



2302 Great N. Drive
Fargo, North Dakota 58402
(701) 241-8632
dave.sederquist@xcelenergy.com

December 21, 2017

—VIA U.S. Mail and ELECTRONIC FILING—

Darrell Nitschke, Executive Secretary
North Dakota Public Service Commission
State Capitol Building, Dept. 0408
600 East Boulevard
Bismarck, ND 59505-0480

RE: COMPLIANCE FILING - BORDER WINDS PROJECT
CASE NO. PU-08-797, CASE NO. PU-14-031

Dear Mr. Nitschke:

Northern States Power Company, doing business as Xcel Energy (the Company), submits to the North Dakota Public Service Commission (Commission) this compliance filing in the above-referenced matter. This filing is being made pursuant to the *May 5, 2011 Findings of Fact, Conclusion of law and Order, Section 33*.

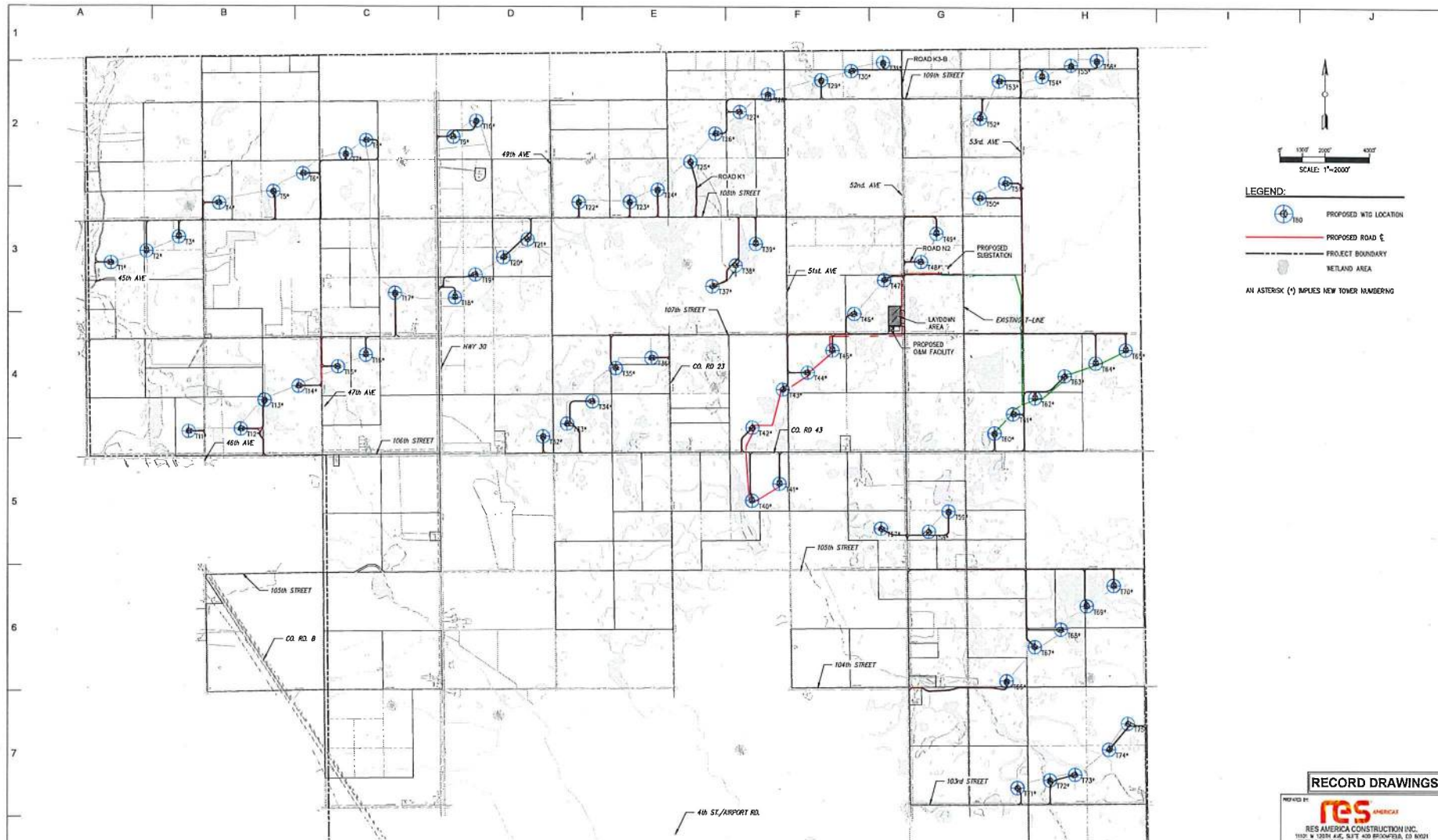
Also, on November 21, 2017, Carlson McCain filed with the NDPSC a Reclamation Inspection, prepared on behalf of the Commission. Carlson McCain noted that reclamation of the Border Winds facility was successful and that no trees were removed during the construction and no further monitoring of tree mitigation is necessary for this facility going forward as required in the May 5, 2011 Order.

Attached to this filing as Attachment A are the associated “as built” maps.

If you have any questions or concerns regarding this matter, please contact me at dave.sederquist@xcelenergy.com or (701) 241-8632.

SINCERELY,

Sr. Regulatory and Financial Consultant
Enclosure



LEGEND:

- PROPOSED WTG LOCATION
- PROPOSED ROAD
- PROJECT BOUNDARY
- WETLAND AREA

AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING

[D:\VMD\FILES\USA\North Dakota - Border Winds 23053\VMD\Internal\SERIES 3\CONTROLLED DRAWINGS\NH-268214-3.dwg] [Date: 16, 2016 - 10:55am]

NO	REVISION	ZONE	DATE	BY	CHK	ENGR	NO
0	ISSUE FOR CONSTRUCTION	ALL	01-13-14	PC	MA	MN	
1	ADDED DETAIL FOR S&T FENCE	ALL	07-30-14	PC	MA	MN	
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN	
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN	
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN	
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REVISION	ZONE	DATE	BY	CHK	ENGR

REFERENCE DRAWINGS	
DWG NO.	DESCRIPTION

Xcel Energy
 NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
 ROLETTE COUNTY, NORTH DAKOTA

DWG: PC	DATE: 08-28-14	CHK: RFA	DATE: 10/1/14
ENGR: M/H	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
PLM: BT	DATE: 08-28-14	PROJ. NO: 23053	
APVD: M/H	DATE: 08-28-14	SCALE: 1"=200'	

THIS DOCUMENT IS A TOOL TO ACCURATELY REPRESENT THE PERFORMANCE OF THESE JOBS. YOUR PERSONAL SAFETY IS PROTECTED BY USING SAFETY PRACTICES, PROCEDURES AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS AND MANUALS.

ENERGY SUPPLY
 ENGINEERING & CONSTRUCTION

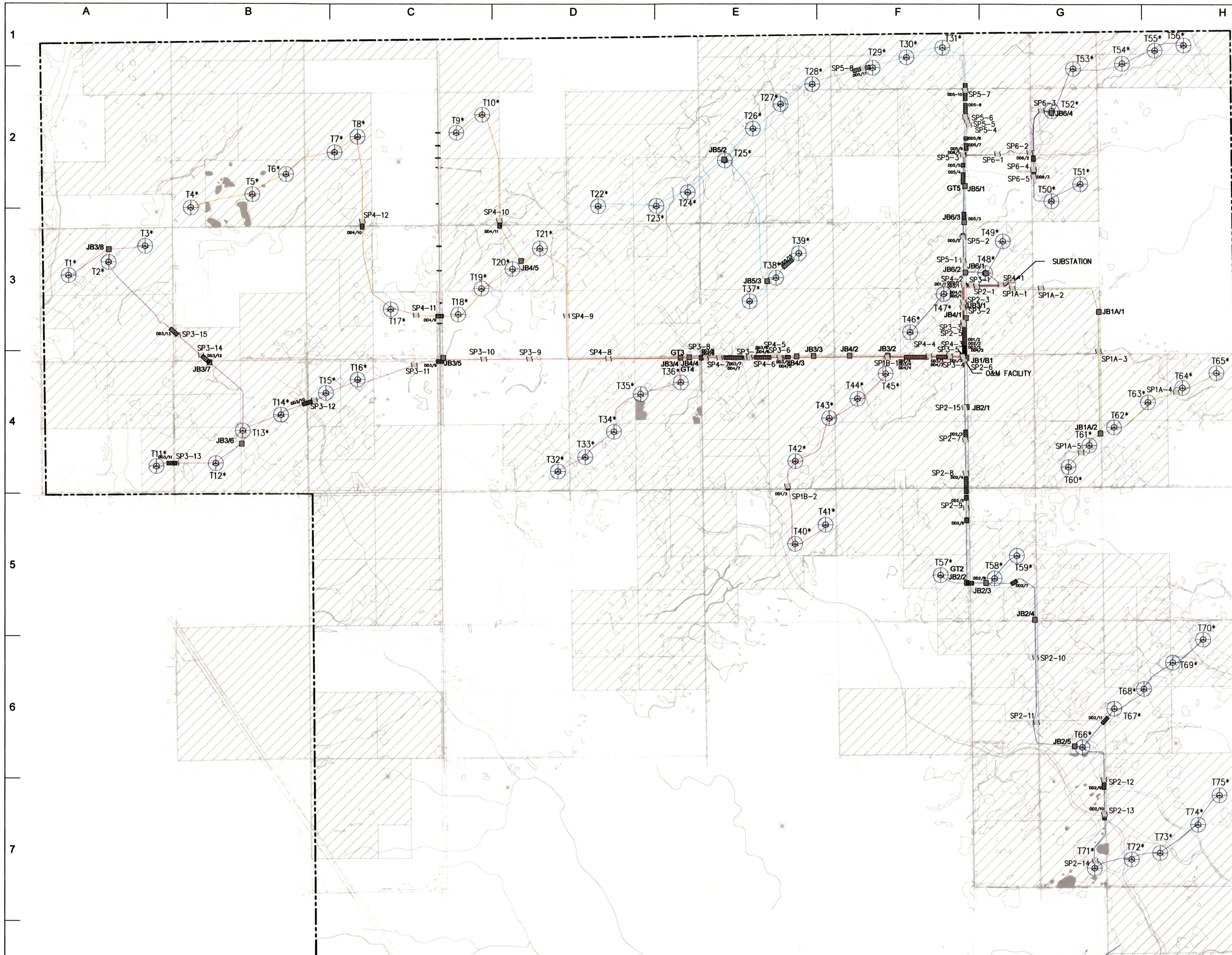
RECORD DRAWINGS

REVISED BY: **RES AMERICAN**
RES AMERICAN CONSTRUCTION INC.
 1110 W 130TH AVE, SALT LAKE CITY, UT 84119
 TEL: (801) 433-4333 FAX: (801) 433-4338
 PROJECT NO: 23053 WTG LAYOUT NO: PUSAN0057

OVERALL SITE PLAN
SHEET 3 OF 32
 CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-3

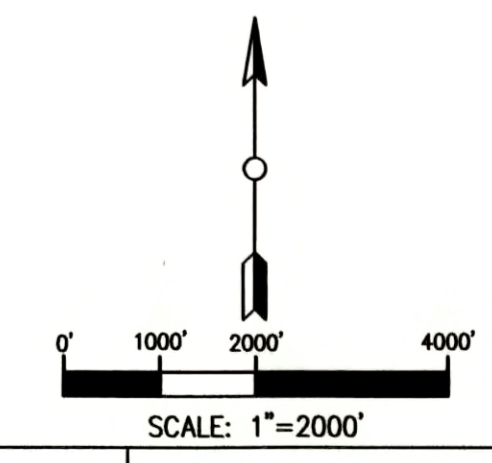
6/6



LEGEND:

- T75 WTG LOCATION (75 of)
- PROJECT ROAD
- PROJECT BOUNDARY
- 230kV OVERHEAD LINE
- MV UNDERGROUND CIRCUIT 1A
- MV UNDERGROUND CIRCUIT 1B
- MV UNDERGROUND CIRCUIT 2
- MV UNDERGROUND CIRCUIT 3
- MV UNDERGROUND CIRCUIT 4
- MV UNDERGROUND CIRCUIT 5
- MV UNDERGROUND CIRCUIT 6
- JUNCTION BOX
- GROUNDING TRANSFORMER
- DIRECTIONAL DRILL
- MV CABLE SPLICE LOCATION

- NOTES:**
- CABLE ROUTES ARE NOT TO SCALE; THEY HAVE BEEN ENLARGED FOR VISIBILITY.
 - GT1 AND GT6 ARE LOCATED IN THE SUBSTATION.
 - AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING.



RECORD DRAWINGS

PREPARED BY:

RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE, SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

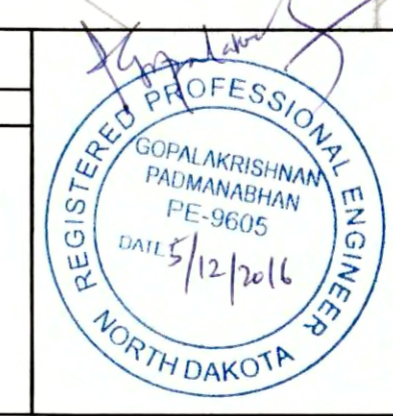
PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION	ALL	07-24-14	SMK	EJL	KL	7	RECORD DRAWING - SP1A-4 AND SP1A-5	ALL	01-08-16	SMK	EJL	KL
1	REVISED TRENCH LENGTHS	ALL	08-11-14	SMK	EJL	KL	8	RECORD DRAWINGS - REVISED NOTES	ALL	01-11-16	SMK	EJL	KL
2	REVISED ROUTING BETWEEN T47 & T48 AND ADDED JBS	ALL	09-22-14	SMK	EJL	KL	9	LEGEND, NOTES, AND DBS	ALL	04-12-16	SMK	EJL	KL
3	MOVED GT1>6 INTO SUB/SPLIT CIRCUIT 1/RE-ROUTED CKT 6	ALL	10-07-14	SMK	EJL	KL	10	RECORD - REVISED TURBINE NUMBERING & ADDED NOTE 3	ALL	05-05-16	SMK	EJL	KL
4	REVISED JUNCTION BOX LOCATIONS	ALL	10-22-14	SMK	EJL	KL							
5	ISSUED FOR SITE REVIEW	ALL	12-18-14	SMK	EJL	KL							
6	RECORD DRAWING	ALL	11-25-15	MRW	EJL	KL							

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: SMK DATE: 12-18-14 CHK: N/A DATE: N/A
ENG: KL DATE: 12-18-14 CHK: EJL DATE: 12-18-14
PM: BT DATE: 12-18-14 PROJ. NO: 23053
APVD: GP DATE: 12-18-14 SCALE: 1" = 2000'



THIS MAP/DRAWING 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 AND MANUALS.

MV CABLE LAYOUT
(VESTAS 2.0MW - 150MW)

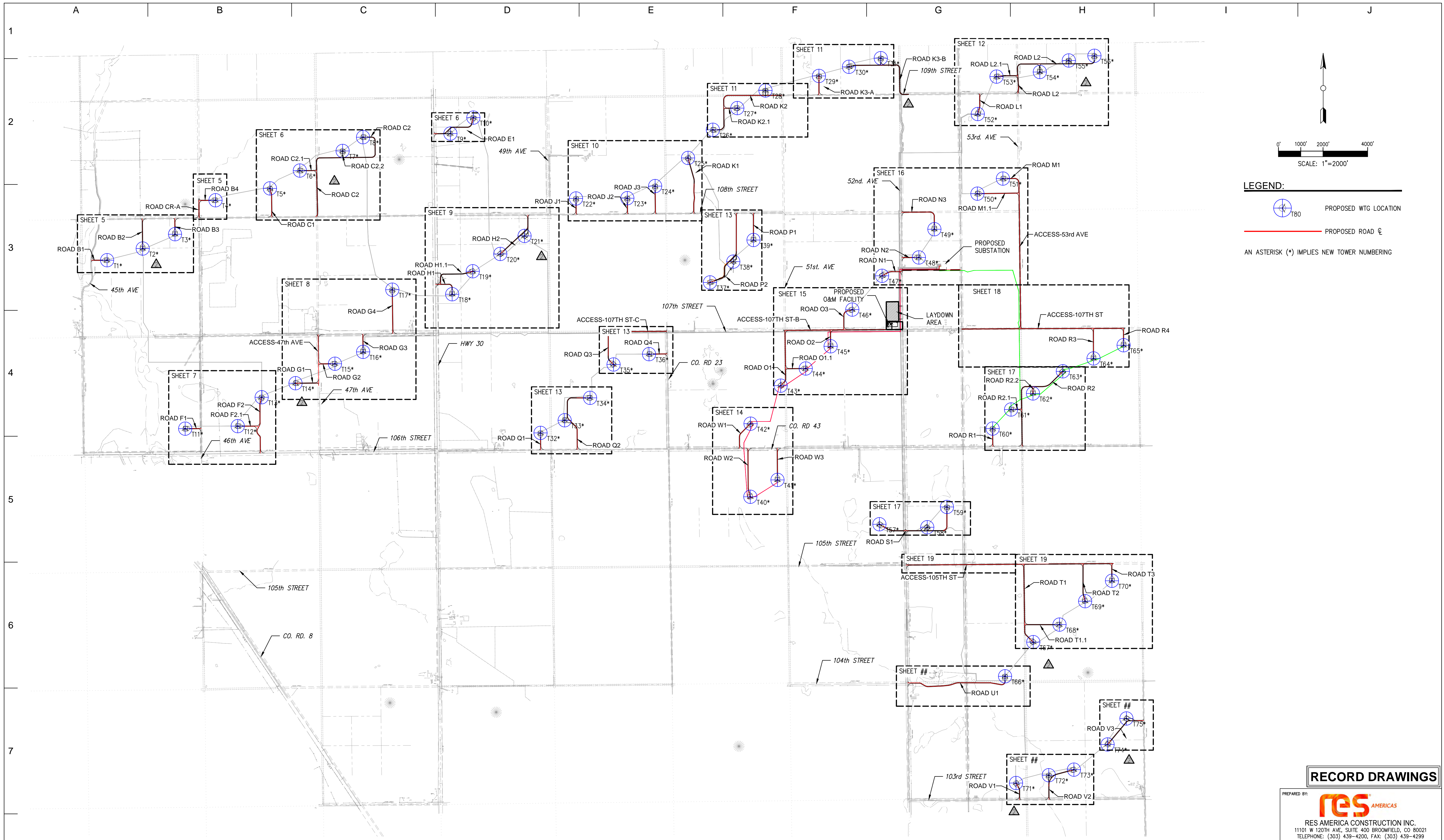
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

