

BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE

STR 041 - STR 195 (SOUTH DAKOTA)

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JDB	03/01/19

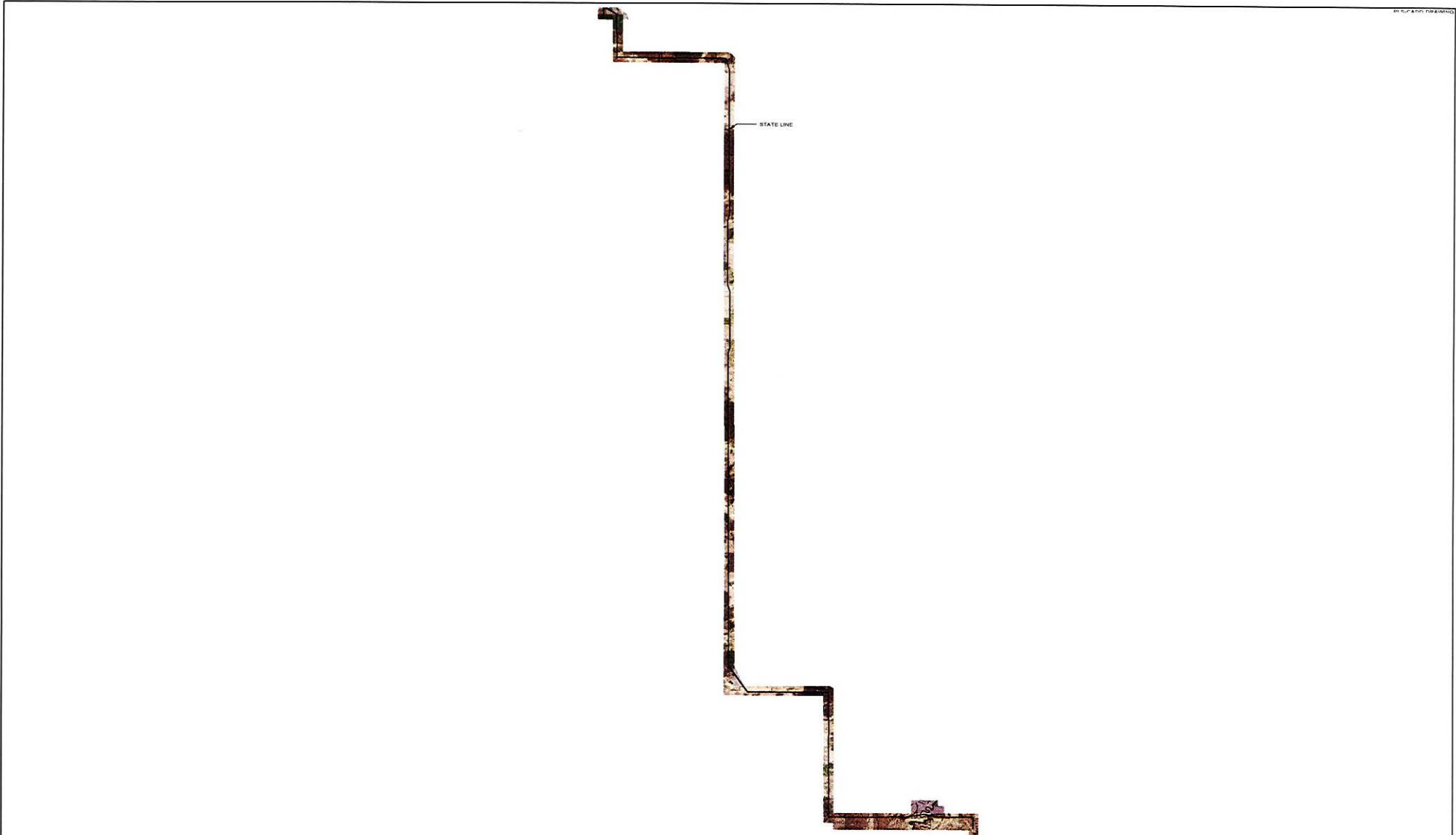
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DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-QNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

DWG. NO.
BSSE-PP-101-1
REVISION: 2
136508



20190301 ISSUED FOR RECORD		REVISIONS					APPROVALS		DATE	DESIGN DATA		 Big Stone South to Ellendale	BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE	DWG. NO. BSSE-PP-101-2 REVISION: 2 136508		
							DRAWN BY: GMD		02/03/17	CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523						
							DESIGN BY: GMD		02/03/17							
							CHECKED BY: JPW		02/03/17							
		2	ISSUED FOR RECORD	JDB	JDB	JPW		03/01/19	APPROVED BY: DJF		02/03/17				COORDINATE SYSTEM: UTM ZONE 14N, US FT	
		REV	DESCRIPTION	DWN	DKN	CHK		DATE								



20190301
ISSUED FOR
RECORD



REVISIONS					
REV	DESCRIPTION	DWN	DON	CHK	DATE
2	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

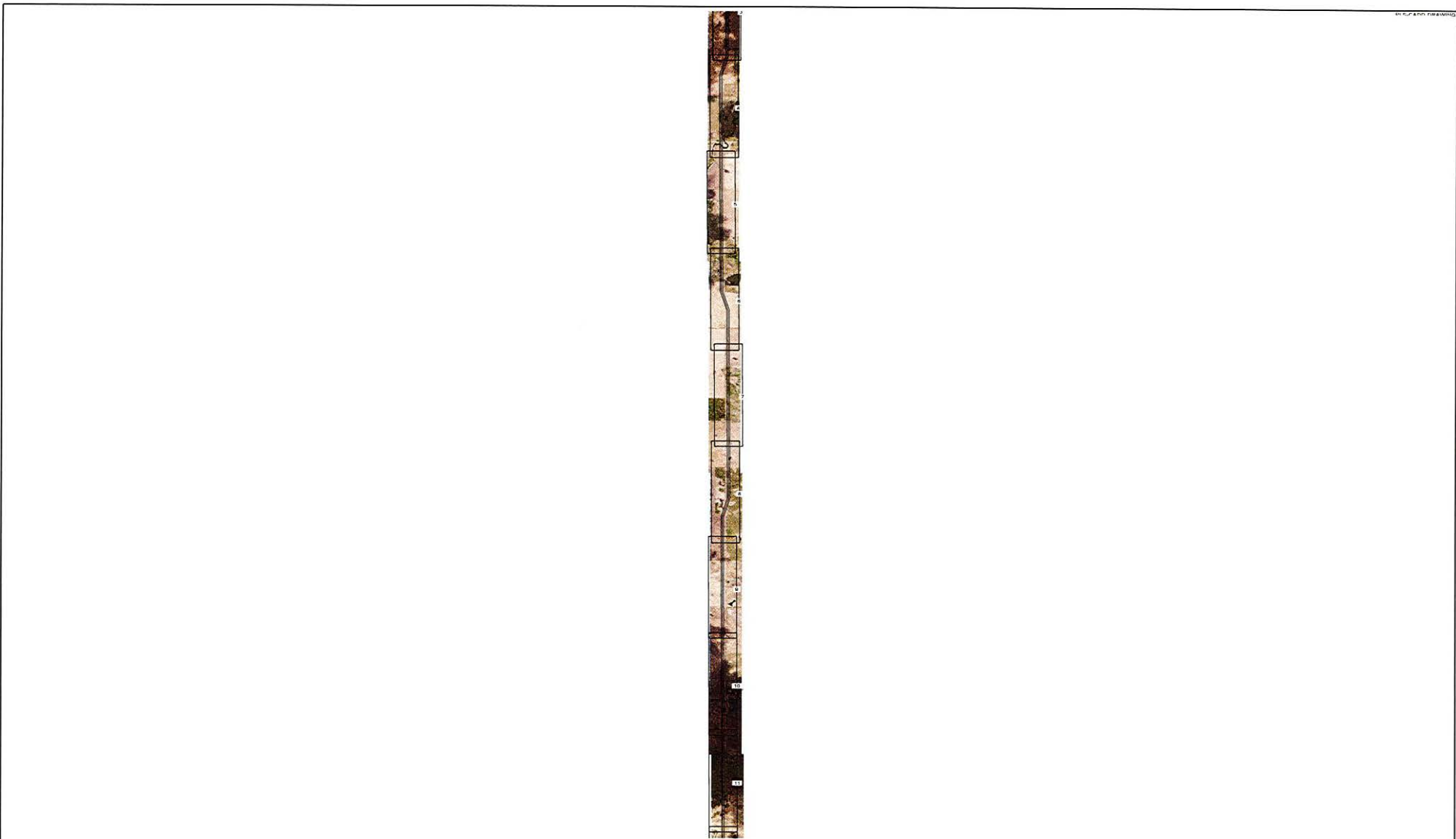
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-101-3
REVISION: 2
136508



20190301
ISSUED FOR
RECORD

 **POWER
ENGINEERS**

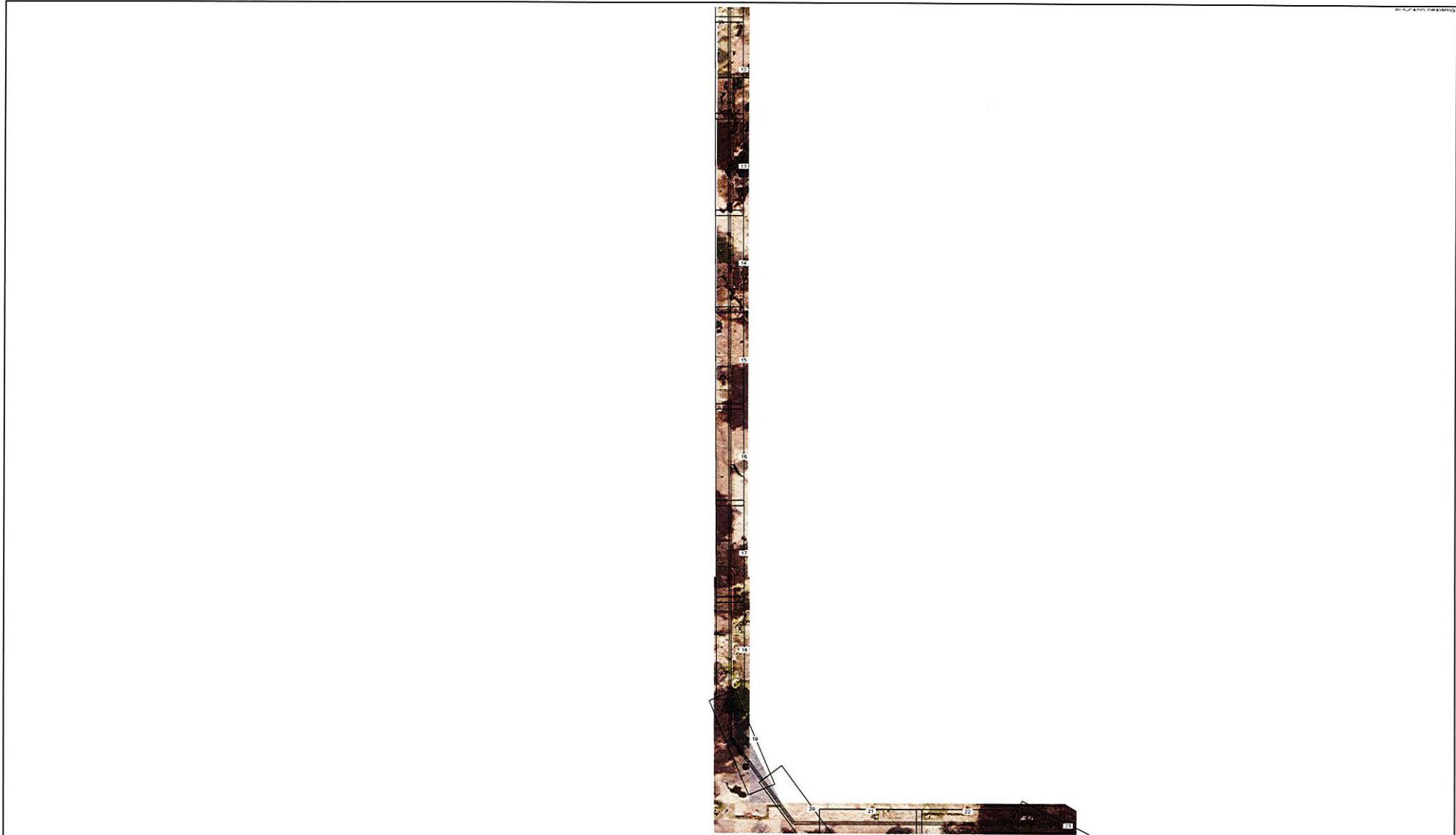
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							SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
							OPGW: 1-DW0-10523
					CHECKED BY: JPW	02/03/17	
2	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19		
REV	DESCRIPTION	DWN	DGN	CHK	DATE	APPROVED BY: DJF	02/03/17


Big Stone South to Ellendale

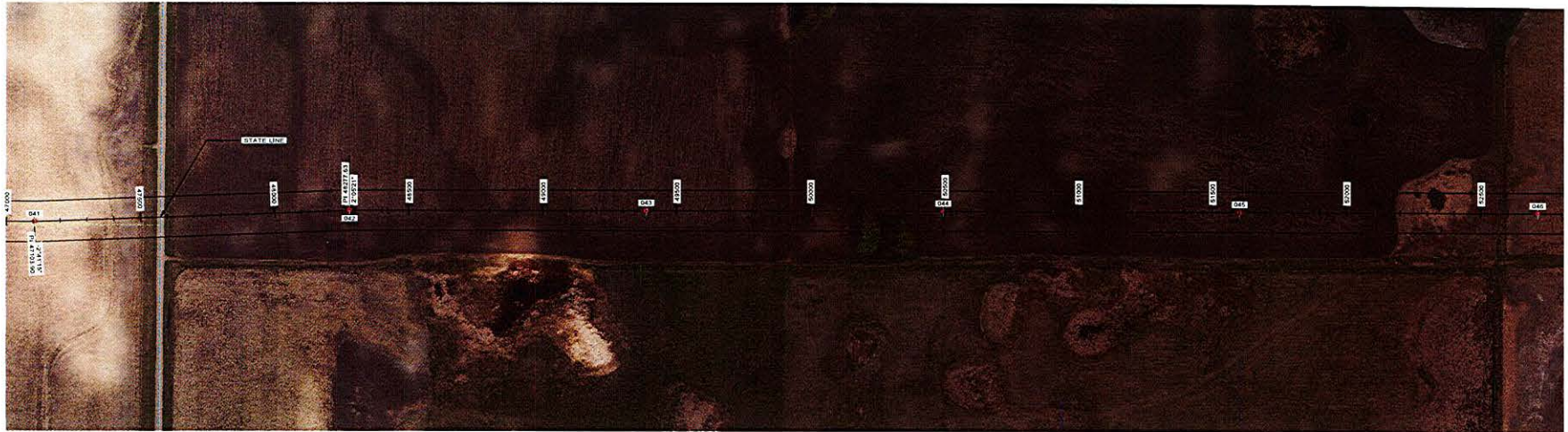
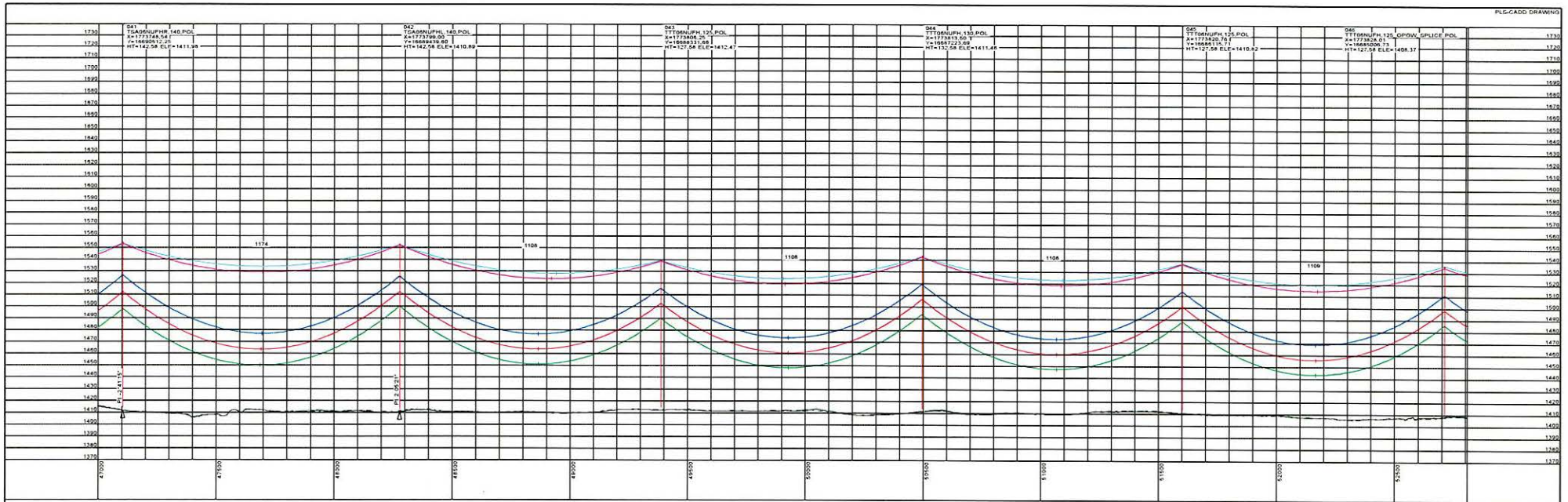
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE


