

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF NORTH DAKOTA

TRANSCANADA KEYSTONE PIPELINE, LP) CASE NO. PU-06-421
30-INCH CRUDE OIL PIPELINE/CAVALIER TO)
SARGENT COUNTIES SITING APPLICATION)

SUPPLEMENTAL ORDER

On April 11, 2007, TransCanada Keystone Pipeline, LP (Keystone) filed an application for a certificate of public convenience and necessity (PCN) under N.D.C.C. Chapter 49-03.1 to construct and operate the Keystone Pipeline in Cavalier, Pembina, Walsh, Nelson, Steele, Barnes, Ransom, and Sargent Counties of North Dakota. Approximately 218 miles of the crude oil pipeline is located in North Dakota.

On April 11, 2007, Keystone filed an application for a waiver of procedures and time schedules, and consolidated applications for a certificate of corridor compatibility and a route permit authorizing construction of approximately 218 miles of 30-inch crude oil pipeline and associated facilities in Cavalier, Pembina, Walsh, Nelson, Steele, Barnes, Ransom, and Sargent Counties of North Dakota. (Case No. PU-06-421)

On February 21, 2008, the Public Service Commission (Commission) issued its Findings of Fact, Conclusions of Law and Order for Judgment and issued Certificate of Corridor Compatibility for a Transmission Facility Corridor No. 101 and Route Permit for Construction of a Transmission Facility No. 111 to construct the Keystone Pipeline.

A. KEYSTONE'S MOTION FOR:

- 1. APPROVAL OF KEYSTONE'S TREE AND SHRUB SAMPLING PLAN FOR NATIVE GROWTH AREAS;**
- 2. APPROVAL OF STREAM CROSSING METHODS;**
- 3. CLARIFICATION OF INCONSISTENCY ON TREE CLEARING WIDTHS; AND**
- 4. APPROVAL OF EXTRA WORK SPACE IN FORESTED AREAS.**

On April 7, Keystone moved the Commission to approve Keystone's tree and shrub sampling plan for native growth areas; approve Keystone's stream crossing methods for certain streams; clarify certain apparent inconsistencies on tree clearing widths; and approve extra work space in certain forested areas. Keystone served all parties with notice of these motions. No party filed any response to these motions.

On May 13, 2008 the Commission held an Informal Hearing on Keystone's motions for tree and shrub sampling plan, for steam crossing methods, for clarification of tree clearing widths and for extra work space in forested areas. The informal hearing was continued to May 21, 2008 with regard to the sampling plan, crossing methods and work space in forested areas.

1. APPROVAL OF KEYSTONE'S TREE AND SHRUB SAMPLING PLAN FOR NATIVE GROWTH AREAS;

Keystone has developed the Tree and Shrub Sampling Plan for Native Growth Areas to describe the methods Keystone will implement to count and document the woody vegetation to be removed during pipeline construction by the Keystone Project through Native Growth Areas.

Keystone provided this sampling plan to the ND State Forester who concurred with the recommendations of the Plan. Also, a concurrence was obtained from the USDA Forest Service.

A slight modification of the sampling plan was made to address the concerns of the Commission for random and representative sampling. The Tree and Shrub Sampling Plan for Native Growth Areas (Exhibit 1) will accurately represent the quantity of trees and shrubs that will be replaced at a ratio of 2 to 1 after construction of the Keystone Project.

2. APPROVAL OF STREAM CROSSING METHODS;

Keystone has studied the feasibility of Horizontal Directional Drilling (HDD) of the Tongue River and the South Branch Park River and determined that HDD crossings are not feasible based upon the additional costs required to install the pipeline for a depth and length under the river bed to prevent exposure due to potential stream scour and lateral migration design requirements.

Keystone has studied the feasibility of HDD of the tributary to the Tongue River running through section 18, Township 161 North, Range 56 West, Pembina County; the North Branch Park River; Middle Branch Park River; North Branch Forest River; Middle Branch Forest River; and Goose River and determined that HDD of these streams is not feasible.

Keystone has met with North Dakota Game & Fish regarding the stream crossing methods and North Dakota Game & Fish concurs that Keystone's proposed methods of open cut stream crossings will protect the aquatic species of these streams without the need for installation by HDD.

In accordance with paragraph 12 of the Order, Keystone submitted site specific drawings advising the Commission of Keystone's request to open cut the following streams utilization mitigation methods to protect the aquatic species in concurrence with North Dakota Game & Fish:

- Tributary to the Tongue River running through Sec 18, T161N, R56W, Pembina Co;
- North Branch Park River;
- Middle Branch Park River;

- North Branch Forest River;
- Middle Branch Forest River; and
- Goose River.

3. CLARIFICATION OF INCONSISTENCY ON TREE CLEARING WIDTHS;

Paragraph 14 of the Commission's Order states:

"The width of the clear cuts through any windbreaks and shelterbelts shall be limited to 50 feet or less. The width of clear cuts through extended lengths of wooded areas shall be limited to 85 feet or less."

Item number 8 of the Tree and Shrub Mitigation Specifications states:

"The width of clear cuts through windbreaks, shelterbelts and all other wooded areas shall be limited to 50 feet or less unless otherwise approved by the NORTH DAKOTA PUBLIC SERVICE COMMISSION."

The requirement as stated in paragraph 14 of the Commission's Order is the specific requirement of the Commission in the permit issued to Keystone, and is controlling over the more general statement contained in the Tree and Shrub Mitigation Plan. It was determined that there is no actual inconsistency and the application of these two provisions were fully discussed and explained.

4. APPROVAL OF EXTRA WORK SPACE IN FORESTED AREAS.

Lois A. Gray provided both written and verbal testimony to the Commission regarding Keystone's Application for a certificate of corridor compatibility and route permit and regarding the need for additional temporary workspace in forested areas at stream crossings.

In accordance with paragraph 13 of the Commission's Order dated February 21, 2008, Gray testified in support of Keystone's request for approval of the clearing plans for additional temporary work space in forested areas at certain stream or road crossings shown below:

- MP 13.12 Unnamed Creek
- MP 16.13 Tributary to Tongue River
- MP 17 Unnamed Creek
- MP 21.44 Unnamed Creek
- MP 22.7 Unnamed Creek
- MP 23.7 Cart Creek

MP 24.7 Unnamed Creek
MP 29.4 North Branch Park River
MP 31.8 Unnamed Creek
MP 33.3 Unnamed Stream and Middle Branch Park River
MP 34.8 Unnamed Creek
MP 35.3 Unnamed Creek
MP 36.3 Unnamed Creek
MP 37.2 Unnamed Creek
MP 38.1 Unnamed Creek
MP 42.7 Unnamed Stream
MP 46.4 North Branch Forest River
MP 49.2 Unnamed Stream
MP 54.8 Middle Branch Forest River
MP 107.1 Bored Crossing of 5th Street NE
MP 123.6 Bored Crossing of 11th Street SE
MP 212.6 Bored Crossing of 97th Street

Keystone's Application requested a 110-foot wide normal construction right of way and additional work space at topographical features including roads, railroads, streams, and other areas requiring additional workspace, to facilitate normal pipeline construction activities. During the Commission's hearings, Keystone presented testimony that 85 feet of construction right of way in forested areas at certain streams was not sufficient for construction of a large diameter pipeline and that additional temporary workspace was needed to ensure that the work could be performed safely in those areas.

The Commission's Order, at paragraph 13, included the following condition:

"If Keystone needs additional construction work space at stream or river crossings and would like to clear more than an 85 feet width of trees, Keystone shall submit a clearing plan with the Commission to be approved prior to start of construction. The plan shall indicate the width of the cut (up to 135 feet) and the distance from the crossing (number of feet on each side of the crossing) that is needed."

In accordance with paragraph 13, Keystone is requesting Commission approval of the clearing plans and additional work space shown on the drawings attached in Exhibit 2.

According to Paragraph 24 of the Commission Order and Item 11 of the Tree and Shrub Mitigation Specifications, Keystone must reforest the temporary workspace where additional width of trees is cleared. Therefore, over a period of a few years, the temporary work space as well as the construction right of way will be re-vegetated and there will be no permanent impact to the forested areas.

The additional temporary work space at stream crossings depicted on the site specific drawings included in Exhibit 2 is necessary to install the pipeline safely and with the least environmental impact to the stream.

B. MOTION FOR APPROVAL OF KEYSTONE'S PIPELINE ROUTE BETWEEN MILEPOSTS 168 AND 170

On April 21, 2008 Keystone moved for approval of Keystone's Pipeline Route between mileposts 168 and 170. Keystone served all parties and notified, by mail, all agencies listed under N.D. Admin. Code § 69-06-01-05 of the motion for approval of the route refinements.

On May 12, 2008, Keystone provided Notice to State Agencies and Officials as Identified Pursuant to Section 69-06-01-05 ND Admin Code, by email and noticed that they had until 5:00 p.m. on Friday May 16, 2008, to file written comments with the Commission concerning Keystone's motion for approval of Keystone's Pipeline Route between mileposts 168 and 170.

On May 13, 2008, Keystone provided Notice to County Auditors, County Commissions, and legislators, pursuant to Section 69-06-01-02 ND Admin Code, by email that they had until 5:00 p.m. on Friday May 16, 2008, to file written comments with the Commission concerning Keystone's motions for approval of Keystone's Pipeline Route between mileposts 168 and 170.

On May 13, 2008 the Commission held an Informal Hearing on the Keystone proposal for the route crossing the Sheyenne River and Sheyenne River Valley between mile post markets 168 and 170.

At the informal hearing Lois A. Gray testified as follows:

"The final geotechnical report defined geotechnical issues associated with rock on the South and North embankments of the Sheyenne River. These geotechnical conditions would classify this HDD as a high risk HDD which means it has a higher than normal probability of failure.

The geotechnical conditions and difference in elevation would increase the potential of excessive drilling mud pressures which could result in the inadvertent release of drilling mud through existing natural fissures in the soils to the surface of the ground or into the Sheyenne River. It should be noted that drilling mud is made from naturally occurring bentonite clay and is not toxic or a pollutant.

However, regulatory agencies typically require it be cleaned up and removed. This would be problematic due to no access for equipment should the inadvertent release occur in the treed area of the embankments of the Sheyenne River.

Keystone identified a route on the South and North Embankments it believes meets the intent of the Commission to minimize or eliminate visual impacts and tree removal. These alternatives still incorporate a HDD of the Sheyenne River and the trees adjacent to the Sheyenne River.

The revised HDD of the Sheyenne River greatly reduces the risk of successful installation of the crossing because it shortens the length from 3496 feet to 1500 feet, eliminates HDD of the bedrock on the South embankment and eliminates the substantial elevation difference between the HDD entry and exit points.

Keystone has met with the following landowners and executed an option for an easement from the following landowners indicating accepting this route as submitted herein: Olga Hanson, James Peterson and Kevin Bishop.”

At the informal hearing Kevin Bishop appeared and testified in favor of approving the route which avoids trees and shrubs that may be viewed by the scenic highway.

Concurrence letters to the proposed route from landowners Bishop and Peterson, were submitted to the Commission. Additionally, verification of approval of the route was received from landowner Hansen based on the signed Option Agreements.

There were three responses received from agencies. Job Service North Dakota indicated no comment on the project. North Dakota Parks and Recreation indicated no issue existed with the adjusted realignment. The State Historic Preservation Office indicated their review remains ongoing. No other agencies, counties or representatives have communicated a concern regarding the supplemental route between mileposts 168 and 170.

The proposed route between mileposts 168 and 170 involves a HDD of the Sheyenne River and open cuts of the north and south embankments. The open cuts for proposed pipeline route are located to avoid trees and shrubs that visible from the scenic highway.

We find that the proposed pipeline route between mileposts 168 and 170, as identified on Exhibit 3 is compatible with the environmental preservation and the efficient use of resources and will result in minimal adverse effects on the environment, natural resources, and upon the welfare of the citizens of North Dakota while ensuring continuing system reliability and integrity and ensuring that energy needs are met and fulfilled in an orderly and timely fashion.

Order

The Commission orders:

1. TransCanada Keystone's Tree and Shrub Sampling Plan for Native Growth Areas, attached as Exhibit 1, is hereby approved, and incorporated into the Commission's Order in this action.
2. Keystone's proposed method of open cut stream crossings is approved for the following rivers: the tributary to the Tongue River running through section 18, Township 161 North, Range 56 West, Pembina County; the North Branch Park River; Middle Branch Park River; North Branch Forest River; Middle Branch Forest River; and Goose River because HDD of these streams is not feasible.
3. The width of the clear cuts through any windbreaks and shelterbelts shall be limited to 50 feet or less. The width of clear cuts through extended lengths of wooded areas shall be limited to 85 feet or less. This provision is controlling in this Order over the general requirement contained in the Tree and Shrub Mitigation Plan.
4. The additional temporary work space at stream crossings depicted on the site specific drawings included in Exhibit 2 as attached hereto is necessary to install the pipeline safely and with the least environmental impact to the stream.
5. TransCanada Keystone Pipeline, L.P.'s request for approval of Keystone's Pipeline Route between mileposts 168 and 170, as identified on Exhibit 3 attached hereto is granted.
6. This Order is supplemental to TransCanada Pipeline, L.P.'s Certificate of Corridor Compatibility for a Transmission Facility Corridor No. 101 and Route Permit for Construction of a Transmission Facility No. 111 to construct the Keystone Pipeline.

PUBLIC SERVICE COMMISSION

Tony Clark
Commissioner

Susan E. Wefald
President

Kevin Cramer
Commissioner



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KEYSTONE PIPELINE PROJECT

North Dakota

Tree and Shrub Sampling Plan for Native Growth Areas

March 2008

Tree/Shrub Inventory – Native Growth Areas

The Keystone Project will pass through approximately 214 miles of North Dakota. Evaluation of the route indicates that the project ROW will impact approximately 46 acres of trees (windbreak/shelterbelts, woodlots, riparian areas) spread out over about 180 different locations.

The North Dakota Public Service Commission's Order and Tree and Shrub Mitigation Specifications directs the project to inventory all trees and shrubs located in windbreaks and shelterbelts. In compliance with this condition, Keystone will record the numbers and species of trees and shrubs in windbreaks and shelterbelts.