NH-268217-308

REV 10

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES 4\ISSUES\20160502 - RECORD DRAWINGS - NEW TURBINE IDS\CAO\NH-268217-308.dwg] [skuter] [May 12, 2016 - 5:44pm]

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-4.dwg] [curry] [Dec 16, 2016 - 10:57am]



LEGEND:

- PROPOSED WTG LOCATION
- PROPOSED ROAD CL
- AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN	
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN	
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN	
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
 NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
 ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
ENG: MN	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
PM: BT	DATE: 08-28-14	PROJ. NO: 23053	
APVD: MN	DATE: 08-28-14	SCALE: 1"=2000'	

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RECORD DRAWINGS

PREPARED BY: **RES AMERICAS**

RES AMERICA CONSTRUCTION INC.
 11101 W 120TH AVE., SUITE 400 BROOMFIELD, CO 80021
 TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

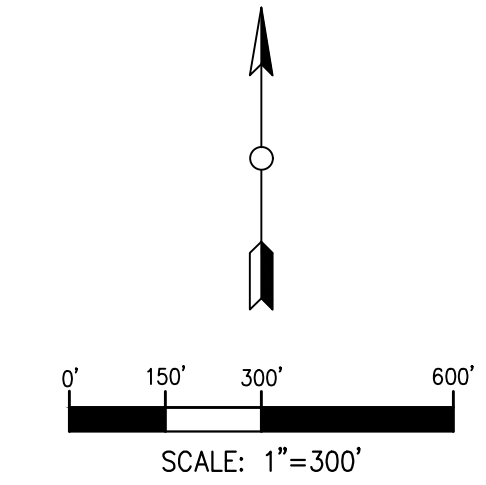
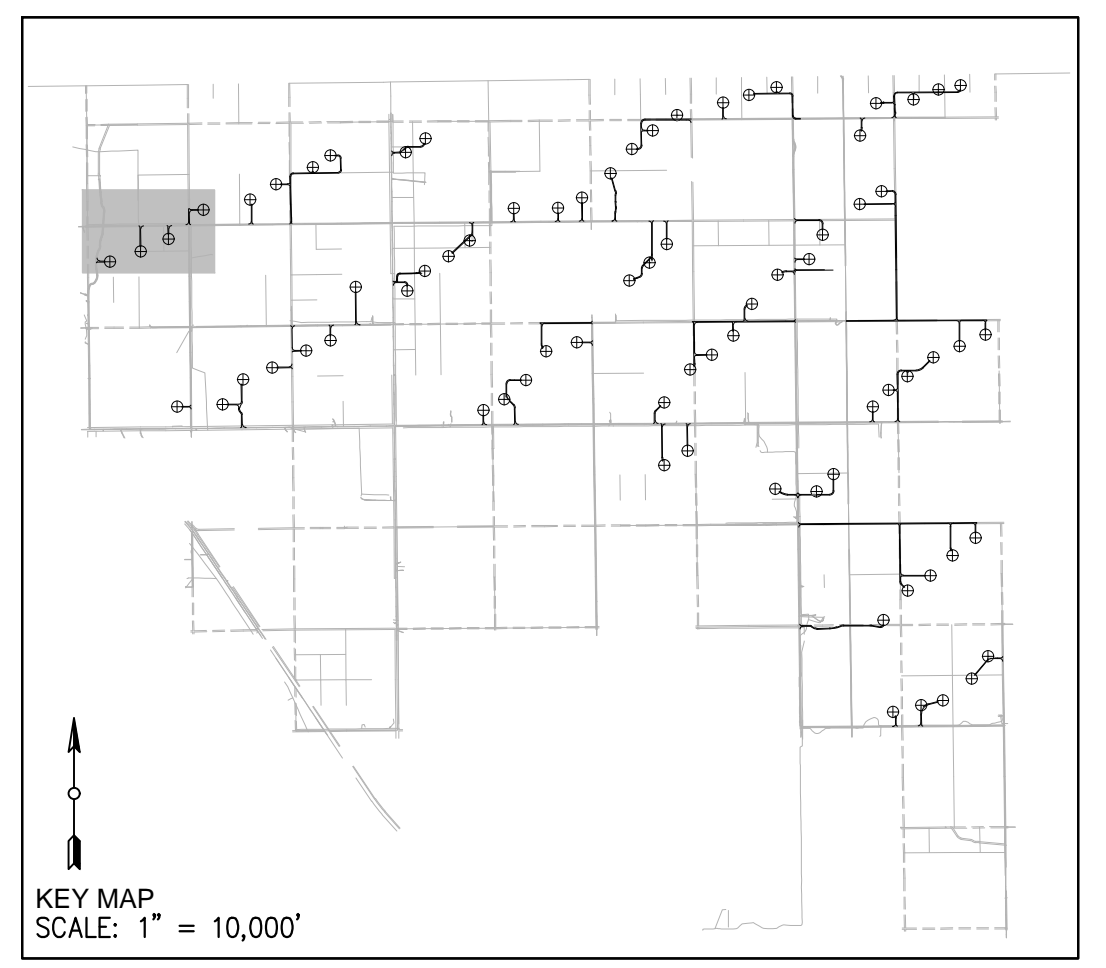
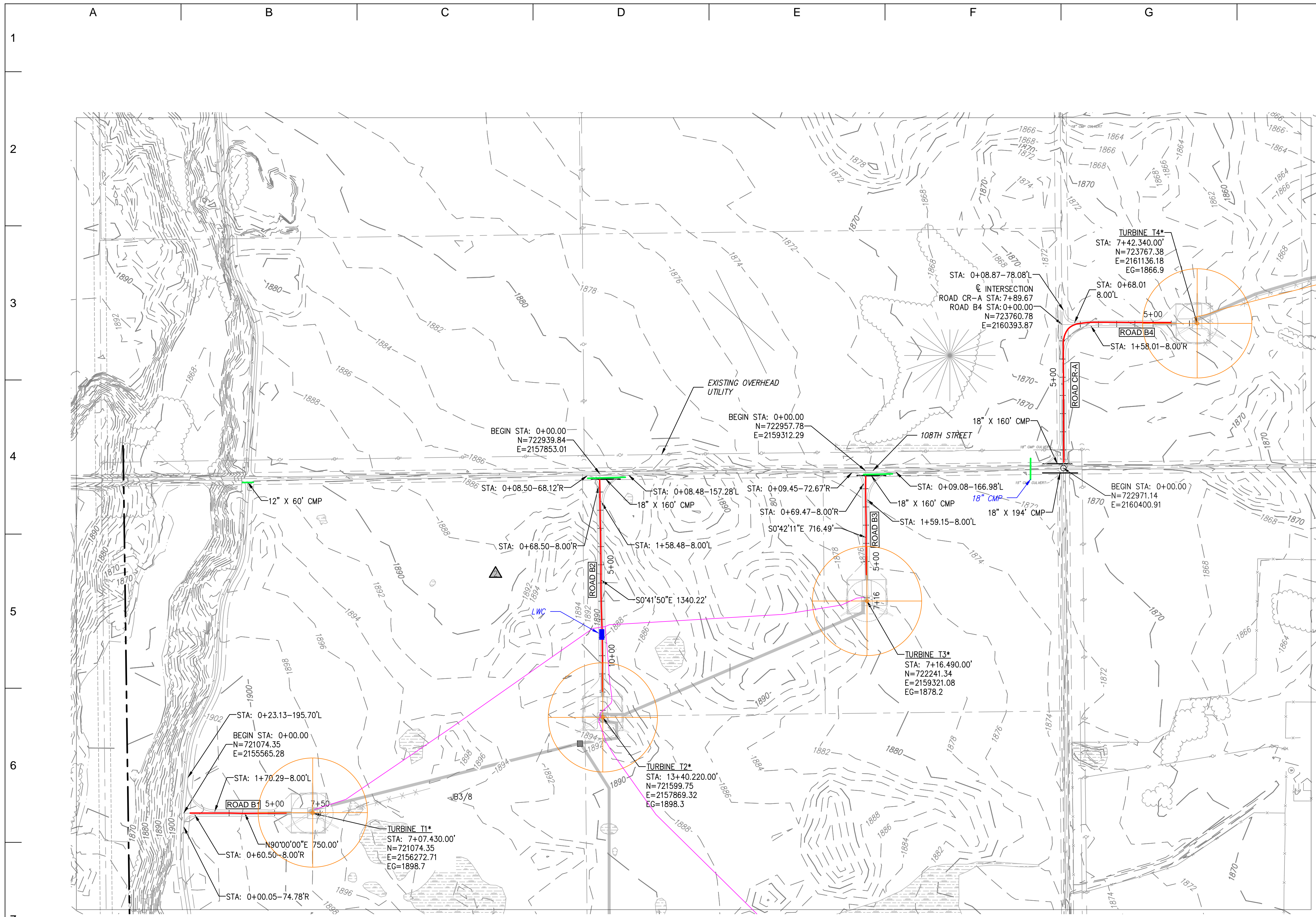
SHEET INDEX
 SHEET 4 OF 32
 CIVIL CONSTRUCTION PLANS & DETAILS

ENERGY SUPPLY
 ENGINEERING & CONSTRUCTION

NH-268214-4

REV 6

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES 3\CONTROLLED DRAWINGS\NH-268214-5.dwg] [curry] [Dec 16, 2016 - 10:59am]



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810 - EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
 - EXISTING OVERHEAD UTILITY
 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
 - SEDIMENT CONTROL

- NOTE:**
1. EXERCISE CAUTION DURING CONSTRUCTION AND REQUEST UTILITY AND PIPELINE INFO FROM APPROPRIATE OWNERS/OPERATOR AND LOCATING SOURCES.
 2. ADDITIONAL INFRASTRUCTURE MAY BE PRESENT IN THE FIELD ALTHOUGH NOT KNOWN TO THE ENGINEER AND NOT SHOWN ON THE DRAWINGS.
 3. SEE DETAIL 3, SHEET 25 FOR CULVERT INSTALLATION DETAIL.
 4. FOR AREAS WITH SMALL DRAINAGE AREA INSTALL 12" CMP TO CONVEY WATER CROSS ROAD.
 5. VERIFY EXISTING ROAD DRAINAGE CULVERTS AND EXTEND AS NEEDED TO ACHIEVE NEW ROAD WIDTH USING EQUAL SIZE PIPES.



RECORD DRAWINGS

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RES AMERICAS
RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE., SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN	
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN	
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN	
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
ENG: MN	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
PM: BT	DATE: 08-28-14	PROJ. NO: 23053	
APVD: MN	DATE: 08-28-14	SCALE: 1" = 300'	

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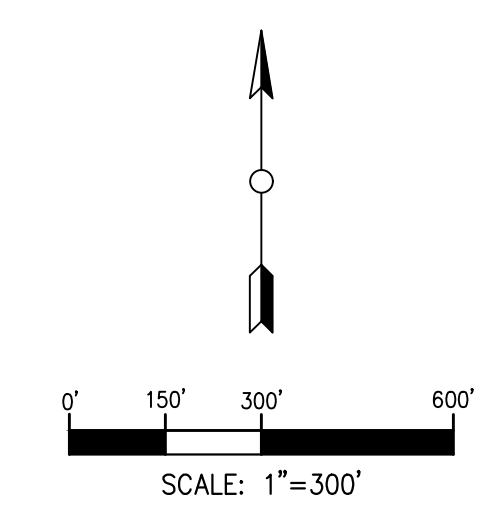
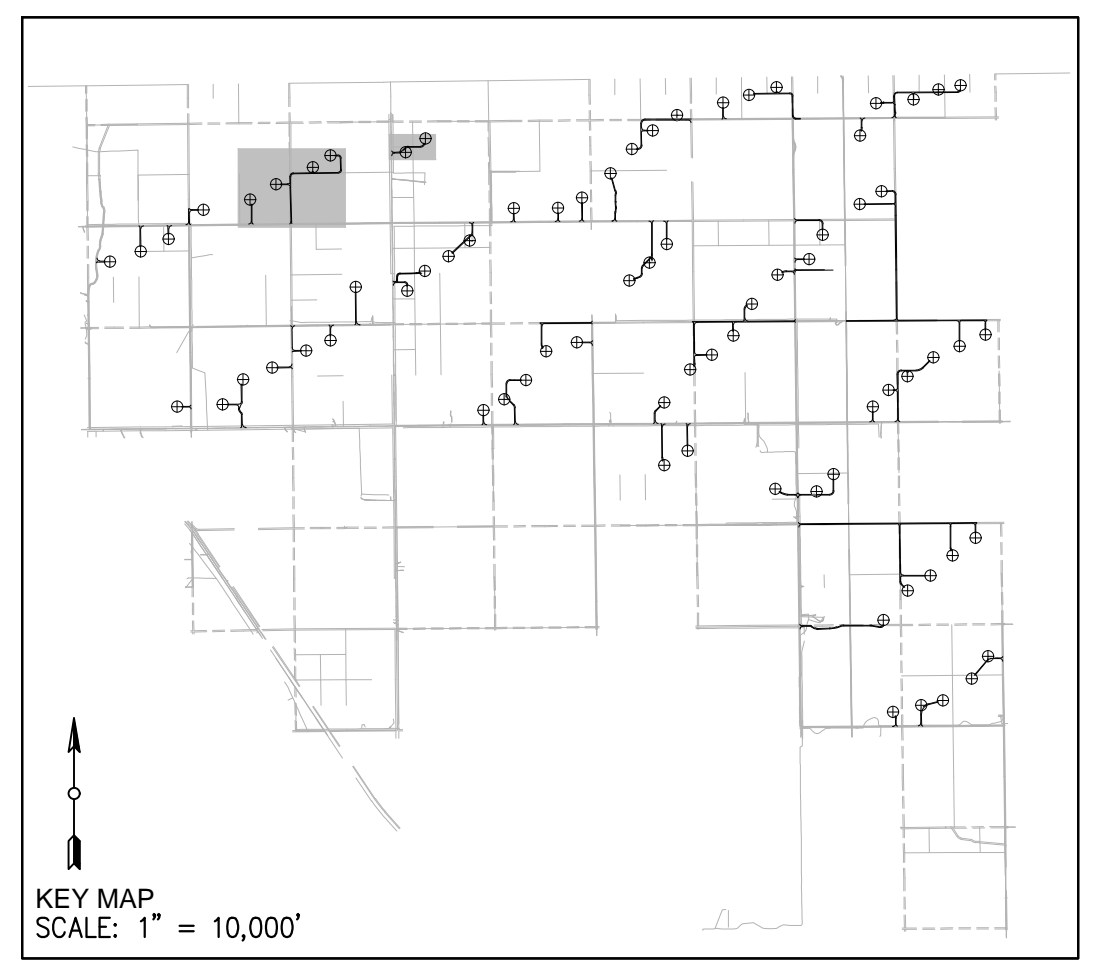
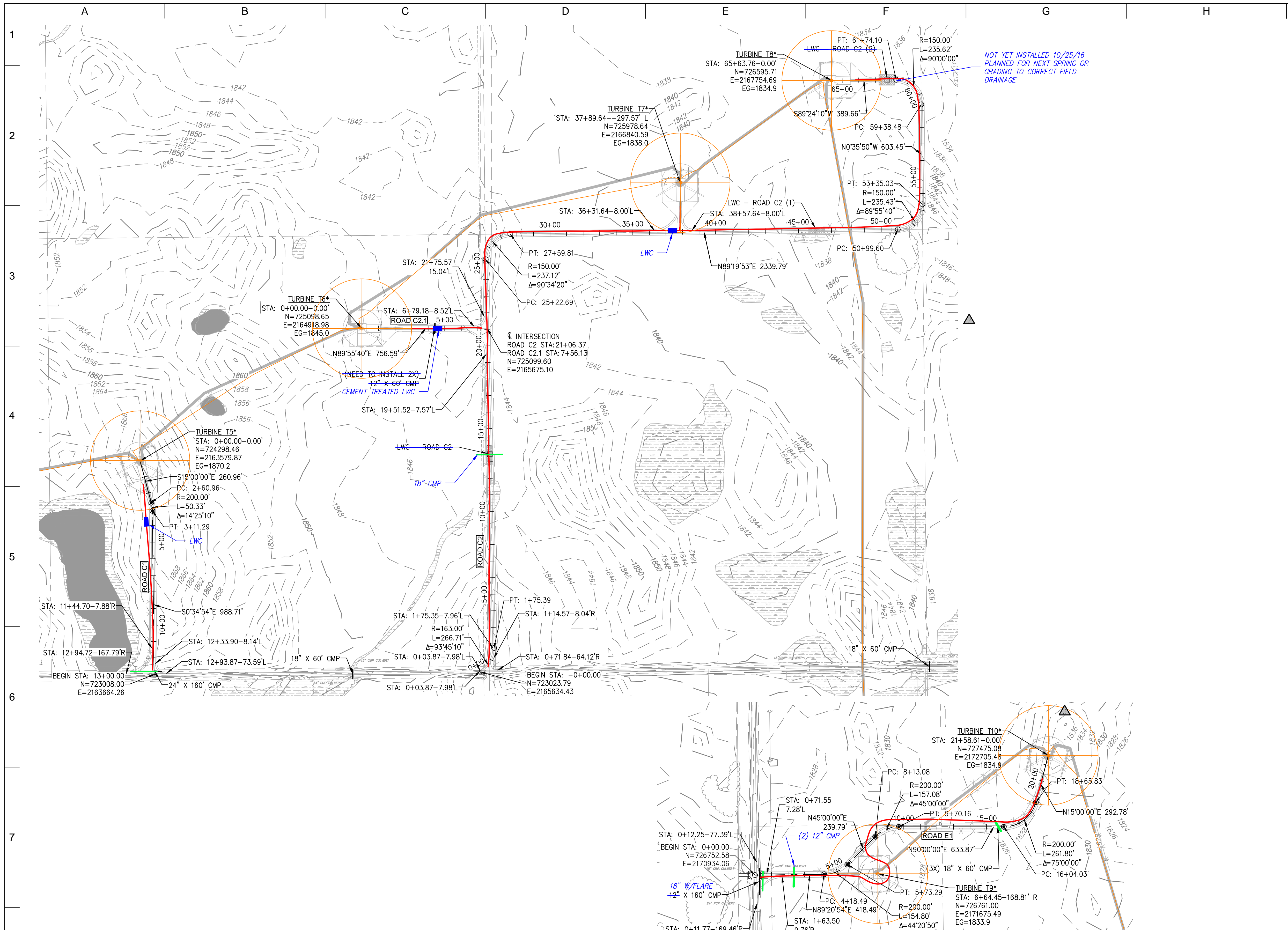
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NH-268214-5

ROADS B1-B4, A2-A3, CRA
SHEET 5 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

REV 6



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810- EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
 - EXISTING OVERHEAD LINE
 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
 - SEDIMENT CONTROL

- NOTE:**
1. EXERCISE CAUTION DURING CONSTRUCTION AND REQUEST UTILITY AND PIPELINE INFO FROM APPROPRIATE OWNERS/OPERATOR AND LOCATING SOURCES.
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 3. SEE DETAIL 3, SHEET 25 FOR CULVERT INSTALLATION DETAIL.
 4. FOR AREAS WITH SMALL DRAINAGE AREA INSTALL 12" CMP TO CONVEY WATER CROSS ROAD.
 5. VERIFY EXISTING ROAD DRAINAGE CULVERTS AND EXTEND AS NEEDED TO ACHIEVE NEW ROAD WIDTH USING EQUAL SIZE PIPES.