NORTH

DWG. NO.
BSSE-PP-101-4
REVISION: 2
136508



20190301 ISSUED FOR RECORD		REVISIONS					APPROVALS	DATE	DESIGN DATA	 Big Stone South to Ellendale	 NORTH	DWG. NO. BSSE-PP-101-5 REVISION: 2
							DRAWN BY: GMD	02/03/17	CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR			
							DESIGN BY: GMD	02/03/17	SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL			
							CHECKED BY: JPW	02/03/17	OPGW: 1-DN0-10523			
		2	ISSUED FOR RECORD	JDB	JOB	JPW	03/01/19	APPROVED BY: DJF	02/03/17			
REV	DESCRIPTION	OWN	DON	CHK	DATE					BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE		136508



20190301
ISSUED FOR
RECORD



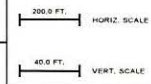
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REV	DESCRIPTION	DWN	DGN	CHK
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APPROVALS		DATE
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DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

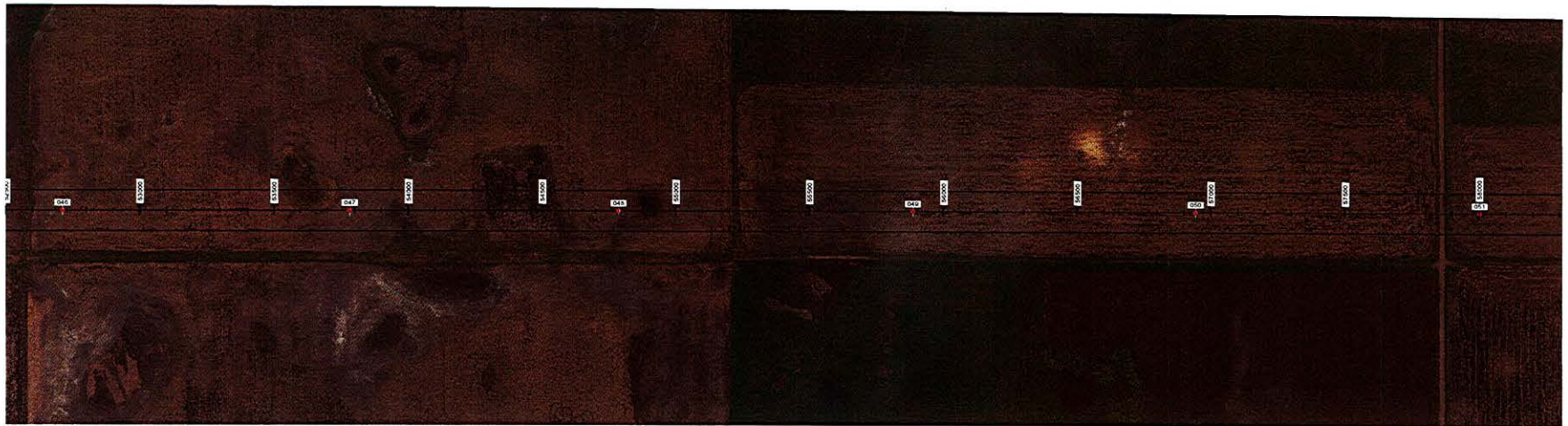
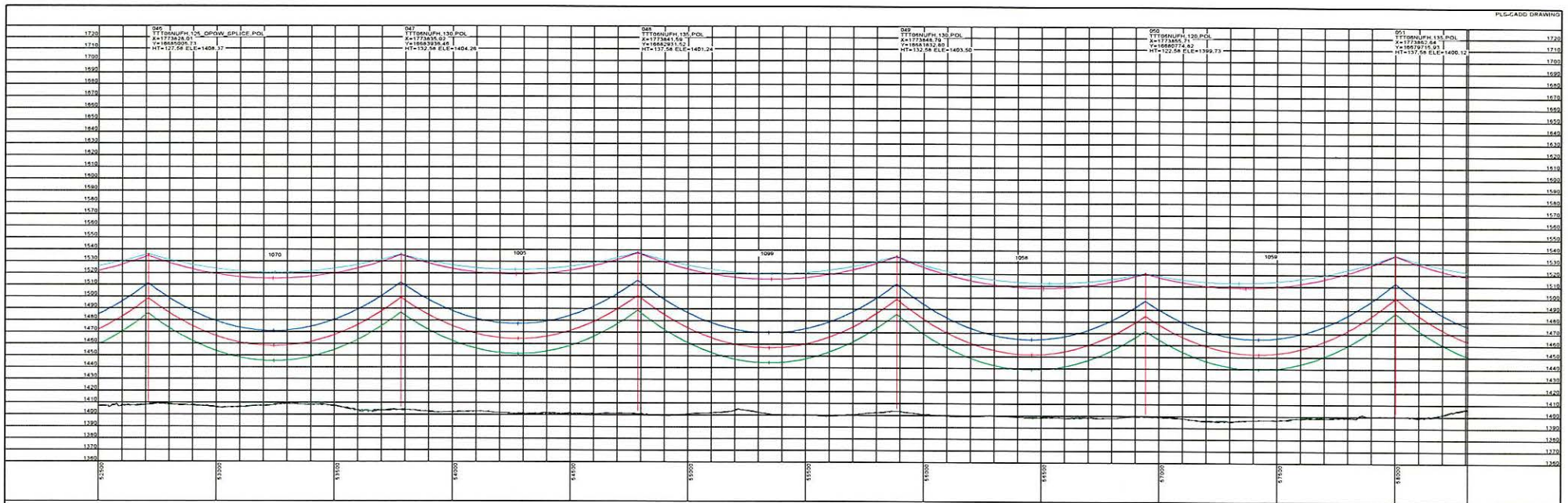


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 041 - 046

DWG. NO.
BSSE-PPF-101-7
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
2	ISSUED FOR RECORD	JDB	JDB	JPW
				03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



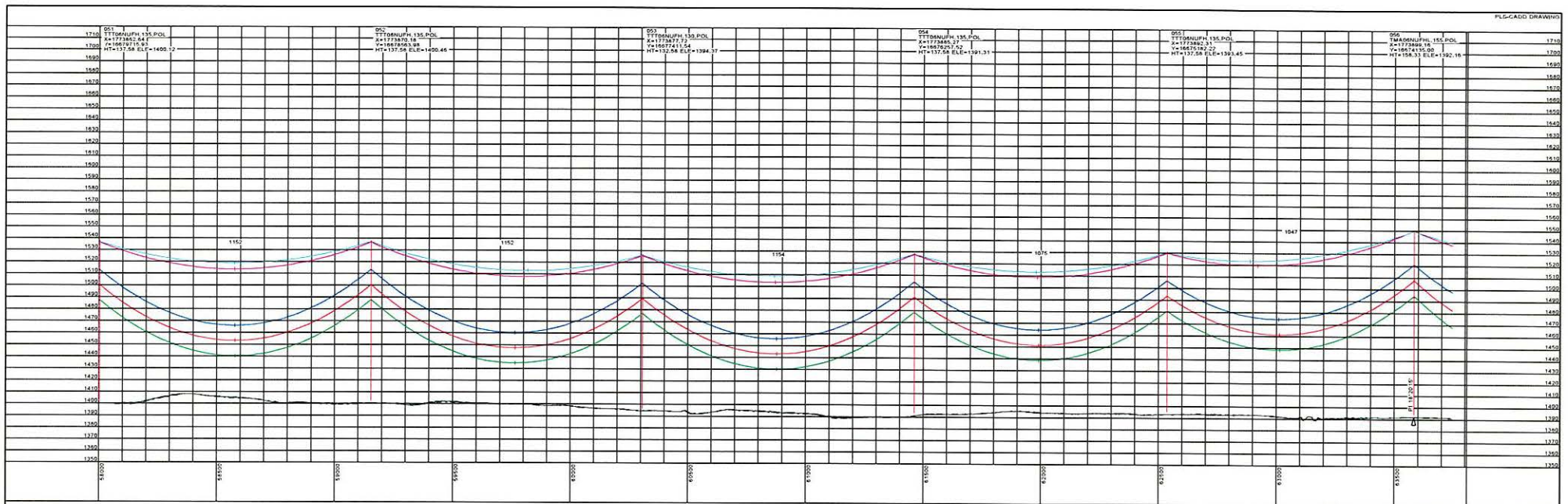
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT.	HORIZ. SCALE
40.0 FT.	VERT. SCALE



STRS: 046 - 051

DWG. NO.	BSSE-PP-101-8
REVISION: 2	
136508	



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	APP'D	CHK'D	DATE
2	ISSUED FOR RECORD	JOB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
O.P.O.W. 1-0N0-10523	
COORDINATE SYSTEM: UTM ZONE 14N US FT	



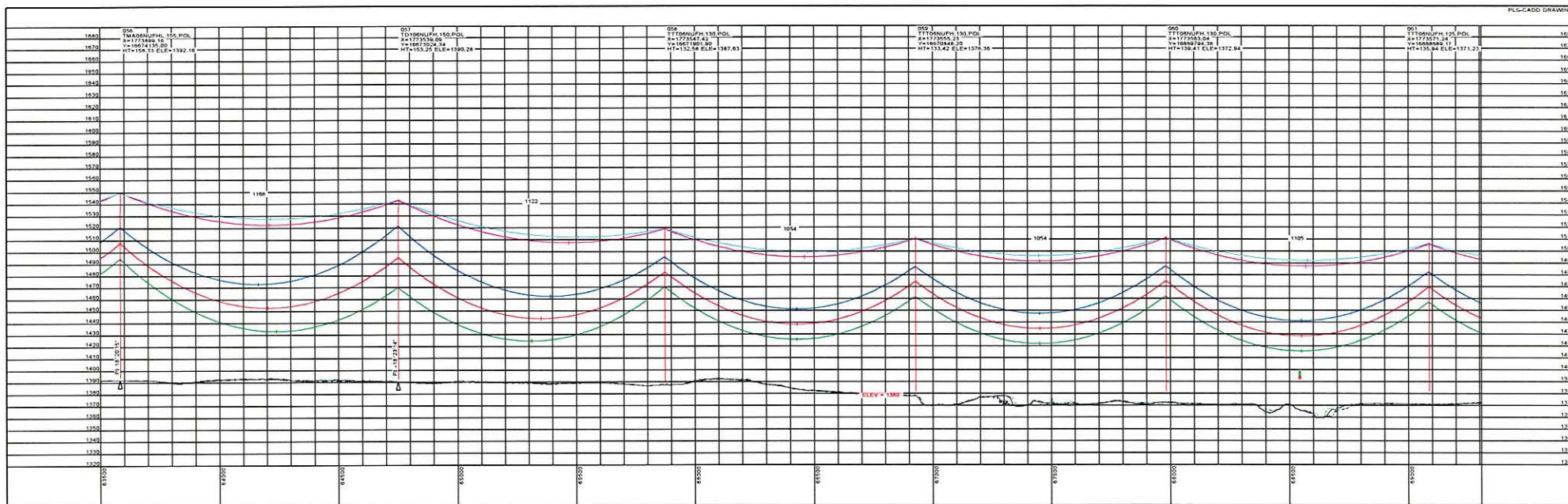
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE



STRS: 051 - 056

DWG. NO.
BSSE-PP-101-9
REVISION: 2
136508



STRS: 056 - 061

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JDB	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