In addition, the Specification requires the project to either inventory native growth (forested) areas by direct count or to develop a sampling plan to determine the numbers of trees and shrubs that will be removed in native growth areas. This Sampling Plan defines the methods Keystone will implement to determine trees and shrub numbers in native growth areas. This Plan will be filed with the Commission for approval prior to construction.

Field Sampling Method

Keystone's inventory methodology will include a review of the aerial photographs along the project route to identify random plot sampling locations in native growth areas. Native growth (forested) areas occur in approximately 66 locations along the project route in North Dakota. In order to ensure that the sampling method properly represents the woody vegetation population, twenty of these locations (30 percent) will be selected for field sampling, based on the availability of landowner permission.

For each field sampling location, Keystone civil survey teams will stake the edge of the project construction ROW. Biological survey teams will then establish two sample plots within the ROW limits (20 ft x 50 ft) and will clearly mark these plots with rope or flagging. The biological survey teams will record the approximate location of the sample plot, as well as the number and species of trees (>1" dbh), tall shrubs and short shrubs located within the plot boundaries. The tree and shrub count data from the sample plots will be provided to the project team to determine the numbers of trees and shrubs the project will remove from all areas of the project.

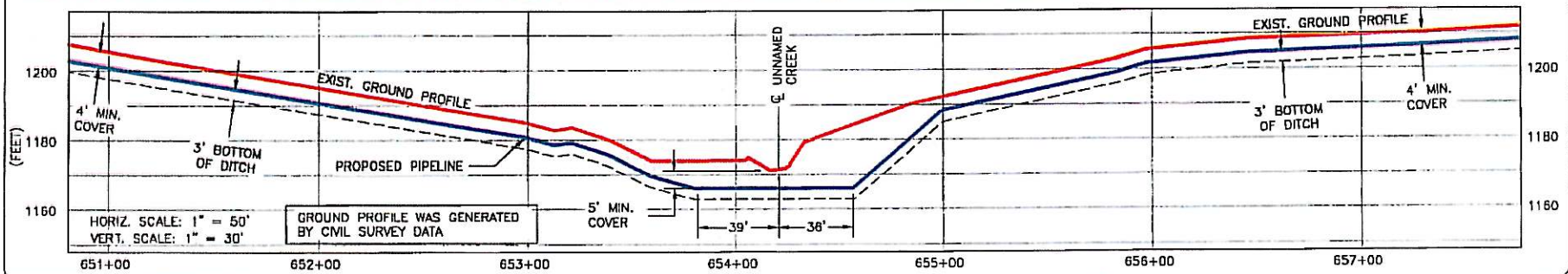
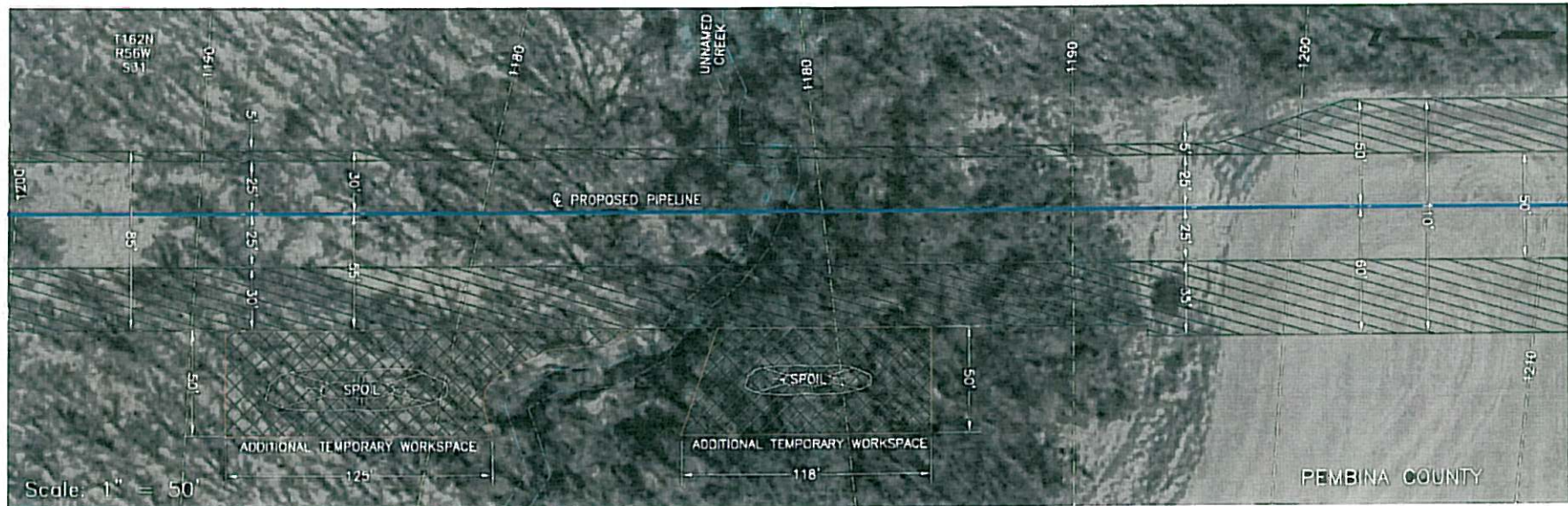
Tree/Shrub Estimating Procedure

The project will determine the total area of anticipated construction clearing through forested areas by utilizing the project's high-resolution aerial photography overlain with the project workspace boundaries. The boundaries of the forested areas will be marked in the GIS system and a measurement of the

area of disturbance through each native growth areas will be obtained. Data gathered on the ground from the tree/shrub plot samples will be extrapolated on an area-basis to establish the numbers of trees and shrubs cleared during construction of the project. For example, if 7 trees were counted in 100 square feet of sample area, the number of trees cleared on 1000 square feet of the project ROW would be projected to be 70 trees.

Conducting transects or sample plots and extrapolating the data to determine vegetation estimates over much larger areas is a common estimating tool for forest inventory and vegetation analyses. The methodology described above is designed to provide an accurate determination of tree and shrub numbers in native growth areas that will be cleared by the Keystone Project in North Dakota. If the area of trees and shrubs actually cleared differs from the area originally calculated, an updated estimate of trees and shrubs will be determined at the end of the project. The numbers of trees and shrubs identified by this inventory method will be used to determine the species and quantity of trees and shrubs to be replaced.

EXHIBIT A



DRAWING No		TITLE	
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UTM 14 BASE FILE		ML_14_OC_BASE.dwg	
NOTES AND LEGEND		NOTES_LEGEND.dwg	

DRAFT

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JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF STEEP SLOPES ON BOTH SIDES OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF STREAM.
- 3550 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 13.12	DISCIPLINE # 03
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UNNAMED CREEK
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA

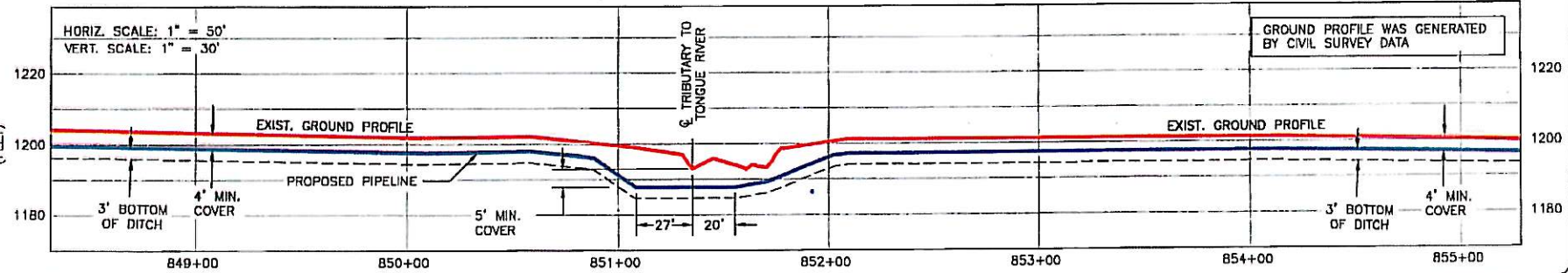
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TIME DESIGNFILE



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NOTES AND LEGEND	NOTES_LEGEND.dwg

DRAFT

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JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 2470 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 16.13	DISCIPLINE # 03
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**TRIBUTARY TO TONGUE RIVER
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA**

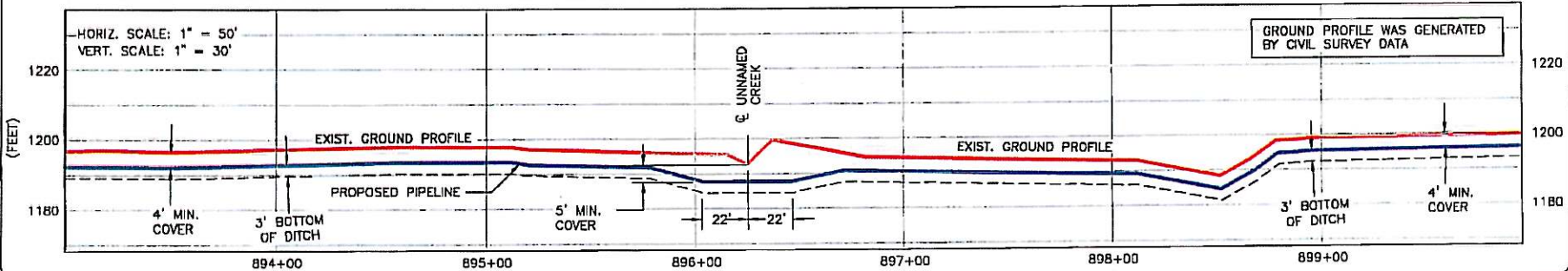
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JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 2427 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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EDINBURG PUMP STATION
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**UNNAMED CREEK
 FORESTED STREAM CROSSING
 PEMBINA COUNTY, NORTH DAKOTA**

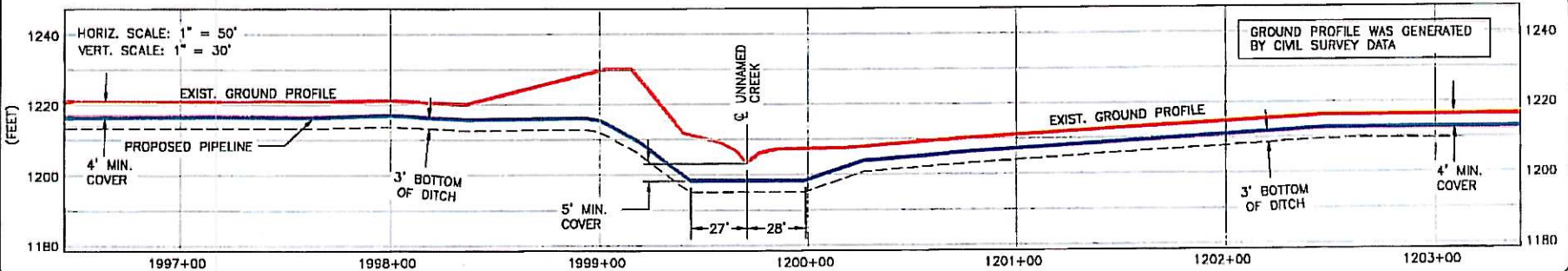
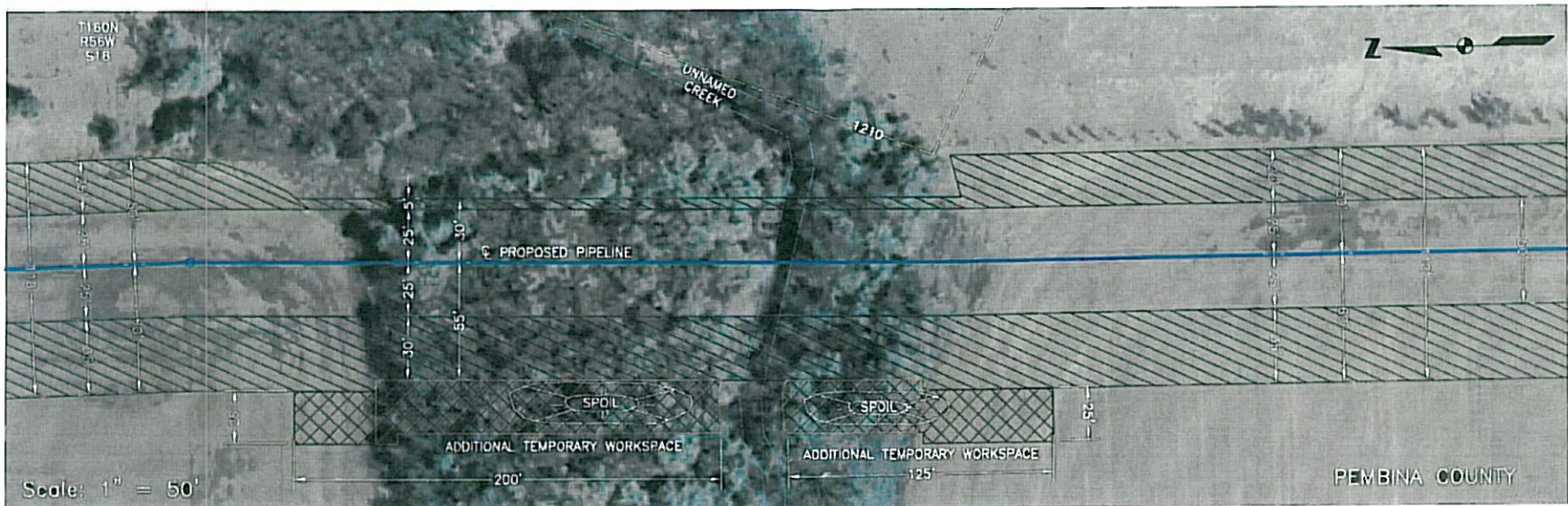
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
JUSTIFICATION

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- 4034 CUBIC YARDS OF GRADING AND TRENCH SPOIL.