RECORD DRAWINGS

PREPARED BY:
RES AMERICAS
 RES AMERICA CONSTRUCTION INC.
 11101 W 120TH AVE, SUITE 400 BROOMFIELD, CO 80021
 TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
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5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
 NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
 ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
 ENG: MN DATE: 08-28-14 CHK: RB DATE: 08-28-14
 PM: BT DATE: 08-28-14 PROJ. NO: 23053
 APVD: MN DATE: 08-28-14 SCALE: 1" = 300'

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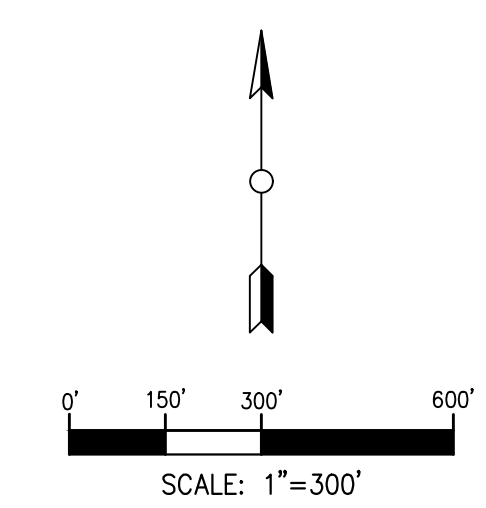
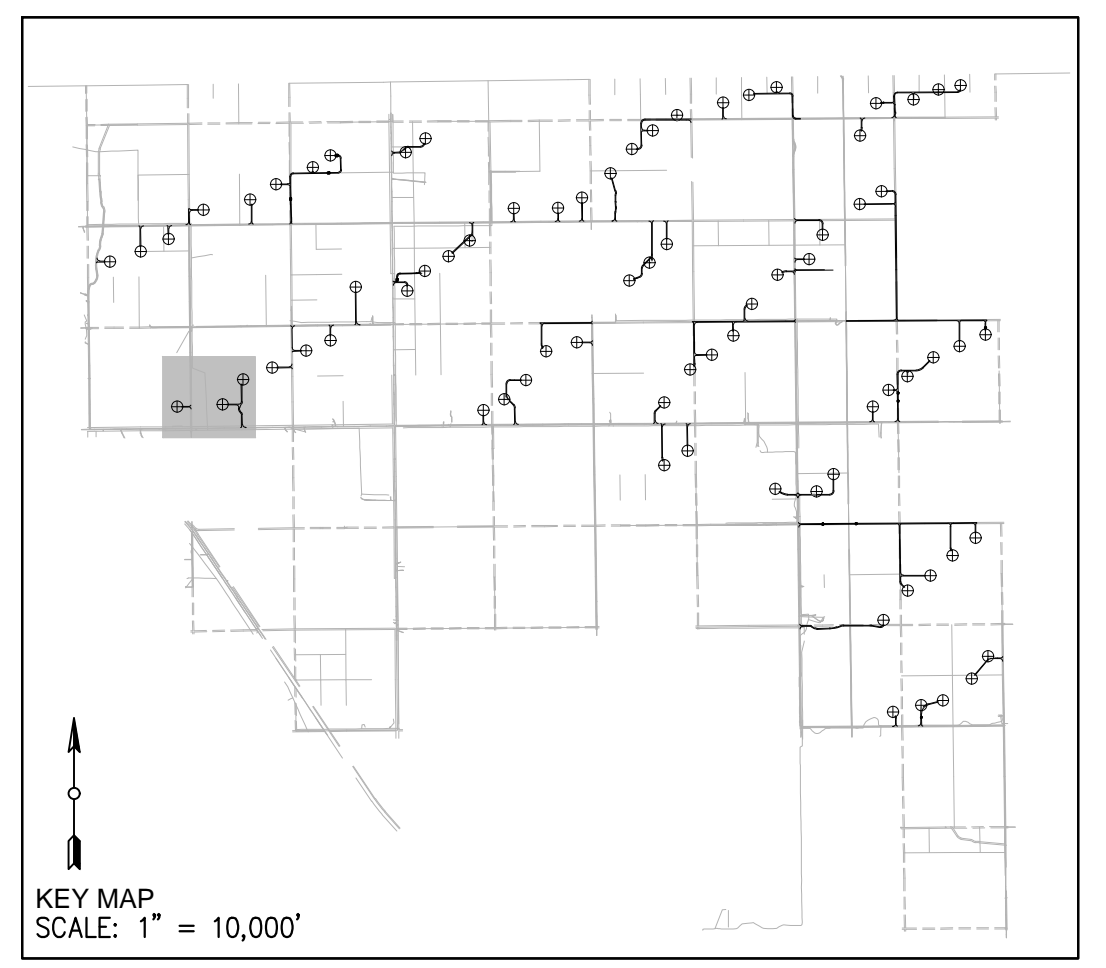
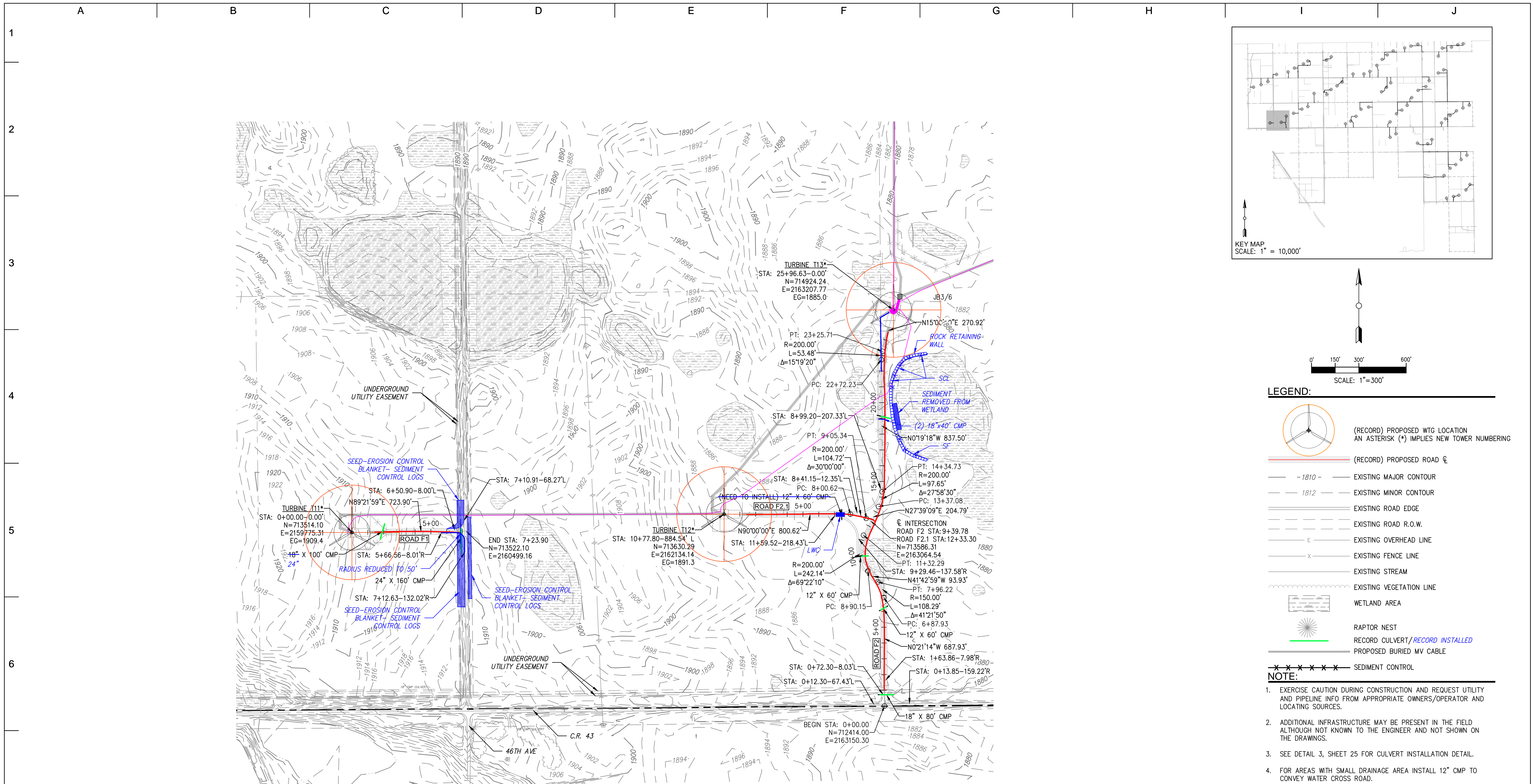
ENERGY SUPPLY
 ENGINEERING & CONSTRUCTION

NH-268214-6

ROADS C1-C2_C2.1-C2.2_E1
 SHEET 6 OF 32
 CIVIL CONSTRUCTION PLANS & DETAILS

REV 6

[U:\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series_3\CONTROLLED DRAWINGS\NH-268214-6.dwg] [kcurry] [Dec 16, 2016 - 11:02am]



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810- EXISTING MAJOR CONTOUR
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 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
 - SEDIMENT CONTROL

- NOTE:**
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 5. VERIFY EXISTING ROAD DRAINAGE CULVERTS AND EXTEND AS NEEDED TO ACHIEVE NEW ROAD WIDTH USING EQUAL SIZE PIPES.

Know what's below.
Call before you dig.

RECORD DRAWINGS

PREPARED BY:
RES AMERICAS
RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE, SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG	REFERENCE DRAWINGS			
														DWG NO.	MANUFACTURER	DESCRIPTION	
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NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

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ENG: MN	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
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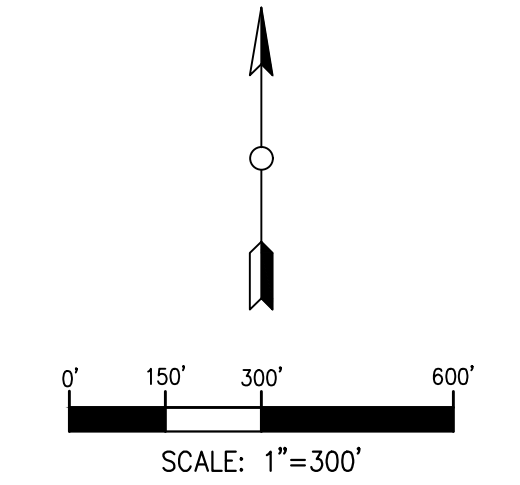
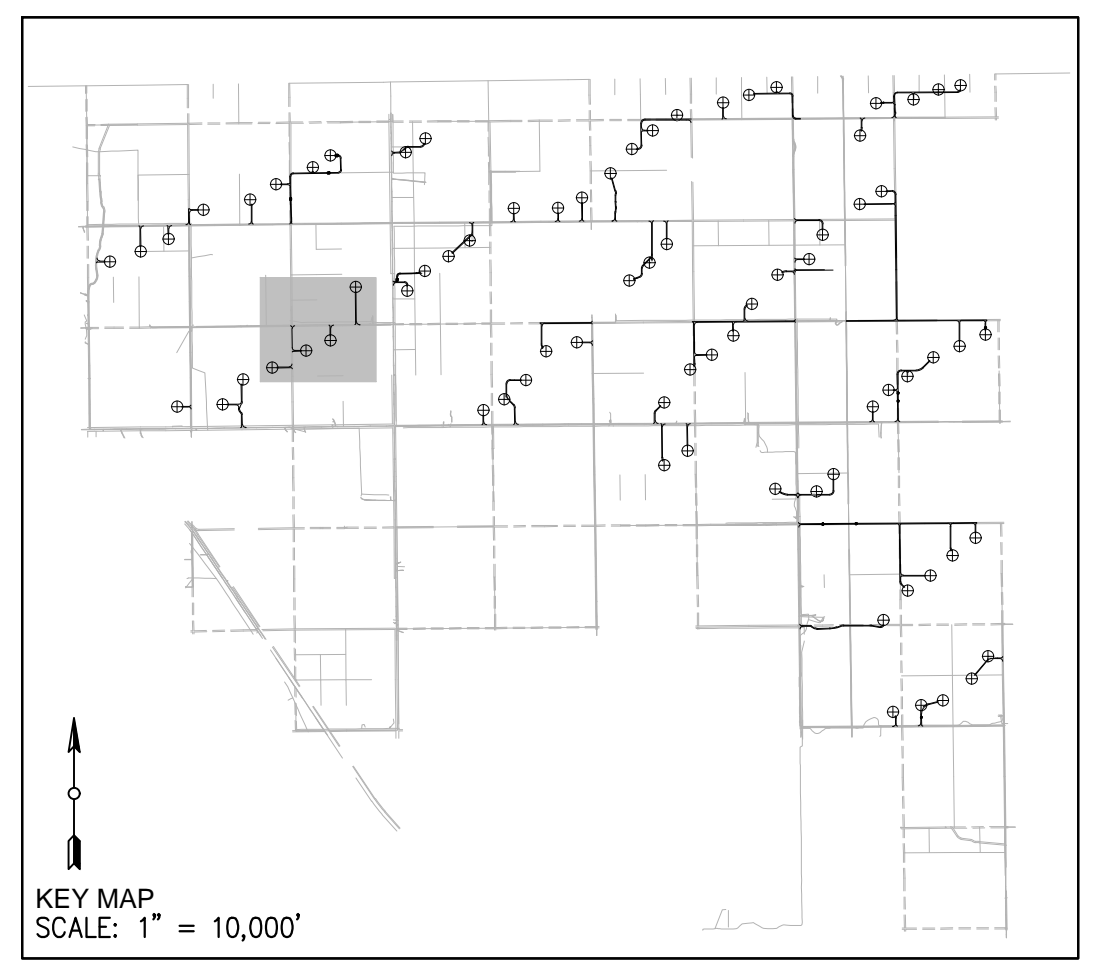
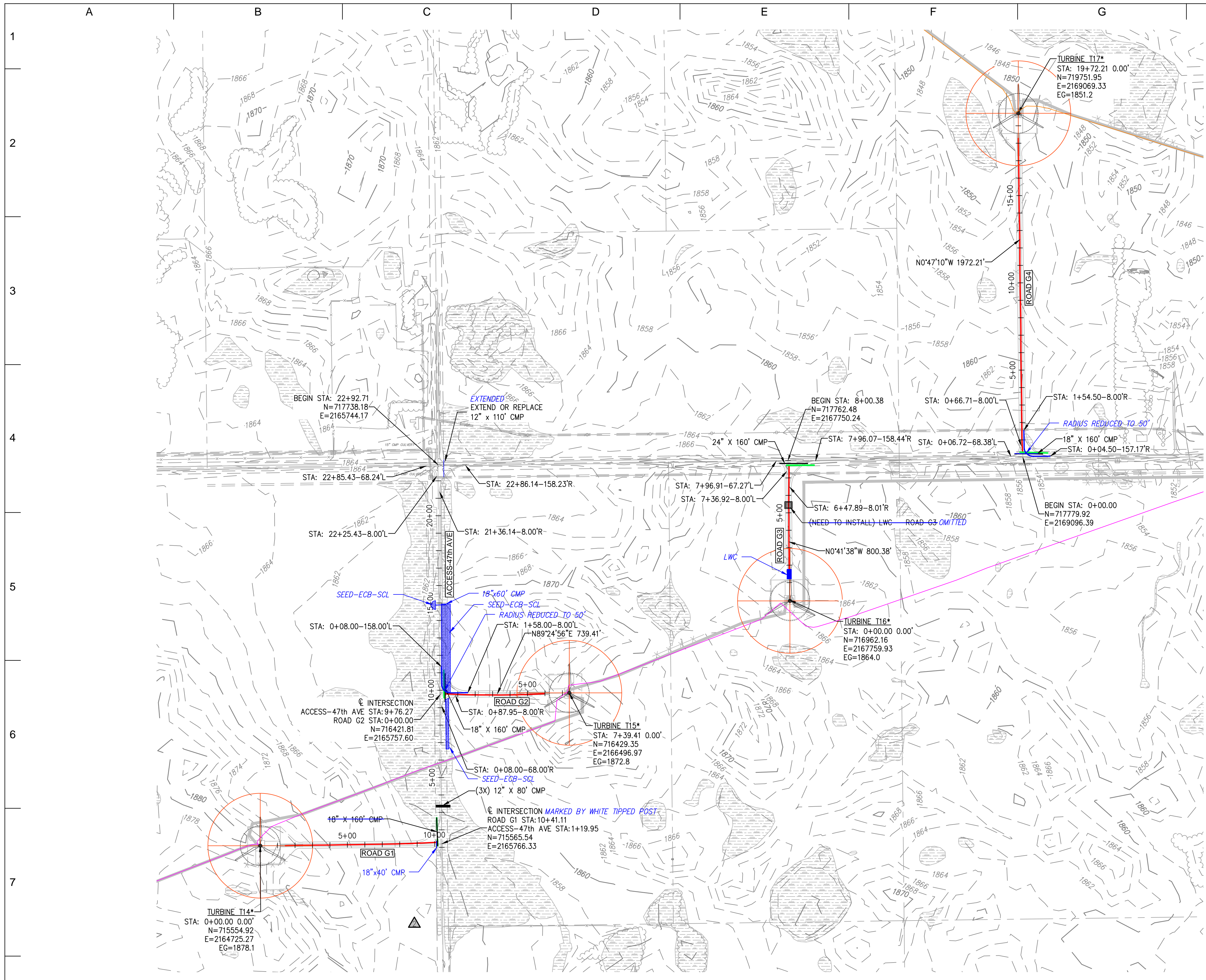
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

NH-268214-7

REV
6

[U: \\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-7.dwg] [kcurry] [Dec 16, 2016 - 11:05am]

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-8.dwg] [curry] [Dec 16, 2016 - 11:08am]



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD CL
 - 1810- EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
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 - EXISTING OVERHEAD LINE
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 - FOR AREAS WITH SMALL DRAINAGE AREA INSTALL 12" CMP TO CONVEY WATER CROSS ROAD.
 - VERIFY EXISTING ROAD DRAINAGE CULVERTS AND EXTEND AS NEEDED TO ACHIEVE NEW ROAD WIDTH USING EQUAL SIZE PIPES.



