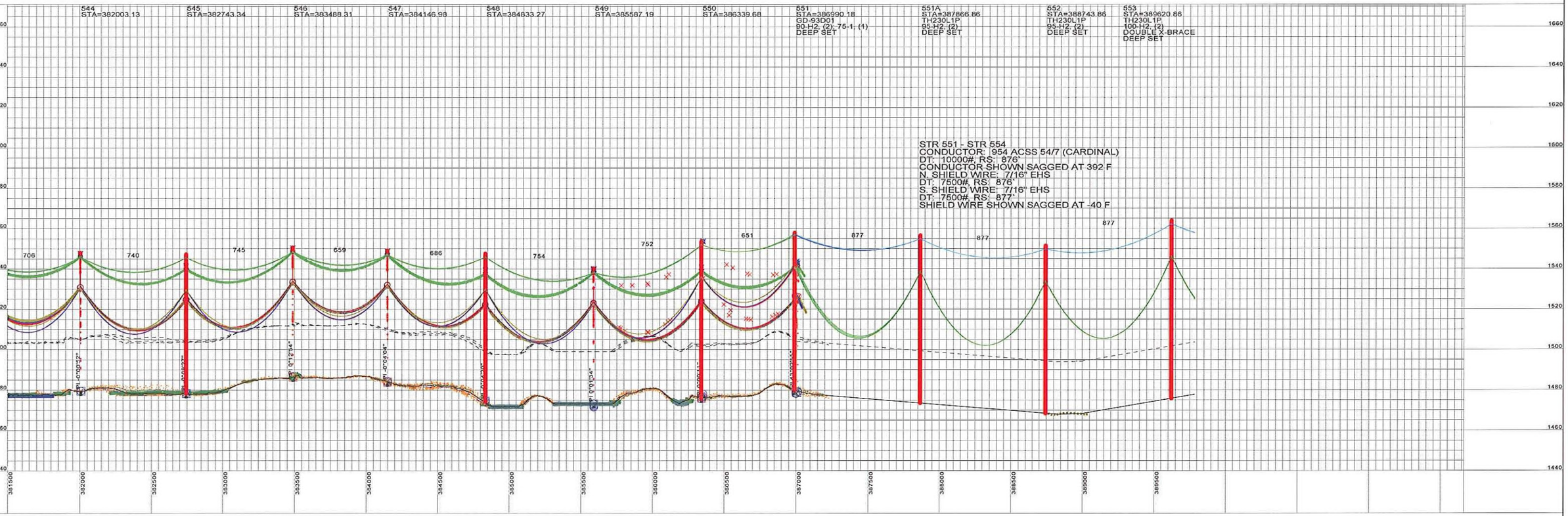
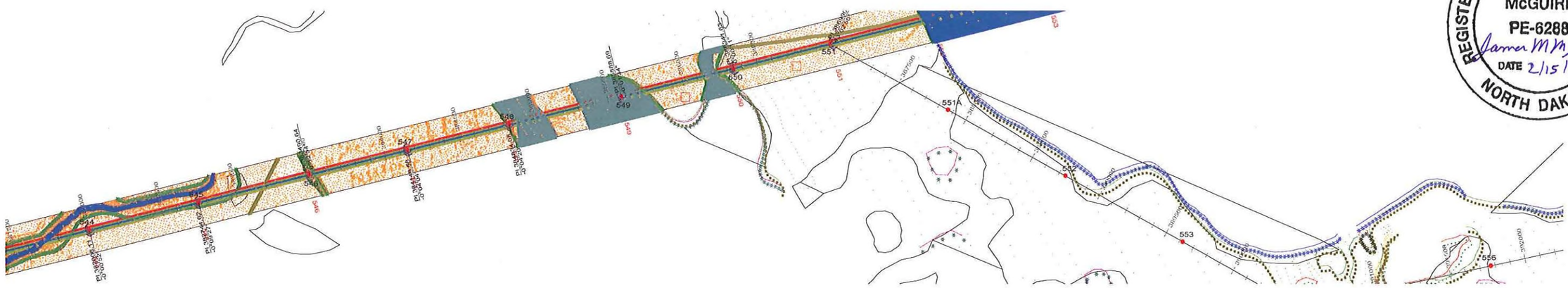
PLS-CADD DRAWING





REGISTERED PROFESSIONAL ENGINEER
JAMES M. McGUIRE
PE-6288
James M McGuire
DATE 2/15/13
NORTH DAKOTA

NOTE: REFER TO THE STRUCTURE LIST FOR DETAILED DESIGN INFORMATION.