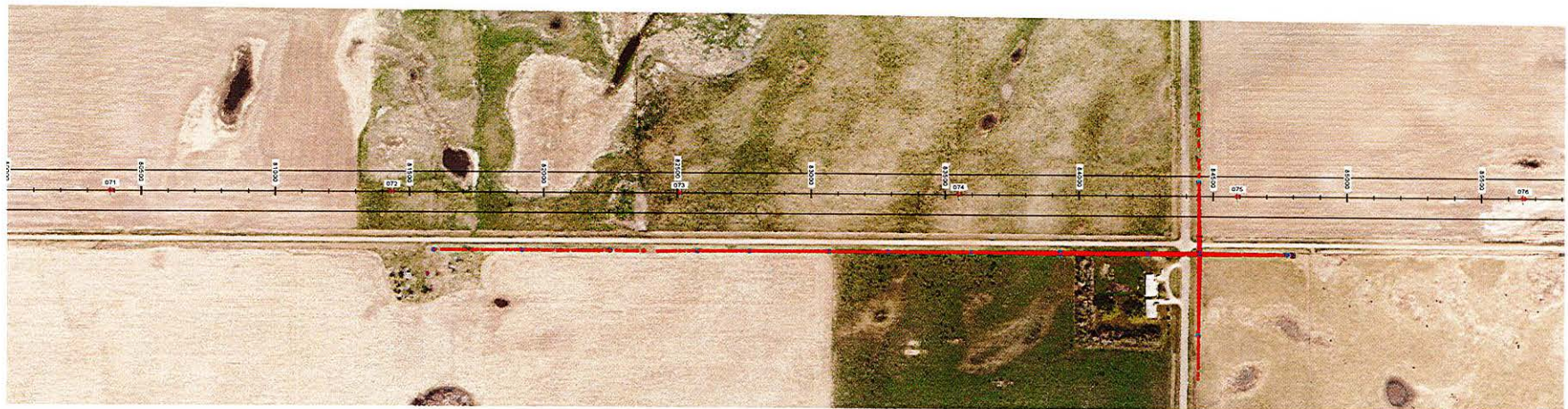
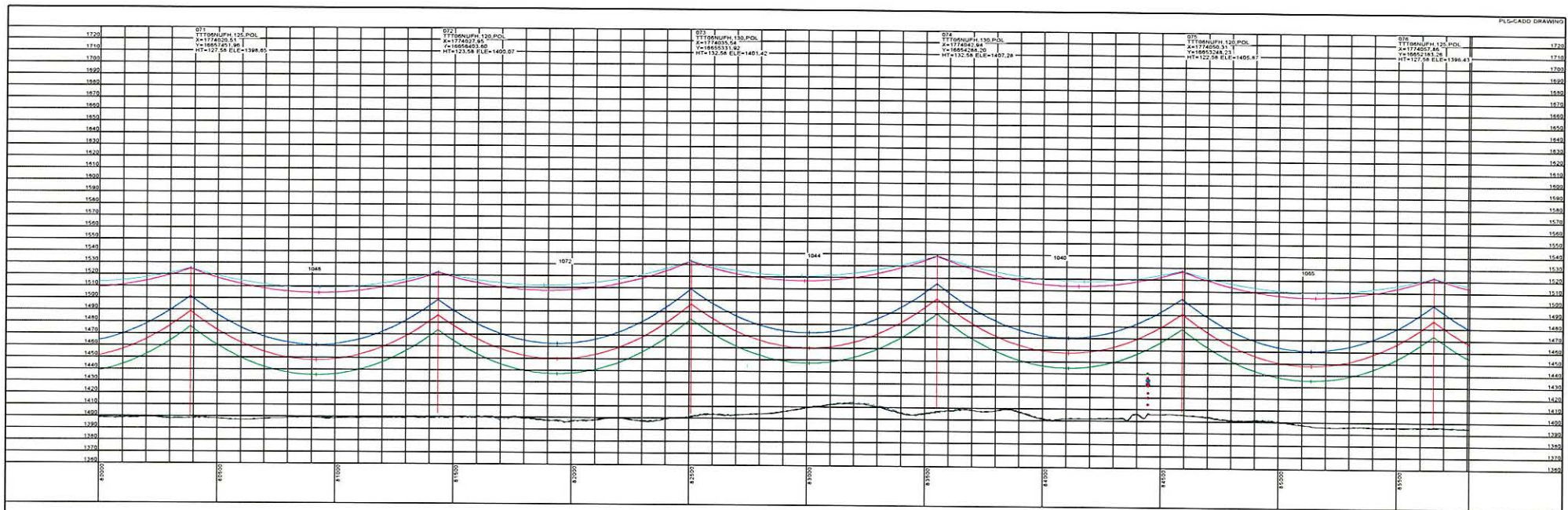
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE



DWG. NO.
BSSE-PP-101-10
REVISION: 2
136508



20190301
ISSUED FOR
RECORD

REVISIONS			
2	ISSUED FOR RECORD	JDB	JDB JPW 03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA

CONDUCTOR: 230.477 KCMIL 26/7 TP HAWK ACSR

SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL

OPGW: 1-DN0-10523

COORDINATE SYSTEM: UTM ZONE 14N, US FT

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

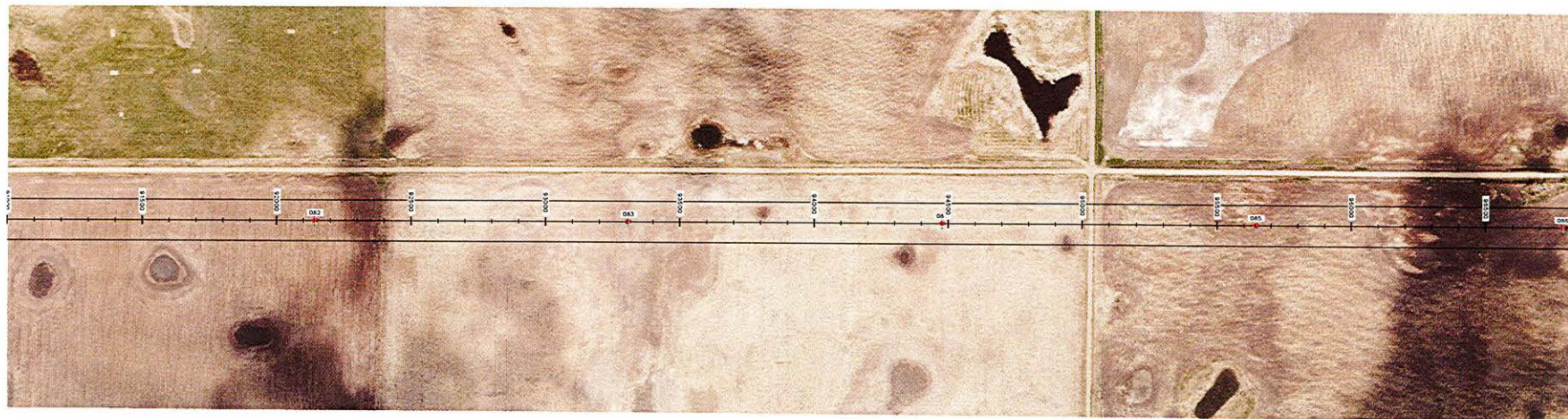
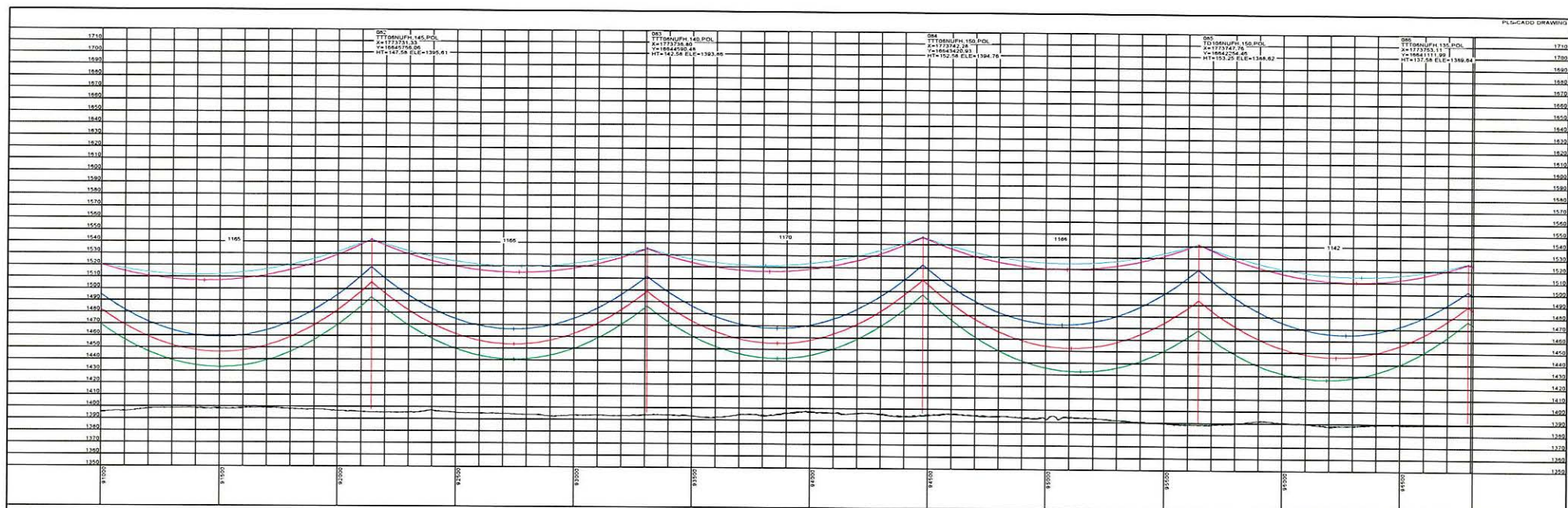
40.0 FT. VERT. SCALE

STRS: 071 - 076

DWG. NO.
BSSE-PP-101-13

REVISION: 2

136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DON	CHK
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APPROVALS		DATE
DRAWN BY: GMD		02/03/17
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CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: 230.477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

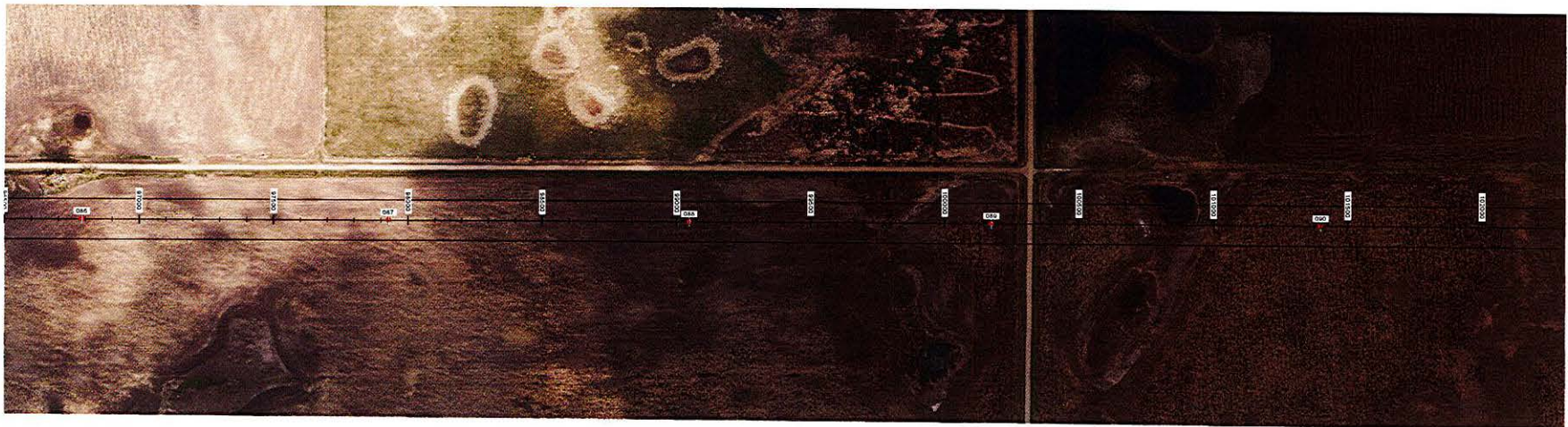
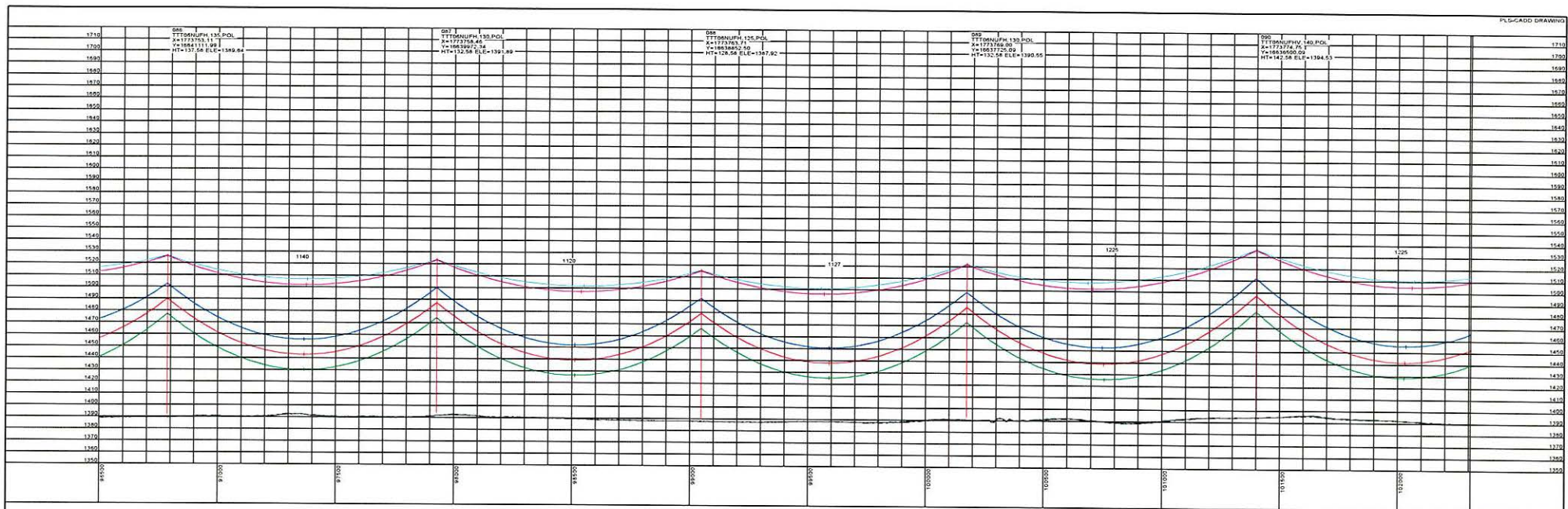


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

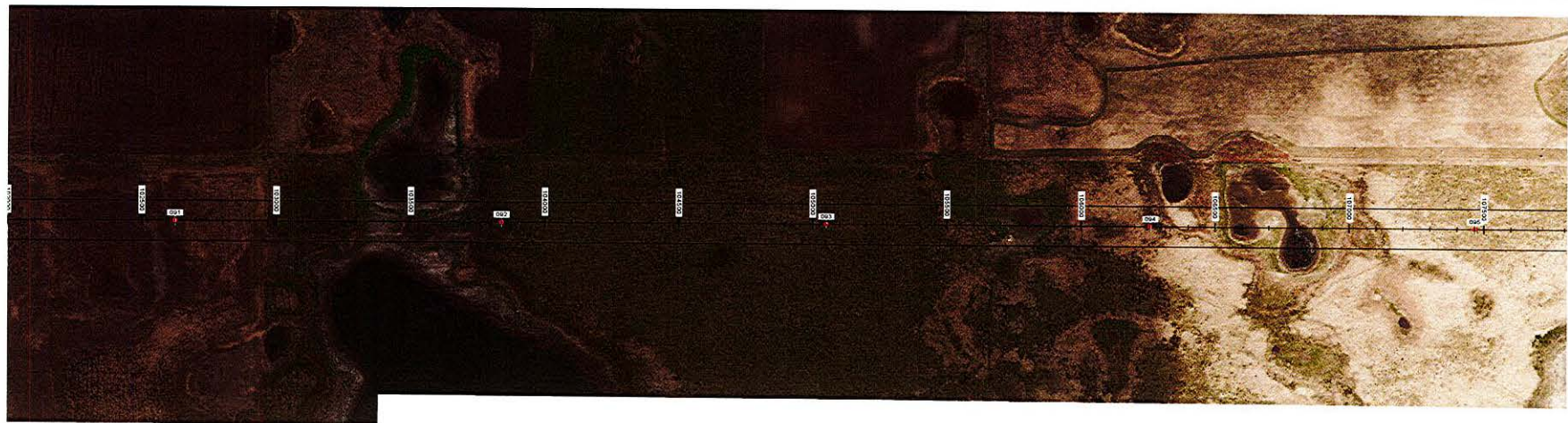
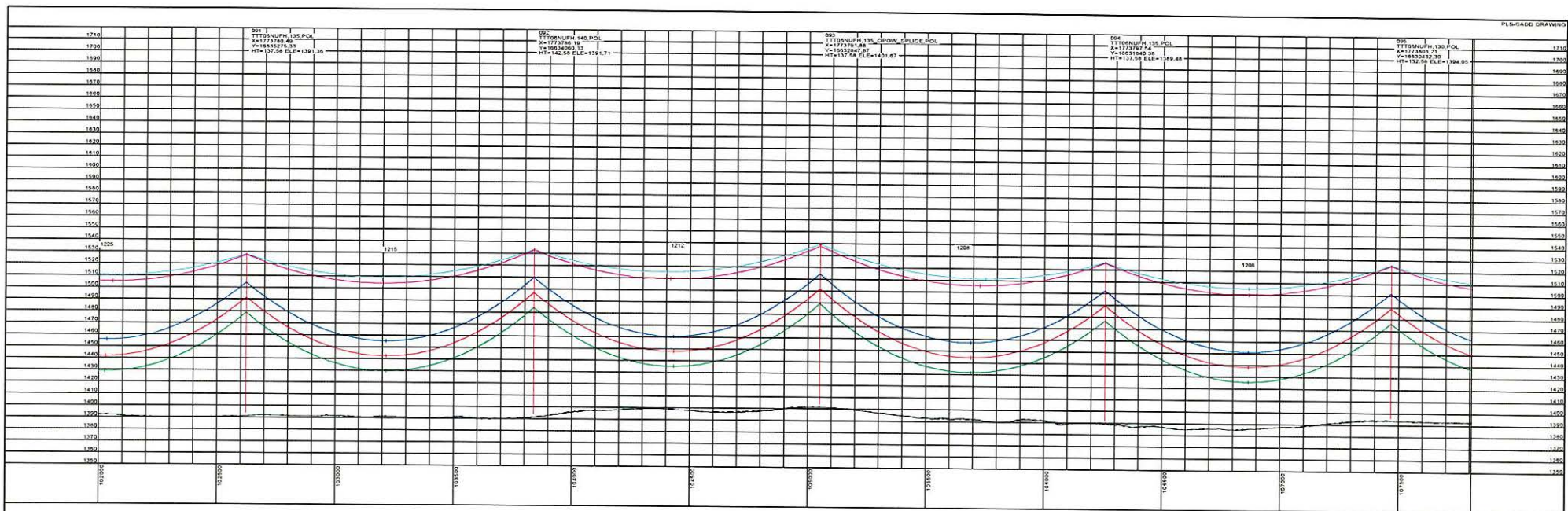