RECORD DRAWINGS

PREPARED BY:
RES AMERICAS
RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE., SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN	
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN	
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN	
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS	DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
ENG: MN	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
PM: BT	DATE: 08-28-14	PROJ. NO: 23053	
APVD: MN	DATE: 08-28-14	SCALE: 1" = 300'	

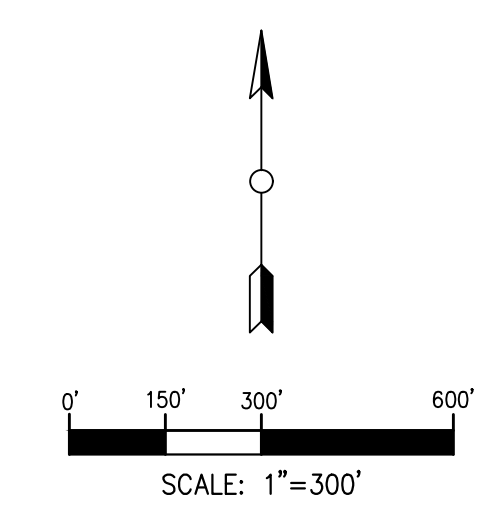
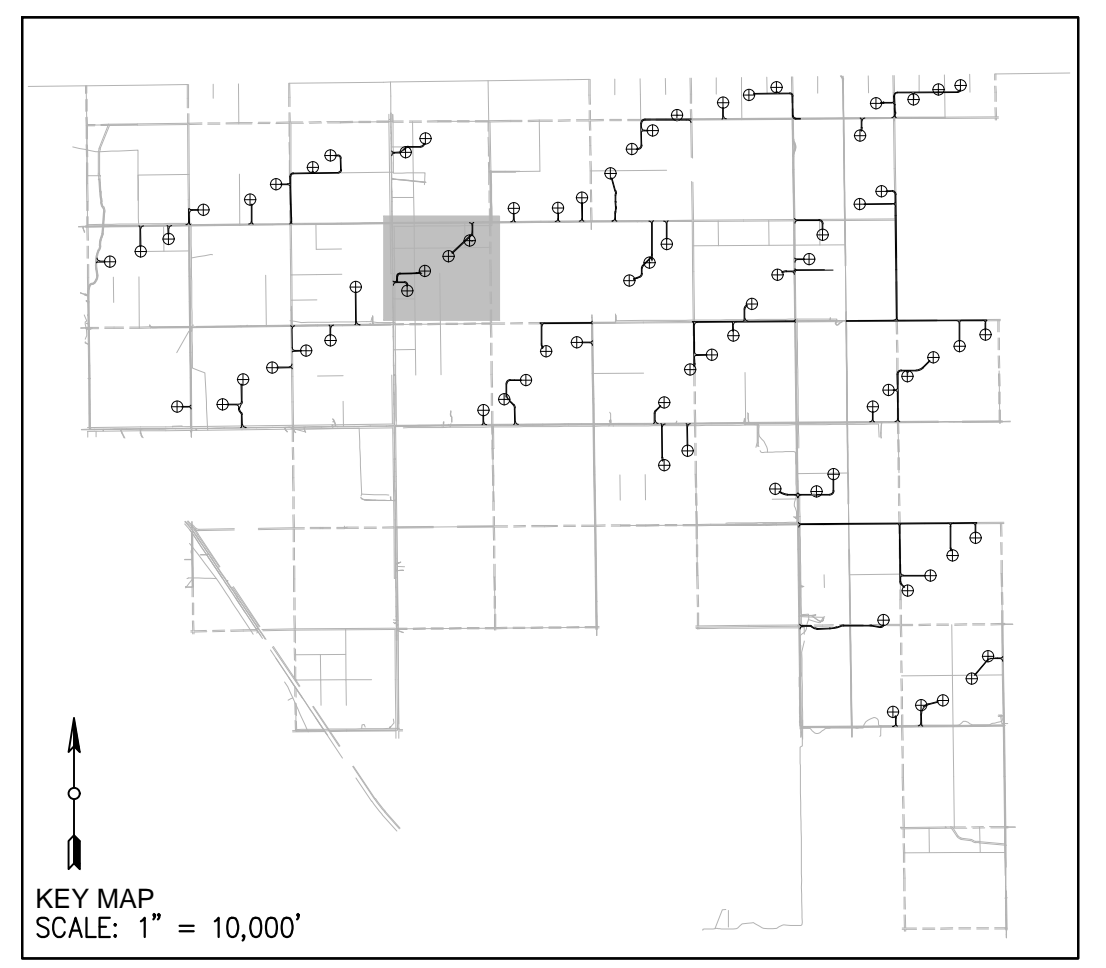
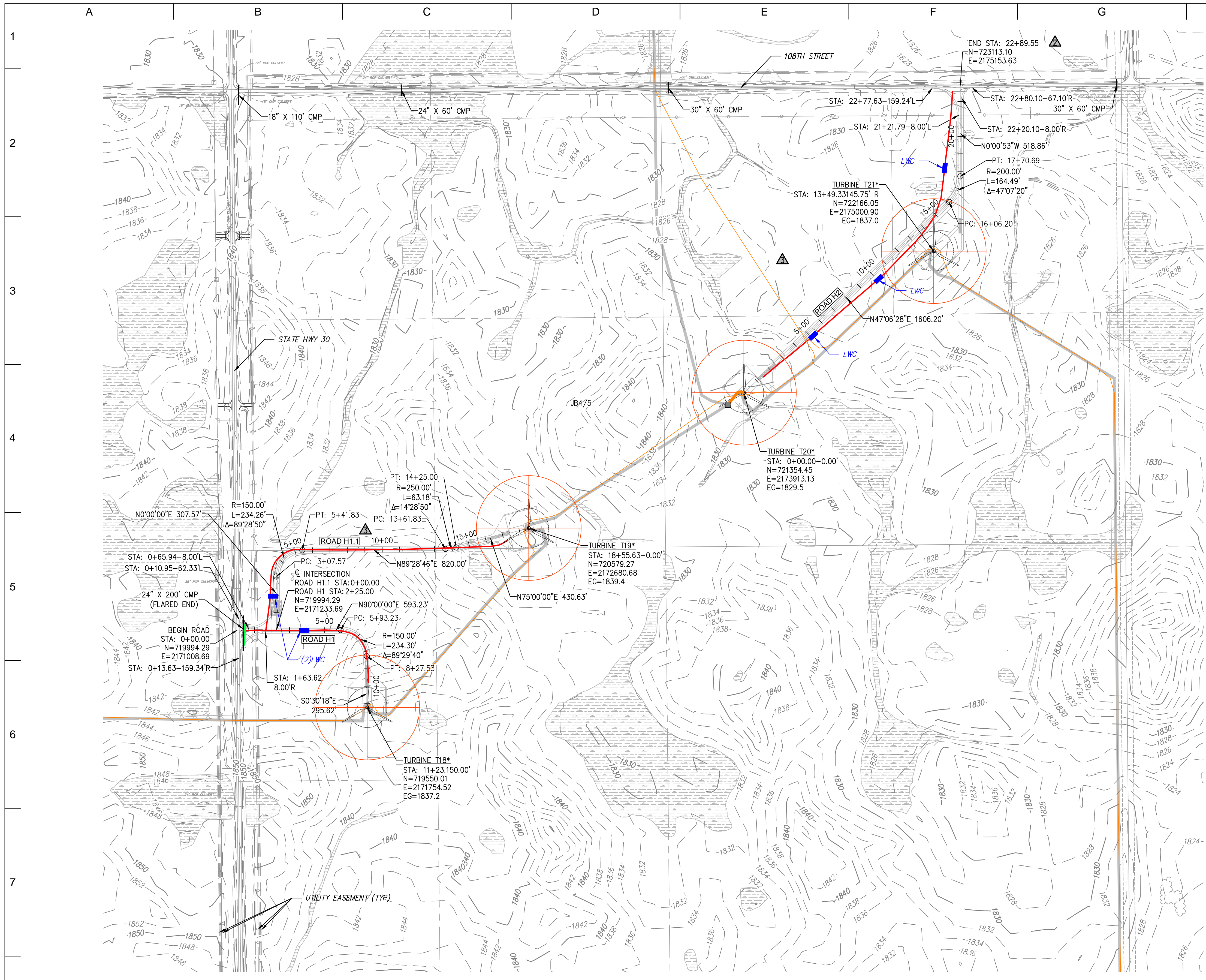
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**8 - ROADS G2-G4
SHEET 8 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS**

**ENERGY SUPPLY
ENGINEERING & CONSTRUCTION**

NH-268214-8

REV: 6



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810- EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
 - EXISTING OVERHEAD LINE
 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
 - SEDIMENT CONTROL

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811
Know what's below.
Call before you dig.

RECORD DRAWINGS

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RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE., SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN							
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5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN							
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN							

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
ENG: MN DATE: 08-28-14 CHK: RB DATE: 08-28-14
PM: BT DATE: 08-28-14 PROJ. NO: 23053
APVD: MN DATE: 08-28-14 SCALE: 1" = 300'

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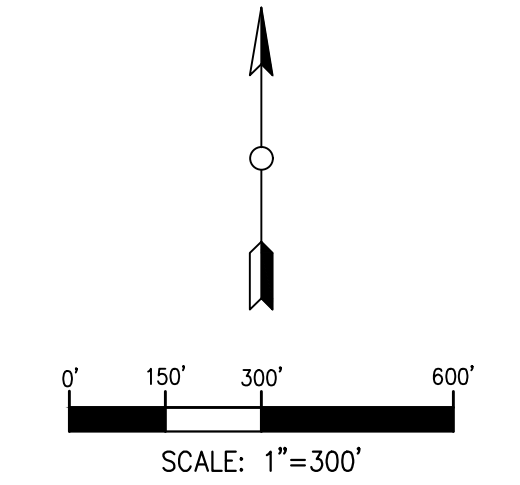
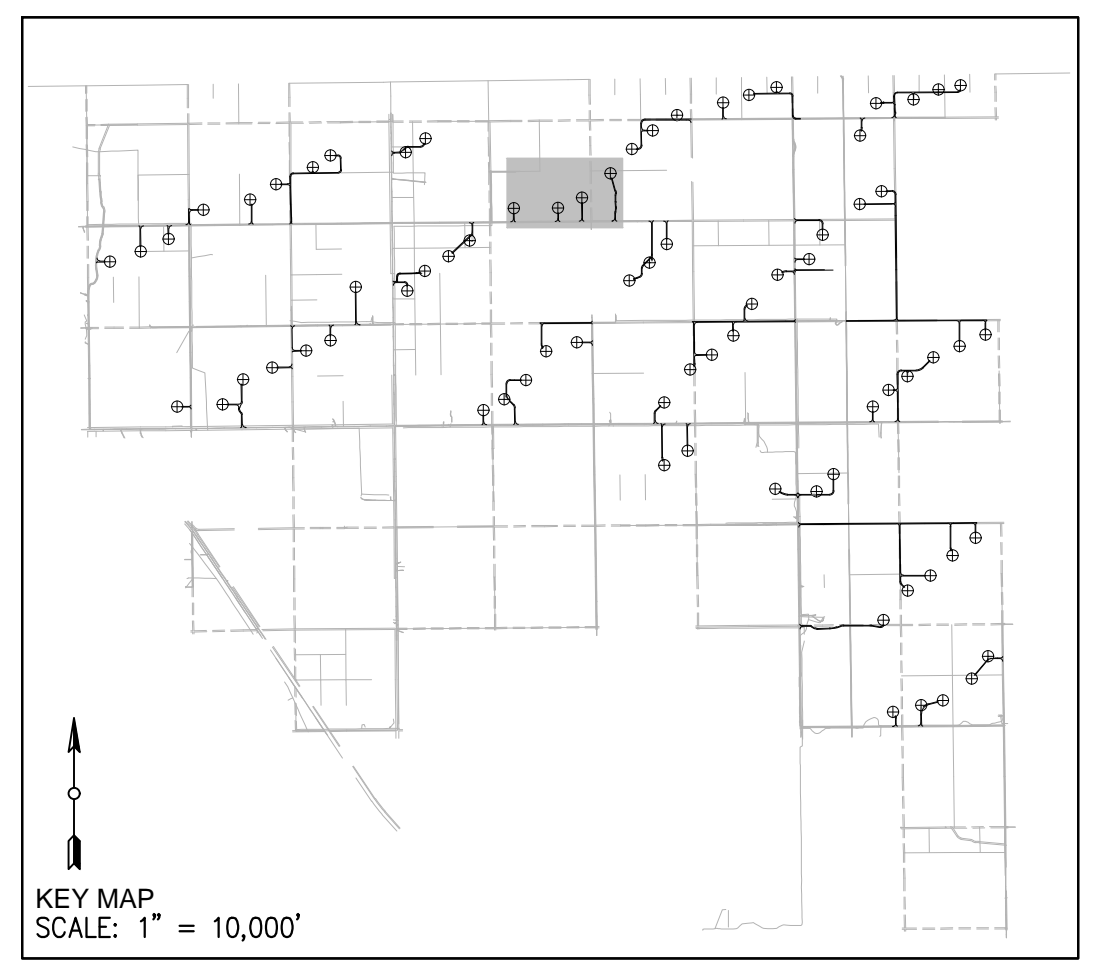
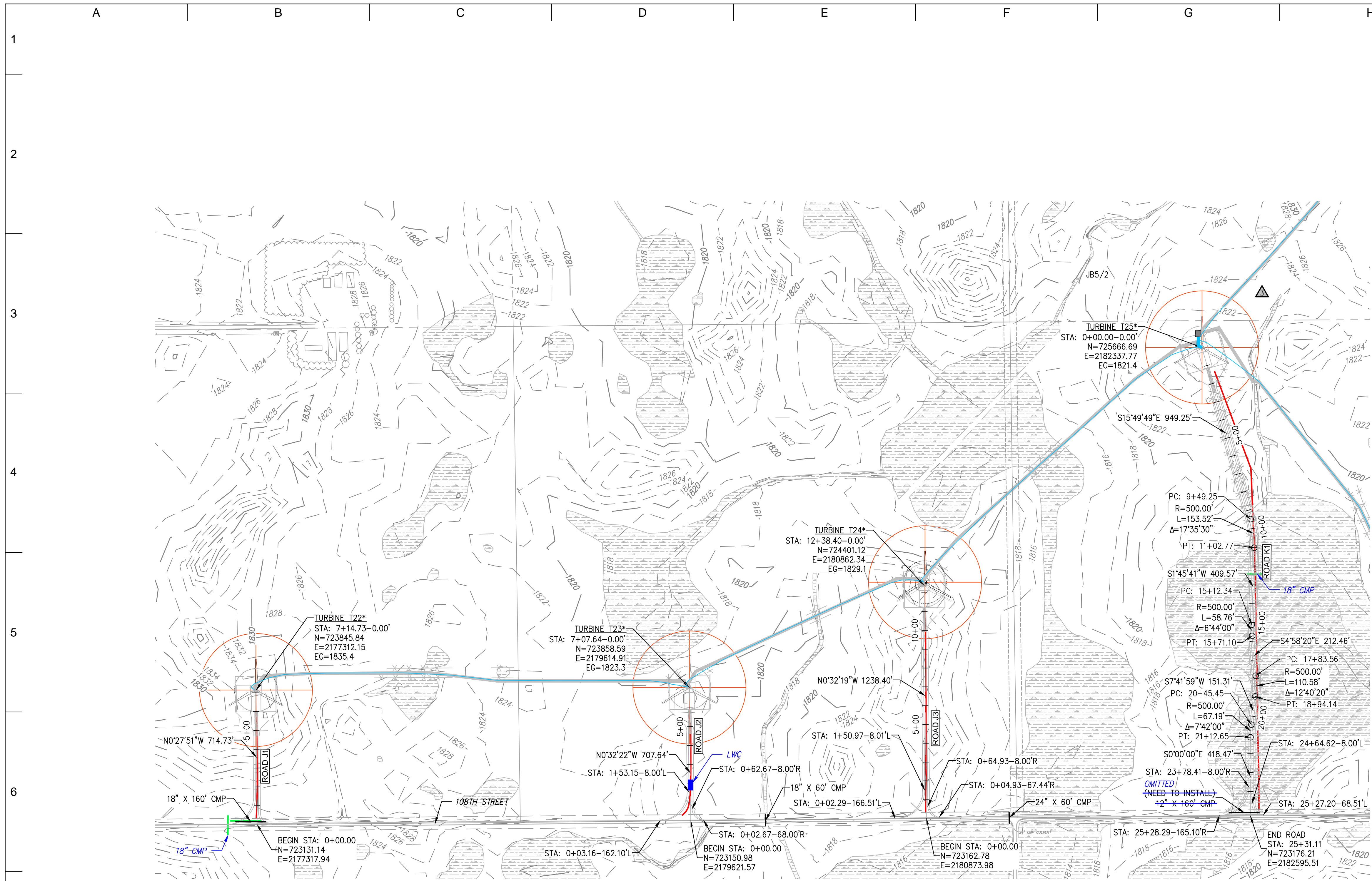
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

NH-268214-9

ROADS H1-H2, H1.1
SHEET 9 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

REV
6

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-9.dwg] [kcurry] [Dec 16, 2016 - 11:11am]



- LEGEND:**
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AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810 - EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
 - EXISTING OVERHEAD LINE
 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
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6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REVISION	ZONE	DATE	BY	CHK	ENG	REFERENCE DRAWINGS
DWG NO.	MANUFACTURER	DESCRIPTION				