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EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 22.7	DISCIPLINE # 03
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**UNNAMED CREEK
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA**

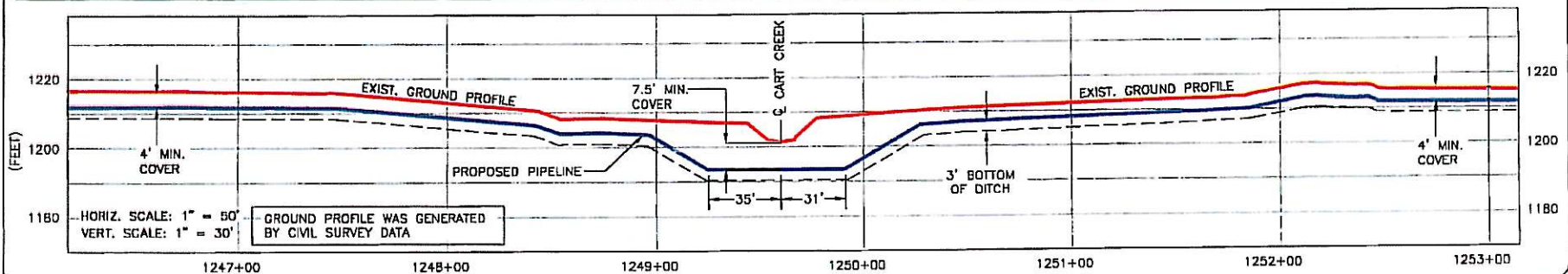
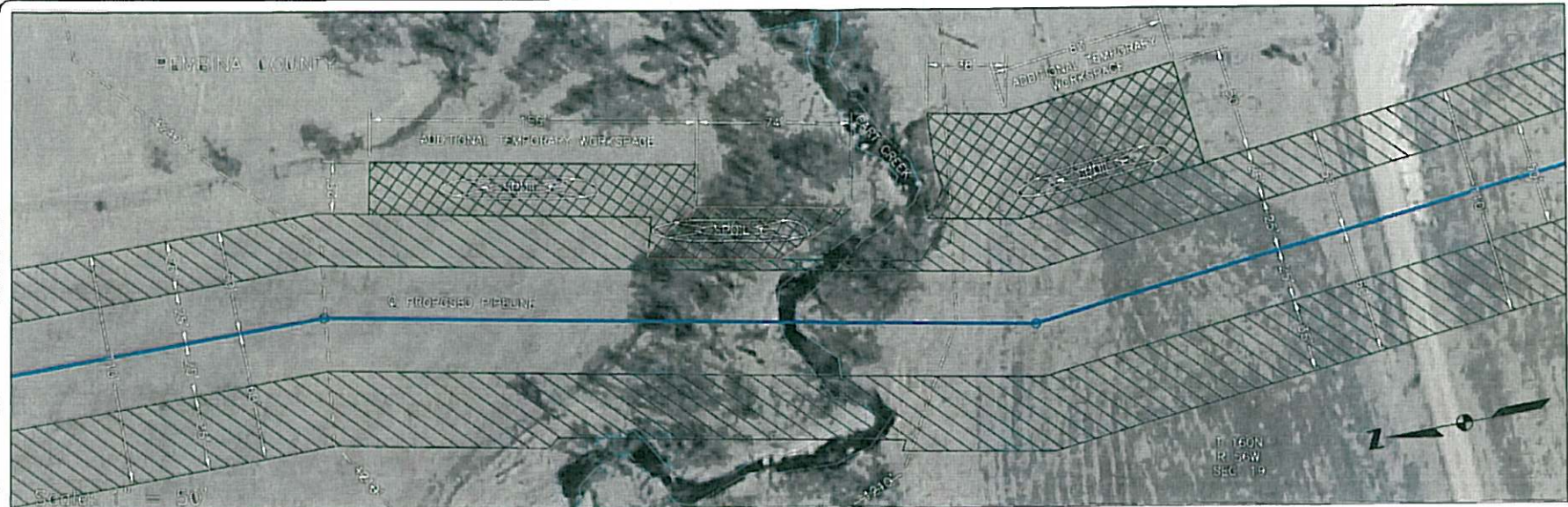
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JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM INCREASED DEPTH AND LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL SCOUR DEPTH AND LATERAL MIGRATION OF THE STREAM RESPECTIVELY.
- 3551 CUBIC YARDS OF GRADING AND TRENCH SOIL.

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EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 23.7	DISCIPLINE # 03
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**CART CREEK
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA**

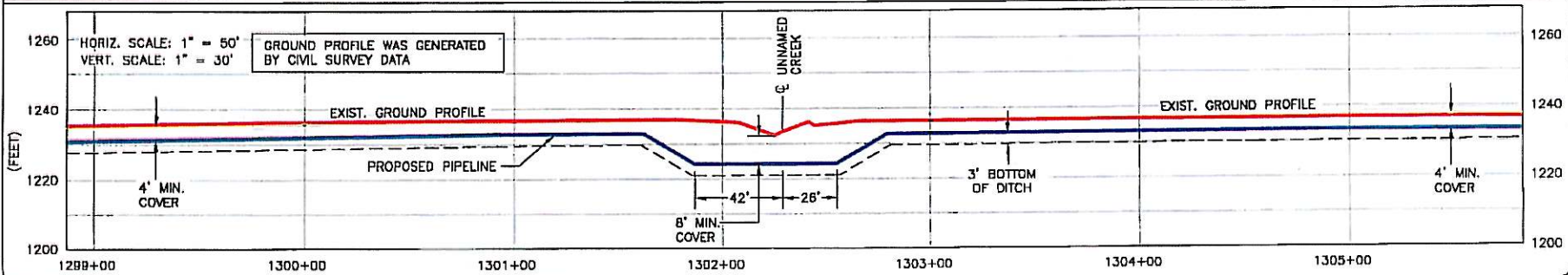
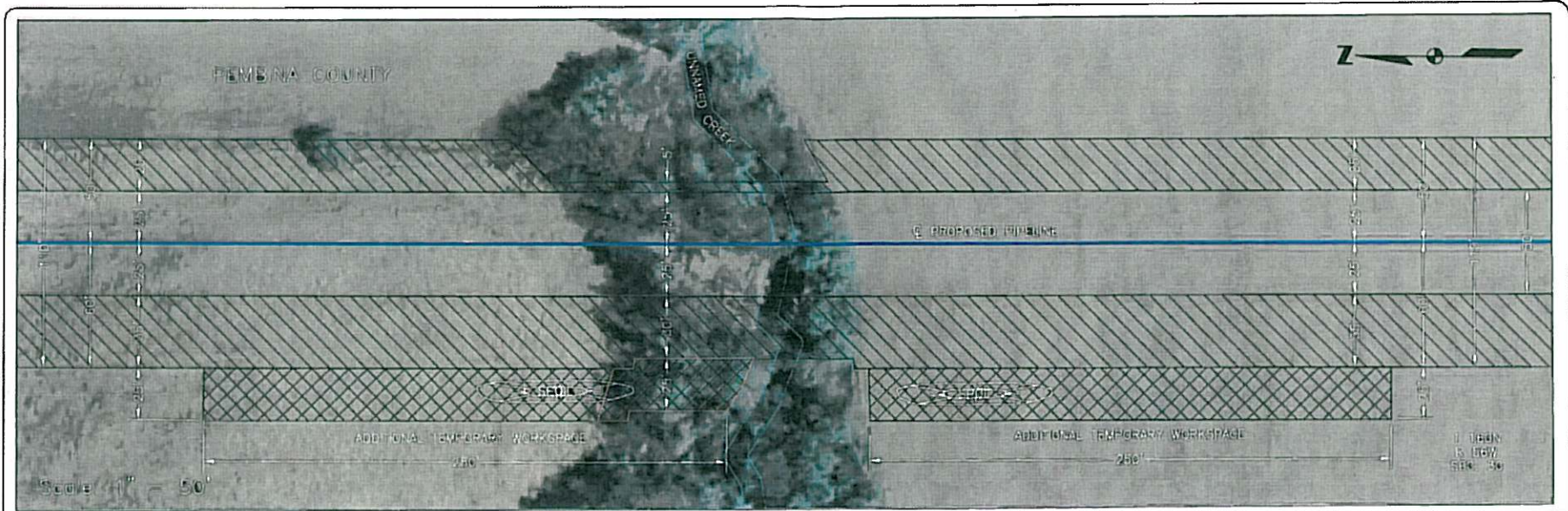
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TIME DESIGNFILE



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JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM INCREASED DEPTH AND LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL SCOUR DEPTH AND LATERAL MIGRATION OF THE STREAM RESPECTIVELY.
- 3143 CUBIC YARDS OF GRADING AND TRENCH SOIL.

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EDINBURG PUMP STATION

FIA # 1801	CHARGE: MP 24.7	DISCIPLINE # 03
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**UNNAMED CREEK
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA**

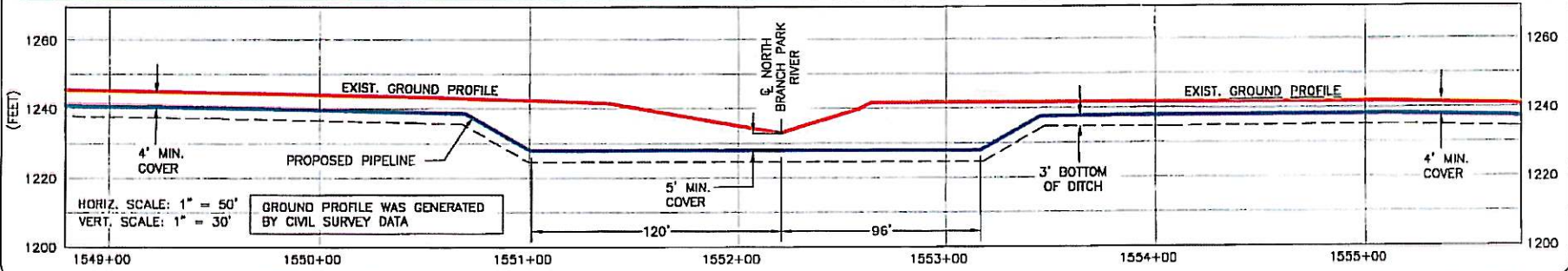
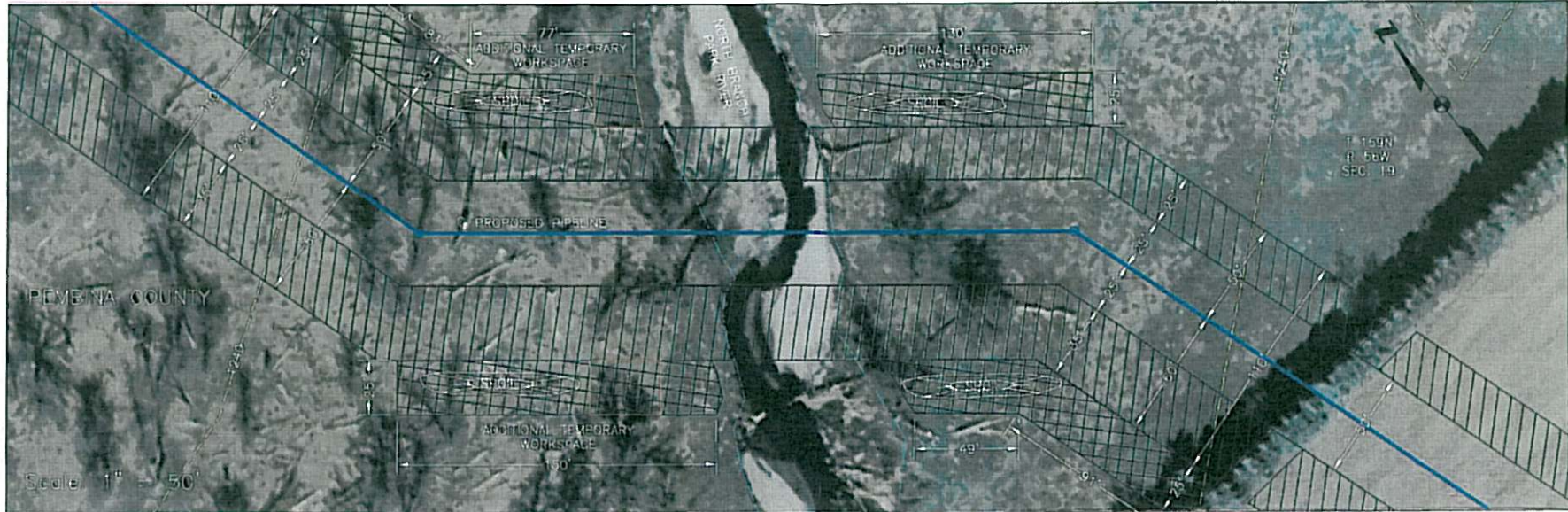
SCALE As Shown	DRAWING No 1801-03-ML-03-056	REV 00
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TC_UB_BR.DWG 11x17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



DRAWING No		TITLE	
MAIN LINE PROFILE		PROFILE_ML.dwg	
UTM 14 BASE FILE		ML_14_OC_BASE.dwg	
ND AERIAL		ND12.aid	

DRAFT

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES0053885	JB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM INCREASED DEPTH AND LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL SCOUR DEPTH AND LATERAL MIGRATION OF THE STREAM RESPECTIVELY.
- 3160 CUBIC YARDS OF GRADING AND TRENCH SOIL.

TransCanada
In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.

