> • Laminated wood or round wood pole • No change: H-frame and monopole |
| Insulators | Not specified | Synthetic |
| Communication | Not specified | <ul style="list-style-type: none"> • 36 fiber OPGW over the full length of the tie line • Additional 3/8" shield wire on H frame structures |

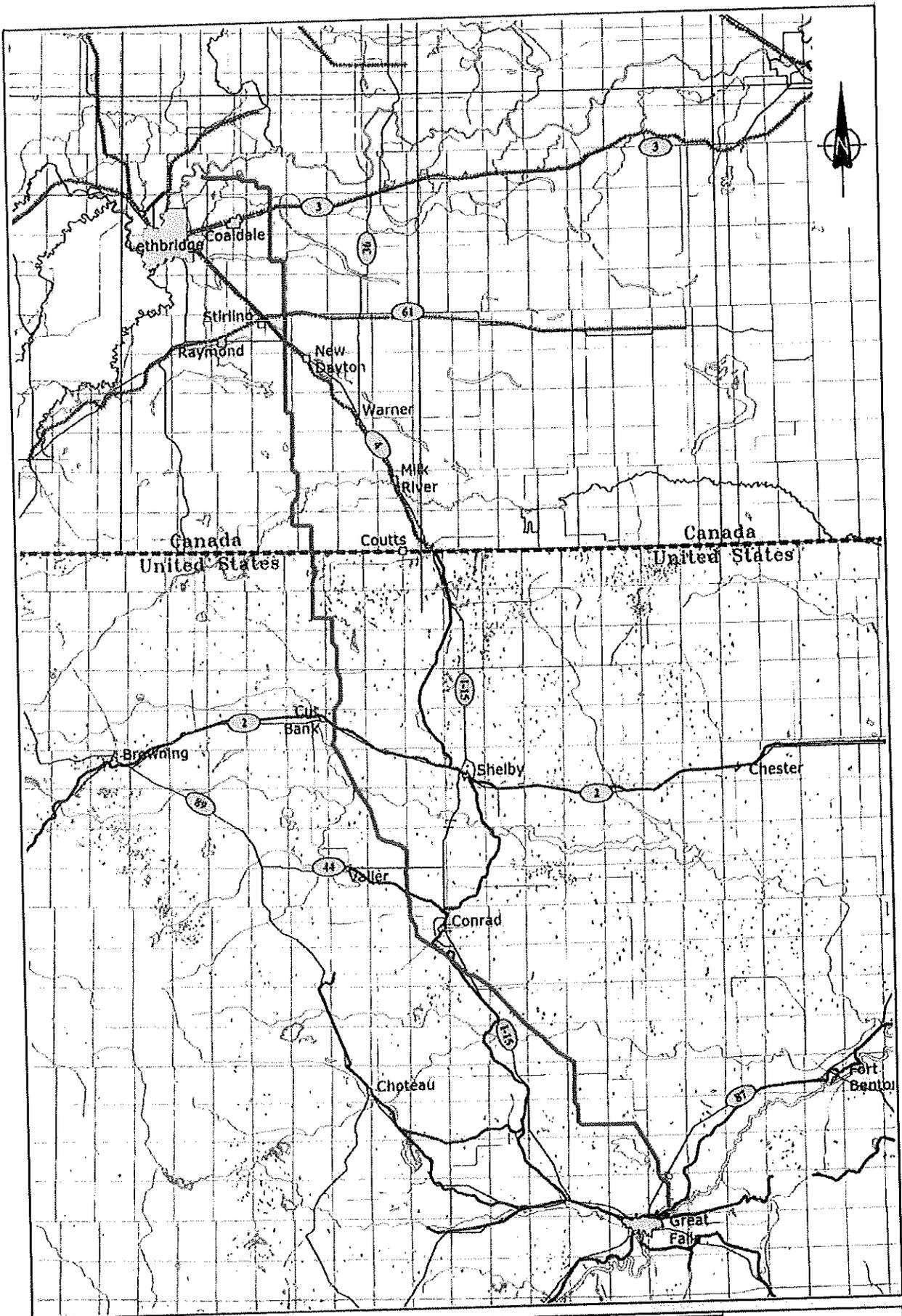
4. Substation Design Changes

| Item | Original | Revision |
|----------------------|---|---|
| Lethbridge | <ul style="list-style-type: none"> • 330MVA Phase Shifting Transformer (PST) • One 50MVAr shunt capacitor | <ul style="list-style-type: none"> • No change to PST • Two banks of 50MVAr shunt capacitors |
| Mid-Point Substation | <ul style="list-style-type: none"> • Line segmentation breaker • 1 x 50MVar and 1 x 100MVar shunt capacitor | <ul style="list-style-type: none"> • No change to line segmentation • 4 x 40MVAr shunt capacitors • 60% series capacitance on the north segment of transmission line • 50% series capacitance on the south segment of the transmission line |
| Great Falls | Expansion of existing 230kV system | No change |

SUPPORTING DOCUMENTS

The attached drawings include changes.

- 1) MATL System Single Line Diagram (MATL1-ELEC-SYS-SLD-002-R1)
- 2) MATL Route Map Over view (MATL1-MAP-REG-OVERVIEW-2006-05-26)



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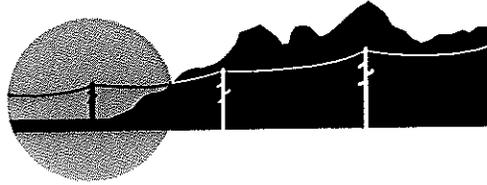
MONTANA ALBERTA TIE LTD