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

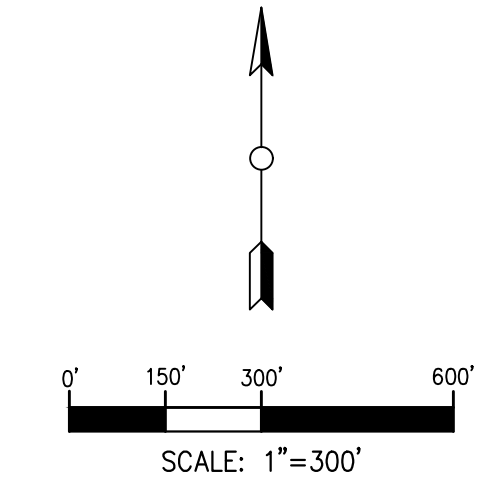
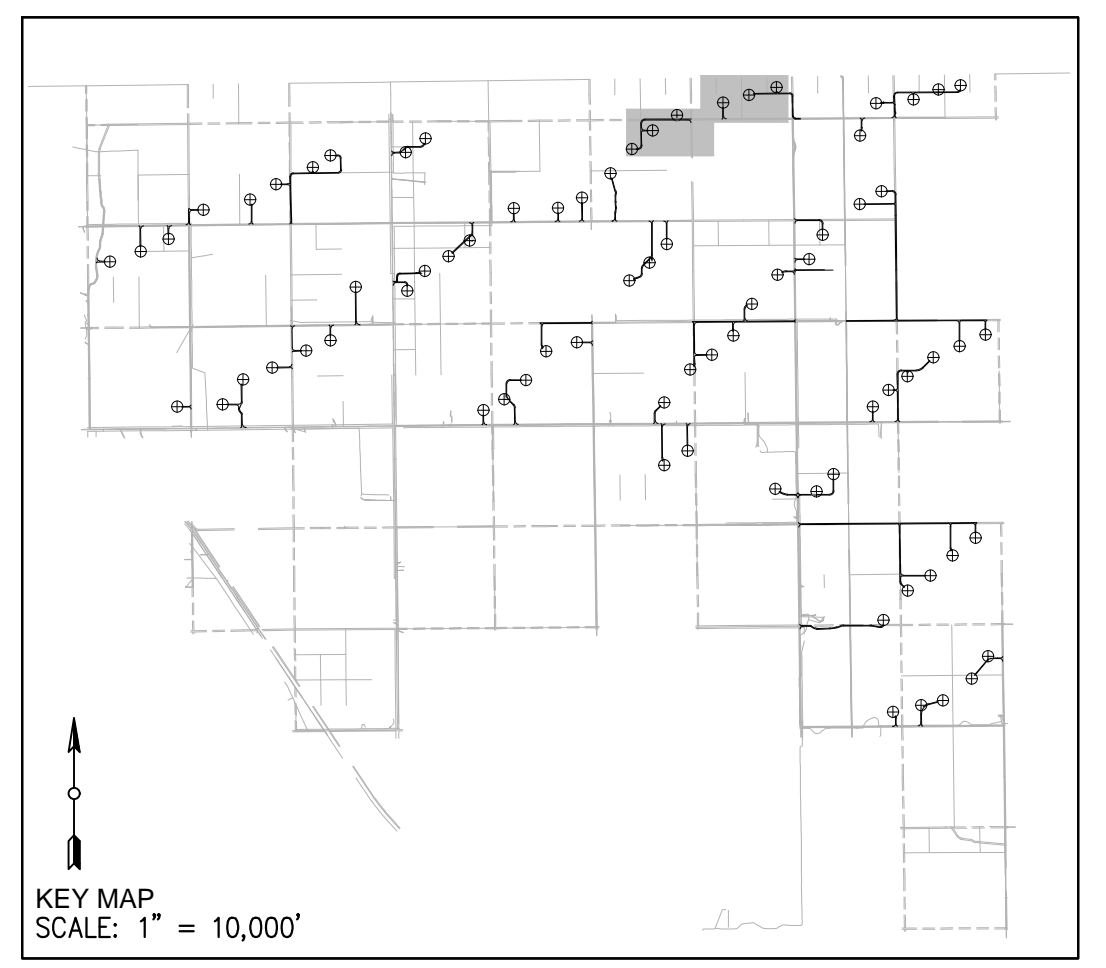
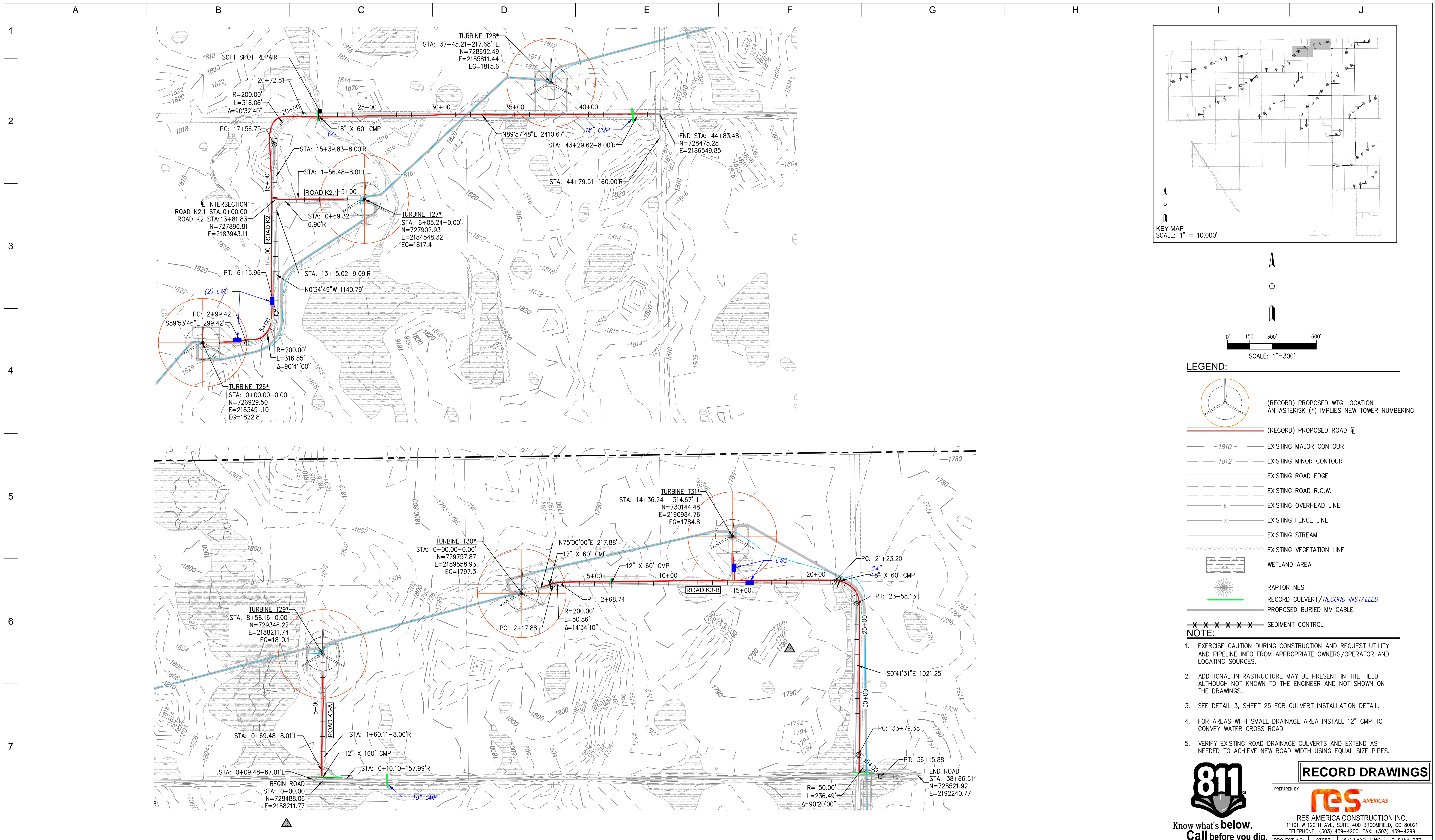
PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NH-268214-10

ROADS J1-J3, K1
SHEET 10 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

REV 6

[U:\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series_3\CONTROLLED DRAWINGS\NH-268214-10.dwg] [curry] [Dec 16, 2016 - 11:14am]



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 - 1810- EXISTING MAJOR CONTOUR
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REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS	DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
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PM: BT DATE: 08-28-14 PROJ. NO: 23053
APVD: MN DATE: 08-28-14 SCALE: 1" = 300'

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

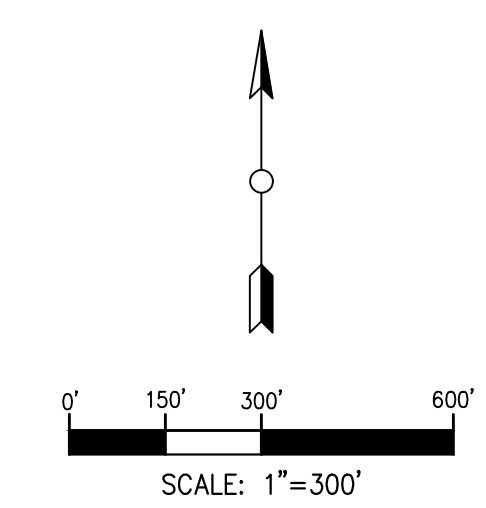
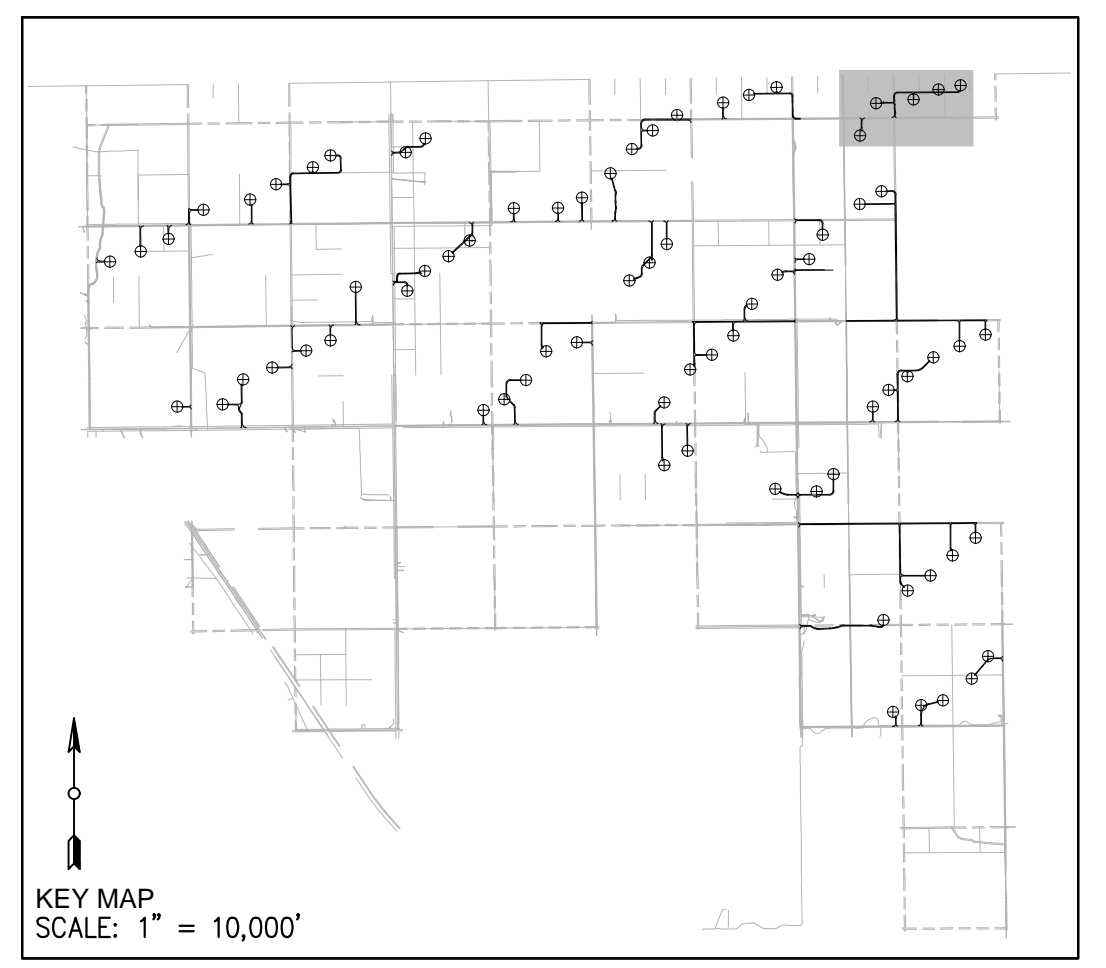
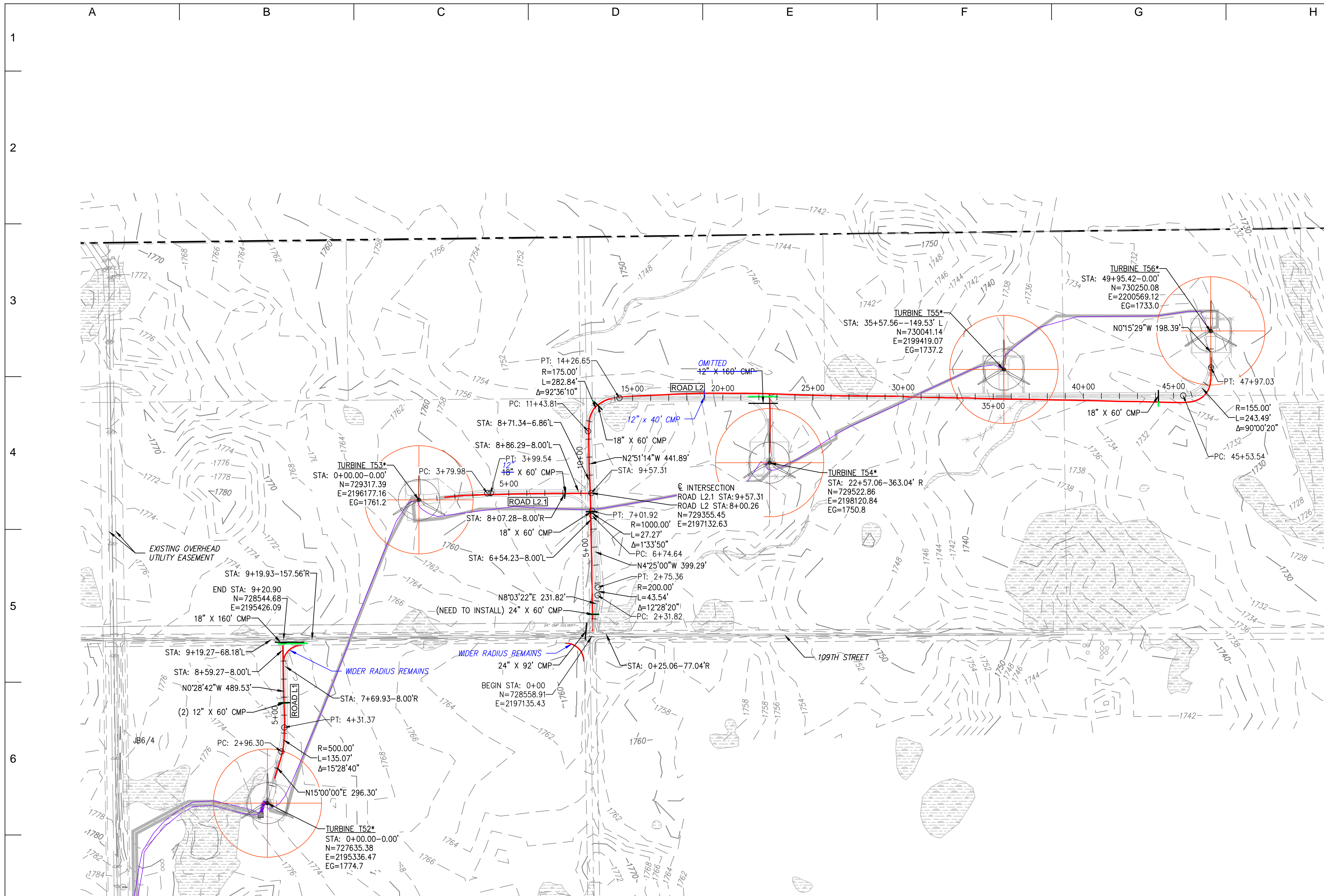
PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

ROADS K2-K3
SHEET 11 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-11

REV 6

[U:\WIND_FARMS\USA\North Dakota - Border Winds 2.3053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-11.dwg] [curry] [Dec 16, 2016 - 11:17am]



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PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
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REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS	DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy

NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
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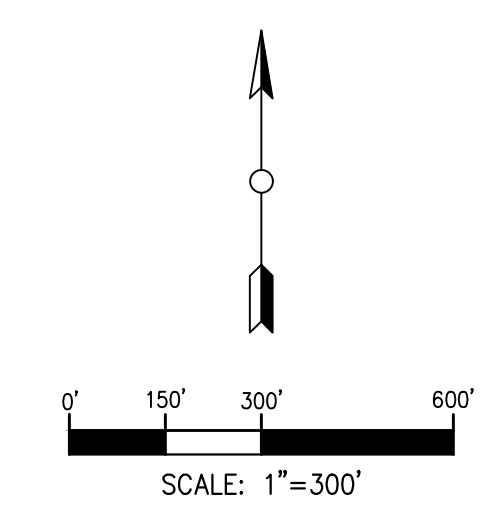
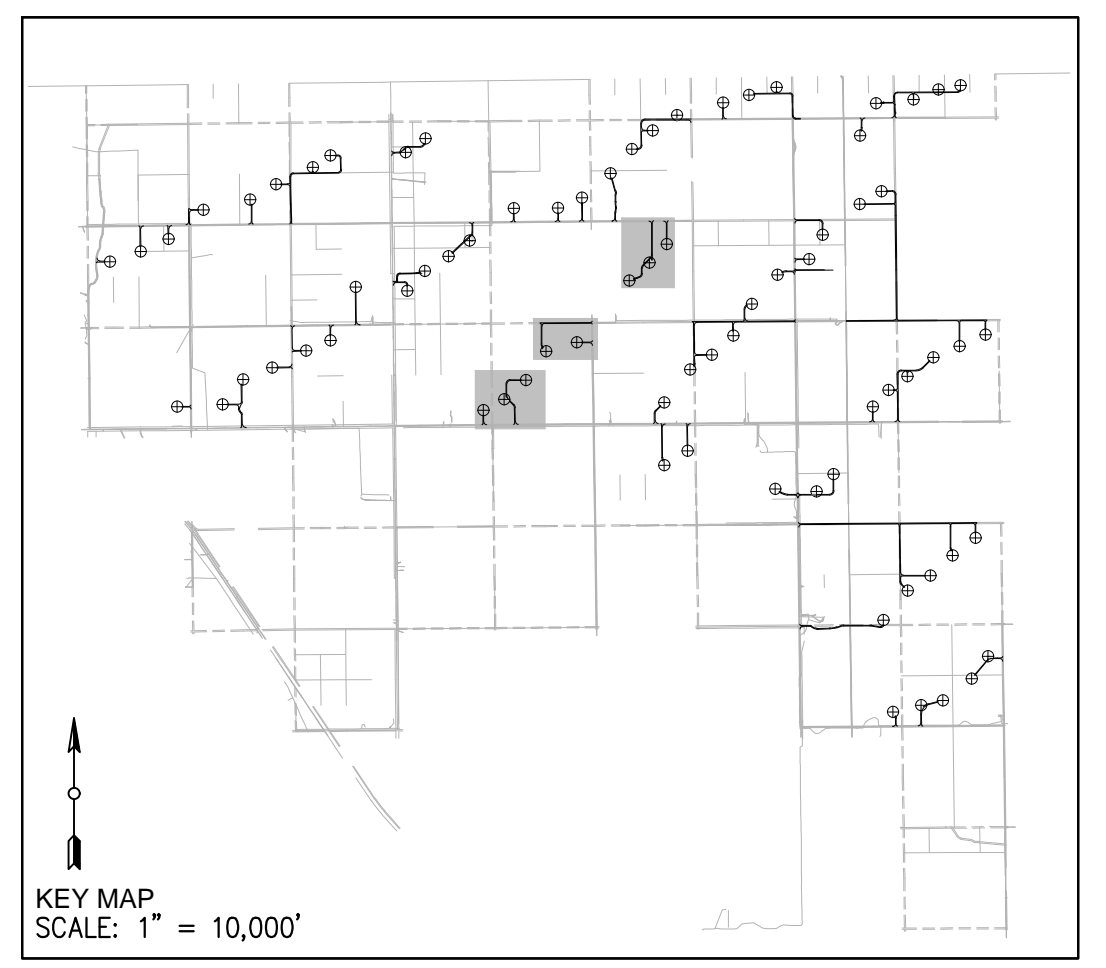
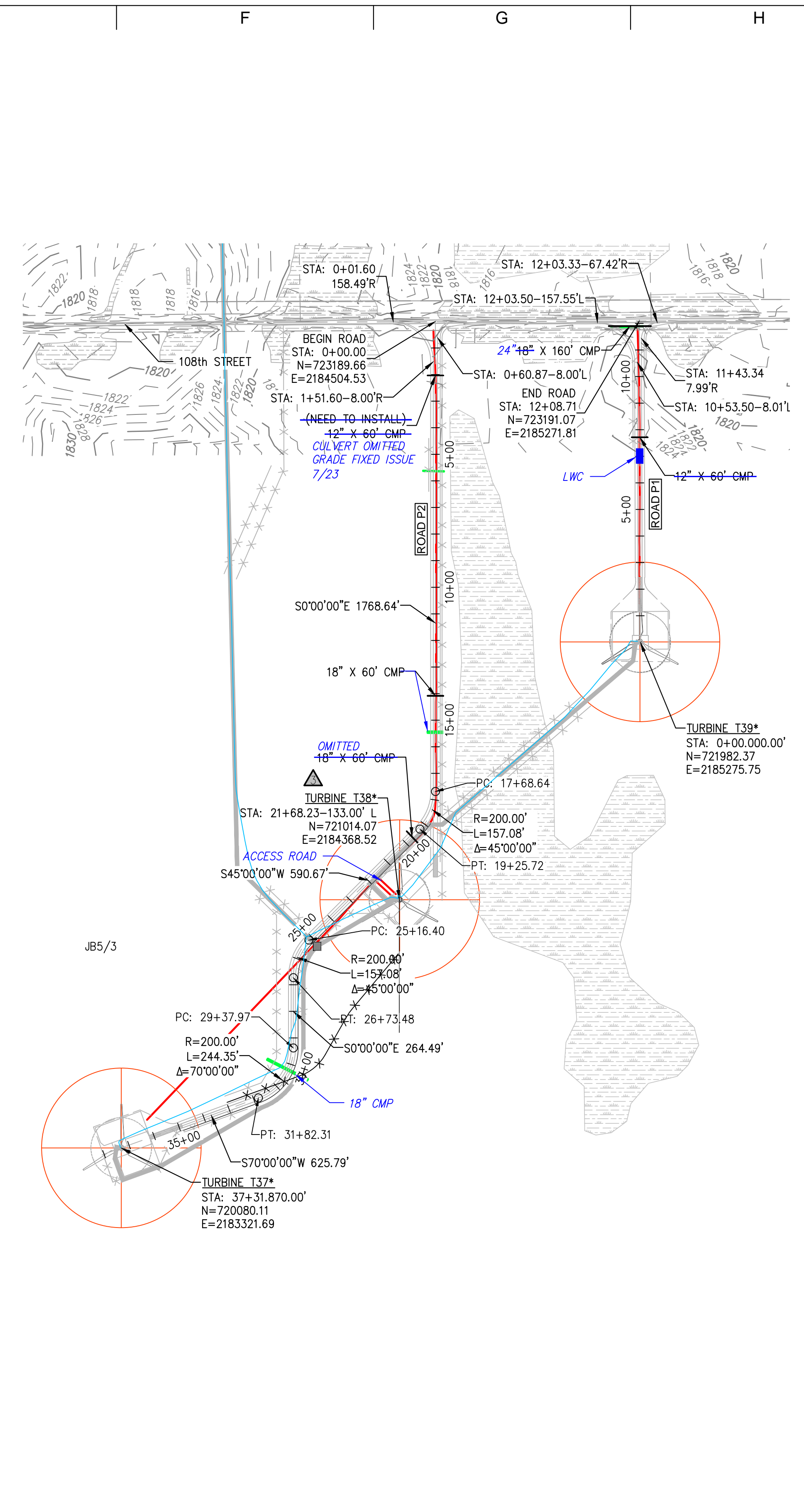
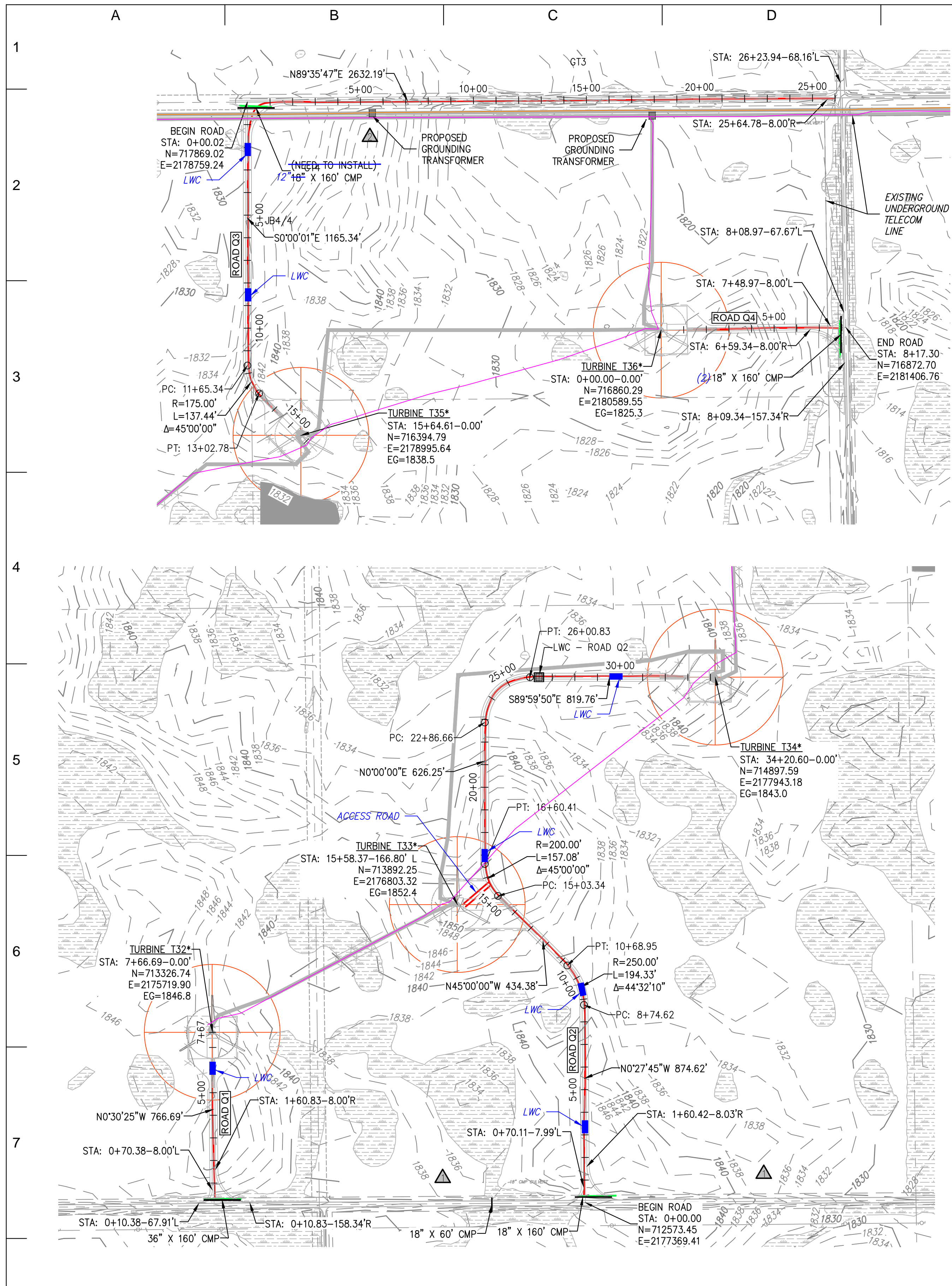
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

NH-268214-12

ROADS L1-L2 L2.1
SHEET 12 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

REV
6

[curry] [dec 16, 2016 - 11:20am] [U:\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES_3\CONTROLLED_DRAWINGS\NH-268214-12.dwg]



- LEGEND:**
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REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS	DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

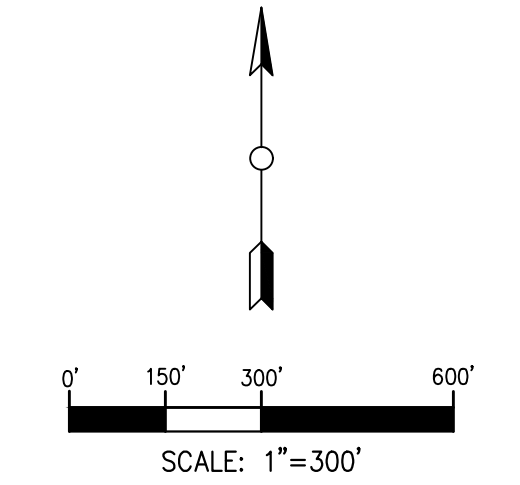
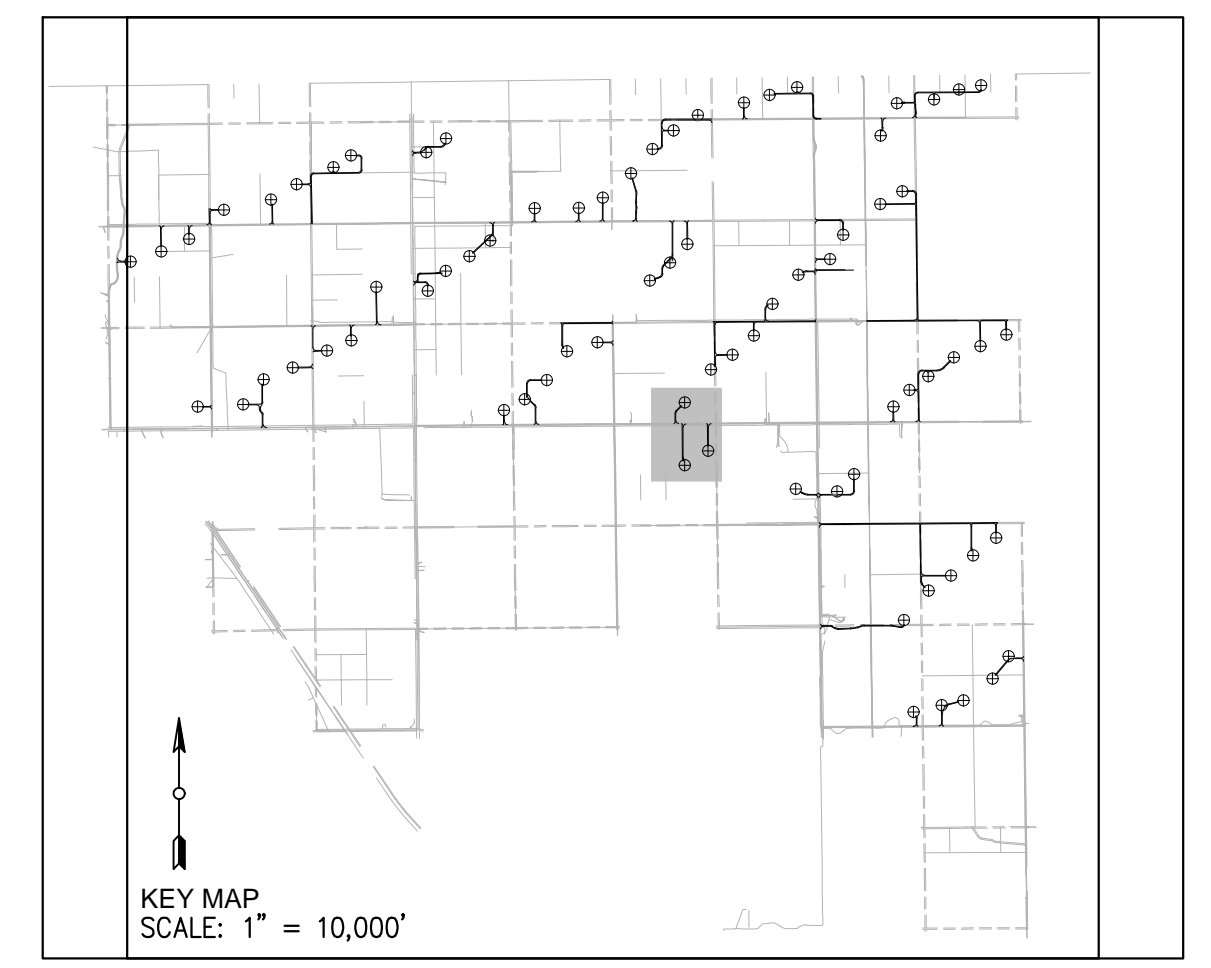
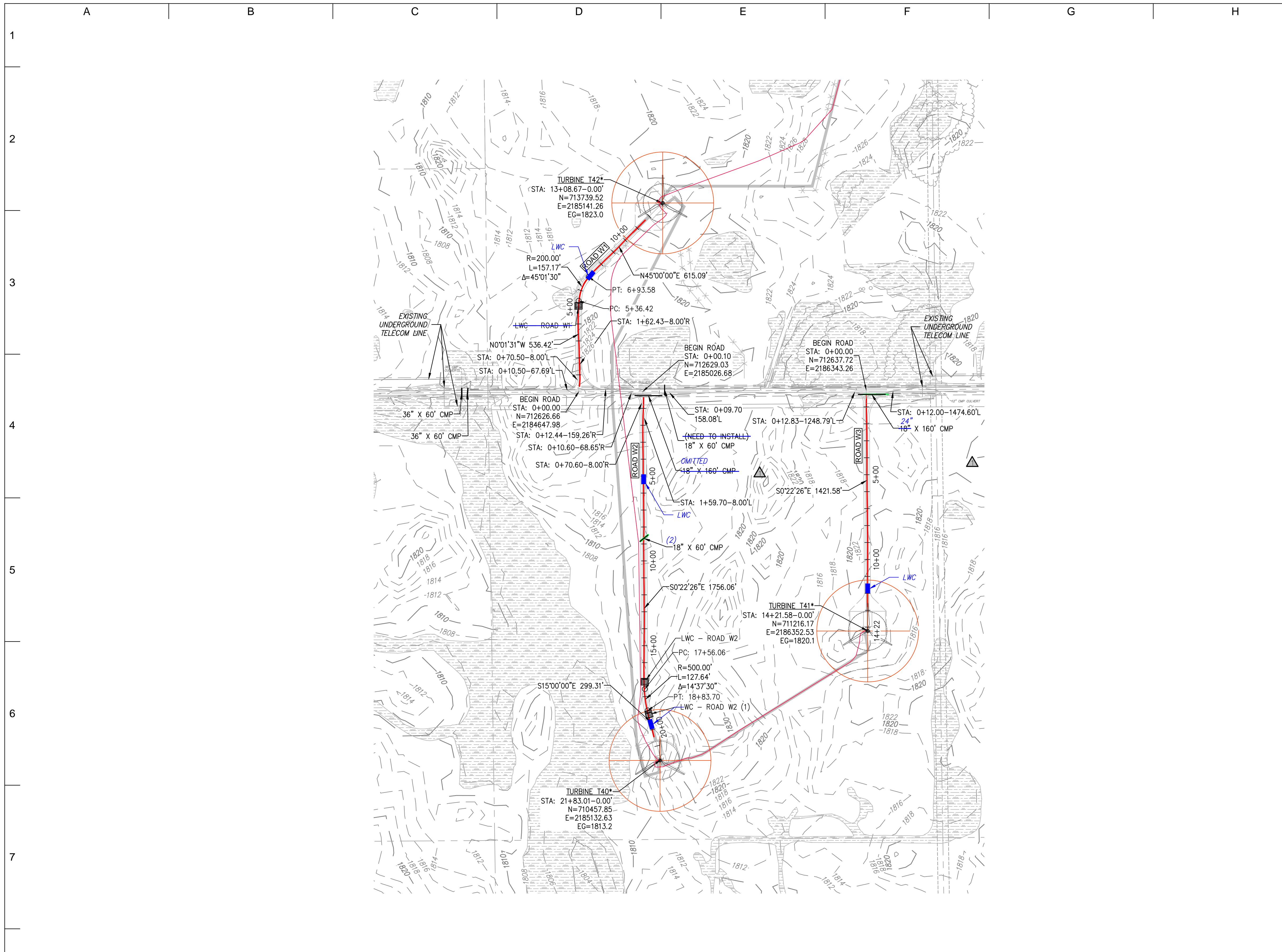
PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