1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-385-2441
Fax: 1-850-385-5523

EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 29.4	DISCIPLINE # 03
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NORTH BRANCH PARK RIVER
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA

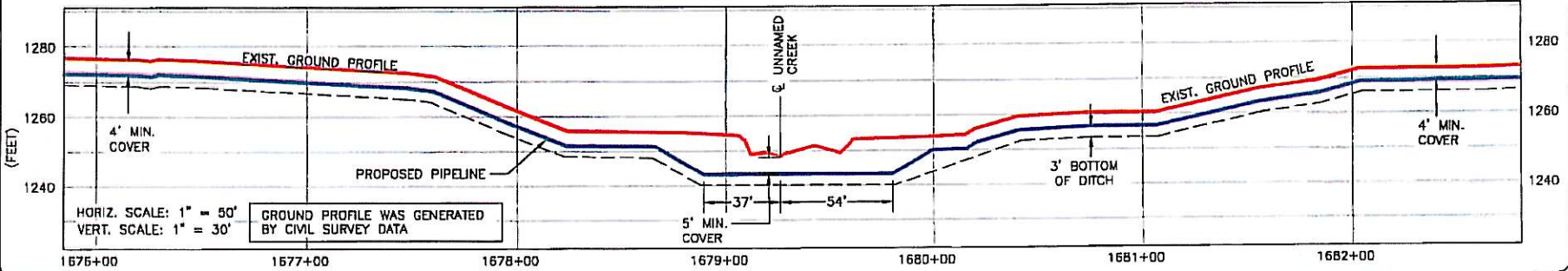
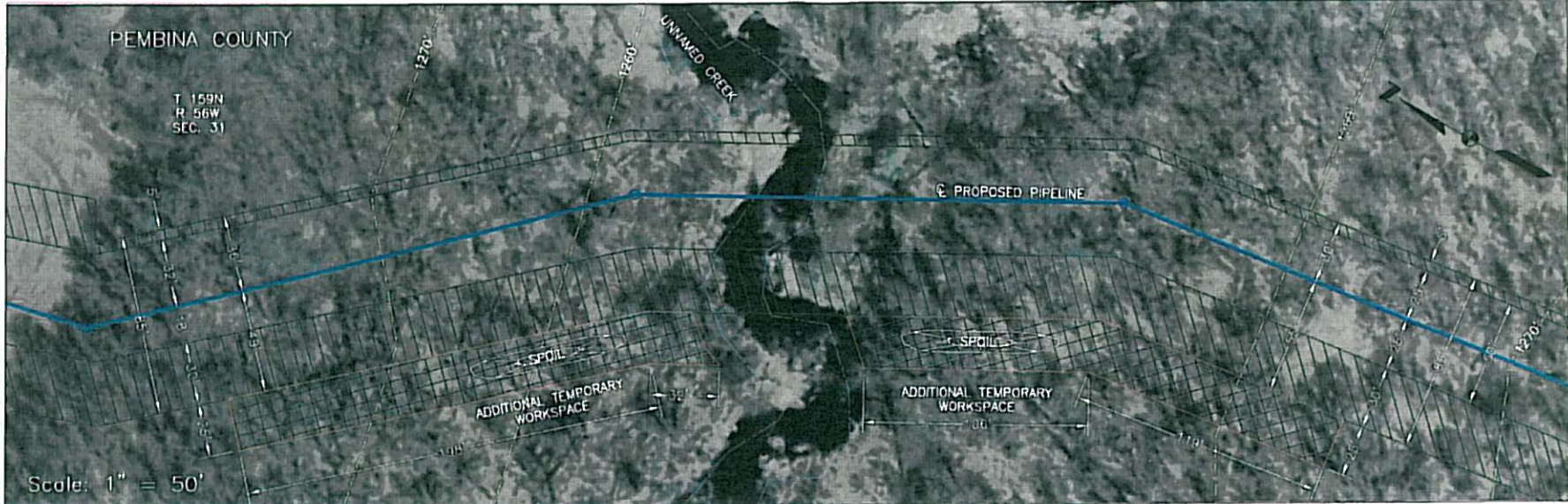
SCALE As Shown	DRAWING No 1801-03-ML-03-057	REV 0
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TC_UB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS									
DRAWING No	TITLE								
MAIN LINE PROFILE	PROFILE_ML.dwg								
UTM 14 BASE FILE	ML_14_OC_BASE.dwg								
NO AERIAL	ND13.aid								
REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR	
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES0053885	JB	SS	HF	RG	RG	

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF STEEP SLOPES ON BOTH SIDES OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 3164 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

TransCanada
In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.

1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32309
Phone: 1-850-383-3441
Fax: 1-850-383-9523

EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 31.8	DISCIPLINE # 03
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**UNNAMED CREEK
FORESTED STREAM CROSSING
PEMBINA COUNTY, NORTH DAKOTA**

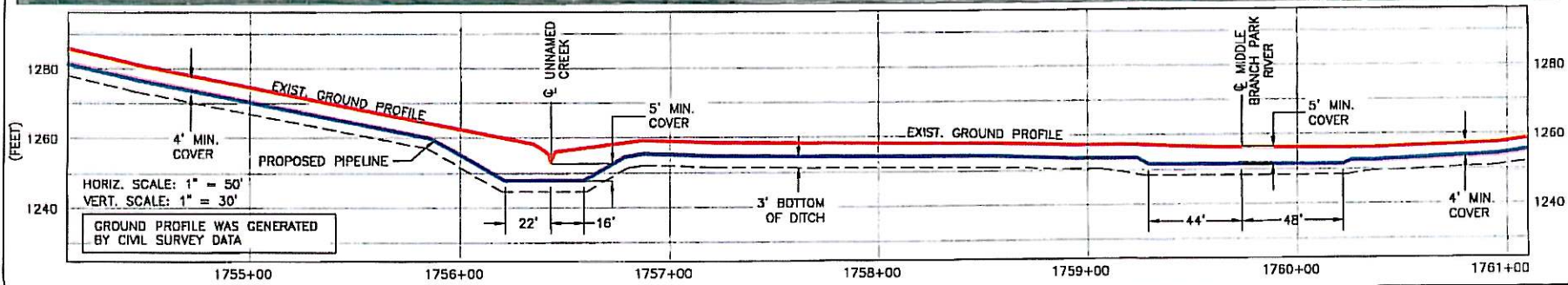
SCALE As Shown	DRAWING No 1801-03-ML-03-058	REV 00
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TC_LB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAIN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	ML_14_OC_BASE.dwg
ND AERIAL	ND13 & ND 14.aid

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES005308S	JB	SS	HF	RQ	RQ

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPE ON THE NORTH SIDE OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT BOTH CROSSINGS THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF BOTH STREAMS.
- 3637 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
 1303 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida, USA 32308
 Phone: 1-850-383-9441
 Fax: 1-850-383-9523

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In business to deliver

Trow

EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 33.3	DISCIPLINE # 03
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**UNNAMED STREAM & MIDDLE BRANCH PARK RIVER
 FORESTED STREAM CROSSING
 WALSH COUNTY, NORTH DAKOTA**

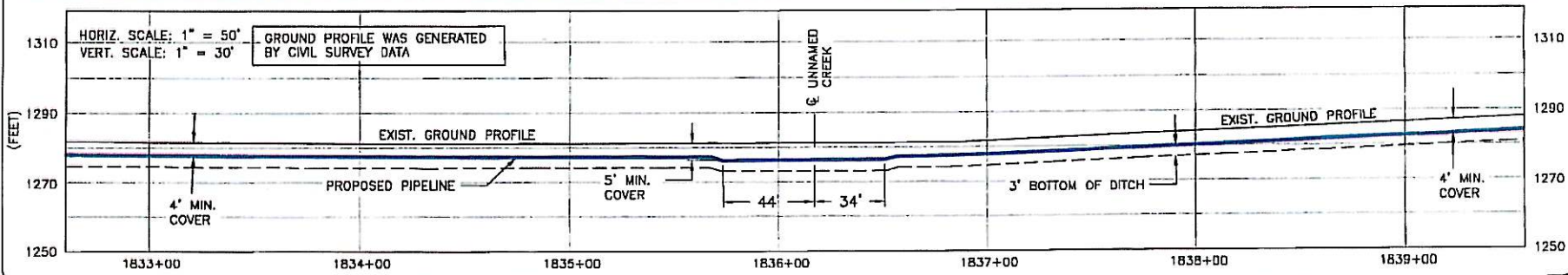
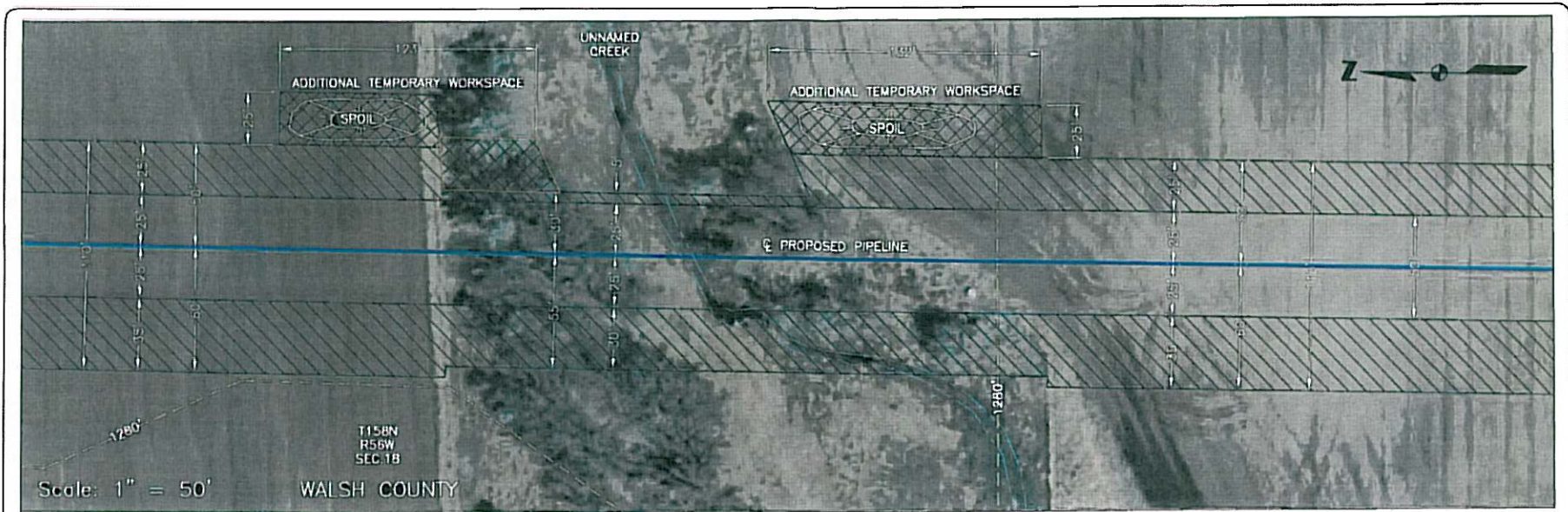
SCALE As Shown	DRAWING No 1801-03-ML-03-059	REV 00
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TC_UB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS		TITLE						
DRAWING No		TITLE						
MAIN LINE PROFILE	PROFILE_ML.dwg	DRAFT						
UTM 14 BASE FILE	ML_14_OC_BASE.dwg							
NO AERIAL	ND14.aid & ND15.aid							
REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THE50053885	CB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 2202 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1303 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-385-8441
Fax: 1-850-385-8323

NIAGRA PUMP STATION

FIA # 1802	CHAINAGE: MP 34.8	DISCIPLINE # 03
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**UNNAMED CREEK
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA**

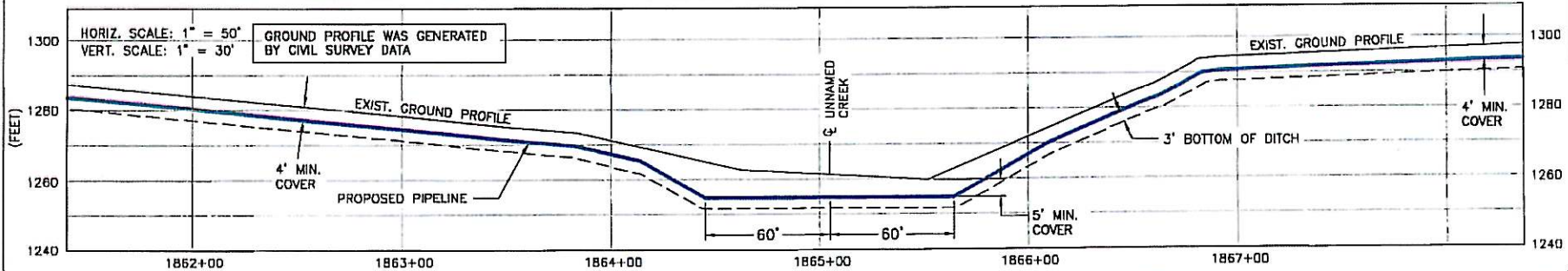
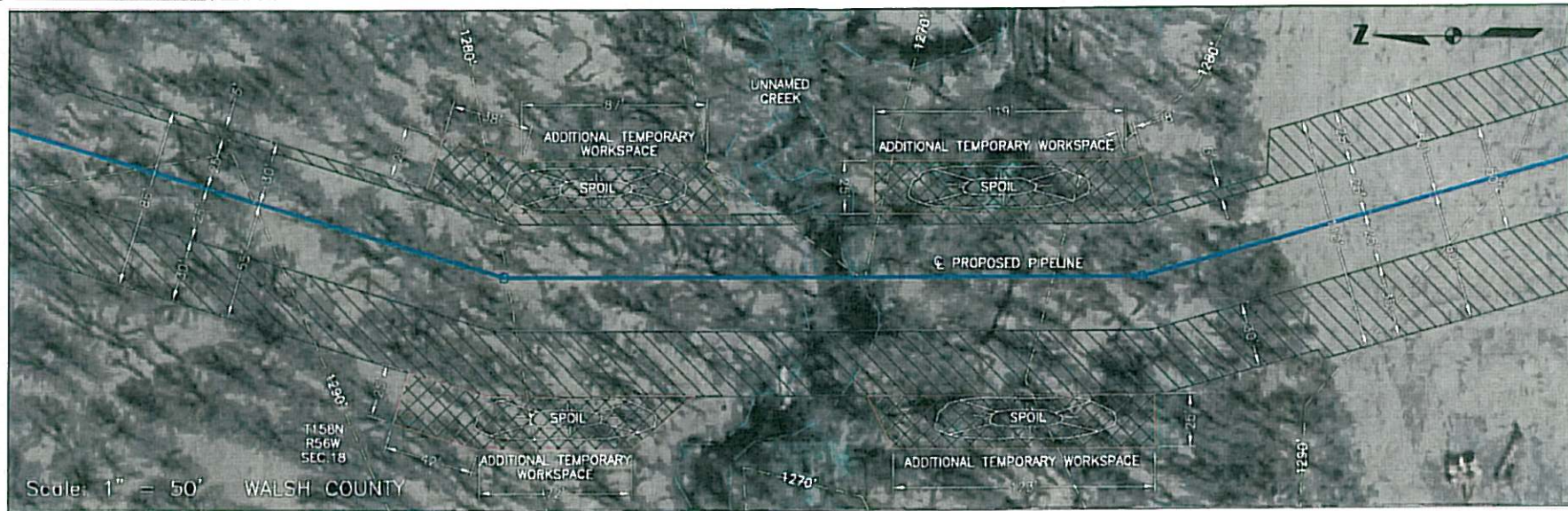
SCALE As Shown	DRAWING No 1802-03-ML-03-050	REV 00
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TC_US_BLDWG 11x17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS										
DRAWING No	TITLE									
MAIN LINE PROFILE	PROFILE_ML.dwg									
UTM 14 BASE FILE	ML_14_00_BASE.dwg									
ND AERIAL	ND15.aid									
REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR		
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THE50053085	CB	SS	HF	RG	RG		

