

MINNESOTA POWER WINDFARM PROJECT - BISON 3 MORTON AND OLIVER COUNTIES, NORTH DAKOTA

COLLECTOR SYSTEM DRAWING LIST

DWG. NO.	DRAWING TITLE	Construction	DATE	Construction Revision	DATE	Comments
COLLECTOR SYSTEM						
E-BM-31	BILL OF MATERIAL - PRIMARY CONDUCTOR AND COMMUNICATIONS	0	10/4/2011	1	10/7/2011	
E-BM-32	BISON 3 BILL OF MATERIALS	0	10/4/2011			
E-CA-31	CABLE TRENCH CROSS SECTION	0	10/4/2011			
E-CA-32	CABLE GROUNDING DETAIL	0	10/4/2011			
E-CA-33	ROAD AND CABLE CROSSING DETAILS	0	10/4/2011			
E-CS-31	COVER SHEET	0	10/4/2011	1	10/7/2011	
E-FD-31	FIBER OPTIC PANEL DETAIL	0	10/4/2011			
E-FL-30	FIBER OPTIC CABLE LAYOUT	0	10/4/2011	1	10/7/2011	
E-FL-31	FIBER OPTIC SCHEMATIC DETAIL FEEDER 813	0	10/4/2011			
E-FL-32	FIBER OPTIC SCHEMATIC DETAIL FEEDER 814	0	10/4/2011			
E-FL-33	FIBER OPTIC SCHEMATIC DETAIL FEEDER 815	0	10/4/2011			
E-FL-34	FIBER OPTIC SCHEMATIC DETAIL FEEDER 816	0	10/4/2011			
E-FL-35	FIBER OPTIC SCHEMATIC DETAIL FEEDER 817	0	10/4/2011			
E-FS-31	ABOVE GRADE FIBER OPTIC SPLICE (3-WAY)	0	10/4/2011			
E-FS-32	ABOVE GRADE FIBER OPTIC SPLICE (4-WAY)	0	10/4/2011			
E-FS-33	BELOW GRADE FIBER OPTIC HAND HOLE	0	10/4/2011			
E-GA30	GENERAL ARRANGEMENT, COLLECTOR OVERALL SITE	0	10/4/2011			
E-GA31	GENERAL ARRANGEMENT DETAIL - 1 OF 6	0	10/4/2011			
E-GA32	GENERAL ARRANGEMENT DETAIL - 2 OF 6	0	10/4/2011			
E-GA33	GENERAL ARRANGEMENT DETAIL - 3 OF 6	0	10/4/2011			
E-GA34	GENERAL ARRANGEMENT DETAIL - 4 OF 6	0	10/4/2011			
E-GA35	GENERAL ARRANGEMENT DETAIL - 5 OF 6	0	10/4/2011			
E-GA36	GENERAL ARRANGEMENT DETAIL - 6 OF 6	0	10/4/2011			
E-GT-31	GROUNDING TRANSFORMER DETAIL	0	10/4/2011			
E-MT-31	MET TOWER SERVICES	0	10/4/2011			
E-MT-32	MET TOWER SITE PLAN	0	10/4/2011			
E-PM-31	690V STEP-UP TRANSFORMER RADIAL FEED	0	10/4/2011			
E-SD-30	3-WAY SWITCH CABINET DETAIL	0	10/4/2011			
E-SD-31	4-WAY SWITCH CABINET DETAIL	0	10/4/2011			
E-SL-30	34.5KV COLLECTOR SYSTEM SINGLE LINE	0	10/4/2011			
E-TD-31	CONDUIT & GROUNDING DETAIL	0	10/4/2011			

PREPARED BY



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ND License No. 954PE



10/7/11

A	RJG	CSF	CSF	7/8/11	60% DELIVERABLE	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA.
B	BNK	CSF	CSF	8/16/11	85% DELIVERABLE	
C	BNK	CSF	CSF	9/20/11	90% DELIVERABLE	
O	BNK	CSF	JLM	10/4/11	ISSUED FOR CONSTRUCTION	
I	BNK	CSF	JLM	10/7/11	UPDATED DRAWING LIST	
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION	SIGNATURE
						PRINTED NAME _____ DATE _____ REG. NO. _____

CLIENT	7/8/11	8/16/11	9/20/11	10/4/11	10/7/11		
BID							
CONSTRUCTION PERMITTING							
RELEASED TO/FOR	A	B	C	0	1	2	3

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

A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA

BISON 3 WIND PROJECT MORTON & OLIVER COUNTIES, NORTH DAKOTA		BARR PROJECT No. 34/33-1006
COLLECTOR SYSTEM COVER SHEET		CLIENT PROJECT No.
DWG. No. E-CS-31	REV. No. 1	

Images_in_Drawing - Client Logo.jpg
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