ROADS Q1-Q4_P1 & P2
SHEET 13 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-13

REV 6

[U:\WIND_FARM\USA\North Dakota - Border Winds 23053\DWG\Internal\Series_3\CONTROLLED DRAWINGS\NH-268214-13.dwg] [kcurry] [Dec 16, 2016 - 11:23am]



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AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
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RECORD DRAWINGS

PREPARED BY:
RES AMERICAS
RES AMERICA CONSTRUCTION INC.
11101 W 120TH AVE., SUITE 400 BROOMFIELD, CO 80021
TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN	
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN	
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN	
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN	
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN	
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN	
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN	

REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
ENG: MN	DATE: 08-28-14	CHK: RB	DATE: 08-28-14
PM: BT	DATE: 08-28-14	PROJ. NO: 23053	
APVD: MN	DATE: 08-28-14	SCALE: 1" = 300'	

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

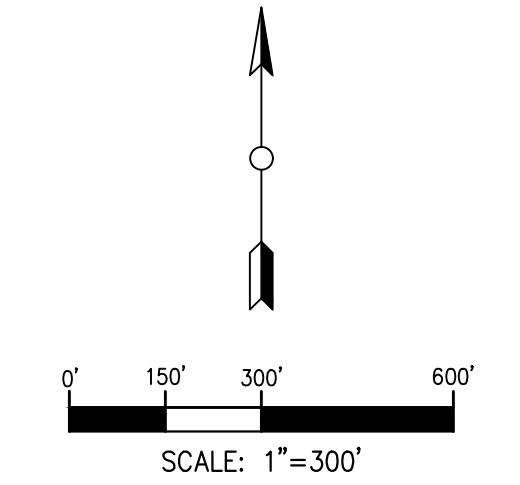
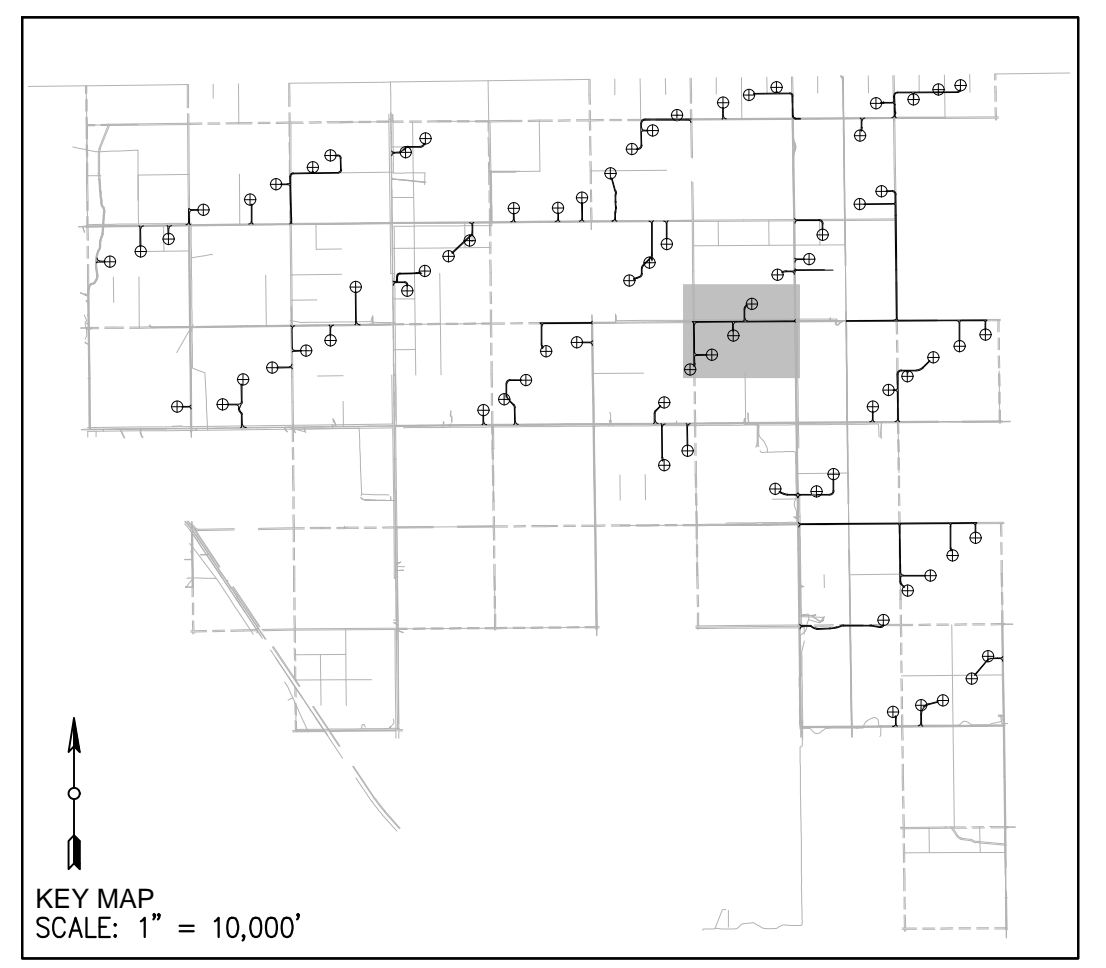
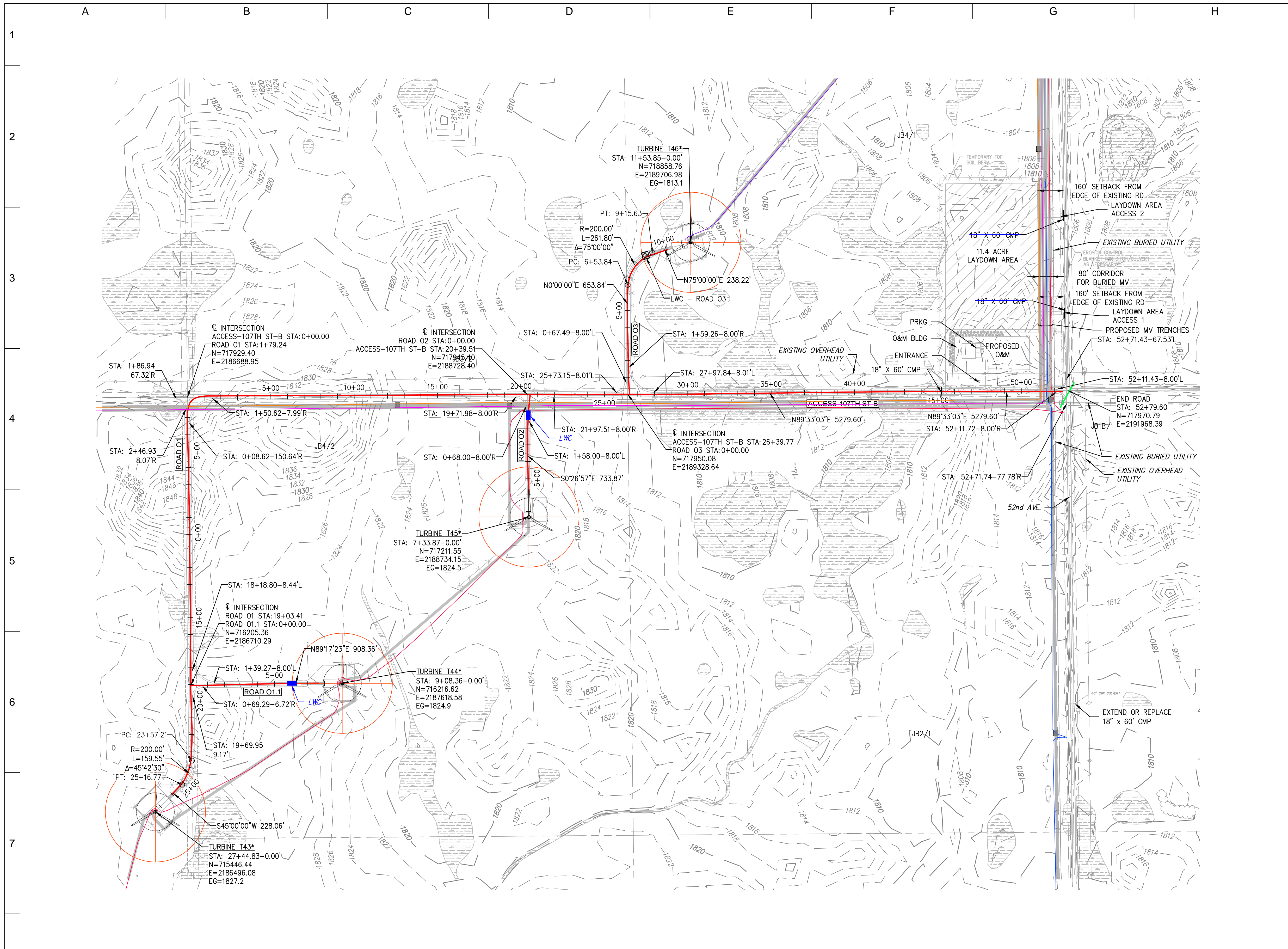
NH-268214-14

PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

ROADS W1-W3
SHEET 14 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

REV
6

[curry] [dec 16, 2016 - 11:26am] [U: \\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES_3\CONTROLLED_DRAWINGS\NH-268214-14.dwg]



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD CL
 - 1810 - EXISTING MAJOR CONTOUR
 - 1812 EXISTING MINOR CONTOUR
 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
 - EXISTING OVERHEAD LINE
 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
 - SEDIMENT CONTROL

- NOTE:**
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REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS	DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

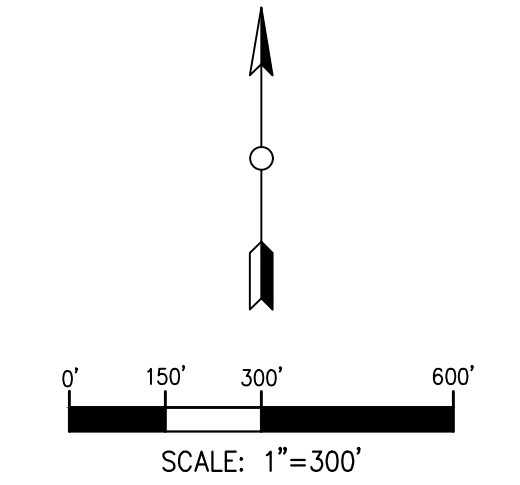
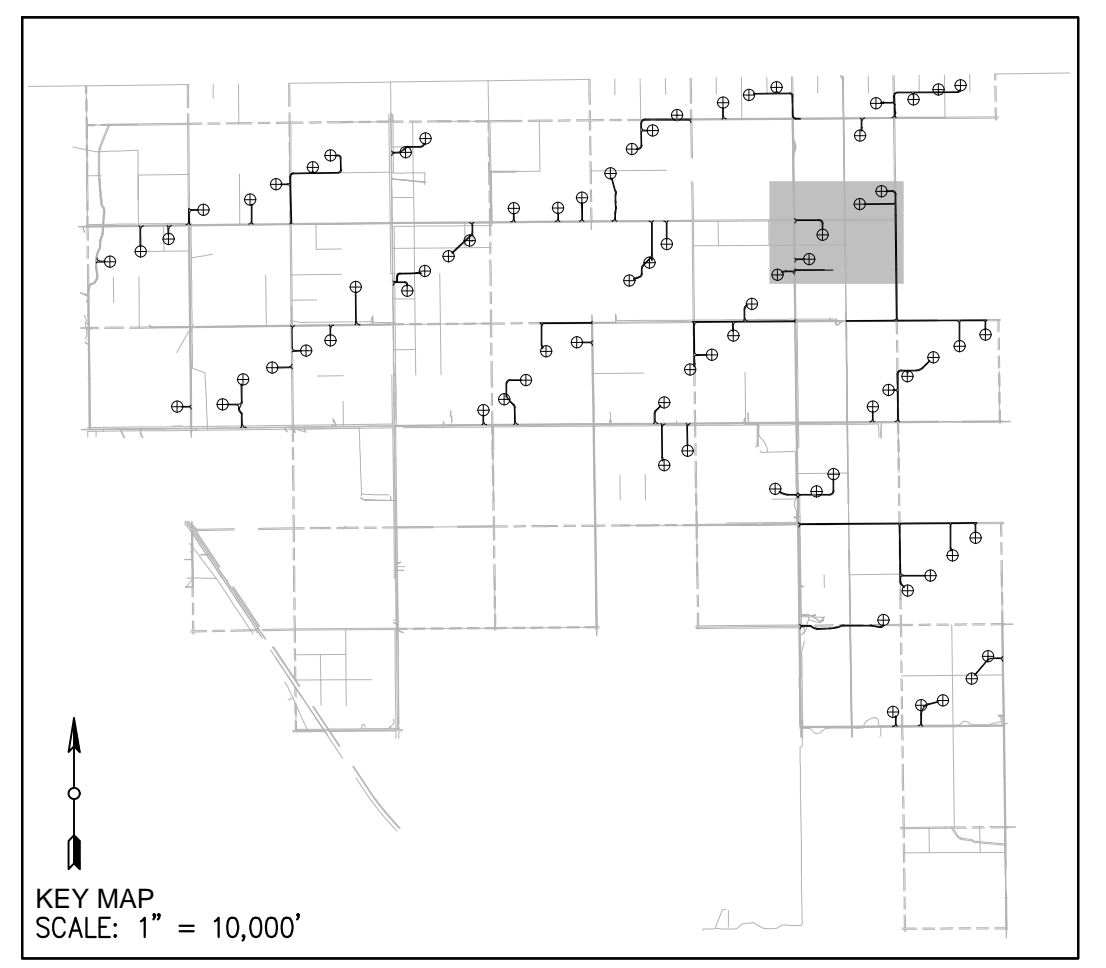
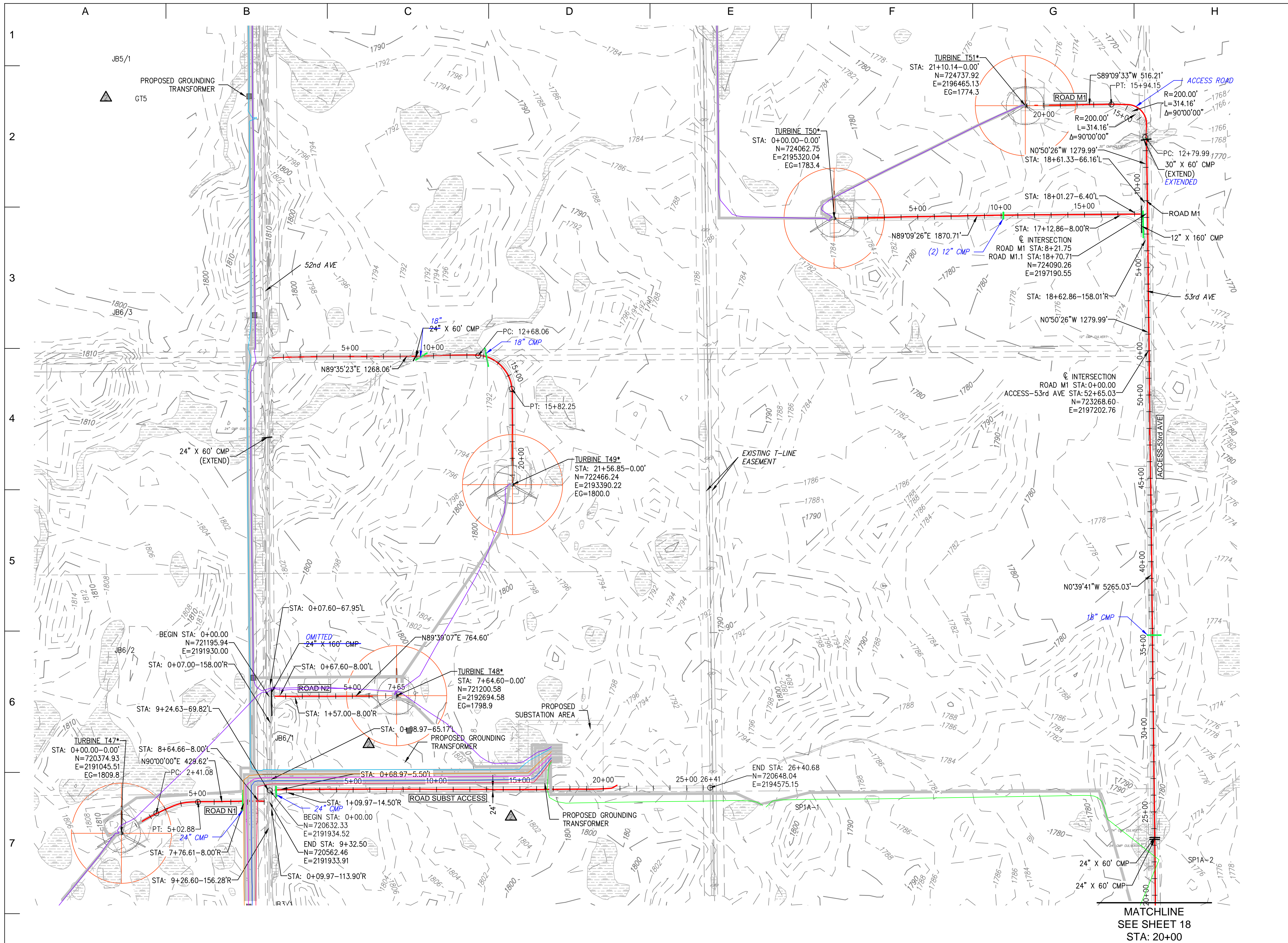
PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

ROADS O1-03, O1.1
SHEET 15 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-15

REV 6

[U: \\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-15.dwg] [curry] [Dec 16, 2016 - 11:29am]



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD C
 - 1810- EXISTING MAJOR CONTOUR
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 - EXISTING ROAD EDGE
 - EXISTING ROAD R.O.W.
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 - EXISTING FENCE LINE
 - EXISTING STREAM
 - EXISTING VEGETATION LINE
 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
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PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
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REVISION	ZONE	DATE	BY	CHK	ENG	NO

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy

NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
ENG: MN DATE: 08-28-14 CHK: RB DATE: 08-28-14
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APVD: MN DATE: 08-28-14 SCALE: 1" = 300'