STRS: 082 - 086

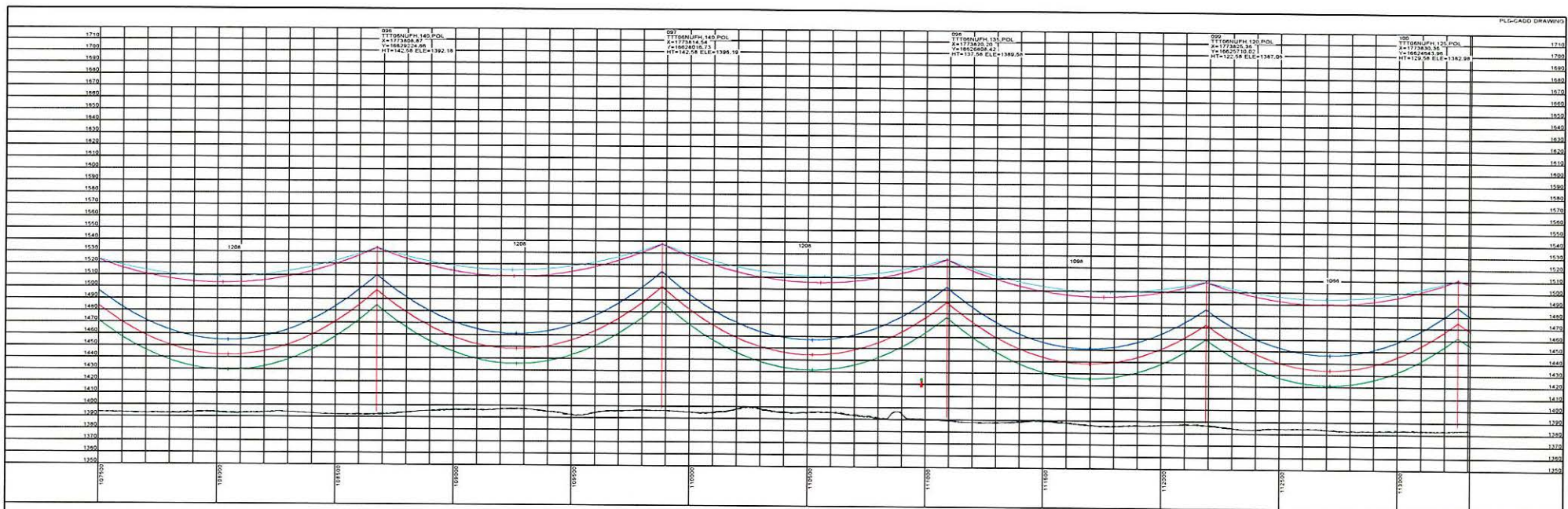
DWG. NO.
BSSE-PP-101-15
REVISION: 2
136508



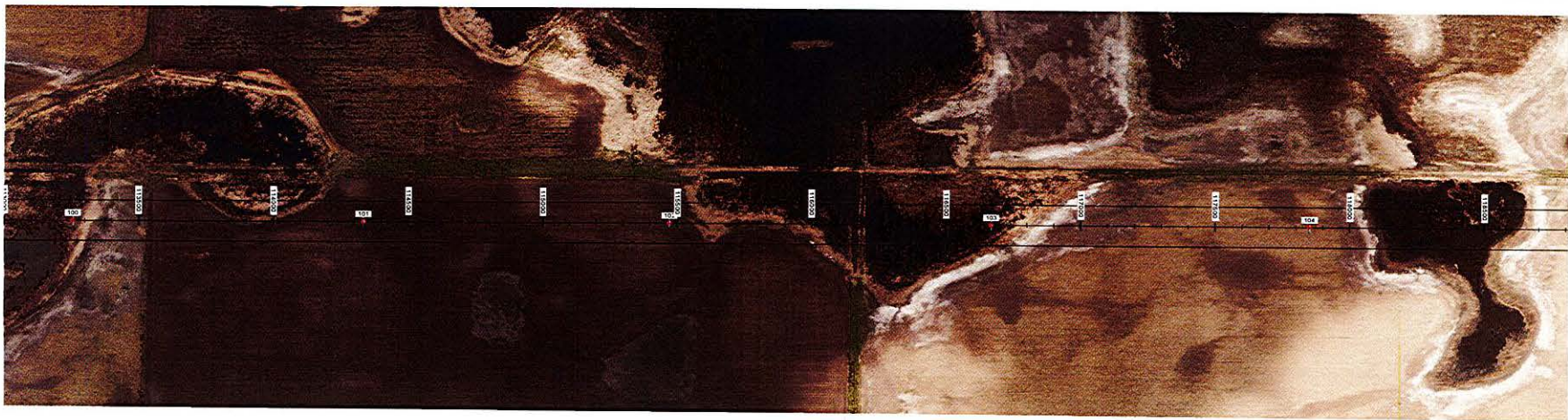
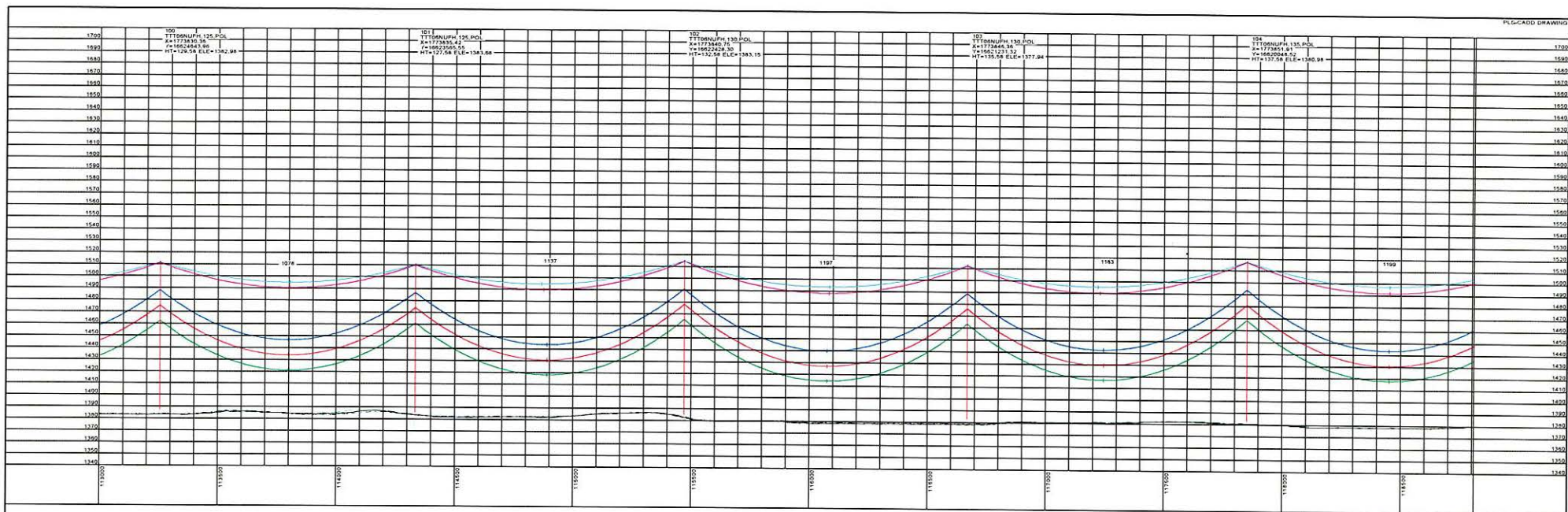
20190301 ISSUED FOR RECORD		REVISIONS				APPROVALS		DATE	DESIGN DATA CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523 COORDINATE SYSTEM: UTM ZONE 14N, US FT		200.0 FT. HORIZ. SCALE 40.0 FT. VERT. SCALE	STRS: 086 - 090 DWG. NO. BSSE-PP-101-16 REVISION: 2 136508
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		REV	DESCRIPTION	DWN	DGN	CHK	DATE	APPROVED BY: DJF	02/03/17			



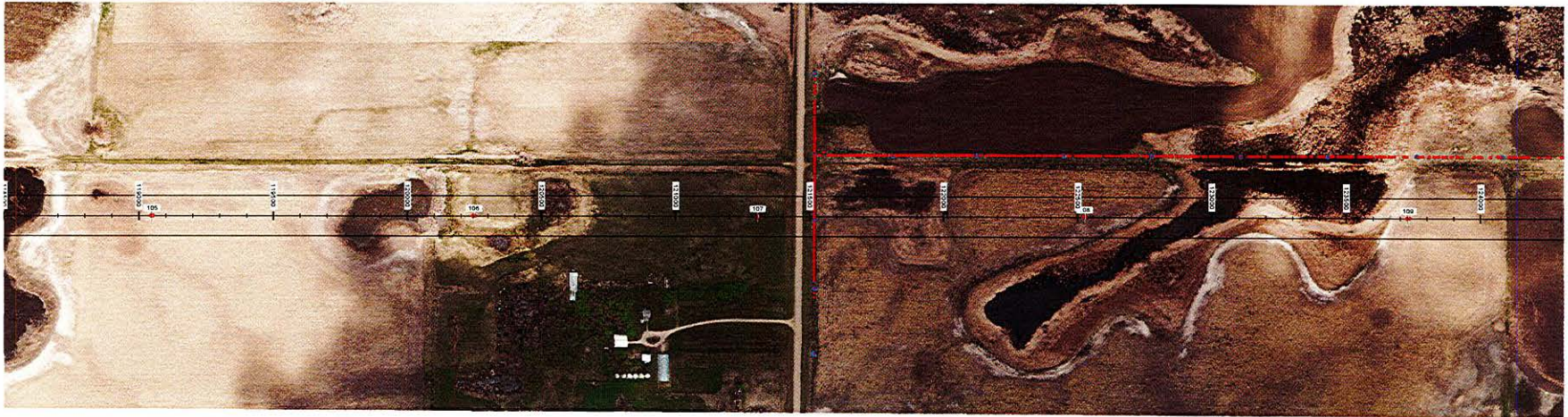
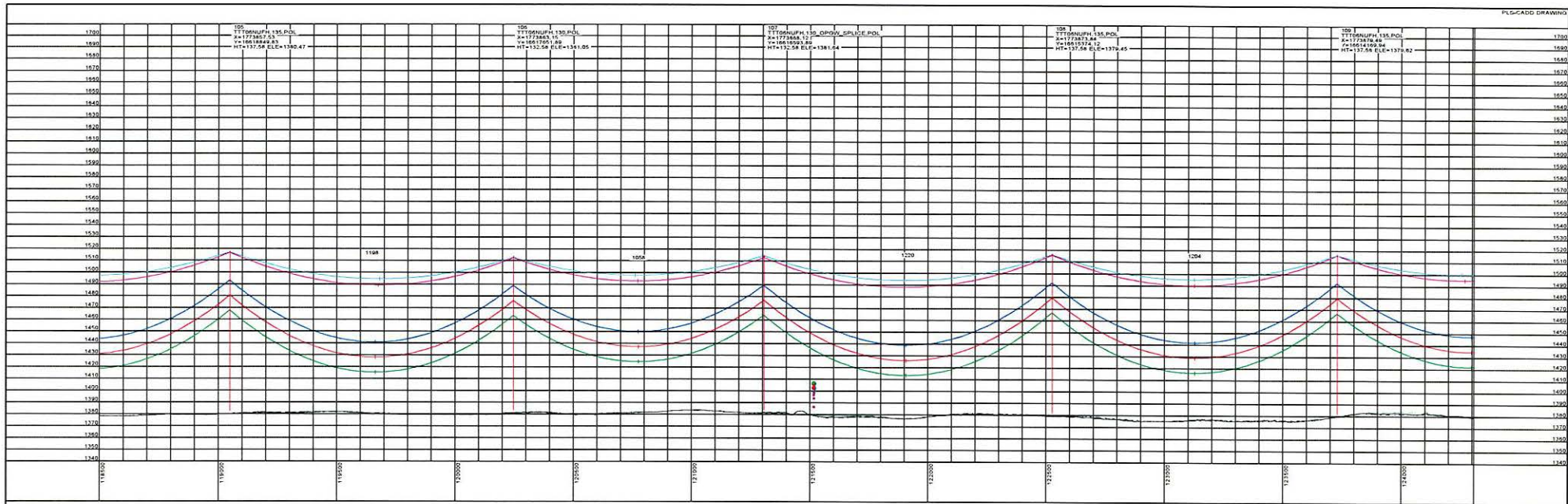
20190301 ISSUED FOR RECORD		REVISIONS				APPROVALS		DATE	DESIGN DATA CONDUCTOR: 2X0.477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523	 Big Stone South to Ellendale BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE	200.0 FT. HORIZ. SCALE 40.0 FT. VERT. SCALE		STRS: 091 - 095 DWG. NO. BSSE-PP-101-17 REVISION: 2 136508
		REV	DESCRIPTION	DWN	CON	CHK	DATE	APPROVED BY: DJF					
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20190301 ISSUED FOR RECORD		REVISIONS			APPROVALS		DATE	DESIGN DATA		STRS: 096 - 100	DWG. NO. BSSE-PP-101-1-R REVISION: 2 136508
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					CHECKED BY: JPW		02/03/17	COORDINATE SYSTEM: UTM ZONE 14N, US FT			
					APPROVED BY: DJF		02/03/17				
2 ISSUED FOR RECORD	JDB JDB JPW	JDB JDB JPW	03/01/19						200.0 FT. HORIZ. SCALE	45.0 FT. VERT. SCALE	



