



Legend

Landbase

- Major Highways
- Major Roads
- Local Traffic
- State Boundary
- County Boundary
- PLS-Township/Range
- PLS-Section Line

- Airport area
- Government
- Water Body
- Forest
- Local Parks
- Urban Areas
- Swamp/Marsh

Electric Transmission

- Substations
- Model Corner Strs
- Model Centerline

Transmission Oh Cond.(kV)		Transmission Ug Cond. (kV)	
Xcel Owned	Foreign Owned		
34.5			34.5
44			44
69			69
88			115
115			161
138			230
161			
230			
345			
500			
Unknown			

0 1 2 4 Miles

North Arrow

Professional Engineer
REG. No. 11877
TONY MOORE
SOUTH DAKOTA
J. Moore
6/26/15

THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS.YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS, MANUALS AND SPARS.

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LINE 0966

LOCATION MAP

BIG STONE SOUTH SUB TO BROOKINGS COUNTY SUB

345kV

Xcel Energy

NH-263189-2-3

SCALE AS SHOWN

REV 0

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LINE NUMBER	START STRUCTURE NUMBER	END STRUCTURE NUMBER	SECTION DISTANCE (FT)	RULING SPAN (FT)	WIRE TYPE	VOLTAGE (KV)	NUMBER OF PHASES	WIRES PER PHASE	AS-BUILT NESC 250B TENSION	MAX. RATED OPERATING TEMP. (°F)	DISPLAY WEATHER CASE	DISPLAY CONDITION	DISPLAY COLOR	
966	0966-OTP-BSS-SUB1	0966-001-DE	297	307	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-001-DE	0966-009-DE	8165	1023	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-009-DE	0966-022-DE	13470	1045	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-022-DE	0966-026-DE	3909	977	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-026-DE	0966-044-TRAMP	19710	1095	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-044-TRAMP	0966-052-DE	8812	1101	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-052-DE	0966-057-DE	4643	928	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-057-DE	0966-092-TRAMP	37830	1081	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-092-TRAMP	0966-125-DE	35046	1062	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-125-DE	0966-139-DE	14511	1038	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-139-DE	0966-148-DE	9258	1028	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-148-DE	0966-159-DE	11149	1013	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-159-DE	0966-160-DE	991	988	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-160-DE	0966-161-DE	877	871	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-161-DE	0966-172-DE	11116	1010	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-172-DE	0966-178-DE	5816	968	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-178-DE	0966-183-DE	4712	942	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-183-DE	0966-186-DE	2812	941	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-186-DE	0966-191-DE	4744	951	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-191-DE	0966-194-DE	2706	902	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-194-DE	0966-199-DE	5339	1065	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-199-DE	0966-202-DE	2697	899	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-202-DE	0966-230-DE	29106	1041	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-230-DE	0966-245-DE	15576	1040	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-245-DE	0966-252-DE	7417	1060	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-252-DE	0966-263-DE	11612	1055	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-263-DE	0966-295-DE	33256	1039	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-295-DE	0966-298-DE	2899	969	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-298-DE	0966-321-DE	22714	993	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-321-DE	0966-322-DE	898	892	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-322-DE	0966-324-DE	1775	886	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-324-DE	0966-325-DE	880	877	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-325-DE	0966-326-DE	932	929	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-326-DE	0966-331-DE	4931	986	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-331-DE	0966-336-DE	5062	1013	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-336-DE	0966-341-DE	5065	1014	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-341-DE	0966-346-DE	4724	944	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-346-DE	0966-367-DE	20197	964	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-367-DE	0966-370-DE	1828	619	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-370-DE	0966-371-DE	214	198	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
966	0966-371-DE	0966-BOK-SUB1	265	257	3/8-INCH 7-STRAND EHS STEEL	0	1	1		0	-20° F	INITIAL RS	CYAN	
NOTES: 1. WIRE TENSIONS SHOWN INDICATE THE TOTAL LOAD WITH THE WIRE IN INITIAL CONDITION UNDER NESC HEAVY LOAD CONDITIONS (0.5" RADIAL ICE THICKNESS, 4 LB/FT*2 HORIZONTAL WIND PRESSURE, 0°F WIRE TEMPERATURE, ADDITIVE CONSTANT = 0.3 LB/FT). 2. WIRE TENSION SHOWN IS FOR THE HIGHEST TENSION WIRE OF EACH SET. 3. FOR BUNDLED CONDUCTORS, WIRE TENSIONS SHOWN ARE FOR A SINGLE SUBCONDUCTOR. 4. SECTION LENGTH DISPLAYED AS STATION DISTANCE. 5. VERTICAL BUNDLE WIRE CONFIGURATION USED.										THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS. YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS, MANUALS AND SPARS. INTERNAL INFORMATION: DO NOT COPY OR DISTRIBUTE WITHOUT EXPRESS WRITTEN CONSENT FROM XCEL ENERGY		LINE 0966 PLAN AND PROFILE - SECTIONS TABLE BIG STONE SOUTH TO BROOKINGS COUNTY		345kV
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