PROJECT NO. _____ PROJECT NAME _____ SCALE 1:50,000
 DATE _____ BY _____

LETHBRIDGE TO GREAT FALLS TRANSMISSION LINE ROUTE MAP OVERVIEW

Drawing No. _____ Date of Issue _____ Revision _____

MONTANA ALBERTA TIE LTD



September 27, 2006

RE: Update to MATL Application

Ellen Russell
Senior Project Manager
Office of Electricity Delivery and Energy Reliability
U.S. Department of Energy
1000 Independence Avenue SW
Room 614-050
Washington, DC 20585 U.S.A.

US Department of Energy

SEP 28 2006

Electricity, Delivery and Energy Reliability

Dear Ms. Russell:

The purpose of this letter is to provide updated information regarding the Presidential Permit application that MATL originally filed with the Department of Energy on October 5, 2005 and the MATL Technical Scope Change #1 materials that were filed on July 31, 2006. The updated information is as follows:

1. Revised line route.

The attached map entitled "Project Location" sets out the updated line route that reflects a number of route changes. The northern end of the line route in Montana has been moved about 4 ¼ miles east due to a route change in Alberta, Canada. The route was changed in the Cut Bank, Montana area due to a change in the mid point substation as described in MATL Technical Scope Change #1. Other line route changes were made to accommodate individual land owner requests and the Montana Department of Environmental Quality.

