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June 3, 2010

Dr. Burl W. Haar
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

Re: Expansion of Lakefield Junction Substation – Request for Minor Alteration Authorization

Dear Dr. Haar:

ITC Midwest LLC ("ITC") is electronically filing this request for a Minor Alteration authorization pursuant to Minnesota Rules part 7850.4800. We will also provide three paper copies of this request to the Minnesota Public Utilities Commission ("Commission") and the Minnesota Office of Energy Security ("OES") via US mail.

ITC proposes to slightly expand the Lakefield Junction Substation ("Lakefield Substation"), in Jackson County. The expansion of the 345 kV substation will be constructed within the existing ITC property, located just east of Lakefield, Minnesota.

Please call me at (515) 282-5300 ext. 462 with any questions regarding this filing. Thank you for your attention to this matter.

Sincerely,

Dan Hagan

Dan Hagan
Permit Coordinator

Enclosure

cc: Gordon Olson, Jackson County Planning & Environmental Services – w/encl. (1)
Deborah Pile, Department of Commerce – w/encl. (3)

STATE OF MINNESOTA
BEFORE THE
PUBLIC UTILITIES COMMISSION

David C. Boyd	Chair
J. Dennis O'Brien	Commissioner
Thomas Pugh	Commissioner
Phyllis Reha	Commissioner
Betsy L. Wergin	Commissioner

In the Matter of the Expansion of Lakefield Junction Substation – Request for Minor Alteration Authorization

APPLICATION FOR A MINOR ALTERATION IN TRANSMISSION LINE

Docket No. _____

PROJECT DESCRIPTION

According to Minnesota Rules part 7850.4800, ITC requests permission for a "minor alteration" of its Lakefield Junction Substation located in Jackson County, Minnesota.

The substation site is located just east of Lakefield, Minnesota on the east side of 460th Avenue in Jackson County. The site is on a 38.5 acre parcel owned by ITC and nearby the intersection of a 161 kV transmission line and several 345kV transmission lines owned by ITC and Xcel Energy.

The east substation fence will be moved 85 feet to the east to 16 feet from the east property line. The fence will also be extended 104 feet to the north. This will expand the substation footprint from 6.8 acres to 9 acres, an increase of 2.2 acres, or approximately 32%.

A third row of breakers will be added east of the existing two rows of breakers. The 345 kV bus within the substation will be expanded to the north. A new control building will be constructed for the 345 kV yard and both 345/161 kV transformers. The cost of the project is estimated at $8,800,000.

Drawings showing the site plan and maps showing the location are enclosed. (Figures 1-4)

The Lakefield Substation minor alteration is scheduled to begin in July 2010 with an in-service date of November 1, 2010.

PROJECT NEED

The expansion of the ITC Lakefield Substation is needed to allow for the interconnection of the approximately 200 MW Lakefield Wind Project, being constructed by Lakefield Wind Project, LLC. As part of the Lakefield Wind Project, a new 0.25 mile 345 kV line is being constructed to the Lakefield Substation from the adjacent collector substation that will be owned by Lakefield Wind Project, LLC. The Lakefield Wind Project and associated 345 kV transmission line are being permitted by the Commission in a separate docket (WS-09-1239) and are not a part of this minor alteration request.

The Lakefield Substation expansion will upgrade the current 345 kV portion of the substation from a ring bus design to a breaker and one-half design to accommodate the new 345 kV line. The existing substation currently uses five terminals of the existing 345 kV ring bus. ITC Facility Connection Requirements require that no more than five terminals are allowed on a ring bus operating at voltages greater than 100 kV.

ANALYSIS

Minnesota Rules part 7850.4800 provides the standard for determining whether a change in a high voltage transmission line is a minor alteration: "A minor alteration is a change in . . . a high voltage transmission line that does not result in significant changes in the human or environmental impact of the facility."

The proposed expansion of the Lakefield Substation qualifies as a minor alteration, for the following reasons:

- Because the transmission substation will be expanded within the existing parcel footprint, aesthetic impacts will be minimal.
- There will be no agricultural impacts, as the substation site is not currently farmed.
- There will be no new tree clearing for this project as the substation expansion area is already rocked or grassland.
- The substation expansion is being done on existing ITC property. Therefore, no adjacent property will be impacted.
- There will be minimal impacts to adjacent landowners as access to the site is through an existing gravel access road on ITC property. Vehicles will be able to travel from the paved County road to the project site without crossing adjacent landowners' private property.
- The Department of Natural Resources has no record of endangered or otherwise threatened species in the immediate area.
- New infiltration basins and other techniques will be used to reduce any impacts from storm water and sediment. The water quality of storm water runoff will actually be improved.
- The Lakefield Substation has been in service for approximately 40 years. Expanding the substation on the existing parcel will have no significant human or environmental impacts.