APPROVALS	DATE	DESIGN DATA
DRAWN BY: XP-RS	05/11	CONDUCTOR: SEE STAKING SHEETS DESIGN TENSION: SEE STAKING SHEETS RULING SPAN: SEE STAKING SHEETS
DESIGN BY: KJO	01/13	
CHECKED BY: JMM	02/13	SHIELD WIRE: SEE STAKING SHEETS DESIGN TENSION: SEE STAKING SHEETS RULING SPAN: SEE STAKING SHEETS
APPROVED BY: JMM	02/13	

REVISIONS

GREAT RIVER ENERGY℠

GD LINE - RAMSEY TO PRAIRIE
230 KV TRANSMISSION LINE

350.0 FT. HORIZ. SCALE
25.0 FT. VERT. SCALE
NORTH

DWG. NO.
GD-91D
REV. 0

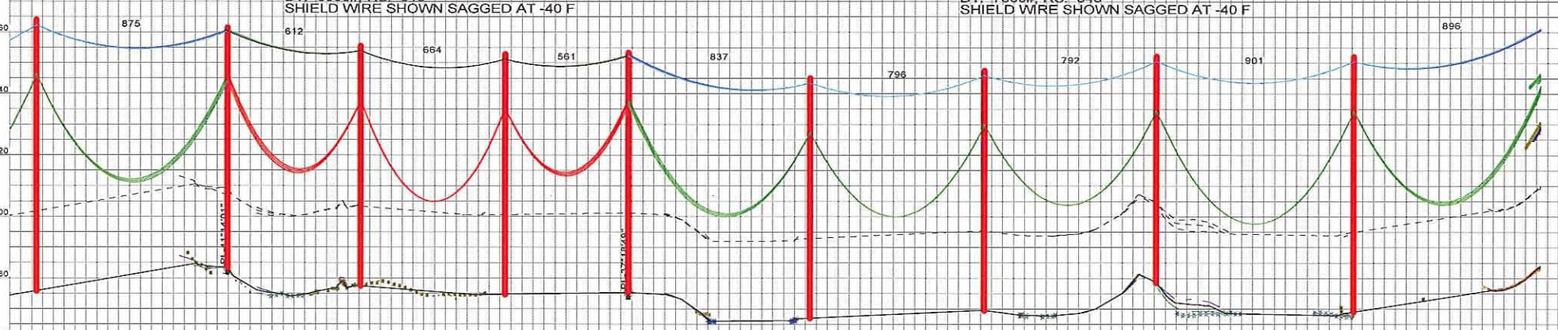
PLS-CADD DRAWING

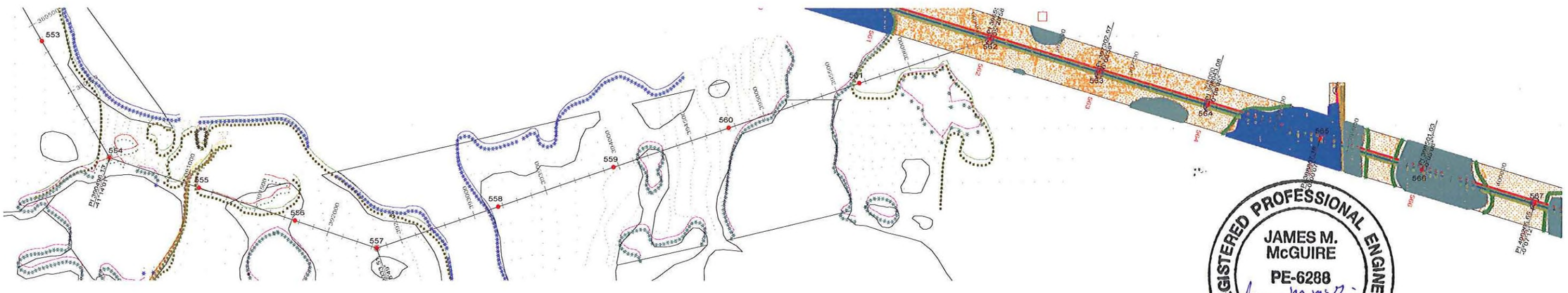
553	554	555	556	557	558	559	560	561
STA=389620.66	STA=390496.13	STA=391107.86	STA=391772.33	STA=392333.51	STA=393170.28	STA=393966.04	STA=394757.75	STA=395658.40
TH230L1P	GD-93D01	TH230L1P	TH230L1P	GD-93D01	TH230L1P	TH230L1P	TH230L1P	TH230L1P
100-H2, (2)	90-H3, (2), 75-H1, (1)	90-1, (2)	90-1, (2)	90-H3, (2), 75-H1, (1)	90-H1, (2)	90-H1, (2)	85-H1, (2)	95-1, (2)
DOUBLE X-BRACE	DEEP SET	DEEP SET	DEEP SET	DEEP SET	DEEP SET	DEEP SET	DEEP SET	DOUBLE X-BRACE
DEEP SET								DEEP SET