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF STEEP SLOPES ON BOTH SIDES OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 3416 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

TransCanada
In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Melbourne Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-385-3141
Fax: 1-850-385-5573

NIAGRA PUMP STATION

FIA # 1802 CHAINAGE: MP 35.3 DISCIPLINE # 03

UNNAMED CREEK
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA

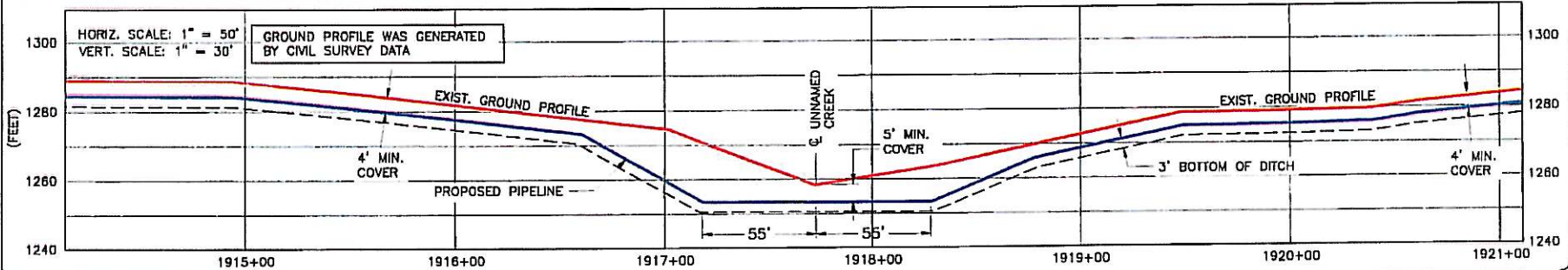
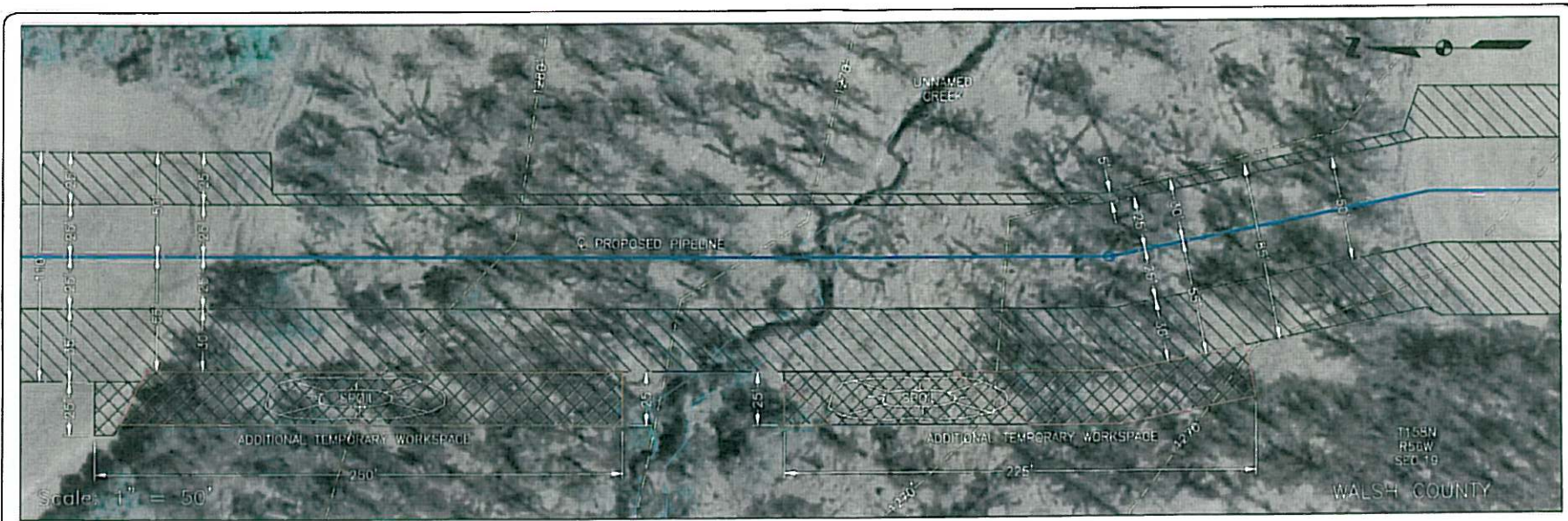
SCALE: As Shown DRAWING No: 1802-03-ML-03-051 REV: 00

TC_UB_BR.DWG 11x17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAIN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	NL_14_OC_BASE.dwg
ND AERIAL	ND15.aid

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THS0053885	CB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF STEEP SLOPES ON BOTH SIDES OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 4472 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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In business to deliver

PREPARED BY:
 TROW ENGINEERING CONSULTANTS INC.
 1300 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida, USA 32303
 Phone: 1-850-385-5441
 Fax: 1-850-385-5523

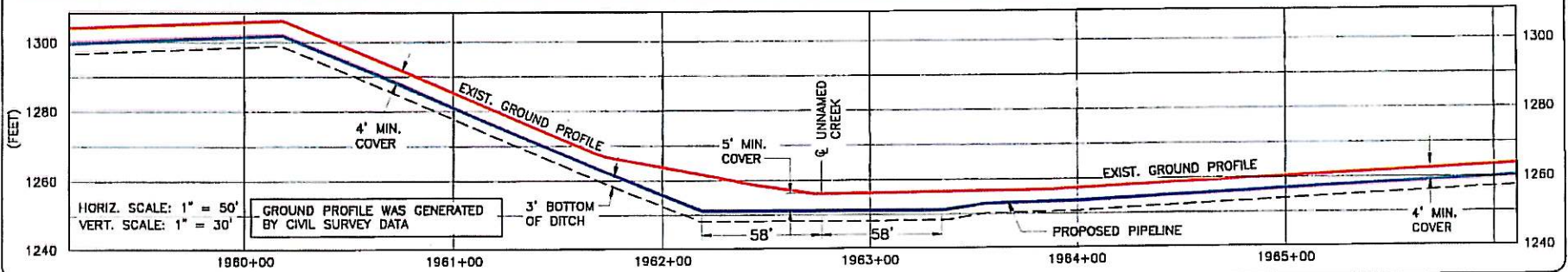
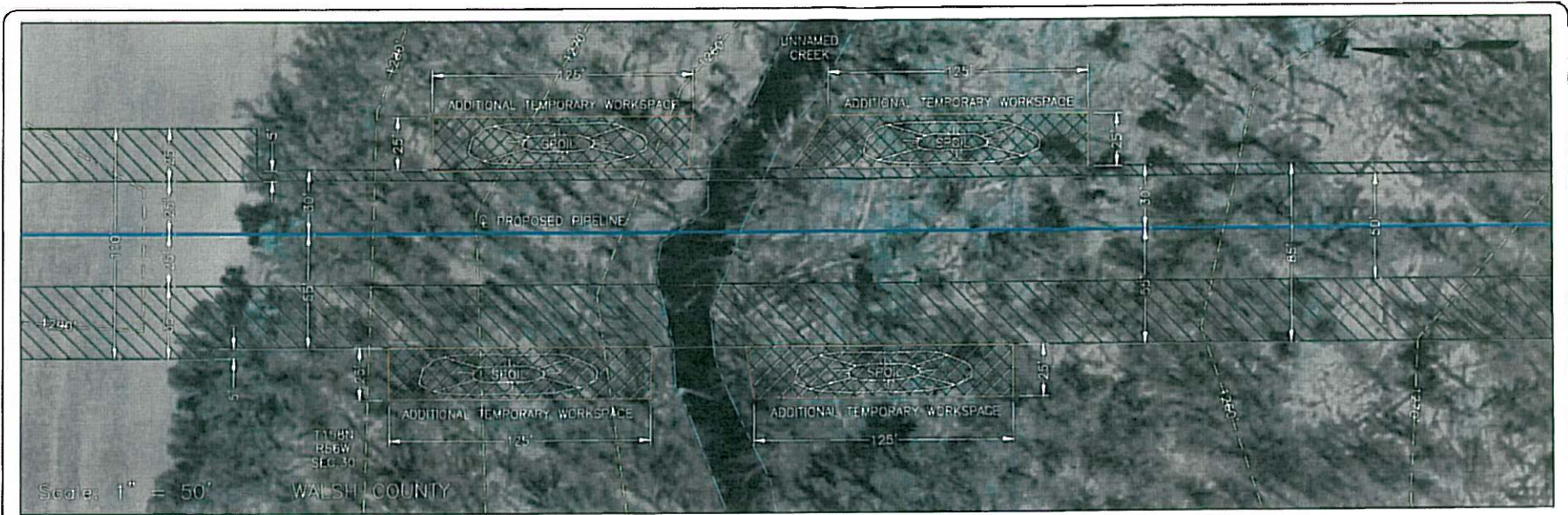
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NIAGRA PUMP STATION
 FIA # 1802 CHANAGE: MP 36.3 DISCIPLINE # 03

**UNNAMED CREEK
 FORESTED STREAM CROSSING
 WALSH COUNTY, NORTH DAKOTA**

SCALE: As Shown DRAWING No: 1802-03-ML-03-052 REV: 00

TIME-DESIGNFILE




DRAWING No		TITLE	
MAIN LINE PROFILE		PROFILE_ML.dwg	
UTM 14 BASE FILE		ML_14_OC_BASE.dwg	
ND AERIAL		ND15.sld	

DRAFT

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PRJL MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES0053885	CB	SS	HF	RG	RG


JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPE ON THE NORTH SIDE OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 3173 CUBIC YARDS OF GRADING AND TRENCH SPOIL.



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TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-385-5441
Fax: 1-850-385-5523



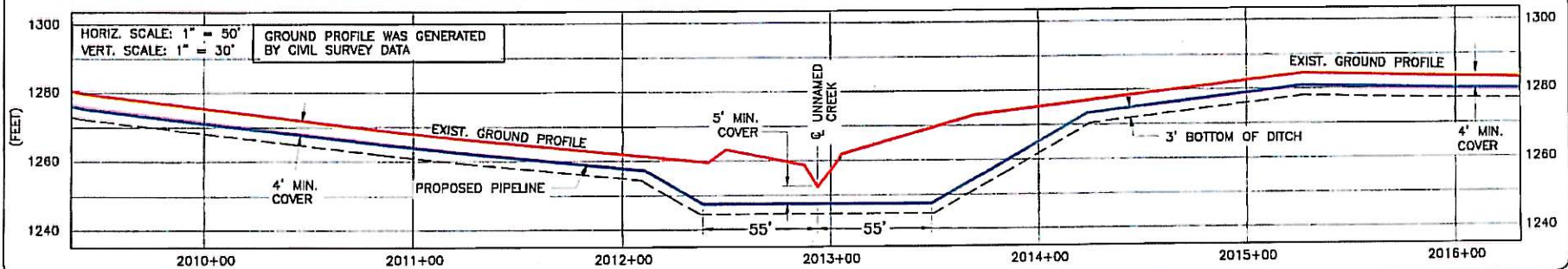
NIAGRA PUMP STATION

FIA # 1802	CHAINAGE: MP 37.2	DISCIPLINE # 03
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UNNAMED CREEK
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA

SCALE As Shown	DRAWING No 1802-03-ML-03-053	REV 00
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TIME-DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	ML_14_OC_BASE.dwg
ND AERIAL	ND18.aid

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES0053885	CB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPE ON THE SOUTH SIDE OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 6000 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
 1300 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida, USA 32308
 Phone: 1-850-385-8441
 Fax: 1-850-385-8623

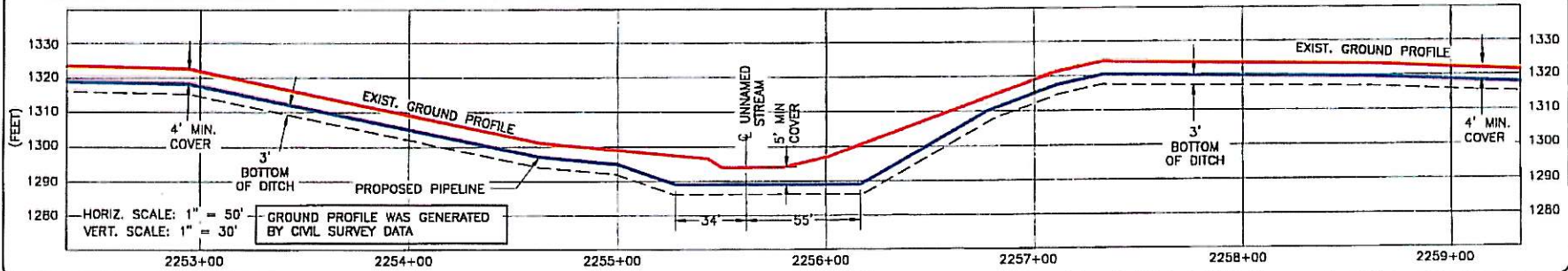
NIAGRA PUMP STATION

FIA # 1802	CHAINAGE: MP 38.1	DISCIPLINE # 03
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**UNNAMED CREEK
 FORESTED STREAM CROSSING
 WALSH COUNTY, NORTH DAKOTA**

SCALE As Shown	DRAWING No 1802-03-ML-03-054	REV 00
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TIME DESIGNFILE



DRAWING No		TITLE						
MAIN LINE PROFILE		PROFILE_ML.dwg						
UTM 14 BASE FILE		ML_14_OC_BASE.dwg						
NOTES AND LEGEND		ND 18.aid						
REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES005388S	BM	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPES ON BOTH SIDES OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE STREAM.
- 3180 CUBIC YARDS OF GRADING AND TRENCH SPOIL.