NOTICE AND COMMENT REQUIREMENTS

Minnesota Rules part 7850.4800, subpart 2, provides that the Commission shall mail notice of receipt of the application to those persons on the general list and to those persons on the project contact list if such a list exists. The commission shall provide at least a ten day period for interested persons to submit comments on the application or to request that the matter be brought to the Commission for consideration.

Pursuant to Minnesota Rules part 7829.0700, ITC requests that the following persons be placed on the Commission's official list for this matter:

Dan Hagan
Permit Coordinator
ITC Midwest
100 E. Grand Ave., Suite 230
Des Moines, IA 50309

Dave Grover
Manager, Regulatory Strategy
ITC Midwest
444 Cedar Street, Suite 1020
St. Paul, MN 55101

Utility Employee Responsible for Filing

Dan Hagan
Permit Coordinator
ITC Midwest
100 E. Grand Ave., Suite 230
Des Moines, IA 50309
515-282-5300 ext. 462 office
515-897-8236 cell
515-282-0500 fax

CONCLUSION

ITC respectfully requests the Commission authorize the Lakefield Junction Substation expansion as a minor alteration, as provided in Minnesota Rules part 7850.4800.

Dated: June 3, 2010

Respectfully submitted,

Dan Hagan

Dan Hagan, Permit Coordinator
ITC Holdings, Inc.
d/b/a/ ITC Midwest, LLC

NO SCALE

VICINITY MAP OF LAKEFIELD JUNCTION SUBSTATION

Figure 1

Figure 2

ITC Midwest

0	02-25-2010	ORIGINAL ISSUE (M0002576, 25771 FOR PERMITTING	BLV-DA	BLV-RD

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LAKEFIELD JUNCTION — LAKEFIELD, MN

SUBSTATION EXPANSION EXHIBIT

DWG. NO.