20190301 ISSUED FOR RECORD		REVISIONS					APPROVALS		DATE	DESIGN DATA		 Big Stone South to Ellendale			STRS: 100 - 104
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		2	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19								
		REV	DESCRIPTION	DWN	DGN	CHK	DATE	APPROVED BY: DJF	02/03/17	COORDINATE SYSTEM: UTM ZONE 14N, US FT					DWG. NO. BSSE-PP-101-19
										BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE					REVISION: 2
															136508



20190301
ISSUED FOR
RECORD



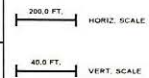
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APPROVALS		DATE
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CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

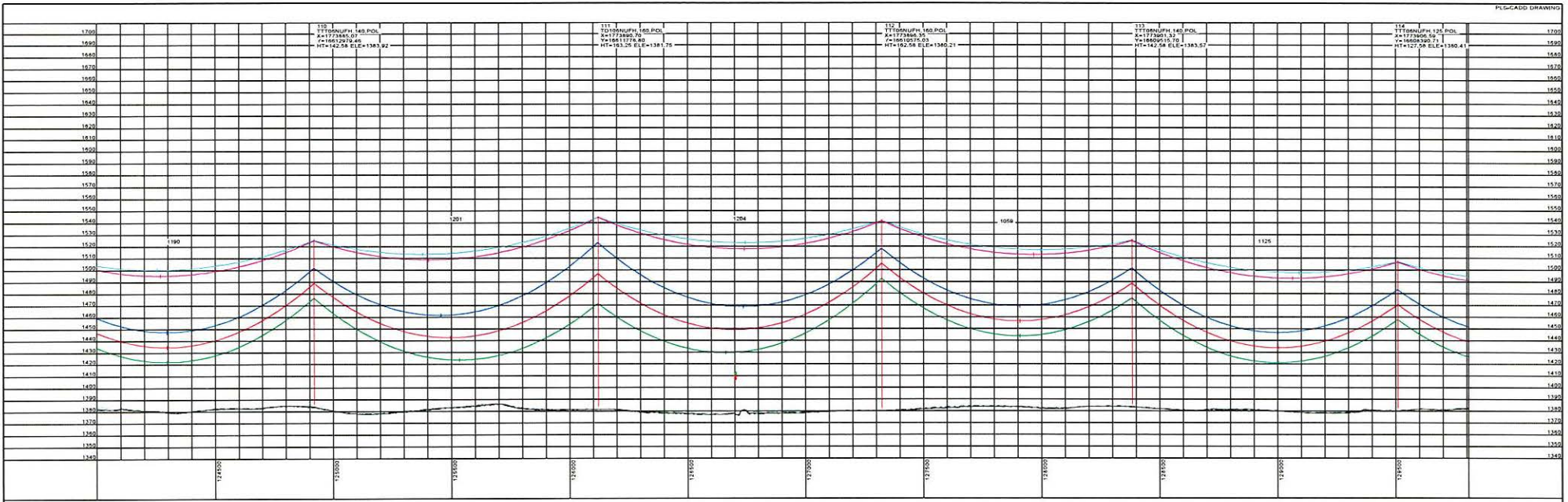


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 105 - 109

DWG. NO.
BSSE-PP-101-20
REVISION: 2
136508



STRS: 110 - 114

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
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APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA
CONDUCTOR: 2X0.477 KCMIL 26/7 TP HAWK ACSR
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DNO-10523
COORDINATE SYSTEM: UTM ZONE 14N, US FT

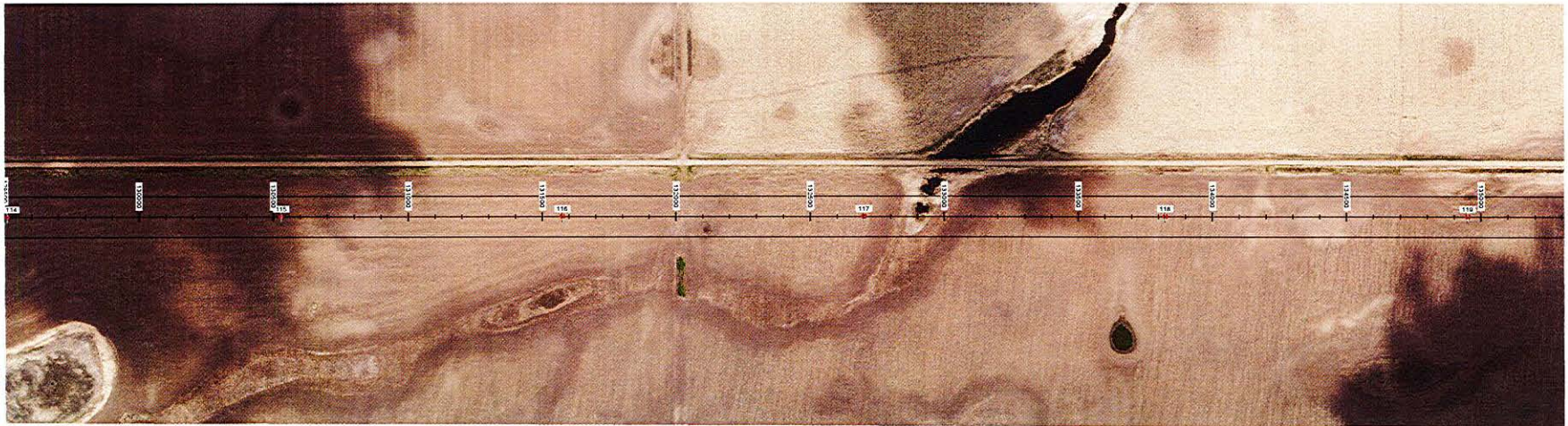
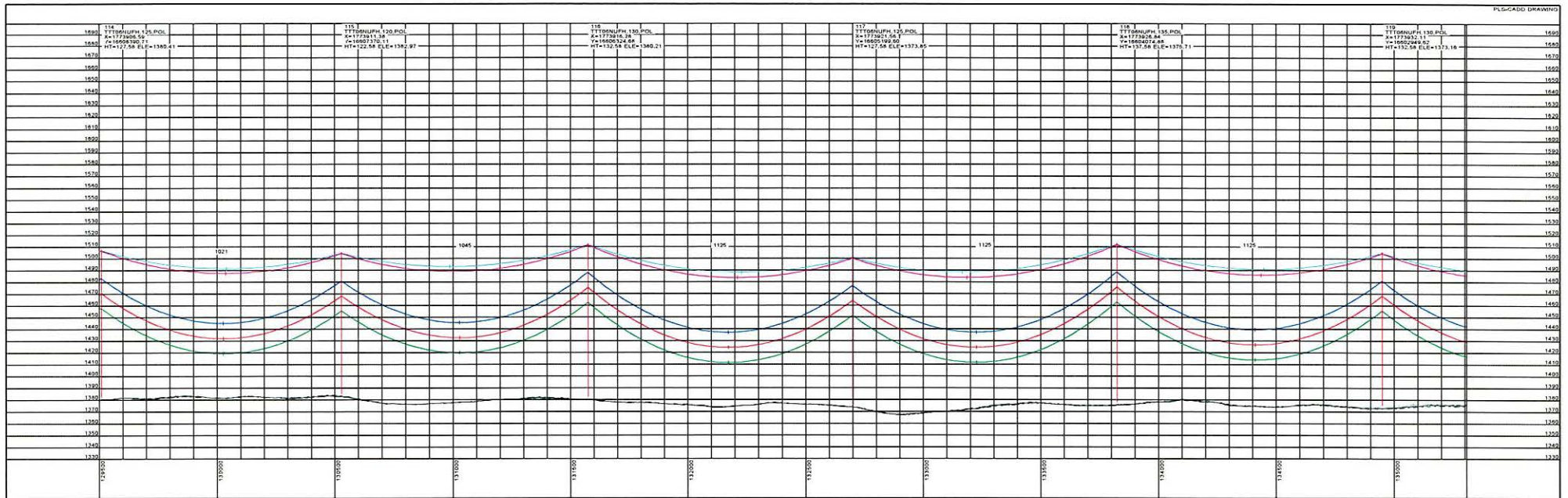


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE



DWG. NO.
BSSE-PP-101-21
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



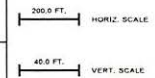
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APPROVALS		DATE
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DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

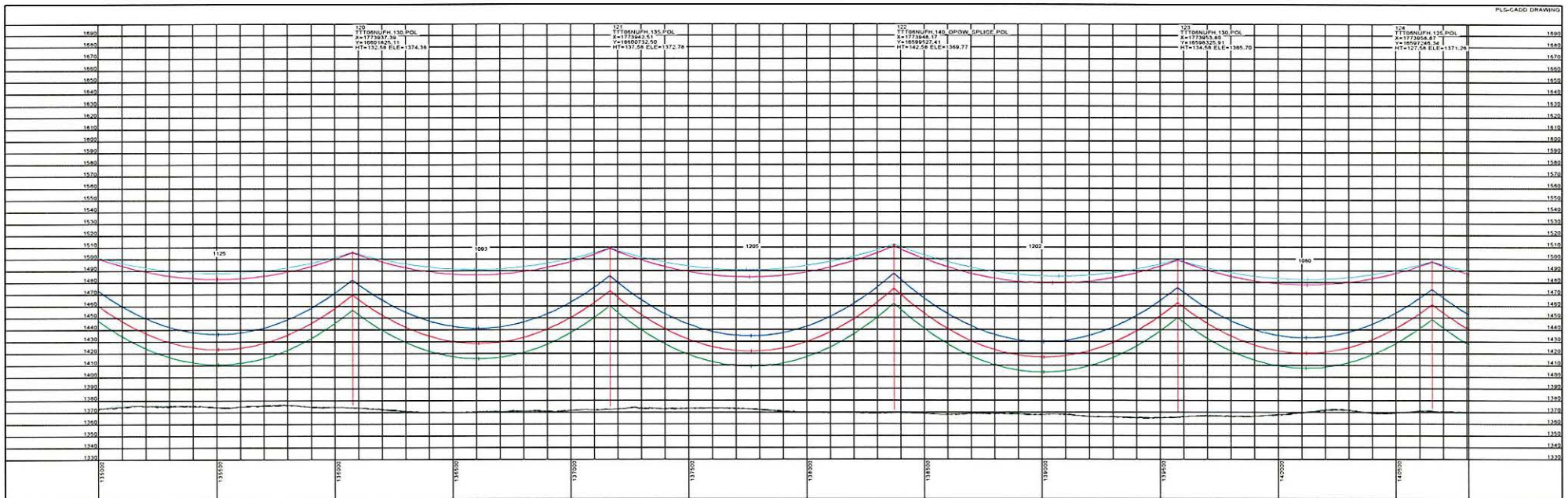


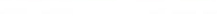
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

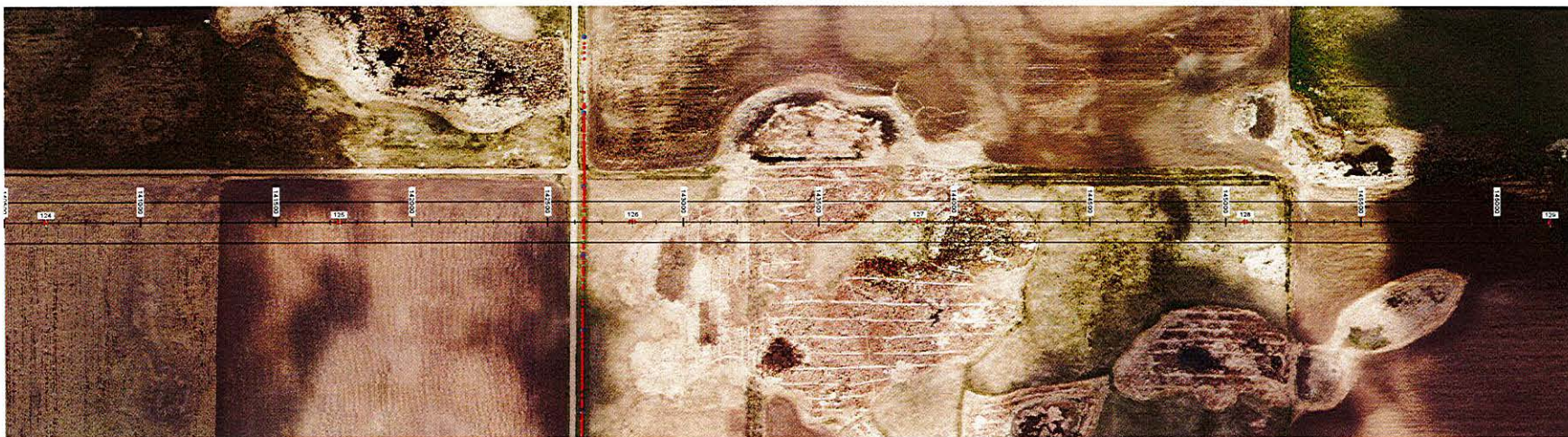
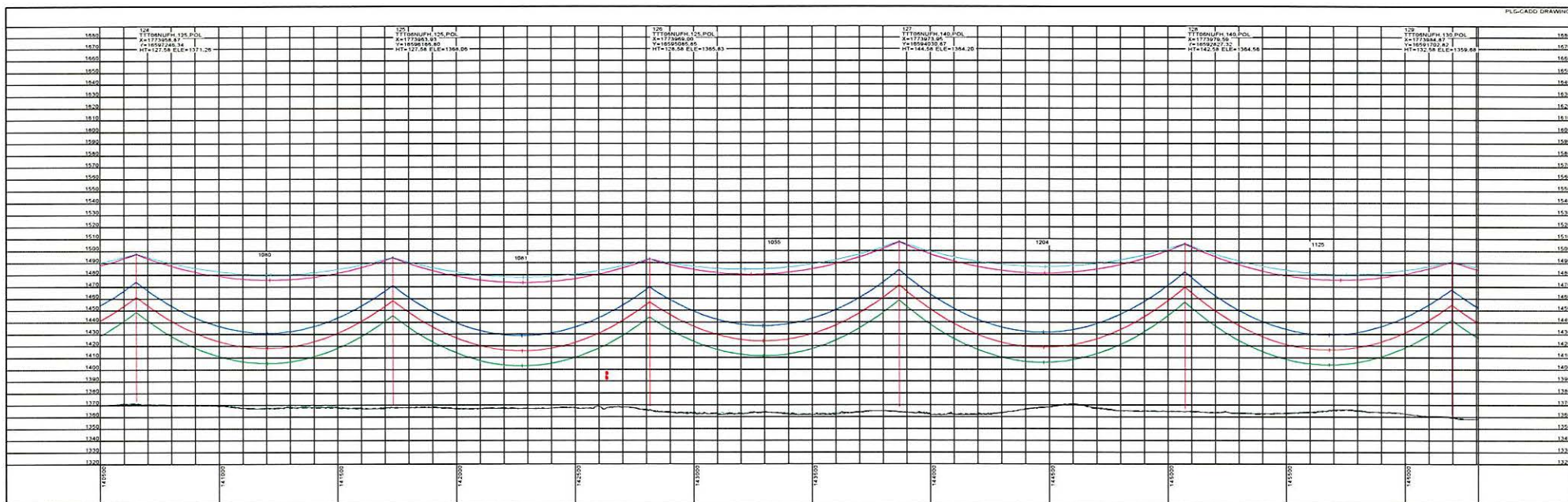