2. Revised crossing of the international boundary between Canada and the United States of America.

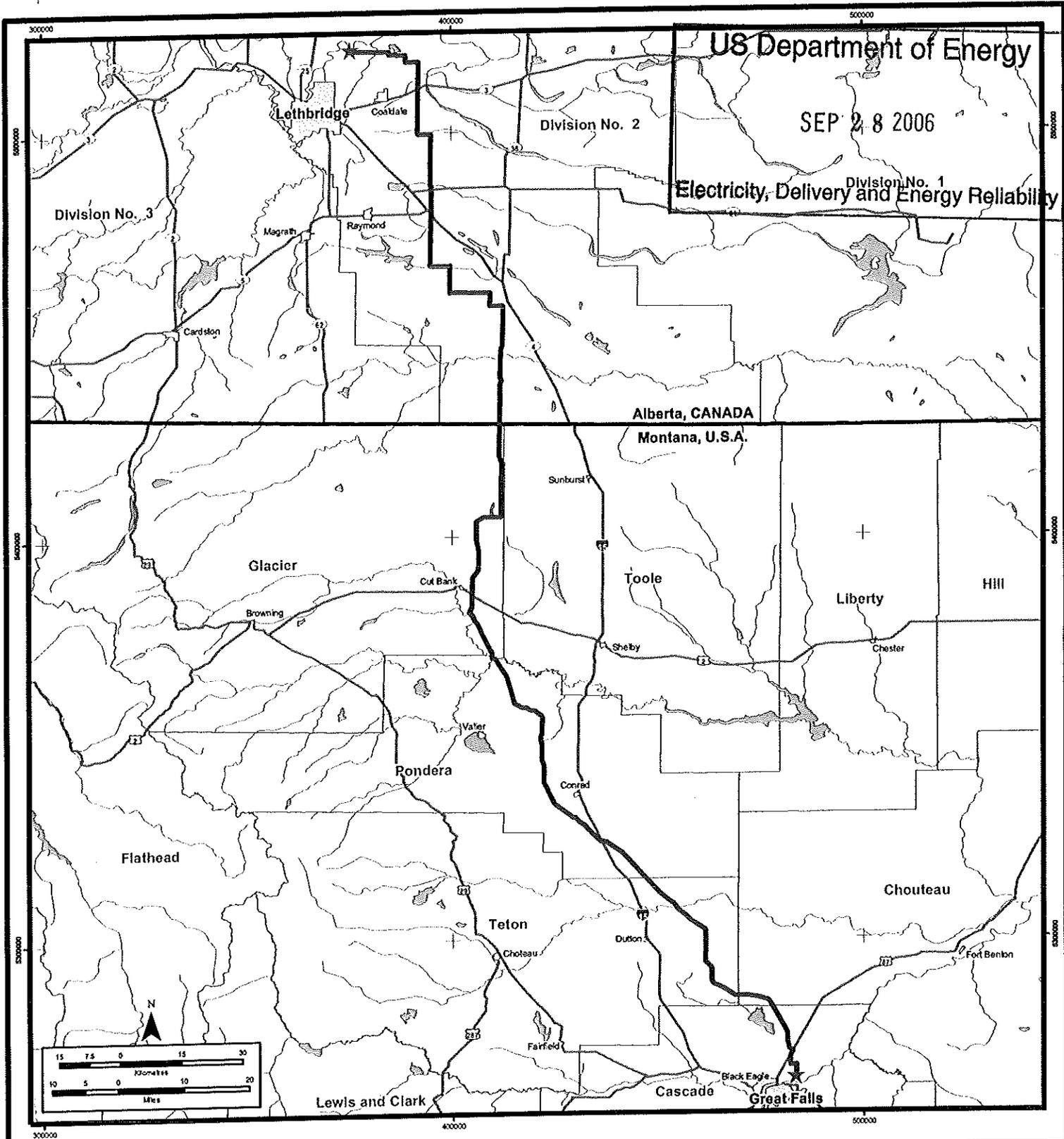
The location at which the line route crosses the international boundary is now about 4 ¼ miles east of the crossing point submitted as part of MATL's filing of October 5, 2005. The details of the revised crossing location are found on attached map entitled "Canadian Border Crossing".

Respectfully,

Bob Williams
Vice President, Regulatory

Enclosures (2)

cc: John Railton - MATL
Patrick Mullen - AMEC



US Department of Energy

SEP 28 2006

Electricity, Delivery and Energy Reliability

Alberta, CANADA
Montana, U.S.A.