EC1-M0002576

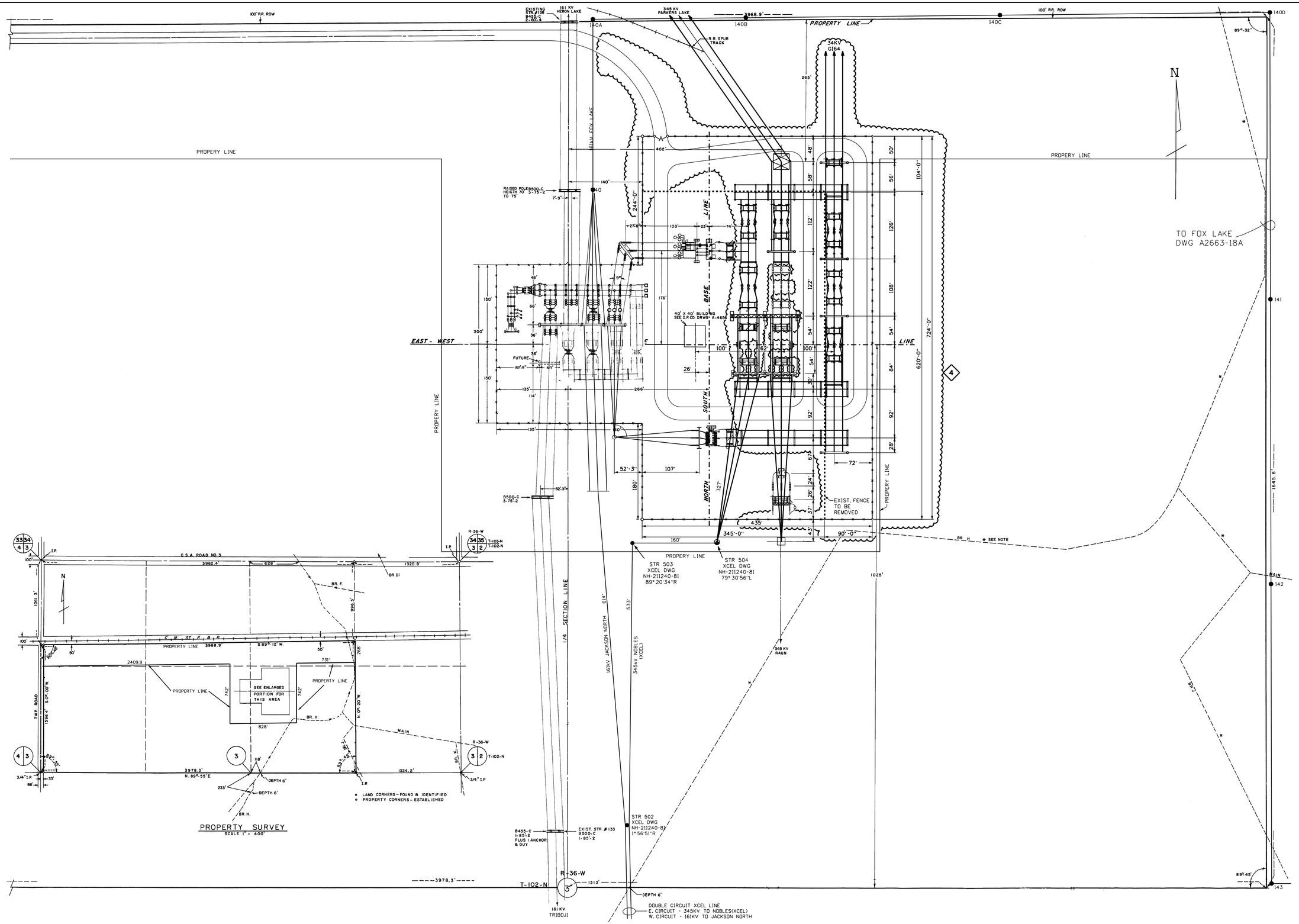

Figure 3 - SITE PLAN

MM-DD-YYYY	DESCRIPTION OF WORK (WR #) FOR CONST	AAA-BBB
DATE	DESCRIPTION OF CHANGE	BY
WORKING REVISIONS		

ND.	DATE	REVISION	BY	CHK'D	APV'D
4	04-01-2010	345KV UPGRADES (W0002576, 2577) FOR REVIEW	BLV-RH	BLV-CN	
3	07-02-2009	JACKSON N. SUB INSTALL (W0002167) AS BUILT	RLW	DLW	
2	11-21-07	ADD 345KV XCEL LINE (AS CONST.)	RT	RT	
1	07-10-06	ADD 2ND FOXLAKE LINE (AS CONST.)	NKK	CKP	
A	12-31-01	ADD SOUTH 345/161KV XFMR (AS CONST.)	CLS	JAH	
0	11-14-68	ORIGINAL ISSUE ( )	WCW		