PREPARED BY
TROW ENGINEERING CONSULTANTS INC.
 1300 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida, USA 32308
 Phone: 1-850-385-5141
 Fax: 1-850-383-5523



EDINBURG PUMP STATION

FIA # 1802 CHAINAGE: MP 42.7 DISCIPLINE # 03

UNNAMED STREAM
 FORESTED STREAM CROSSING
 WALSH COUNTY, NORTH DAKOTA

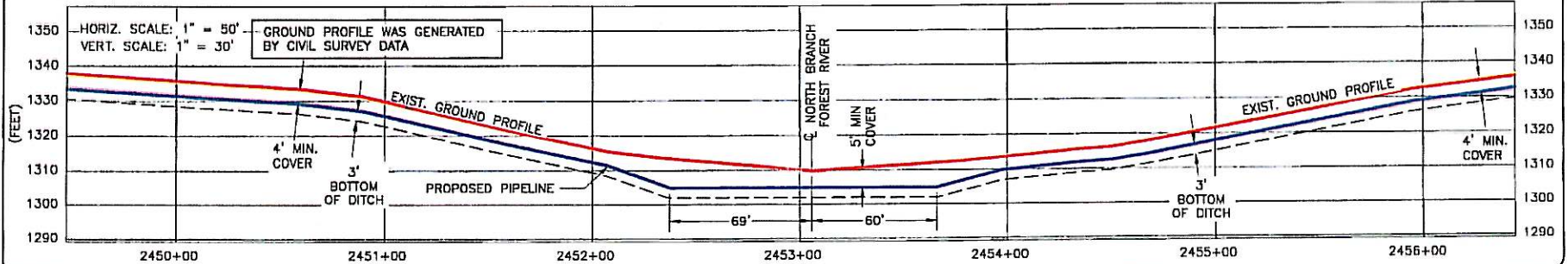
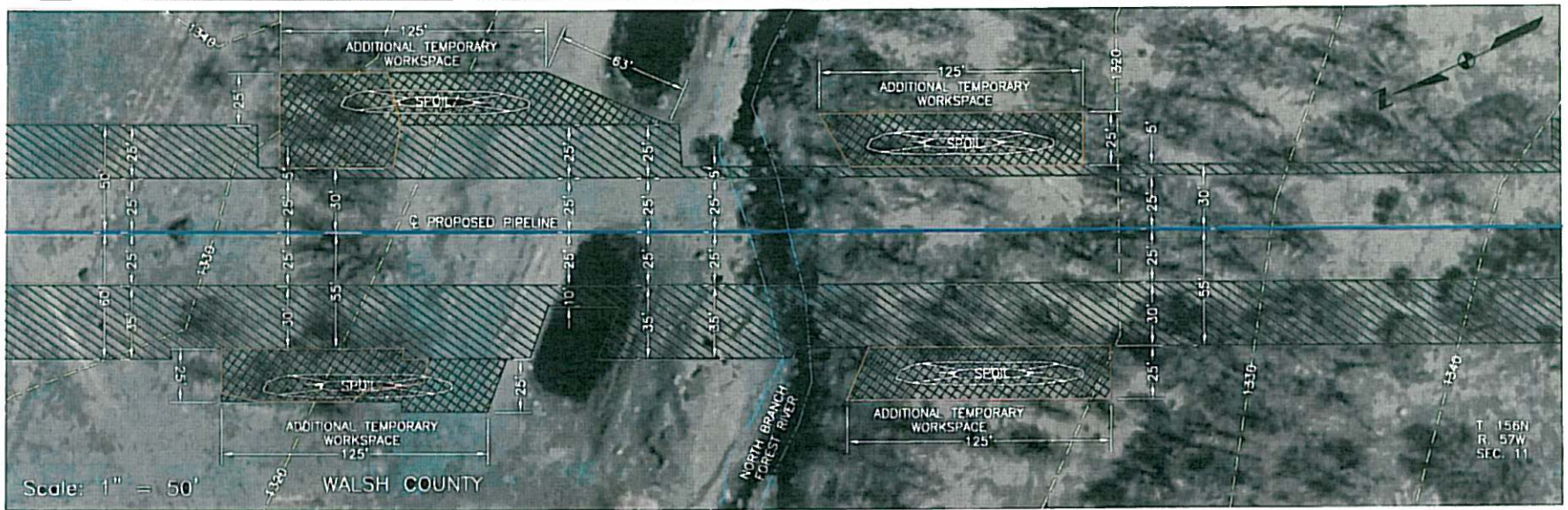
SCALE As Shown DRAWING No 1802-03-ML-03-055 REV 00

TC_UB_BRL.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAIN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	ML_14_OC_BASE.dwg
NOTES AND LEGEND	NOTES_LEGEND.dwg

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THE50033885	BM	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPES ON THE NORTH SIDE OF THE CROSSING AND A SUBSTANTIAL LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL LATERAL MIGRATION OF THE RIVER.
- 3256 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

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In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-363-5441
Fax: 1-850-363-5523

EDINBURG PUMP STATION

FIA # 1802 CHAINAGE: MP 48.4 DISCIPLINE # 03

**NORTH BRANCH FOREST RIVER
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA**

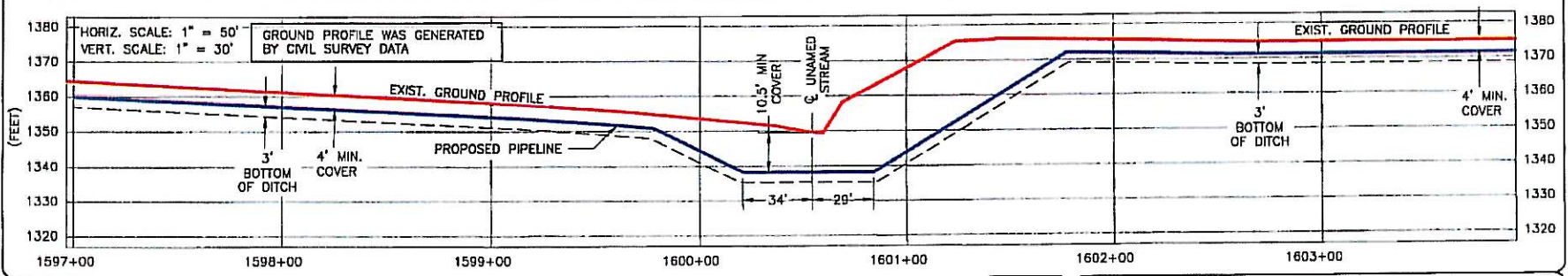
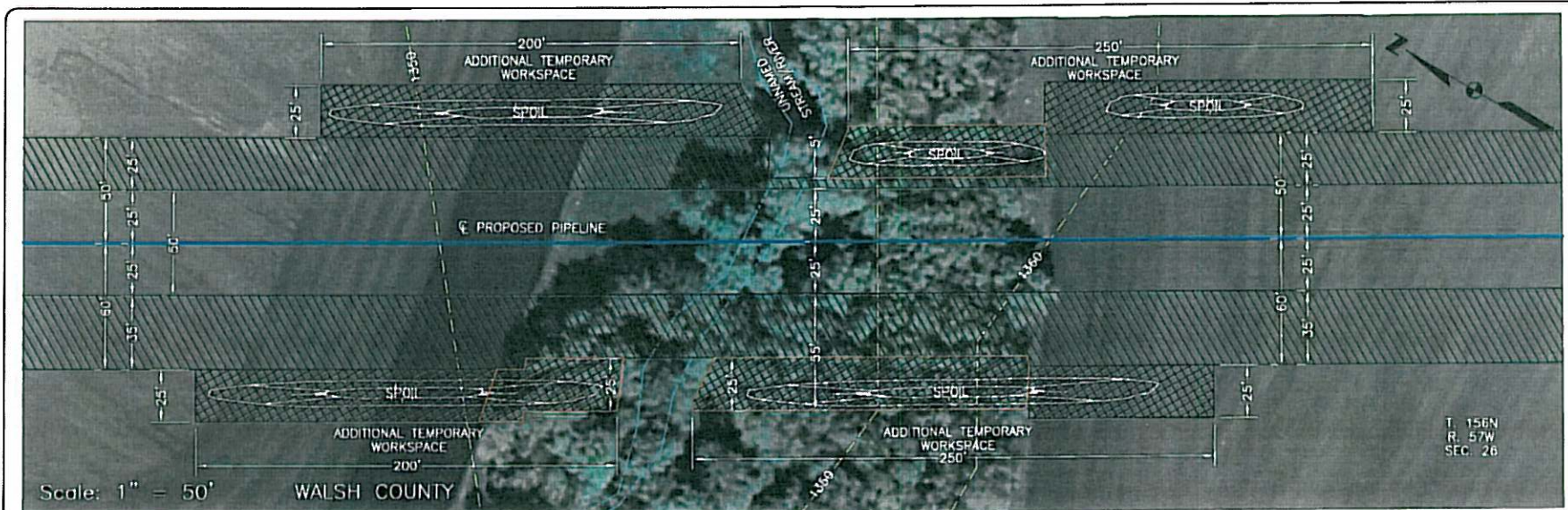
SCALE: As Shown DRAWING No: 1802-03-ML-03-056 REV: 00

TC_UB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME-DESIGNFILE



DRAWING No		TITLE	
MAIN LINE PROFILE		PROFILE_ML.dwg	
UTM 14 BASE FILE		ML_14_GC_BASE.dwg	
NOTES AND LEGEND		ND 20.sld	

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES0053685	BM	SS	HF	RD	RD

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF THE STEEP SLOPE ON THE SOUTH SIDE OF THE CROSSING, INCREASED DEPTH AND LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL SCOUR DEPTH AND LATERAL MIGRATION OF STREAM RESPECTIVELY.
- 6142 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

PREPARED BY
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-309-3441
Fax: 1-850-353-5823

EDINBURG PUMP STATION

FIA # 1801	CHAINAGE: MP 49.2	DISCIPLINE # 03
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**UNNAMED STREAM
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA**

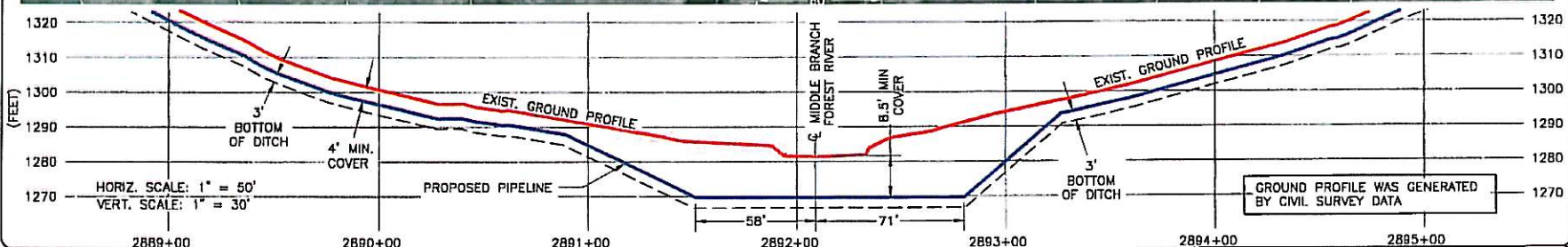
SCALE As Shown	DRAWING No 1802-03-ML-03-057	REV 00
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TC_UB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS		TITLE						
DRAWING No		PROFILE_ML.dwg						
MAN LINE PROFILE		PROFILE_ML.dwg						
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NOTES AND LEGEND		ND 23.9D						
REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES005388S	BM	SS	HF	RC	RC

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED FROM GRADING OF STEEP SLOPES ON BOTH SIDES OF THE RIVER AND INCREASED DEPTH AND LENGTH OF EXTRA DEPTH DITCH AT THE CROSSING THAT IS REQUIRED TO ADDRESS POTENTIAL SCOUR DEPTH AND LATERAL MIGRATION OF THE RIVER RESPECTIVELY.
- 6625 CUBIC YARDS OF GRADING AND TRENCH SPOIL.

TransCanada
In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.

1300 Metropolitan Boulevard, Suite 200
Tulsa, Oklahoma, USA 74128
Phone: 1-800-369-8441
Fax: 1-800-369-8023

EDINBURG PUMP STATION

FIA # 1802	CHAINAGE: MP 54.8	DISCIPLINE # 03
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**MIDDLE BRANCH FOREST RIVER
FORESTED STREAM CROSSING
WALSH COUNTY, NORTH DAKOTA**

SCALE As Shown	DRAWING No 1802-03-ML-03-058	REV 00
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TC_UL_BR.DWG 11X17

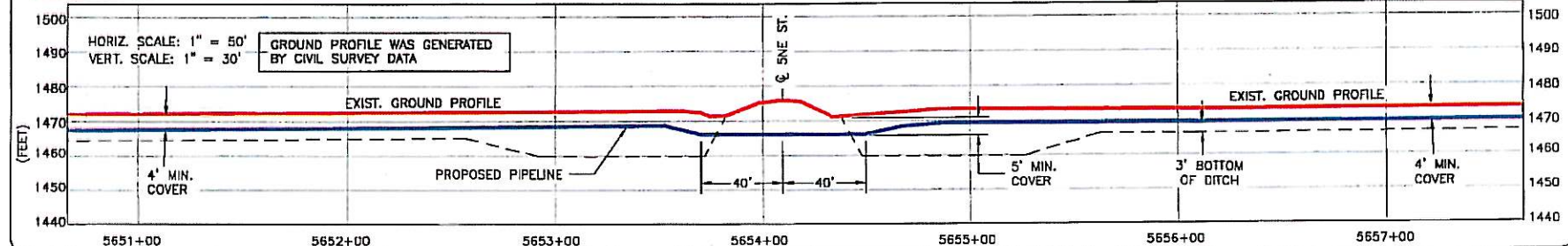
CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



Scale: 1" = 50'



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAIN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	ML_14_OC_BASE.dwg
NOTES AND LEGEND	NOTES_LEGEND.dwg

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE ND PSC MAR 28 08	THES005388C	TB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED BY EXCAVATING SAFE BORE AND RECEIVING PITS. BECAUSE WORKERS WILL OPERATE IN THE EXCAVATION, SAFETY CONSIDERATIONS REQUIRE THE TRENCH WALLS TO BE APPROPRIATELY SLOPED, RESULTING IN A SIGNIFICANTLY LARGER AND WIDER EXCAVATION, WITH RESULTING LARGE VOLUMES GENERATED.
- 4,213 CUBIC YARDS OF GRADING AND BORE PITS.