STRS: 114 - 119

DWG. NO.
BSSE-PP-101-22
REVISION: 2
136508



20190301 ISSUED FOR RECORD  POWER ENGINEERS		STRS: 120 - 124											
		REVISIONS			APPROVALS		DATE		DESIGN DATA		 BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE 200.0 FT. HORIZ. SCALE 40.0 FT. VERT. SCALE ← NORTH DWG. NO. BSSE-PP-101-23 REVISION: 2 136508		
					DRAWN BY: GMD		02/03/17		CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523				
					DESIGN BY: GMD		02/03/17						
					CHECKED BY: JPW		02/03/17						
2 ISSUED FOR RECORD			JDB	JDB	JPW	03/01/19	APPROVED BY: DJF		02/03/17		COORDINATE SYSTEM: UTM ZONE 14N, US FT		
REV		DESCRIPTION		DWN	DOH	CHK	DATE						



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DSN	CHK
2	ISSUED FOR RECORD	JDB	JDB	JPW

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

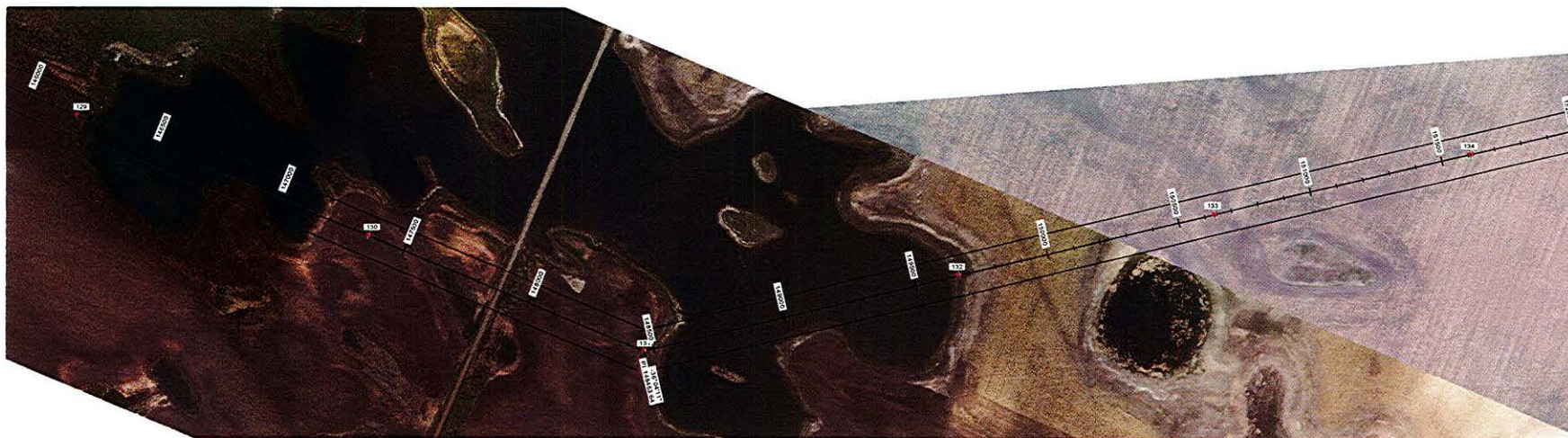
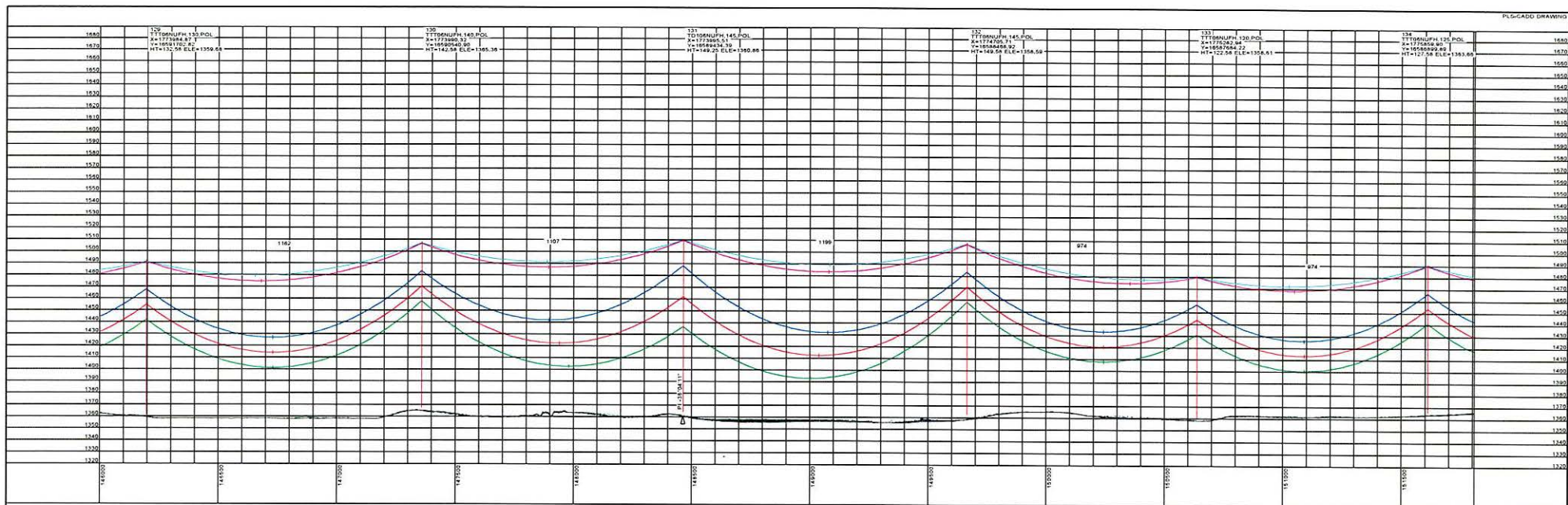


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 124 - 129

DWG. NO.
BSSE-PP-101-24
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JDB	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: 2X0 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

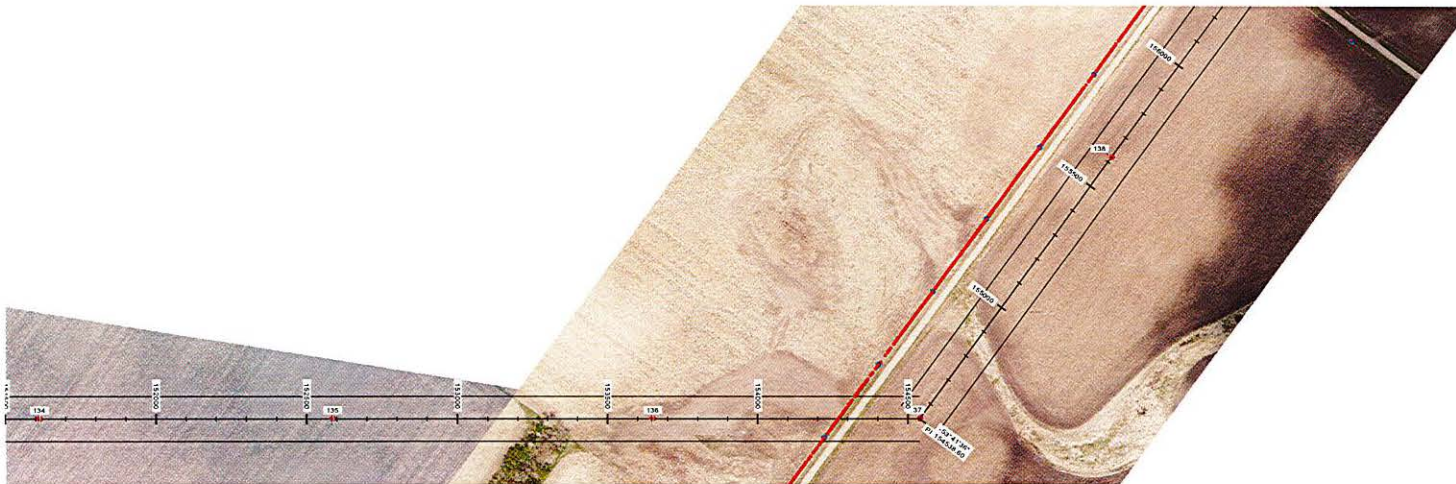
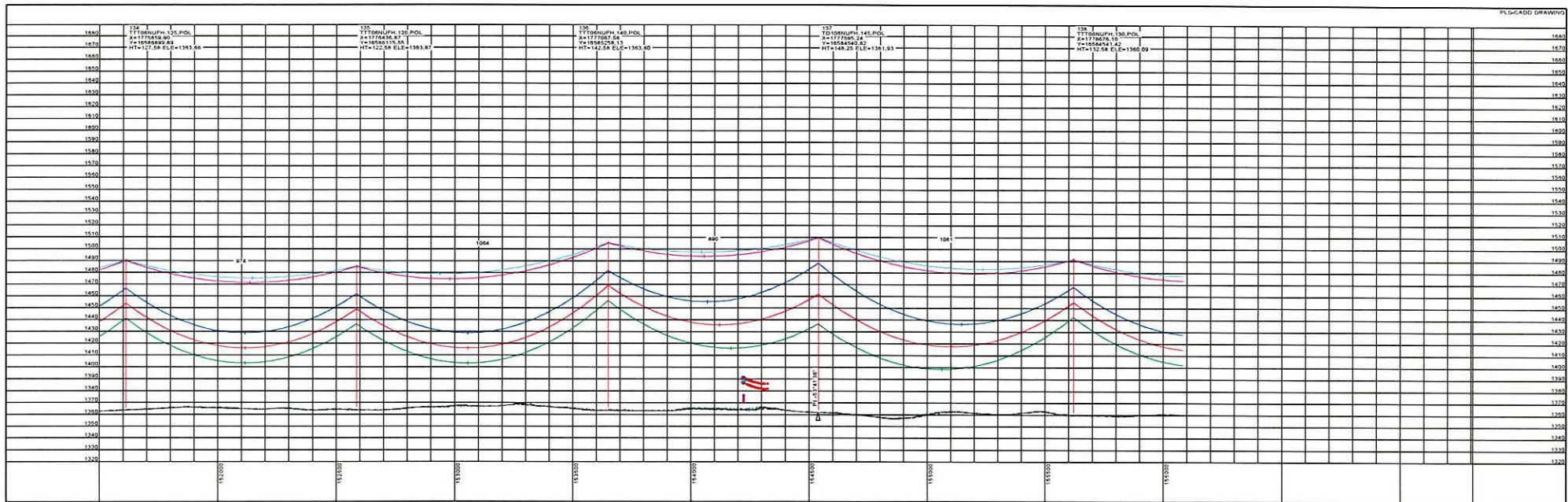


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 129 - 134

DWG. NO.
BSSE-PP-101-25
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

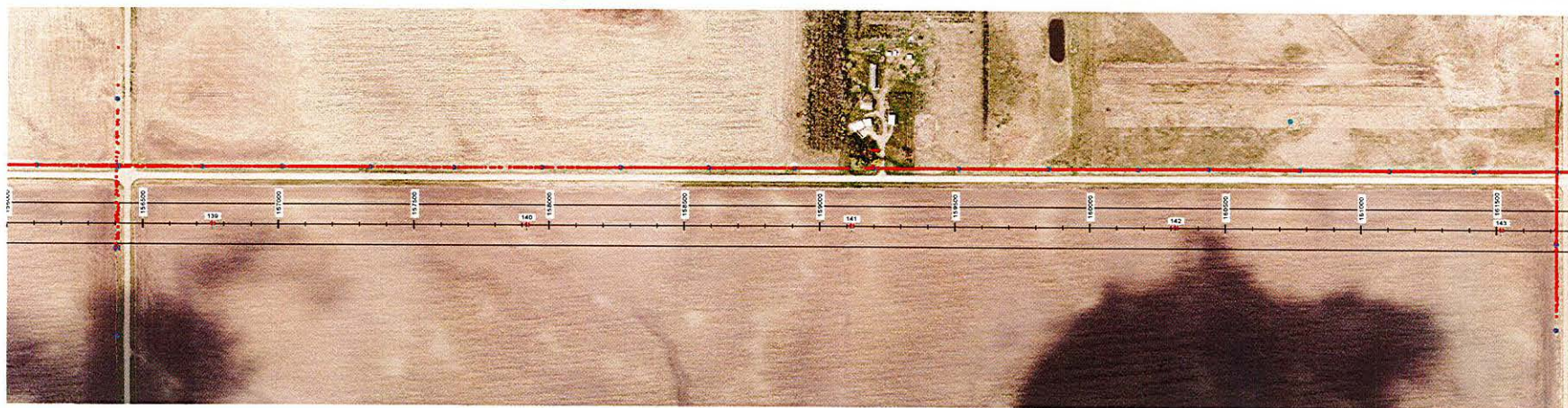
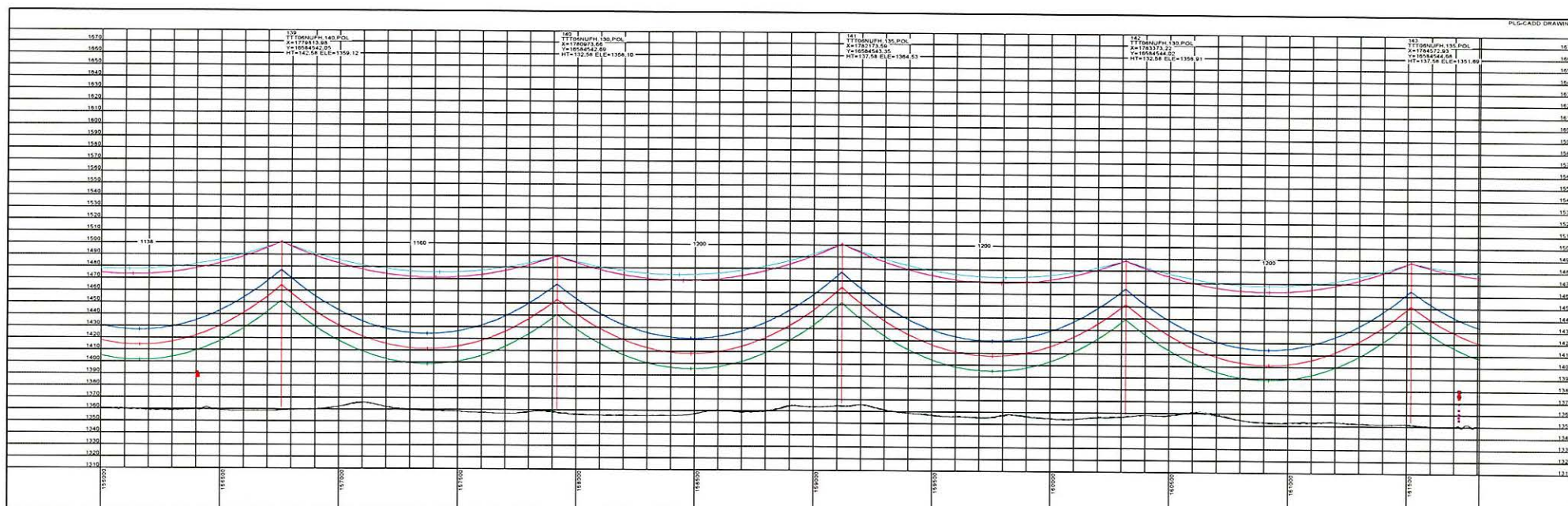


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 134 - 138

DWG. NO.
BSSE-PP-101-26
REVISION: 2
135508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
2	ISSUED FOR RECORD	JDB	JOS	JPW