STR 551 - STR 554
CONDUCTOR: 954 ACSS 54/7 (CARDINAL)
DT: 10000#, RS: 876'
CONDUCTOR SHOWN SAGGED AT 392 F
N. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 876'
S. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 877'
SHIELD WIRE SHOWN SAGGED AT -40 F

STR 554 - STR 557
CONDUCTOR: 954 ACSS 54/7 (CARDINAL)
DT: 6400#, RS: 617'
CONDUCTOR SHOWN SAGGED AT 392 F
N. SHIELD WIRE: 7/16" EHS
DT: 6500#, RS: 621'
S. SHIELD WIRE: 7/16" EHS
DT: 6500#, RS: 613'
SHIELD WIRE SHOWN SAGGED AT -40 F

STR 557 - STR 562
CONDUCTOR: 954 ACSS 54/7 (CARDINAL)
DT: 10000#, RS: 848'
CONDUCTOR SHOWN SAGGED AT 392 F
N. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 848'
S. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 848'
SHIELD WIRE SHOWN SAGGED AT -40 F





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PE-6288
DATE 2/15/13
NORTH DAKOTA

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DESIGN BY: KJO	01/13	
CHECKED BY: JMM	02/13	SHIELD WIRE: SEE STAKING SHEETS DESIGN TENSION: SEE STAKING SHEETS RULING SPAN: SEE STAKING SHEETS
APPROVED BY: JMM	02/13	

REVISIONS

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230 KV TRANSMISSION LINE

350.0 FT. HORIZ. SCALE
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NORTH

DWG. NO.
GD-91D
REV. 0
SHEET 59 OF 63

PLS-CADD DRAWING

562 STA=396553.99
GD-93D01
90-H3 (2) 75-1, (1)
DEEP SET

563 STA=397301.68

564 STA=398041.33

565 STA=398806.45

566 STA=399500.06

567 STA=400265.65

568 STA=401029.16

569 STA=401793.20

570 STA=402556.11

571 STA=403321.03

572 STA=404086.79

573 STA=404654.35

574 575 STA=405418.55=405048.03

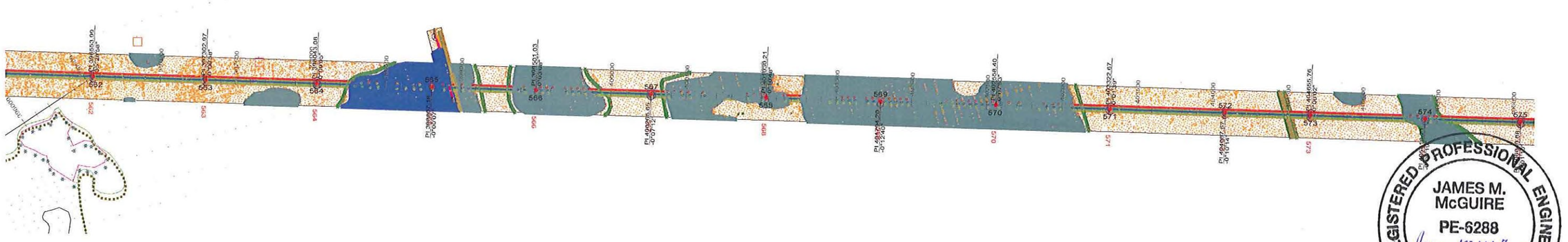
STR 557 - STR 562
CONDUCTOR: 954 ACSS 54/7 (CARDINAL)
DT: 10000#, RS: 848`
CONDUCTOR SHOWN SAGGED AT 392 F
N. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 848`
S. SHIELD WIRE: 7/16" EHS
DT: 7500#, RS: 848`
SHIELD WIRE SHOWN SAGGED AT -40 F

896 748 740 765 694 766 764 764 763 765 766 568 764 630

1680 1660 1640 1620 1600 1580 1560 1540 1520 1500 1480 1460

396000 396500 397000 397500 398000 398500 399000 399500 400000 400500 401000 401500 402000 402500 403000 403500 404000 404500 405000 405500 406000

GRE 2/7/12
THIS IS MARSH WETLAND



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SHEET 60 OF 63