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tulsa, Oklahoma, USA 74128
Phone: 1-800-385-3441
Fax: 1-800-385-2523

EDINBURG PUMP STATION

FIA # 1803	CHAINAGE: MP107.1	DISCIPLINE # 03
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**5TH NE STREET
FORESTED ROAD CROSSING
STEELE COUNTY, NORTH DAKOTA**

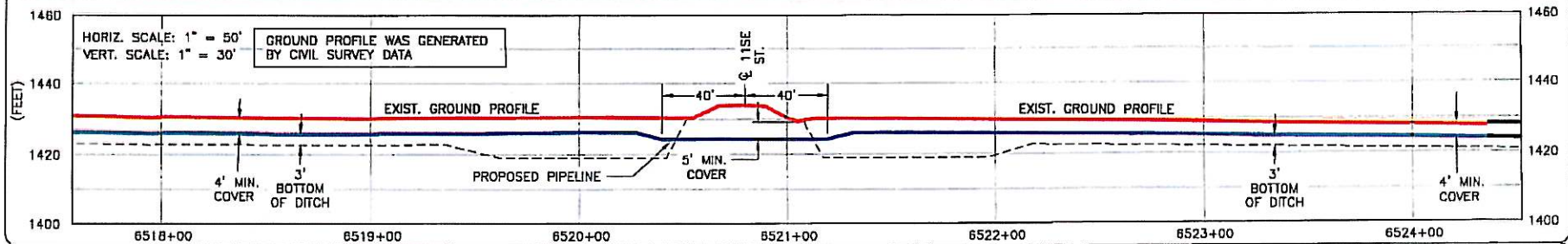
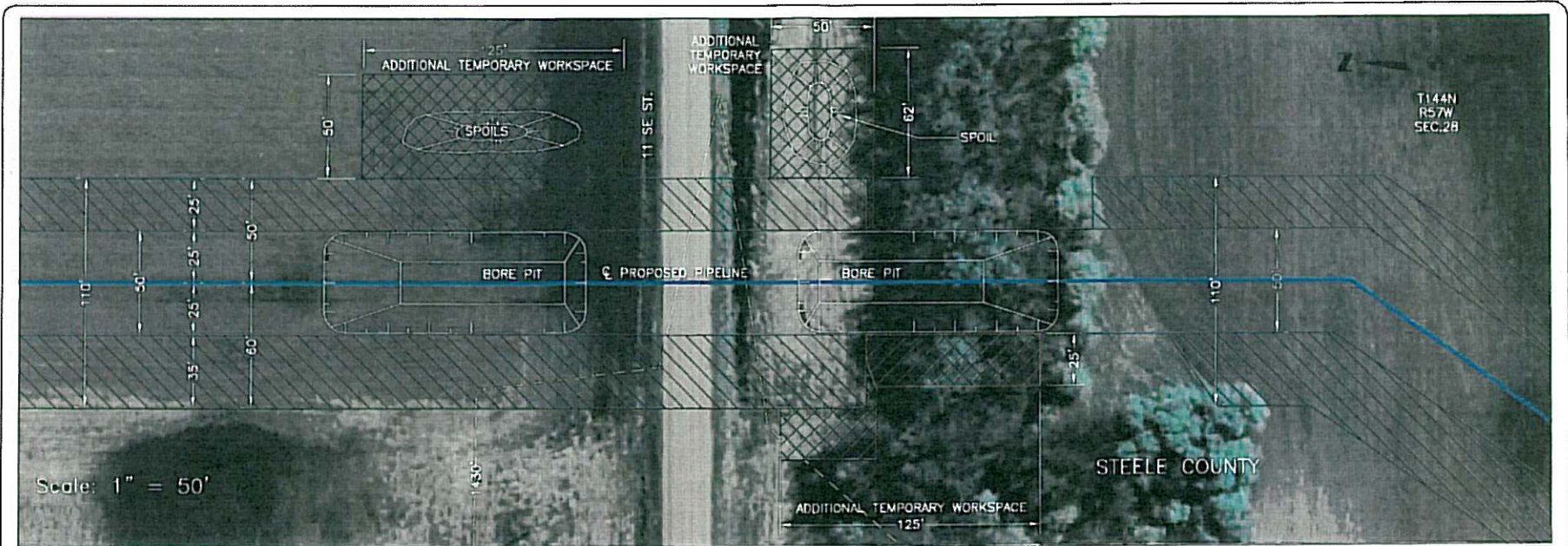
SCALE As Shown	DRAWING No 1803-03-ML-03-101	REV 00
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TC_VB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME-----DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
MAIN LINE PROFILE	PROFILE_ML.dwg
UTM 14 BASE FILE	ML_14_OC_BASC.dwg
ND AERIAL	NDS1.aid

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	NAR 28 08	FILED WITH THE ND PSC MAR 28 08	THE50053885	TB	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED BY EXCAVATING SAFE BORE AND RECEIVING PITS. BECAUSE WORKERS WILL OPERATE IN THE EXCAVATION, SAFETY CONSIDERATIONS REQUIRE THE TRENCH WALLS TO BE APPROPRIATELY SLOPED, RESULTING IN A SIGNIFICANTLY LARGER AND WIDER EXCAVATION, WITH RESULTING LARGE VOLUMES GENERATED.
- 4,213 CUBIC YARDS OF GRADING AND BORE PITS.

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida, USA 32308
 Phone: 1-850-385-5441
 Fax: 1-850-385-8523

LUVERNE PUMP STATION

FA # 1803	CHAINAGE: MP 123.6	DISCIPLINE # 03
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**11TH SE STREET
 FORESTED ROAD CROSSING
 STEELE COUNTY, NORTH DAKOTA**

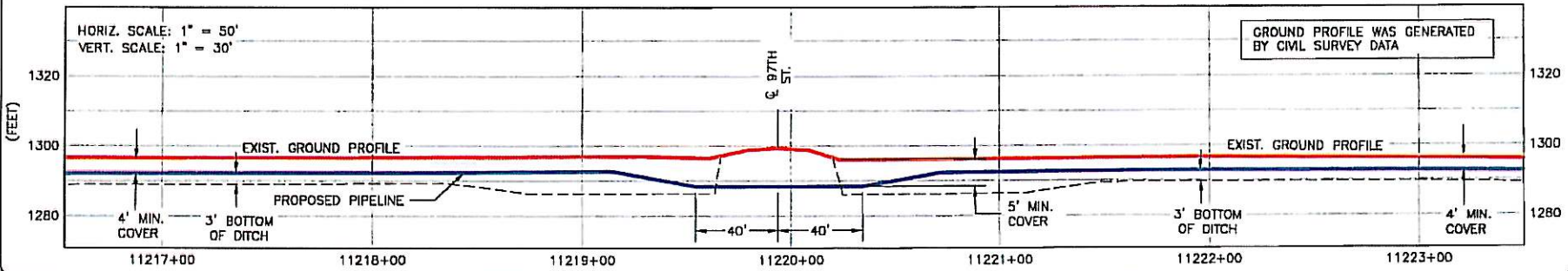
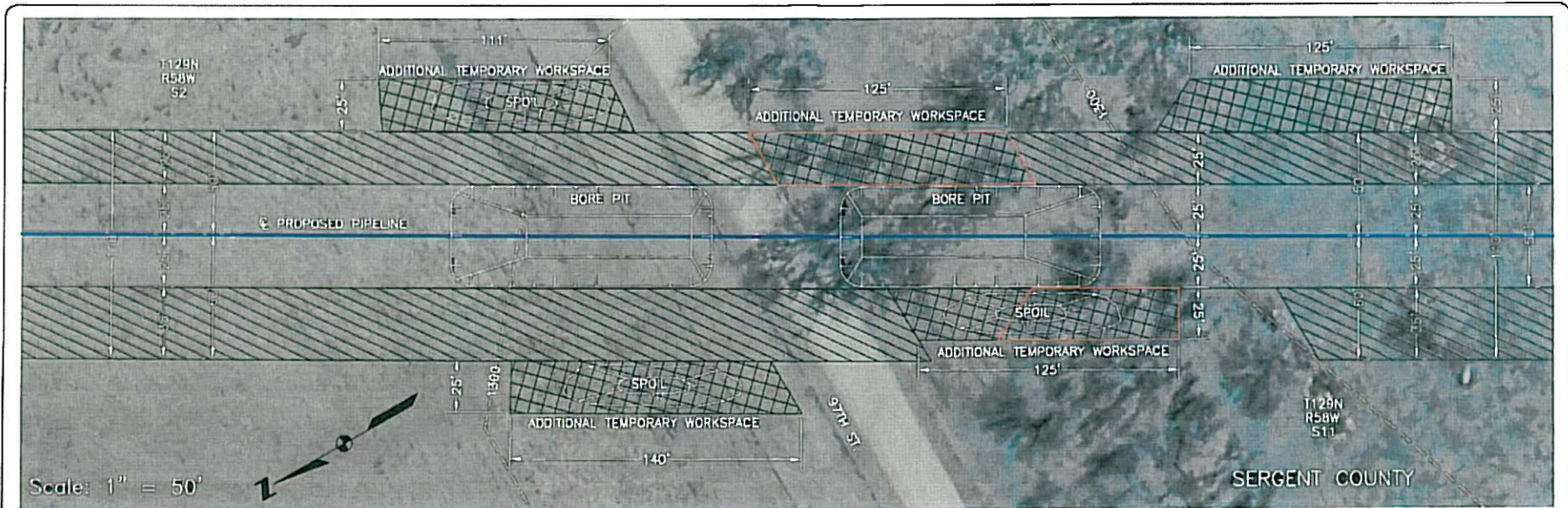
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TC_VB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI B (11x17)

TIME DESIGNFILE



REFERENCE DRAWINGS	
DRAWING No	TITLE
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ML_14_OC_BASE.dwg	ML_14_OC_BASE.dwg
NOTES_LEGEND.dwg	NOTES_LEGEND.dwg

REV No	DATE	REVISION	PROJECT CODE	DRAFT BY	DRAFT CHK	DESIGN BY	DESIGN CHK	PROJ MGR
0	MAR 28 08	FILED WITH THE NO PSC MAR 28 08	THE50053883	AH	SS	HF	RG	RG

JUSTIFICATION

- EXTRA WORK SPACE REQUIRED TO STORE A SIGNIFICANT VOLUME OF SPOIL GENERATED BY EXCAVATING SAFE BORE AND RECEIVING PITS. BECAUSE WORKERS WILL OPERATE IN THE EXCAVATION, SAFETY CONSIDERATION REQUIRE THE TRENCH WALLS TO BE APPROPRIATELY SLOPED, RESULTING IN A SIGNIFICANTLY LARGER AND WIDER EXCAVATION, WITH RESULTING LARGE SPOIL VOLUMES GENERATED.
- AVOID TREES ON SOUTH SIDE TO EXTENT POSSIBLE.
- 4,213 CUBIC YARDS OF GRADING AND BORE PITS.

TransCanada
In business to deliver

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida, USA 32308
Phone: 1-850-363-5411
Fax: 1-850-363-5523

LUDDEN PUMP STATION

FIA # 1805	CHAINAGE: MP 212.6	DISCIPLINE # 03
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97TH ST.
FORESTED ROAD CROSSING
SERGENT COUNTY, NORTH DAKOTA

SCALE As Shown	DRAWING No 1805-03-ML-03-101	REV 0
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TC_VB_BR.DWG 11X17

