

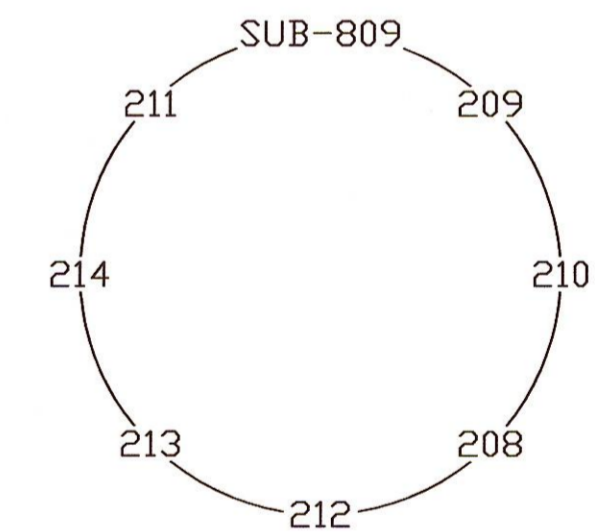
LEGEND

- X FUSION SPLICE
- FIBERS 1-12
- FIBERS 13-24

FIBER COLOR LEGEND

- | FIBER # | COLOR |
|---------|----------------------------|
| 1 | BLUE |
| 2 | ORANGE |
| 3 | GREEN |
| 4 | BROWN |
| 5 | SLATE |
| 6 | WHITE (SHOWN AS DARK GRAY) |
| 7 | RED |
| 8 | BLACK |
| 9 | YELLOW |
| 10 | PURPLE |
| 11 | ROSE |
| 12 | AQUA |

FIBER TOPOLOGY RING



NOTE:

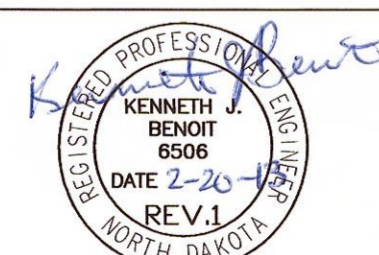
1. ALL FIBER AND SPLICING MUST ADHERE TO SIEMENS TEST SPECIFICATION FOR FIBER OPTIC INFRASTRUCTURE.

FIBERS 13-24 FOLLOW THE SAME COLORS AS 1-12



PIKE ENERGY SOLUTIONS, LLC.
10101 Claude Freeman Drive, Suite 100W
Charlotte, NC 28262
ND License No. 954PE

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	BNK	RJG	CSF	7/8/11	90% DELIVERABLE
B	EHK	RJG	CSF	7/15/11	REVISED
C	EHK	RJG	CSF	7/19/11	REVISED
D	BNK	RJG	CSF	7/21/11	REVISED PER CLIENTS COMMENTS
E	BNK	RJG	CSF	8/4/11	ISSUED FOR CONSTRUCTION
1	NJG	RJG	APP	11/1/12	CONSTRUCTION REVISIONS, NO CHANGES



CLIENT	7/15/11	7/19/11	7/21/11	8/4/11
BID				
CONSTRUCTION PERMITTING				
RELEASED TO/FOR	B	C	D	0 1 2 3
DATE RELEASED				

BARR
Project Office: 7/15/11
BARR ENGINEERING CO.
4700 WEST 77TH STREET
MINNEAPOLIS, MN.
55435-4803
Corporate Headquarters: Minneapolis, Minnesota
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	N.T.S.
Date	07/08/11
Drawn	RJG
Checked	CEG
Designed	RJG
Approved	JLM

minnesota power
AN ALLETE COMPANY
Bison
A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA

BISON 2 WIND PROJECT
MORTON & OLIVER COUNTIES, NORTH DAKOTA
FIBER OPTIC SCHEMATIC DETAIL FEEDER 809

BARR PROJECT No.	34/33-1007
CLIENT PROJECT No.	
DWG. No.	E-FL-12
REV. No.	1