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ITC

ITC MIDWEST

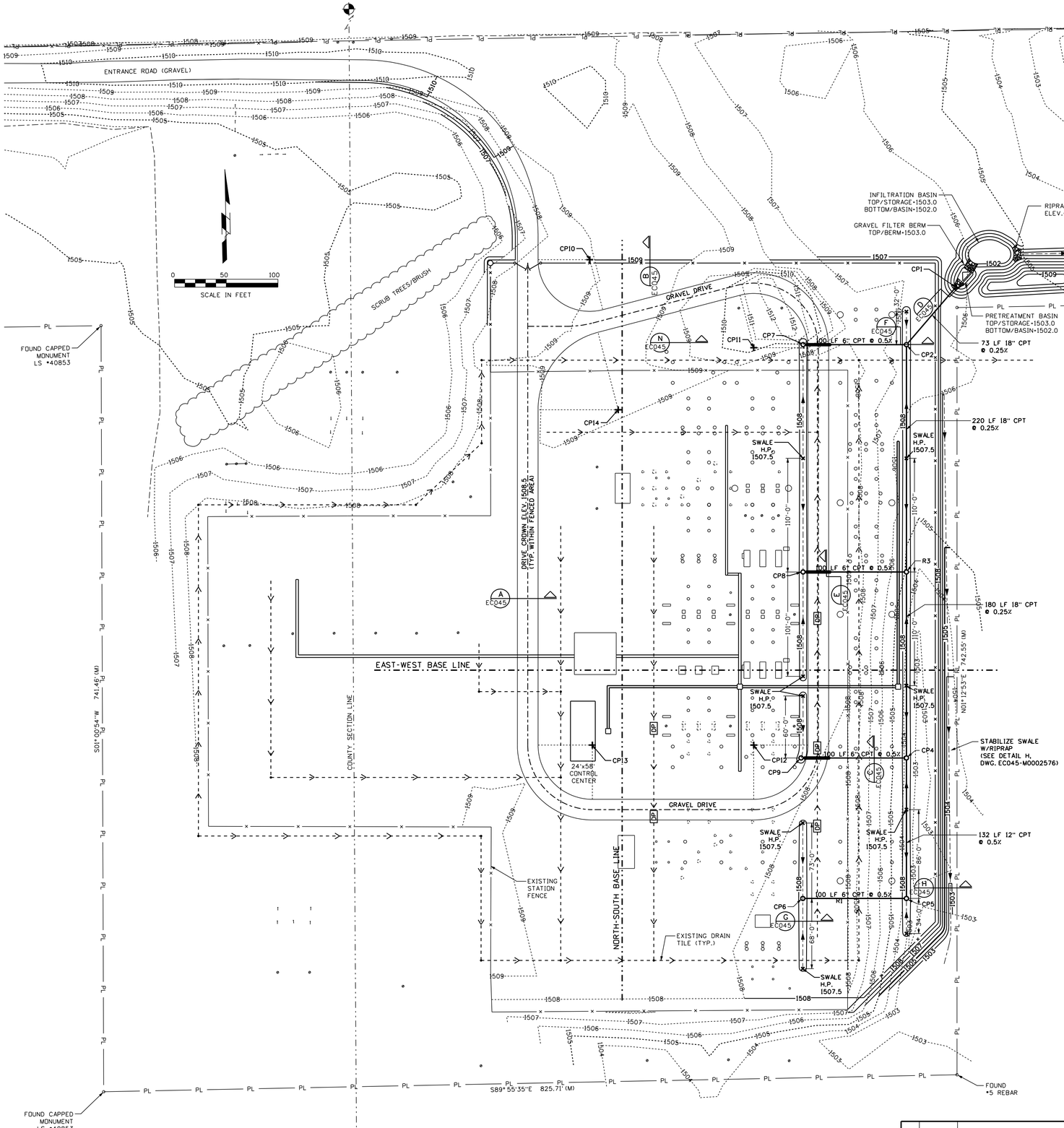
LAKEFIELD JUNCTION — LAKEFIELD, MN.

LAKEFIELD 345/161/69KV SUBSTATION

Scale: 1" = 80'-0"

DWG. NO. A4666-01

TB.V8.01.01
Plotted: $DATE$
File: $FILE$



SITE PREPARATION NOTES

1. PROTECT ADJACENT PROPERTY DURING CONSTRUCTION

2. KEEP ADJACENT PUBLIC STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS.

3. REMOVAL OR ABANDONMENT OF PUBLIC UTILITIES SHALL BE FULLY COORDINATED WITH APPROPRIATE UTILITY SUPPLIER AND REGULATORY AGENCIES.

4. ANY EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) THAT THE CONTRACTOR'S OPERATIONS DAMAGE SHALL BE REPAIRED BY THAT CONTRACTOR AT HIS/HER COST.

5. ALL FENCES WHICH ARE IMPACTED BY THIS PROJECT ARE TO BE REMOVED AND REPLACED TO AN EQUAL OR BETTER CONDITION. SALVAGED MATERIALS MAY BE USED UPON APPROVAL OF THE OWNERS REPRESENTATIVE. FENCES SHALL NOT BE REMOVED UNTIL PROPERTY OWNER HAS BEEN NOTIFIED.

6. EXISTING FIELD TILE LINES ENCOUNTERED IN THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR IN ONE OF THE FOLLOWING WAYS: A. CONNECT TILE TO THE NEAREST STORM SEWER. B. DAYLIGHT TO FINISHED GROUND. C. REPAIR TILE AND MAINTAIN SERVICE.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF A TILE IS ENCOUNTERED AND SHALL INDICATE THE METHOD OF RESOLVING THE CONFLICT. THE ENGINEER SHALL APPROVE THE PROPOSED METHOD. THE LOCATION OF THE FIELD TILE SHALL BE RECORDED ON THE CONSTRUCTION RECORD DOCUMENTS.

GENERAL NOTES

1. THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM A TOPOGRAPHIC SURVEY DONE BY BOLTON & MENK, INC.. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND NOT SHOWN ON THIS DRAWING. THE VERIFICATION OF EXISTENCE OF, AND DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).