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK AC6B
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DNO-10523
COORDINATE SYSTEM: UTM ZONE 14N, US FT



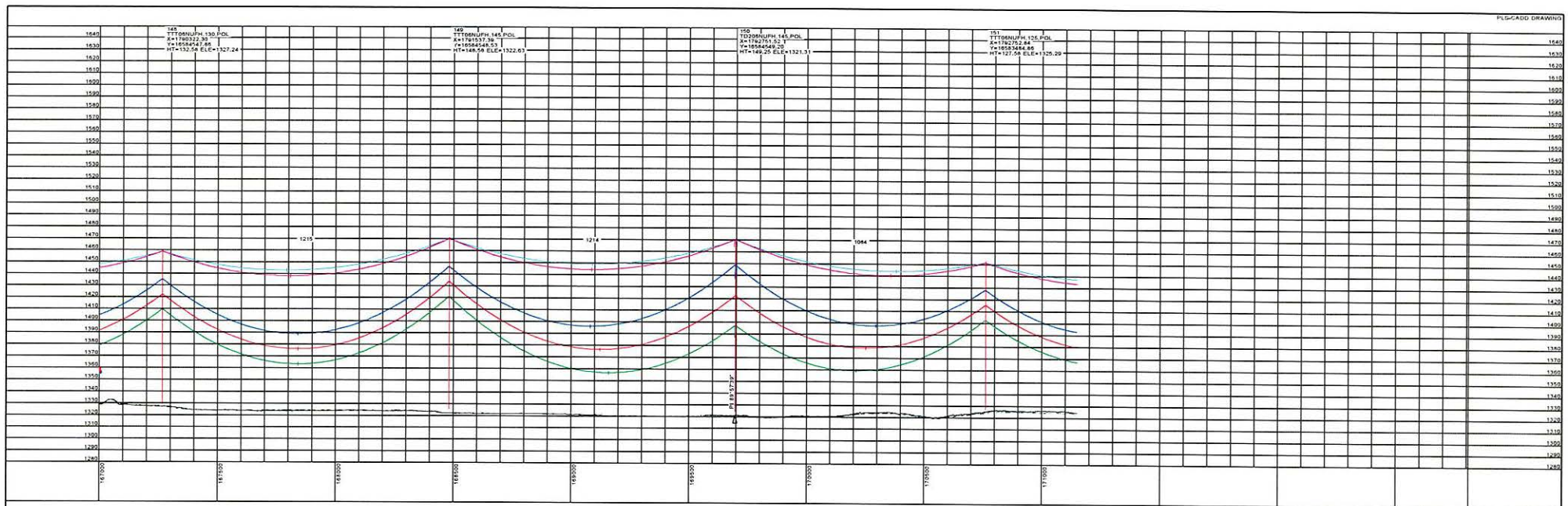
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT.
HORIZ. SCALE
40.0 FT.
VERT. SCALE



STRS: 139 - 143

DWG. NO.
BSSE-PP-101-27
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



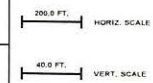
REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
2	ISSUED FOR RECORD	JOB	JOB	JPW

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N US FT	

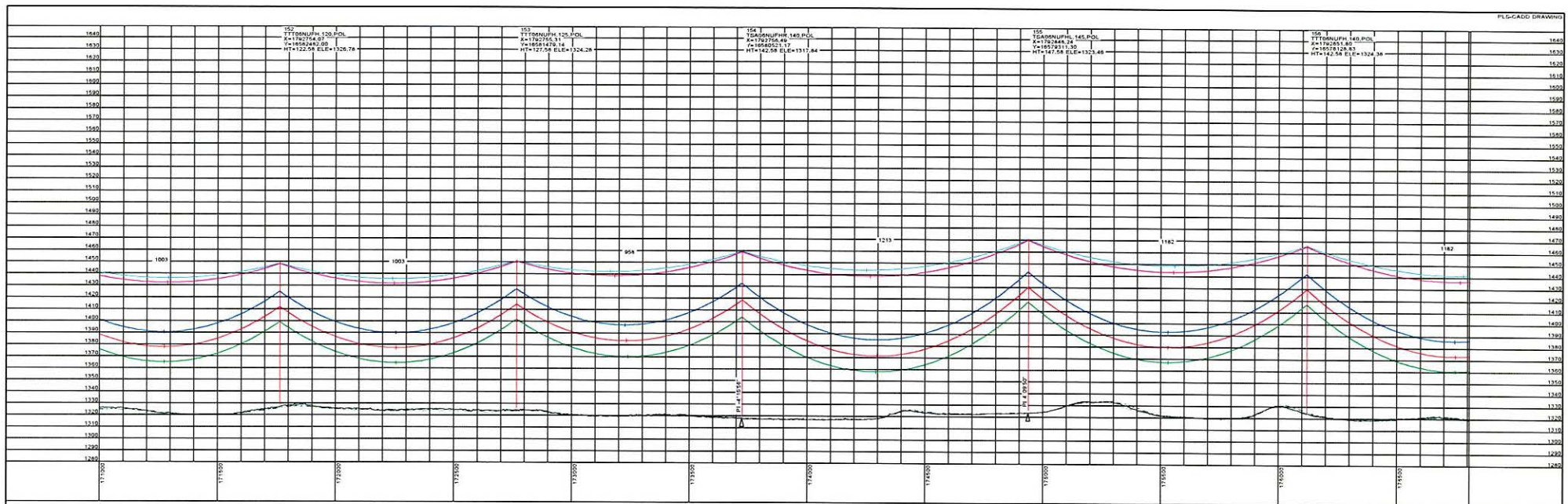


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 148 - 151

DWG. NO.
BSSE-PP-101-29
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



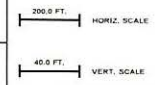
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JOB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

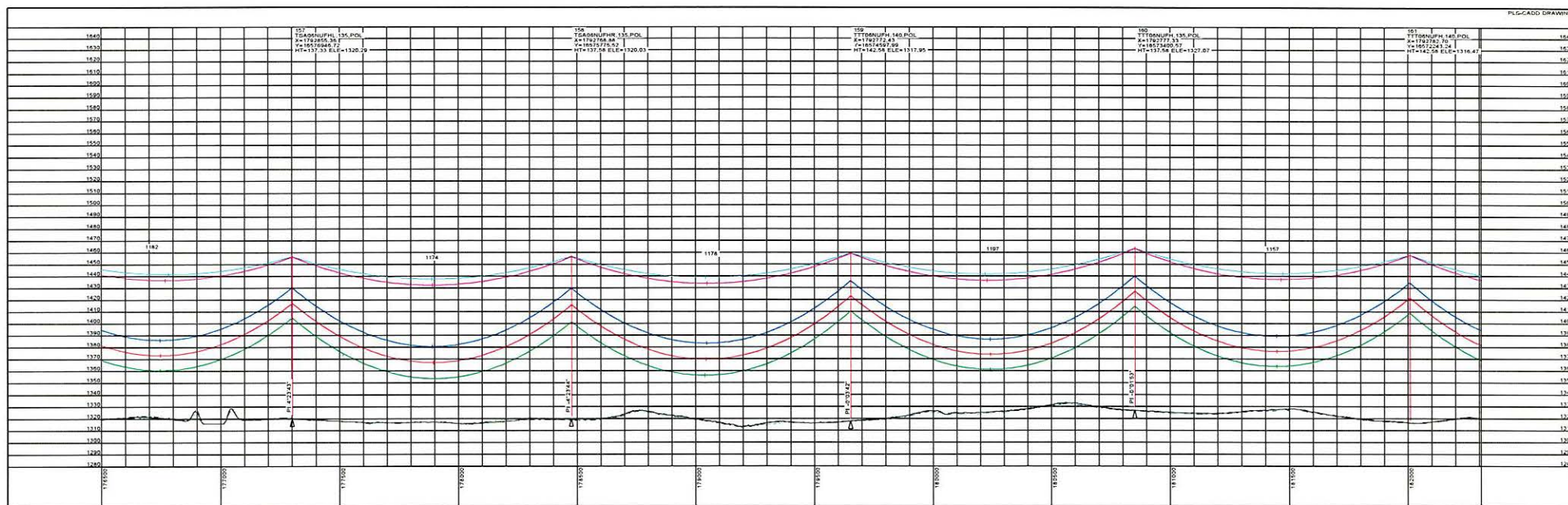


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 152 - 156

DWG. NO.
BSSE-PP-101-30
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

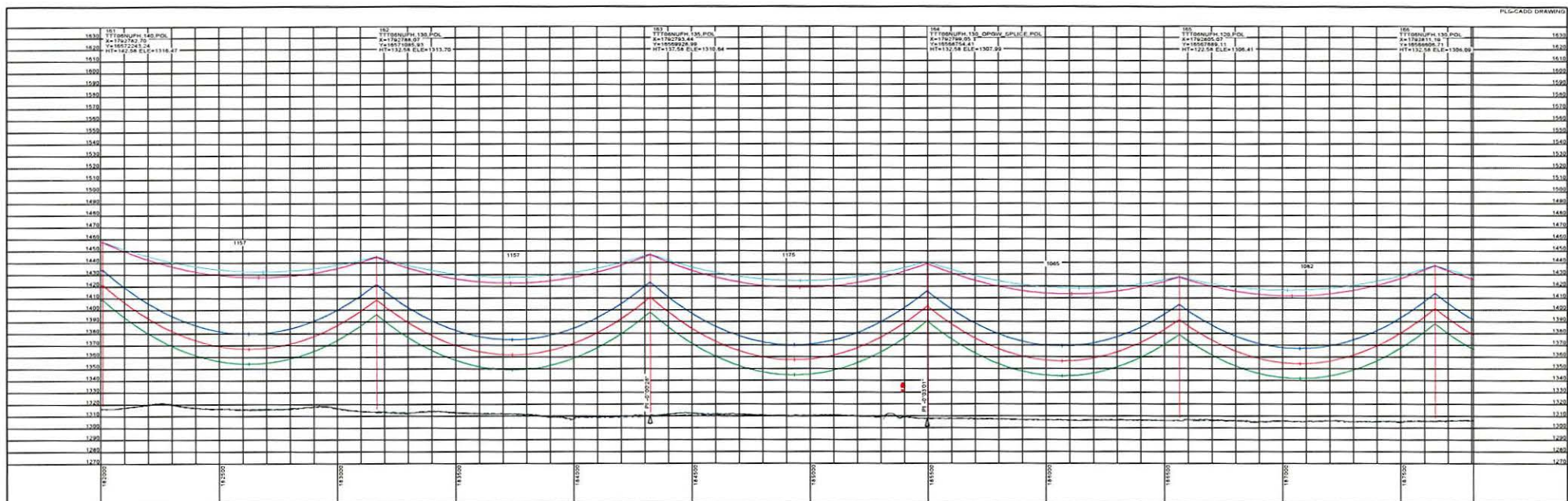


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 157 - 161

DWG. NO.
BSSE-PP-101-31
REVISION: 2
136508



20190301
ISSUED FOR
RECORD



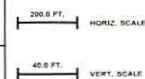
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DWG-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

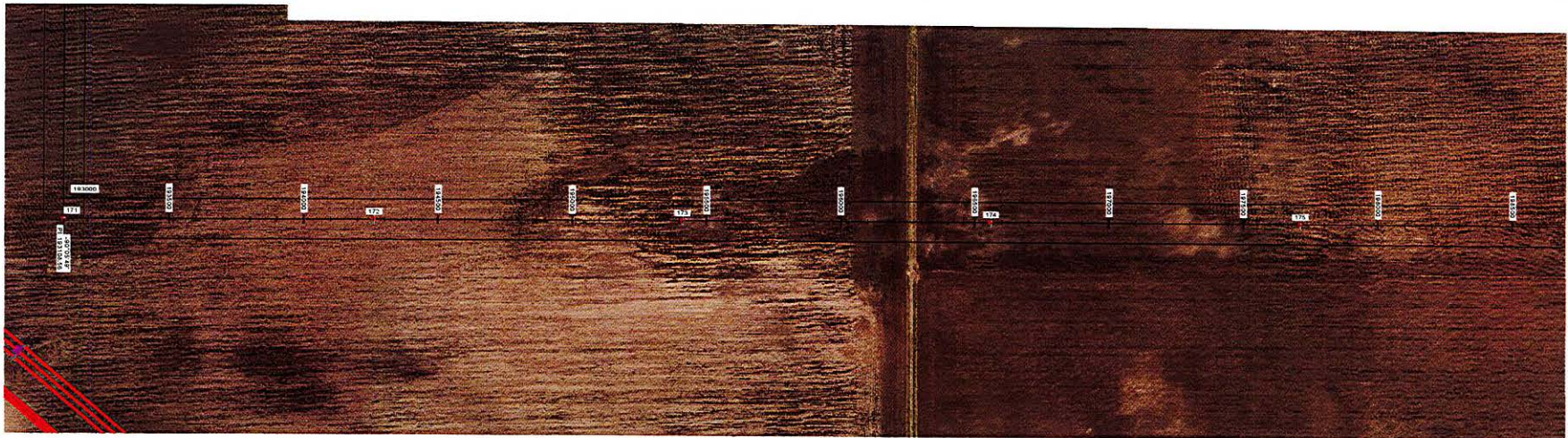
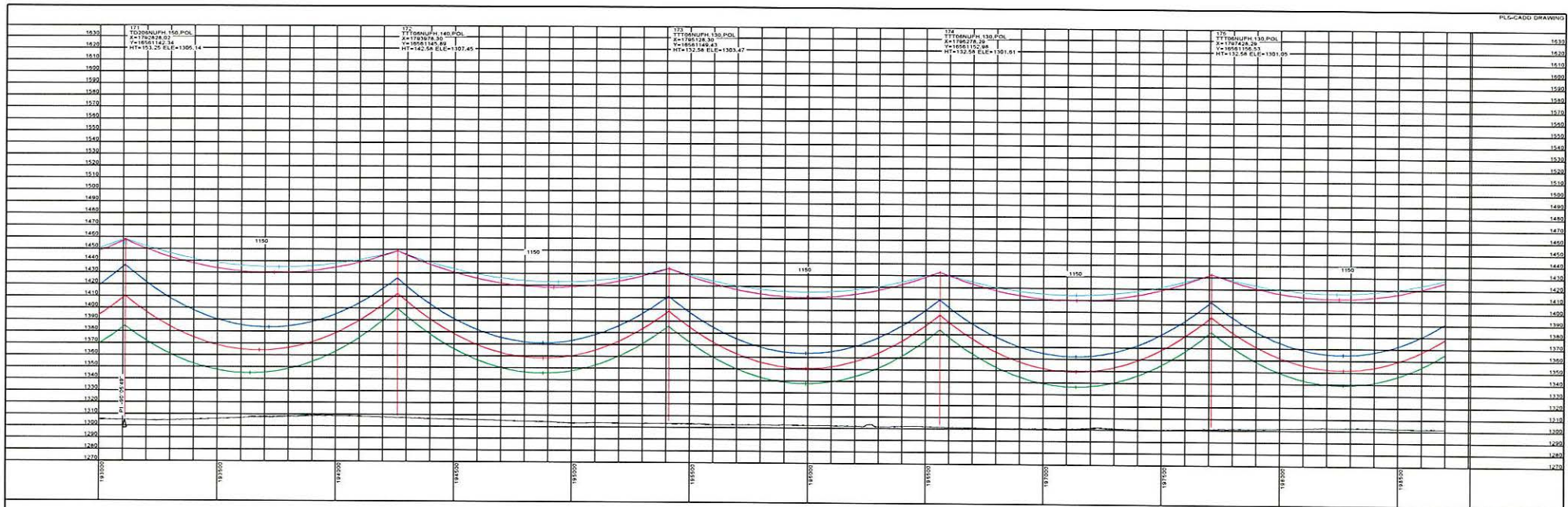