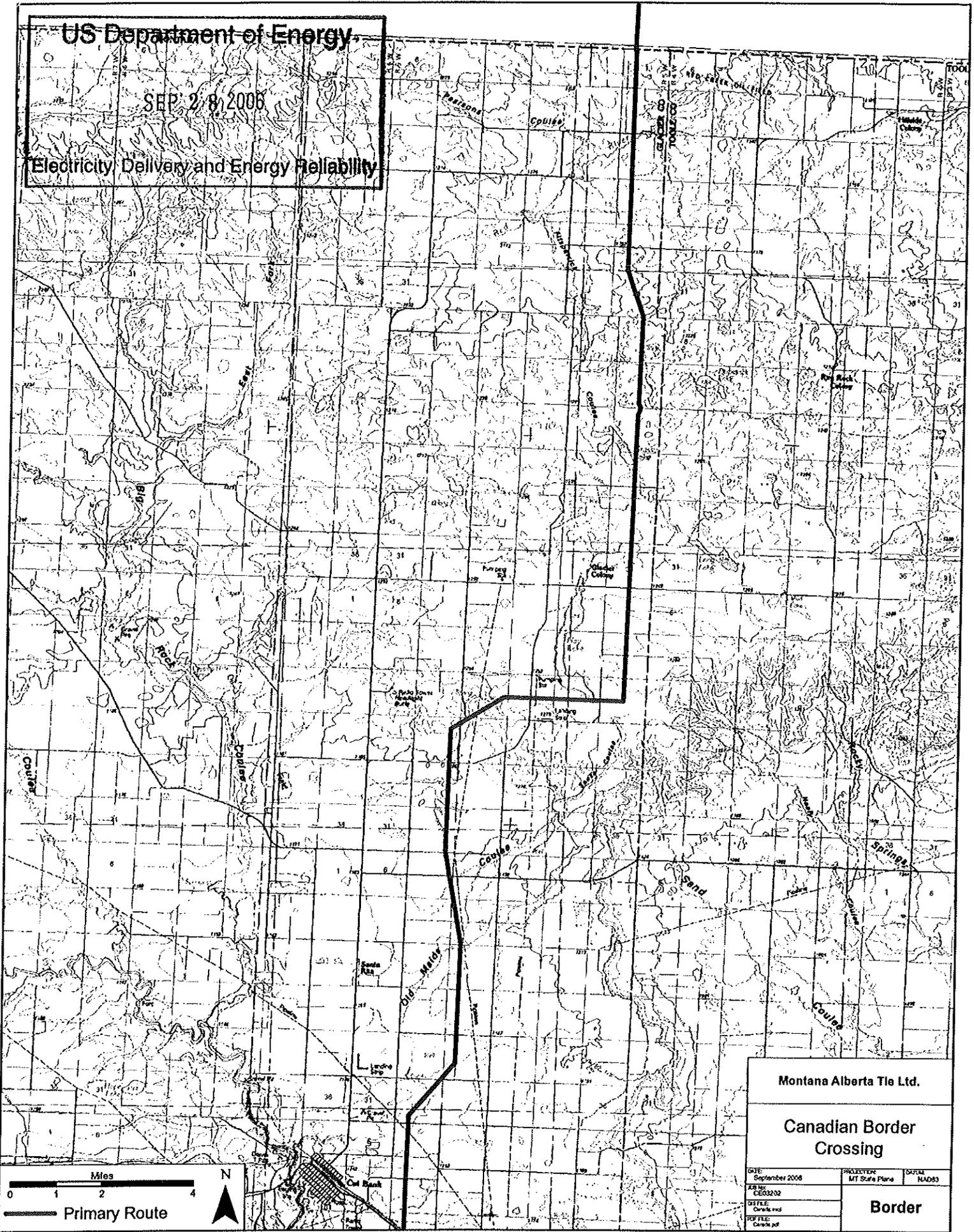
- Legend**
- Proposed Transmission Route
 - MATL Owned Substation
 - NorthWestern Energy Substation
 - Cities / Towns
 - Highways
 - Lakes
 - Rivers

| | | |
|--|---------------------------|---------------|
| Montana Alberta Tie Ltd. | | |
| Project Location | | |
| DATE September 2006 | PROJECTION UTM Zone 12 | DATE NAD83 |
| FILE NO CE03202 | | |
| DB FILE Transmission Routes | | |
| PDF FILE Transmission Routes 08-09-06 | | |
| Figure 1-1 | | |

US Department of Energy

SEP 28 2006

Electricity Delivery and Energy Reliability



Montana Alberta Tie Ltd.

Canadian Border Crossing

| | | |
|----------------------|----------------------------|--------------|
| DATE: September 2006 | PROJECTION: MT State Plane | DATUM: NAD83 |
| APP NO: CEN3232 | | |
| DATE: Circle end | | |
| REF FILE: Canada.pdf | | |

Border