2. STATE LAW REQUIRES NOTICE TO 'GOPHER STATE ONE CALL' 1-800-252-1166, NOT LESS THAN 48 HOURS AND NOT MORE THAN 14 DAYS BEFORE BEGINNING ANY EXCAVATION, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS.

3. NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48-72 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY.

4. NO WORK SHALL BE PERFORMED BEYOND PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNERS REPRESENTATIVE.

5. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.

6. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT PROJECT DURATION.

7. REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF MINNESOTA.

8. SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED AS INDICATED ON THE STORMWATER POLLUTION PREVENTION PLAN. SEE DWG. EC044-M0002576.

SURFACE RESTORATION

1. ALL DISTURBED AREAS NOT PAVED OR HARD SURFACE ON THE SITE SHALL RECEIVE MINIMUM 6" TOPSOIL, SEED, MULCH AND FERTILIZER. SCARIFY AREAS TO RECEIVE TOPSOIL TO A DEPTH OF 3". REMOVE ALL STONES, WOOD AND OTHER DEBRIS LARGER THAN 2" FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL. SEED, MULCH & FERTILIZER SHALL BE PLACED PER MINNESOTA DOT STANDARD SPECIFICATION SECTIONS 3876, 3881, & 3882.

2. SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH MINNESOTA DOT STANDARD SPECIFICATIONS SECTION 2575 (USE MNDOT NATIVE SEED MIXTURE 330 APPLIED AT A RATE OF 84.5 LB/ACRE, PER 2575.3).

3. IF PERMANENT SEED CANNOT BE PLACED BY SEPTEMBER 30, THE SITE SHALL BE SOWN WITH A TEMPORARY CROP OF WINTER WHEAT (MIX 100A) AT A RATE OF 100LB/ACRE PER THE MINNESOTA POLLUTION CONTROL AGENCY "STORMWATER BEST MANAGEMENT PRACTICES MANUAL", CHAPTER 6.22.

4. STABILIZE NEW DITCH WITH MINNESOTA DOT SEED MIXTURE & TYPE 3 EROSION CONTROL BLANKET PER MNDOT SPECIFICATION 3885.

CONSTRUCTION POINT LIST

CONSTRUCTION POINT	POINT DESCRIPTION	COORDINATE	INVERT ELEVATION	SWALE L.P. ELEVATION	F.G. ELEVATION
CP1	18" END SECTION W/RIPRAP	N 574775.34 E 2322372.56	1503.16	1503.16	1508.0
CP2	24" INLET/ SWALE L.P.	N 574720.85 E 2322323.71	1503.34	1507.0	1508.0
CP3	24" INLET/ SWALE L.P.	N 574500.90 E 2322319.05	1503.89	1507.0	1508.0
CP4	24" INLET/ SWALE L.P.	N 574320.94 E 2322315.23	1504.34	1507.0	1508.0
CP5	24" INLET/ SWALE L.P.	N 574184.97 E 2322312.35	1505.00	1507.0	1508.0
CP6	18" INLET/ SWALE L.P.	N 574187.10 E 2322212.11	1505.50	1507.3	1508.3
CP7	18" INLET/ SWALE L.P.	N 574722.97 E 2322223.73	1503.84	1507.0	1508.0
CP8	18" INLET/ SWALE L.P.	N 574503.02 E 2322219.07	1504.39	1507.0	1508.0
CP9	18" INLET/ SWALE L.P.	N 574323.10 E 2322213.31	1504.84	1507.0	1508.0
CP10	50' DRIVE RADIUS	N 574809.57 E 2322019.14	-	-	-
CP11	52.5' DRIVE RADIUS	N 574721.05 E 2322175.92	-	-	-
CP12	52.5' DRIVE RADIUS	N 574336.54 E 2322167.77	-	-	-
CP13	52.5' DRIVE RADIUS	N 574339.85 E 2322011.68	-	-	-
CP14	52.5' DRIVE RADIUS	N 574663.75 E 2322043.56	-	-	-

GRADING NOTES

1. STRIP EXISTING TOPSOIL WITH THE PROJECT LIMITS AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL MAY BE STOCKPILED ON SITE AT A LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE.

2. PROOFROLL ALL FILL AREAS TO IDENTIFY SOFT OR DISTURBED AREAS IN THE SUBGRADE. ALL UNSUITABLE MATERIAL IDENTIFIED SHALL BE REMOVED AND RECOMPACTED. PROOFROLL WITH 25 TON MINIMUM GROSS VEHICLE WEIGHT.