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

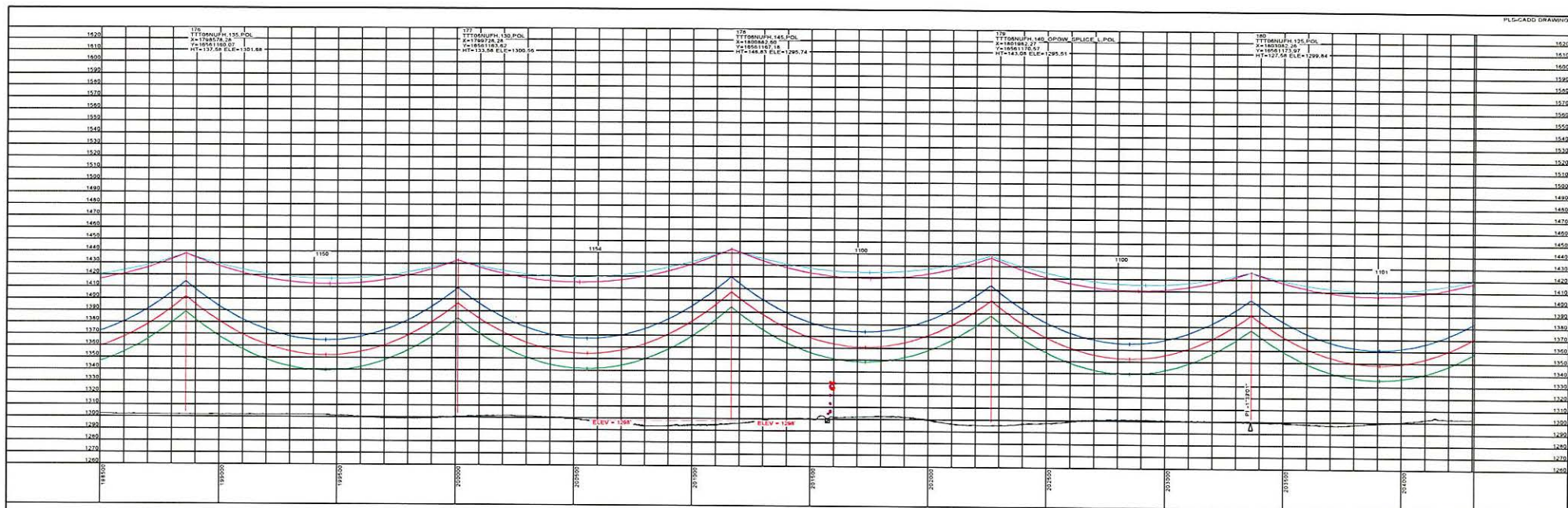


STRS: 161 - 166

DWG. NO.
BSSE-PP-101-32
REVISION: 2
136508



20190301 ISSUED FOR RECORD		REVISIONS		APPROVALS	DATE	DESIGN DATA CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523 COORDINATE SYSTEM: UTM ZONE 14N, US FT		200.0 FT HORIZ. SCALE 40.0 FT VERT. SCALE	NORTH 	STRS: 171 - 175 DWG. NO. BSSE-PP-101-34 REVISION: 2 136508
				DRAWN BY: GMD	02/03/17					
				DESIGN BY: GMD	02/03/17					
				CHECKED BY: JPW	02/03/17					
2 ISSUED FOR RECORD		JDB	JDB	JPW	03/01/19	APPROVED BY: DJF	02/03/17			



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DATE	CHK	DATE
2	ISSUED FOR RECORD	03/01/19	JPW	

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



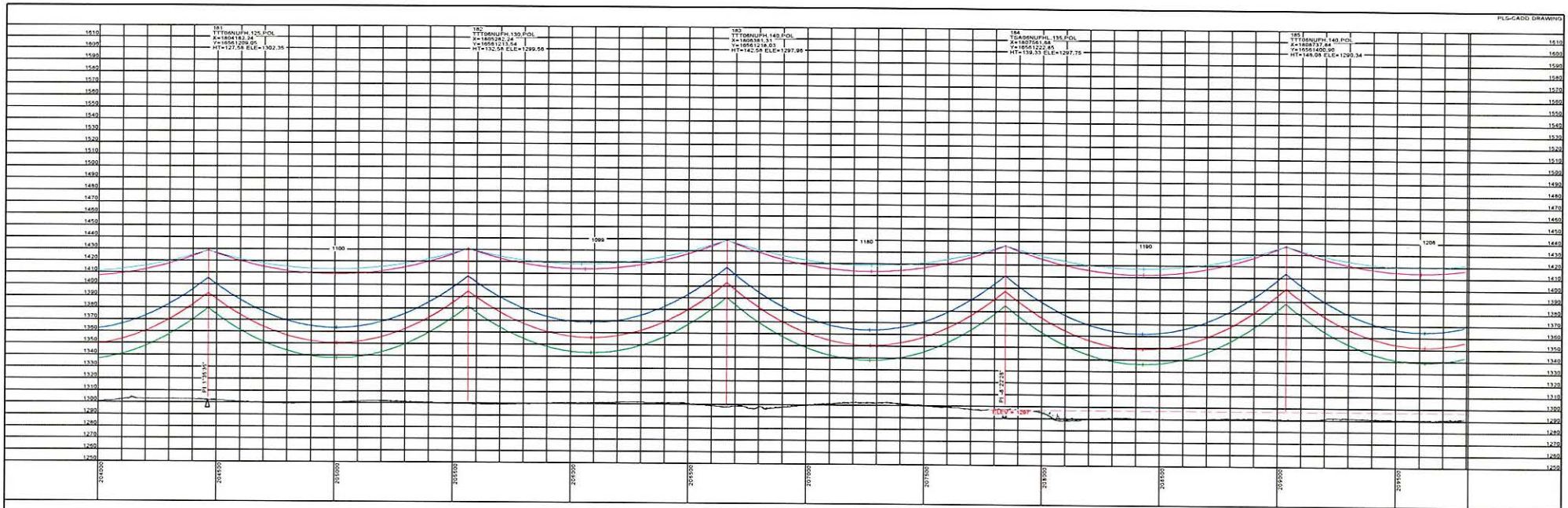
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE



STRS: 176 - 180

DWG. NO.
BSSE-PP-101-35
REVISION: 2
136508



20190301
ISSUED FOR
RECORD

REVISIONS			
REV	DESCRIPTION	DWN	CHK
2	ISSUED FOR RECORD	JDB	JPW

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA

CONDUCTOR: (24) 477 KCMIL 26/7 TP HAWK ACSR
 SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
 OPGW: 1-DN0-10523

COORDINATE SYSTEM: UTM ZONE 14N, US FT

BIG STONE SOUTH - ELLENDALE
 345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

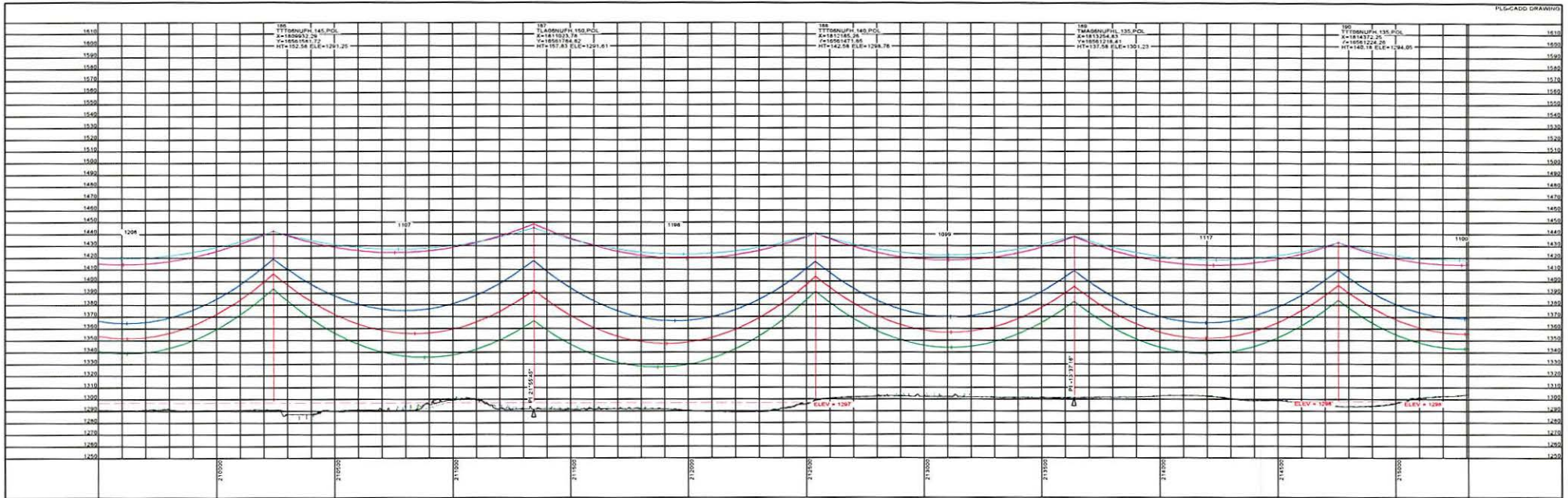
↑
NORTH

STRS: 181 - 185

DWG. NO.
BSSE-PP-101-36

REVISION: 2

136508



20190301
ISSUED FOR
RECORD



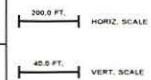
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
2	ISSUED FOR RECORD	JOB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		02/03/17
DESIGN BY: GMD		02/03/17
CHECKED BY: JPW		02/03/17
APPROVED BY: DJF		02/03/17

DESIGN DATA	
CONDUCTOR: (2) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

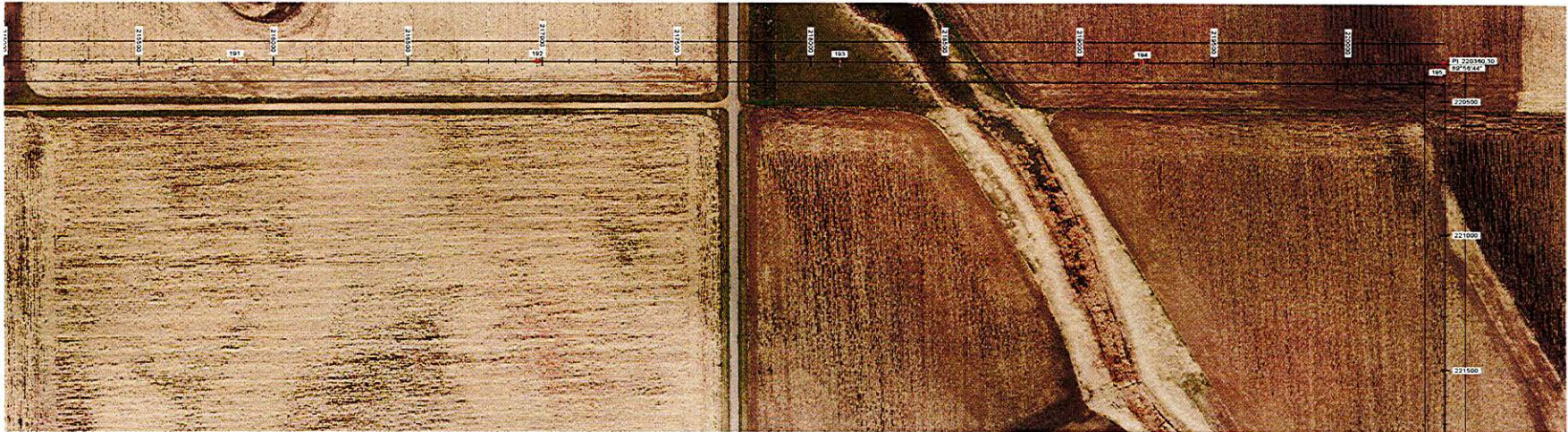
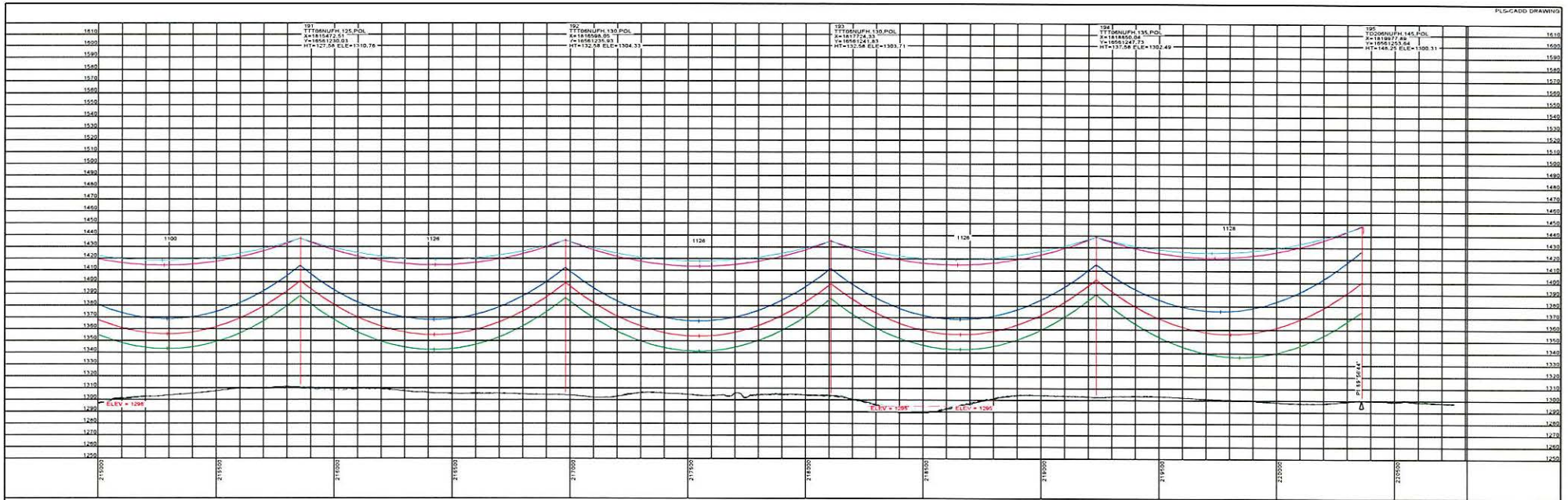


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 186 - 190

DWG. NO.
BSSE-PP-101-37
REVISION: 2
136508



20190301 ISSUED FOR RECORD				STRS: 191 - 195	
REVISIONS		APPROVALS		DESIGN DATA	
		DRAWN BY: GMD		CONDUCTOR: 020 477 KCMIL 267 TP HAWK ACSR	
		DESIGN BY: GMD		SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
		CHECKED BY: JPW		OPGW: 1-DNO-10523	
2 ISSUED FOR RECORD		APPROVED BY: DJF		COORDINATE SYSTEM: UTM ZONE 14N, US FT	
REV	DESCRIPTION	DWN	DGN	CHK	DATE
2	ISSUED FOR RECORD				03/01/19

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

NORTH

DWG. NO.
BSSE-PP-101-3B

REVISION: 2

136508