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

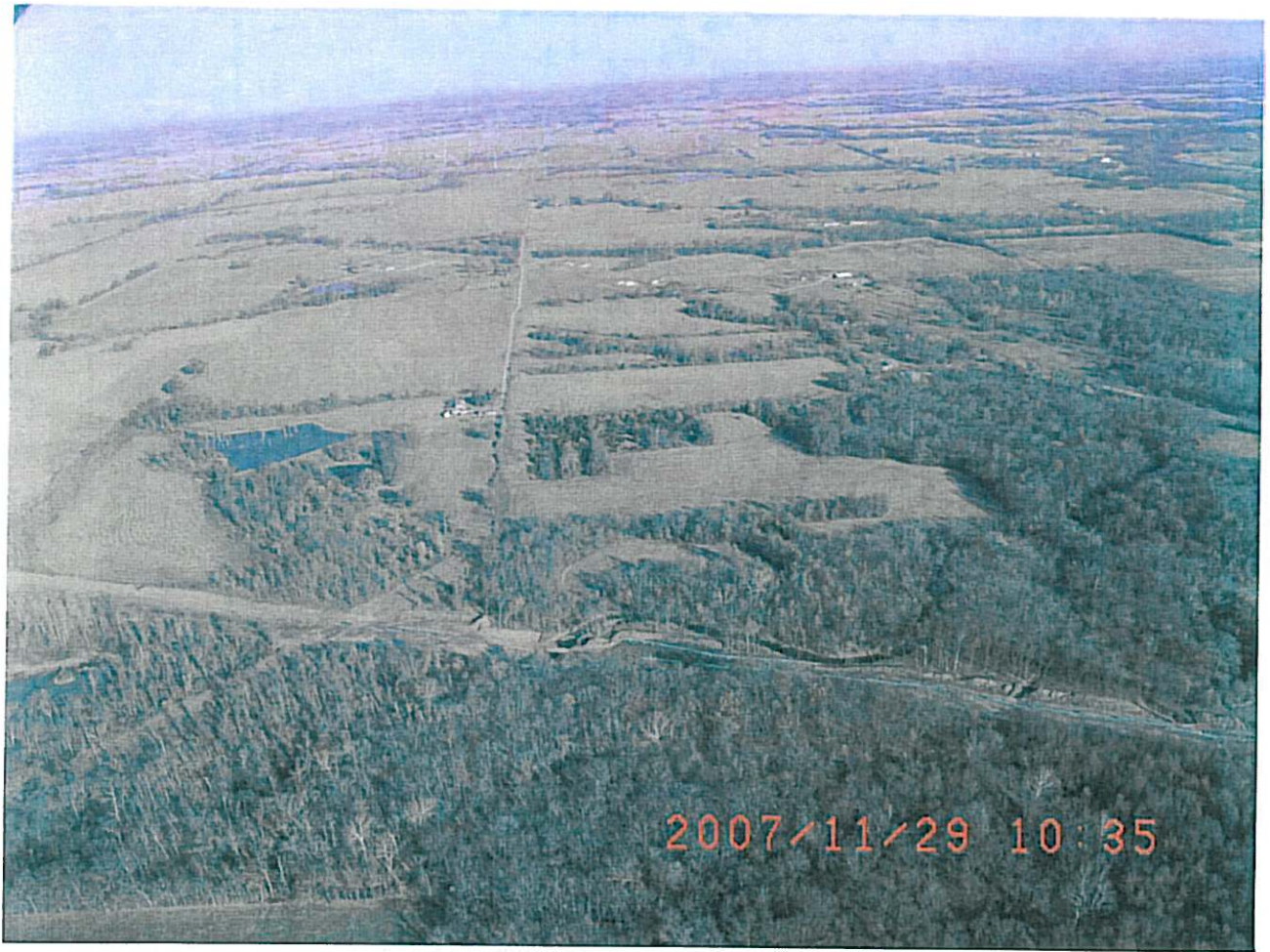
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TIME DESIGNFILE

EXHIBIT B



2007/11/29 10:34



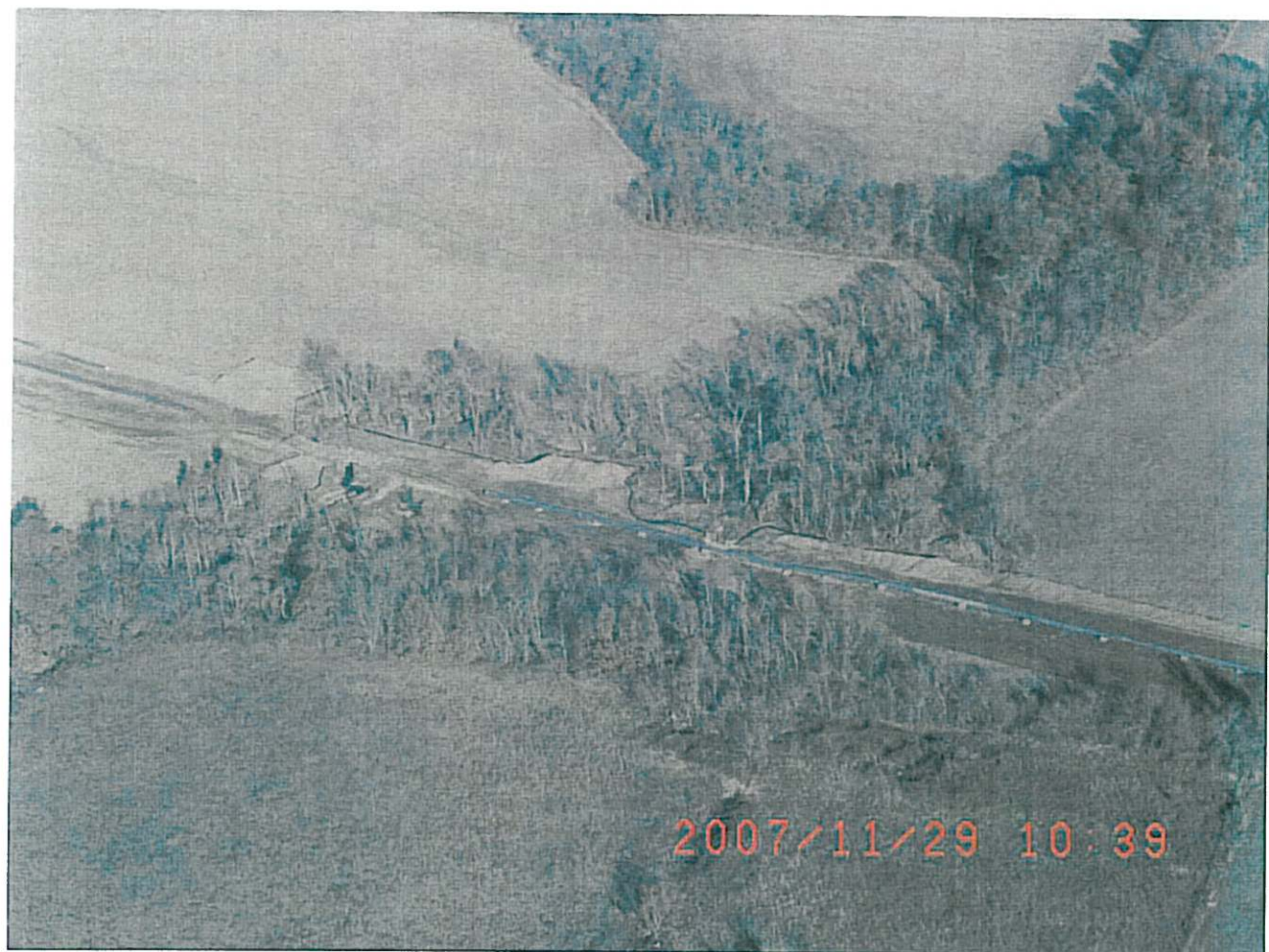
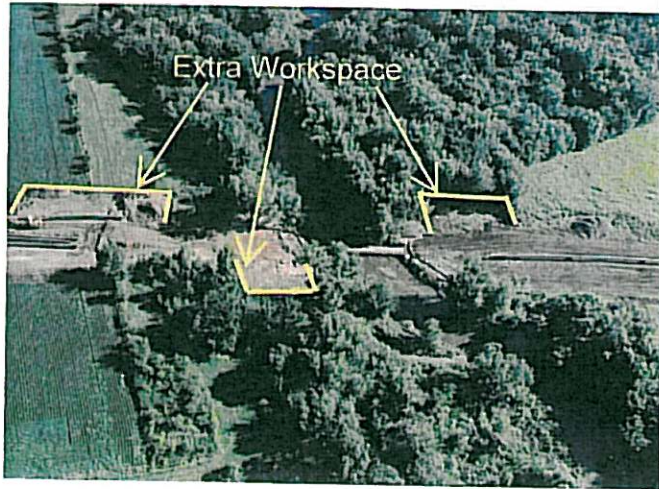
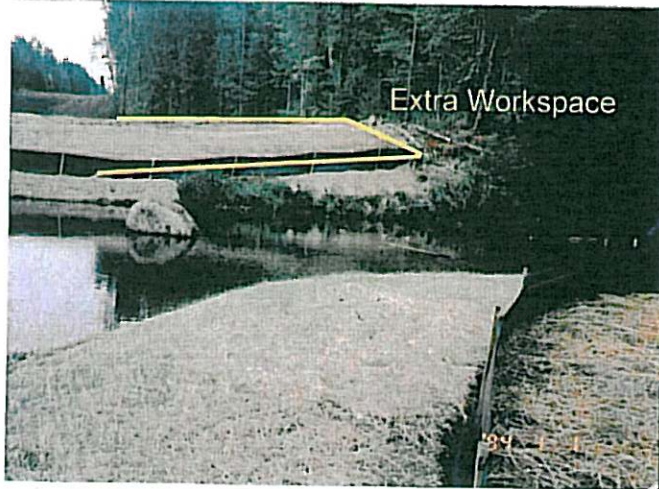
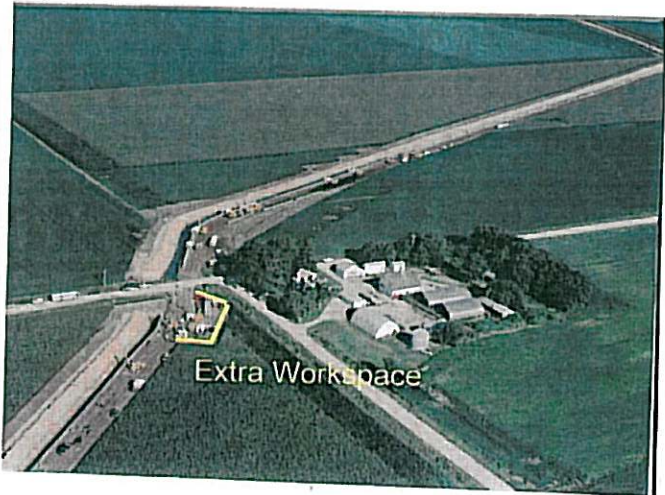


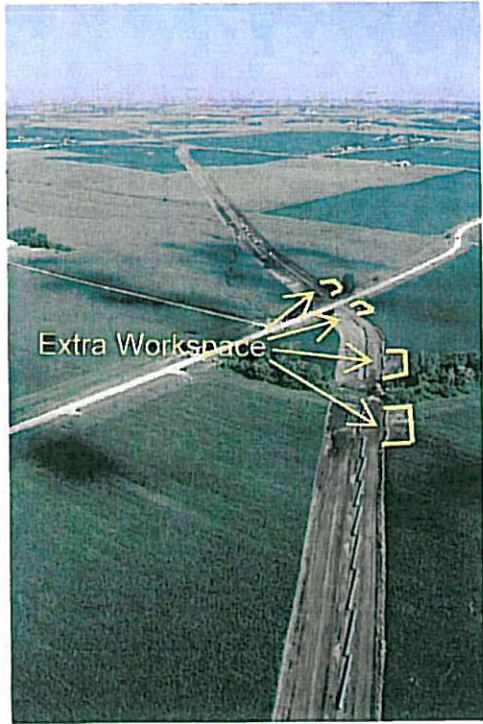




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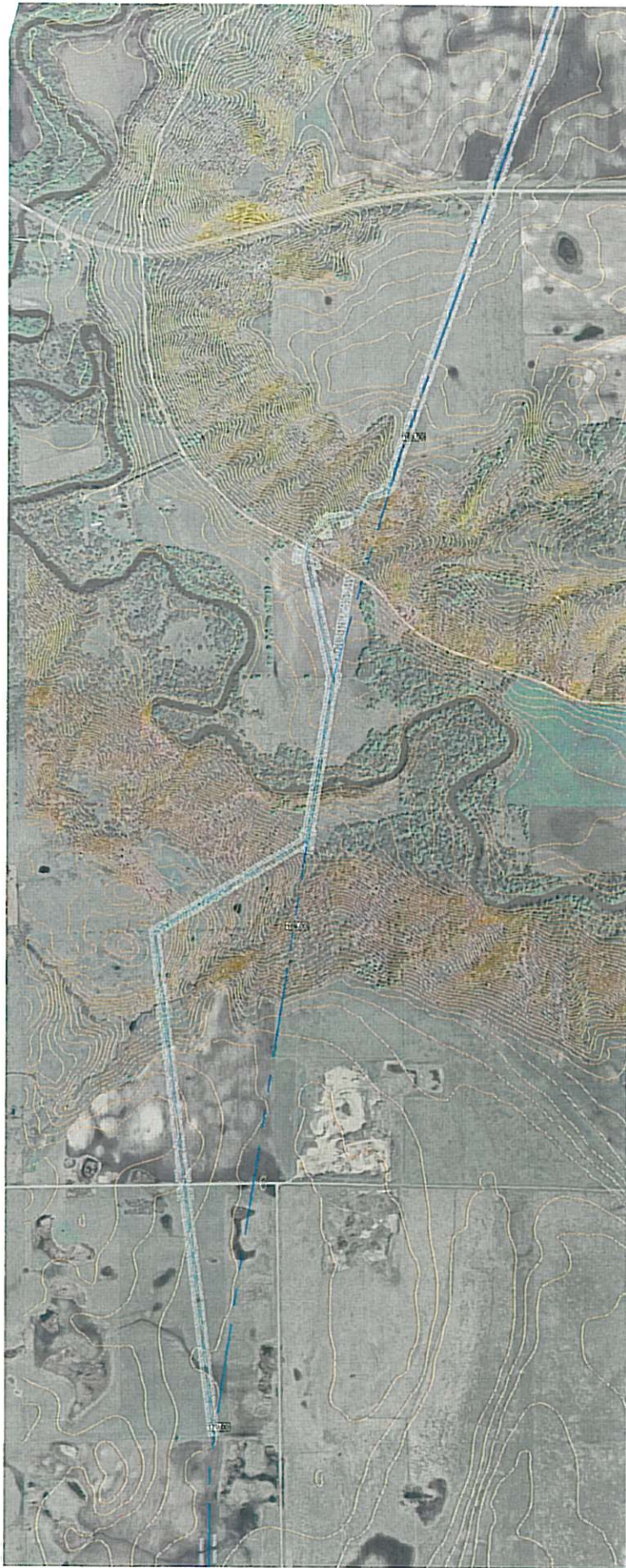







Extra Workspace





10 METRE INTERVAL CONTOUR LINES
FEBRUARY 14, 2008 KEYNOTE CONTRACTORS
QUYENHONG RIVER RE-ROUTING


TRANS CANADA
TRANSPORTATION DIVISION
PROJECT: QUYENHONG RIVER RE-ROUTING
DRAWING: 2008-02-14
DATE: 2008-02-14
SCALE: 1:5000
SHEET: 1 OF 1
PROJECT NO: 2008-02-14