3. REMOVE AND RECOMPACT AREAS OF SUBGRADE WHICH ARE SOFT AND UNSUITABLE TO MEET SPECIFIED LIMITS FOR DENSITY AND MOISTURE CONTENT. WHERE PROOFROLL IDENTIFIES A NEED FOR BASE REINFORCEMENT OR SUBGRADE IMPROVEMENT WITHIN LIMITS OF STATION DRIVE, THOSE AREAS SHALL BE REINFORCED WITH 'TENSAR BIAXIAL GEOGRID BX1200', OR AN OWNER APPROVED EQUAL.

4. SCARIFY EXISTING SUBGRADE TO A DEPTH OF 8" AND RECOMPACT TO 95% STANDARD PROCTOR DRY DENSITY (ASTM D-698) PRIOR TO PLACEMENT OF FILL.

5. DO NOT PLACE, SPREAD OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS.

6. PLACE FILL MATERIAL IN 6" MAXIMUM LIFTS AND COMPACT TO 95% STANDARD PROCTOR DRY DENSITY (ASTM D-698) W/-2% TO +2% OPTIMUM WATER CONTENT. FILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, DEBRIS AND OTHER DELETERIOUS SUBSTANCES.

7. FILLS PLACED BELOW LAWN AREAS SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DRY DENSITY (ASTM D-698).

8. SCARIFY SUBGRADE TO DEPTH OF 3" WHERE TOPSOIL IS SCHEDULED. SCARIFY AREAS WHERE EQUIPMENT USED FOR HAULING AND SPREADING TOPSOIL HAS CAUSED COMPACTED TOPSOIL.

9. SCARIFY AND RECOMPACT THE TOP 9" OF SUBGRADE IN ALL CUT AREAS AFTER ROUGH GRADING IS COMPLETED. COMPACT THE SUBGRADE TO 95% STANDARD PROCTOR DRY DENSITY TO WITHIN 1.0' OF FINAL SUBGRADE. THE FINAL 1.0' OF FILL TO BE COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY (ASTM D-698).

10. PROPOSED ELEVATIONS ARE TO TOP OF AGGREGATE AND FINISHED GRADE UNLESS OTHERWISE NOTED.

11. TESTING FREQUENCY:

COMPACTION TESTING
SUBGRADE: ONE TEST PER 2,500 OR 5,000 SQ. FT.
AGGREGATE SUBGRADE: ONE TEST PER 2,500 OR 5,000 SQ. FT.

STRUCTURAL BACKFILL
FOUNDATION WALLS: ONE TEST PER 100 LIN. FT. PER 8" LIFT.
FLOOR SLABS: ONE TEST PER 2,500 OR 5,000 SQ. FT.
TRENCH BACKFILL: ONE TEST PER 100 LIN. FT. PER 8" LIFT.

12. GRADE TO ENSURE SHEET FLOW FROM SITE TO NEW DITCH.

LEGEND

1082	EXISTING CONTOUR
1082	PROPOSED CONTOUR
	CONCRETE PIPE ENCASEMENT
H.P.	HIGH POINT
F.G.	FINISH GRADE
L.P.	LOW POINT
CP#	CONSTRUCTION POINT NUMBER
	PERMANENT ROCK OUTLET PROTECTION
	EQUIPMENT FOUNDATION
	COUNTY SECTION CORNER
	COUNTY SECTION LINE
PL	PROPERTY LINE
x	FENCE
Ø	EXISTING UTILITY POLE
1507	EXISTING CONTOUR LINE
1507	PROPOSED CONTOUR LINE
	SWALE CENTERLINE
	EXISTING DRAIN TILE / FLOW DIRECTION
DP	EXISTING DRAINAGE PIT

Figure 4

REFERENCE DWGS.

STORMWATER POLLUTION PREVENTION PLAN — EC044-M0002576
STORMWATER POLLUTION PREVENTION PLAN - DETAILS FOR GRADING & SOIL EROSION CONTROL — EC045-M0002576

NO.	DATE	REVISION	BY	CHK'D	APV'D
0	04-09-2010	ORIGINAL ISSUE (M0002576, 25771) FOR REVIEW	BAV-EB	BAV-DO	ITC-

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ITC Midwest

LAKEFIELD SUBSTATION — LAKEFIELD, MN.

GRADING PLAN

Scale: 1" = 50'-0"

DWG. NO. A4666-02

TB.V8.01.01
Plotted: $DATE$
File: $FILE$