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

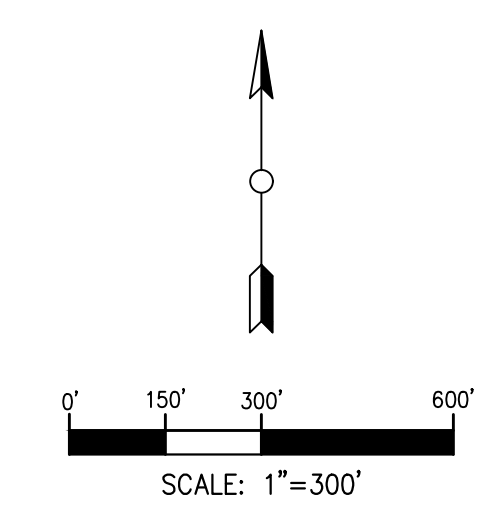
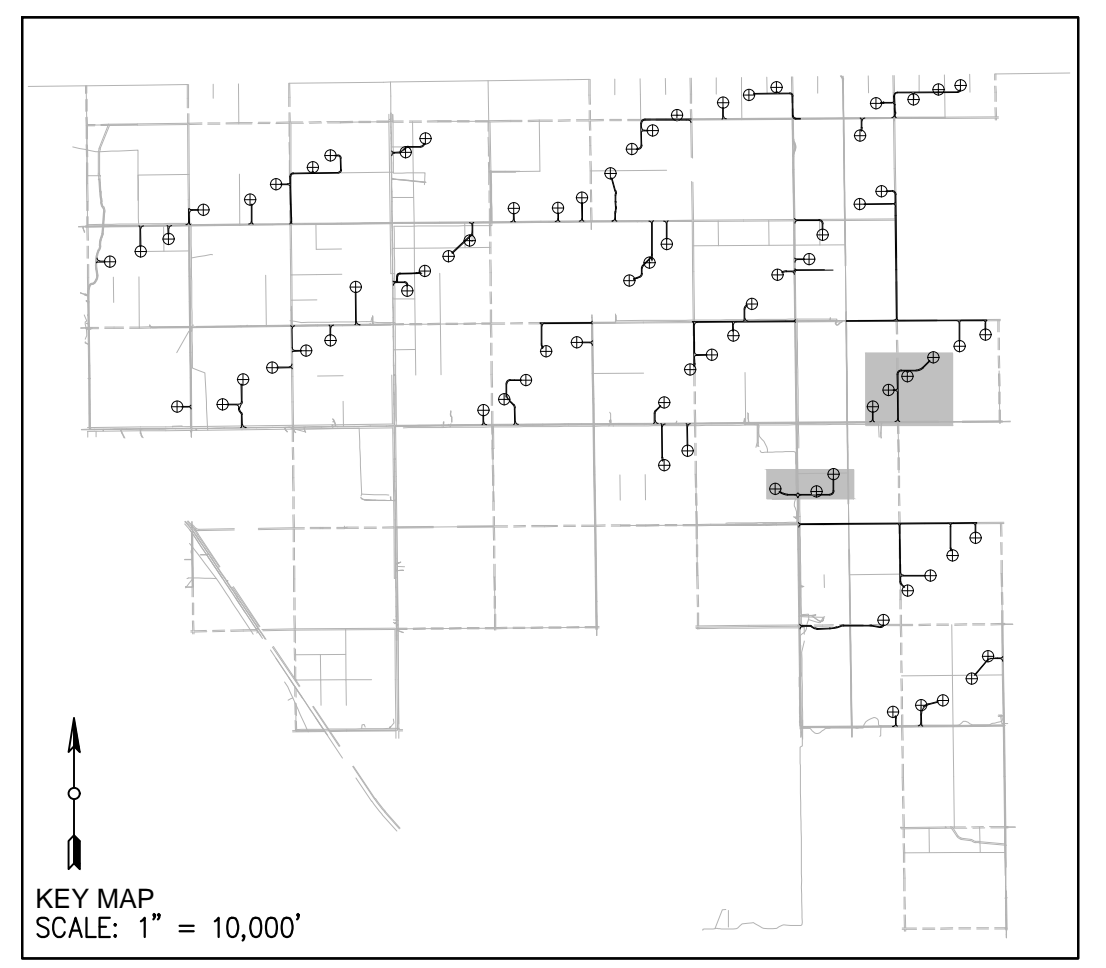
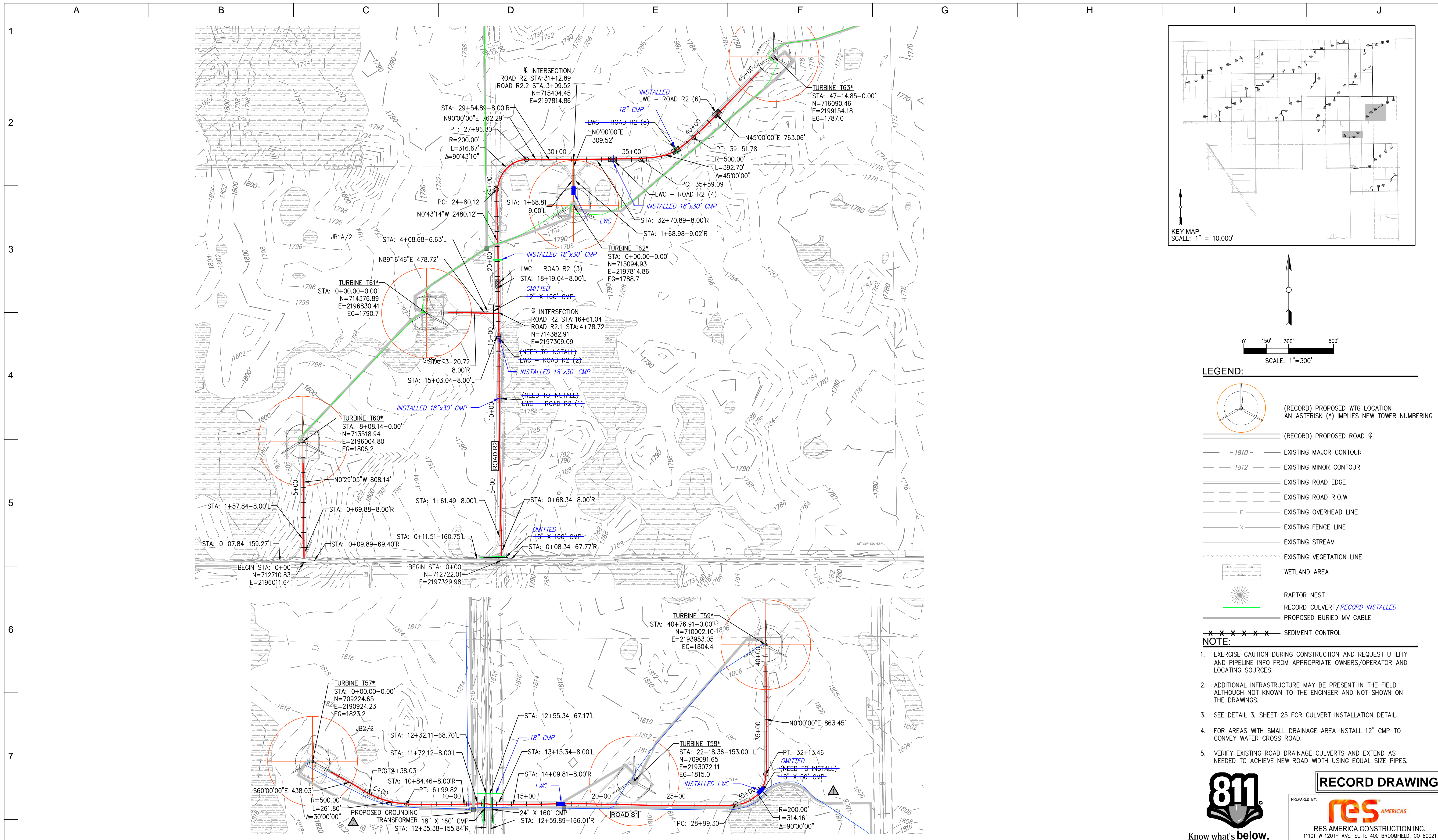
ROADS N1-N3, M1, M1.1
SHEET 16 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-16

REV 6

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES 3\CONTROLLED DRAWINGS\NH-268214-16.dwg] [curry] [Dec 16, 2016 - 11:32am]

[U:\WIND FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\Series 3\CONTROLLED DRAWINGS\NH-268214-17.dwg] [curry] [Dec 16, 2016 - 11:35am]



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 - 1810- EXISTING MAJOR CONTOUR
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 - E EXISTING OVERHEAD LINE
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 - EXISTING STREAM
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 - WETLAND AREA
 - RAPTOR NEST
 - RECORD CULVERT/RECORD INSTALLED
 - PROPOSED BURIED MV CABLE
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Call before you dig.

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REVISION	ZONE	DATE	BY	CHK	ENG	REFERENCE DRAWINGS
DWG NO.	MANUFACTURER	DESCRIPTION				

Xcel Energy
NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
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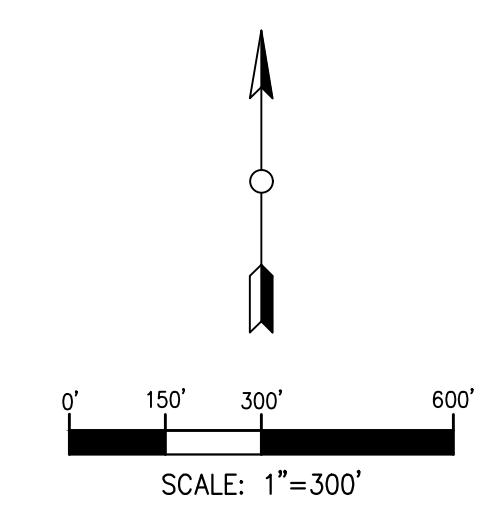
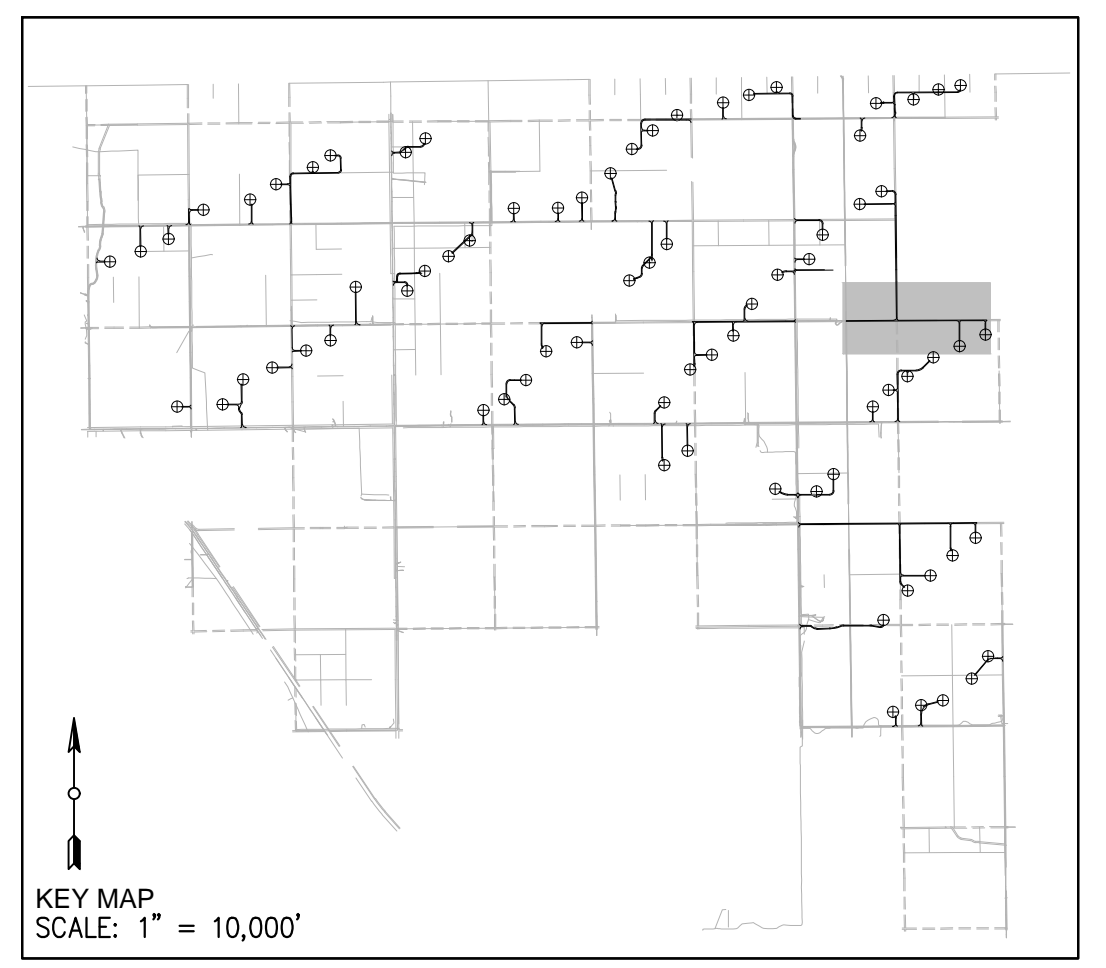
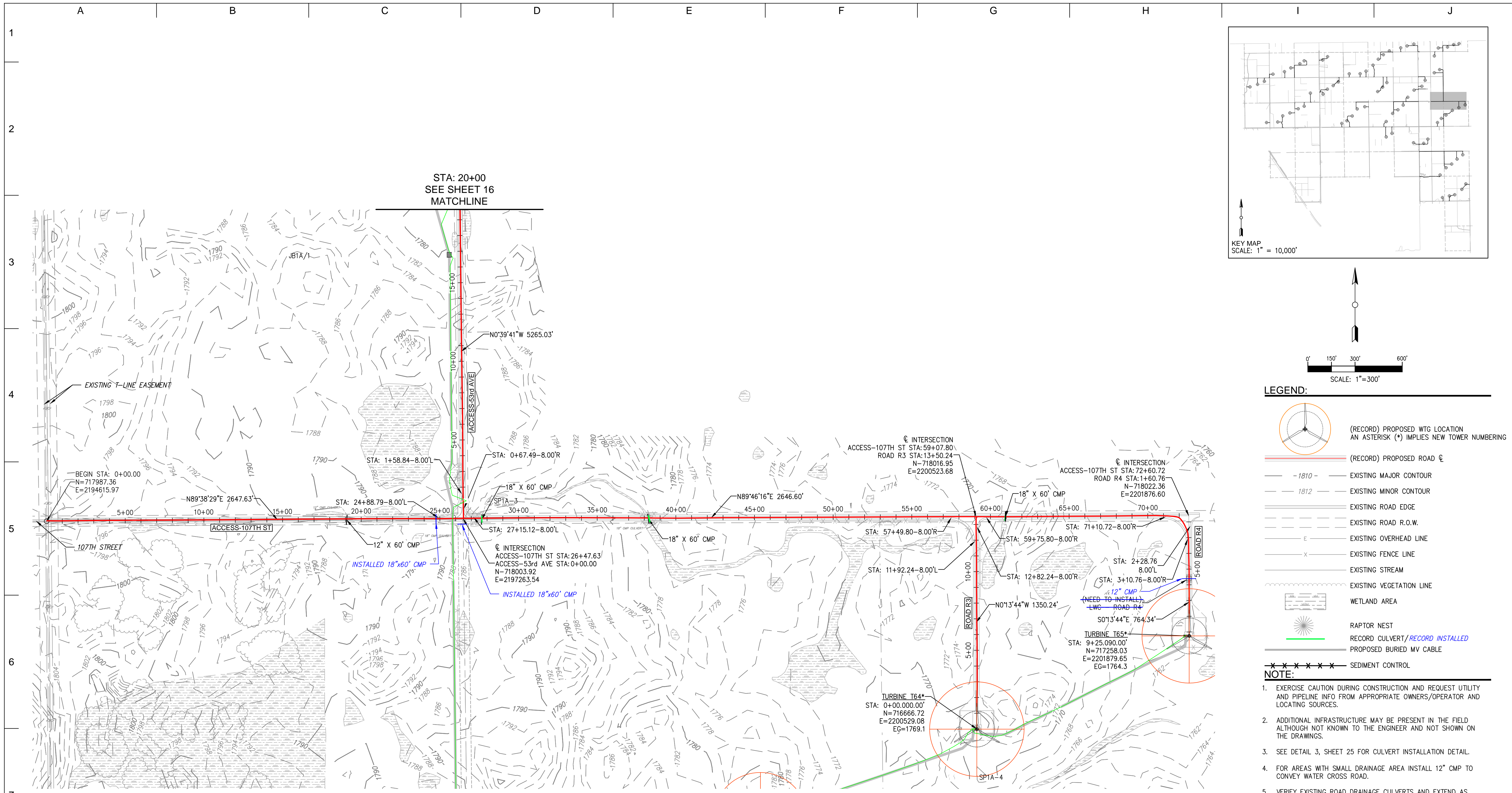
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

PROJECT NO: 23053 WTG LAYOUT NO: PUSAdw087

ROADS R1-R2.2, S1
SHEET 17 OF 32
CIVIL CONSTRUCTION PLANS & DETAILS

NH-268214-17

REV
6



- LEGEND:**
- (RECORD) PROPOSED WTG LOCATION
AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
 - (RECORD) PROPOSED ROAD
 - 1810- EXISTING MAJOR CONTOUR
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PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG	REFERENCE DRAWINGS			
														DWG NO.	MANUFACTURER	DESCRIPTION	
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN											
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NORTHERN STATES POWER
BORDER WINDS - WIND ENERGY PROJECT
 ROLETTE COUNTY, NORTH DAKOTA

DWN: PC	DATE: 08-28-14	CHK: N/A	DATE: N/A
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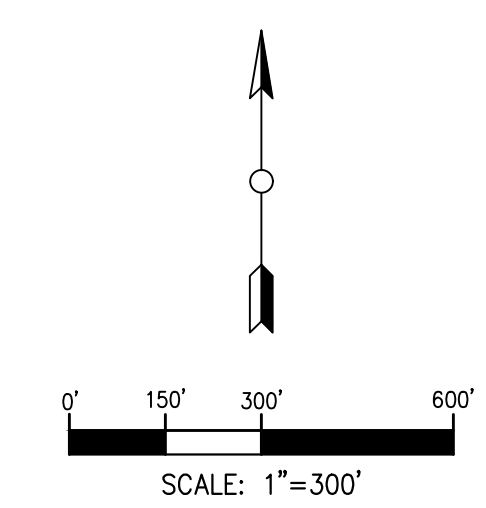
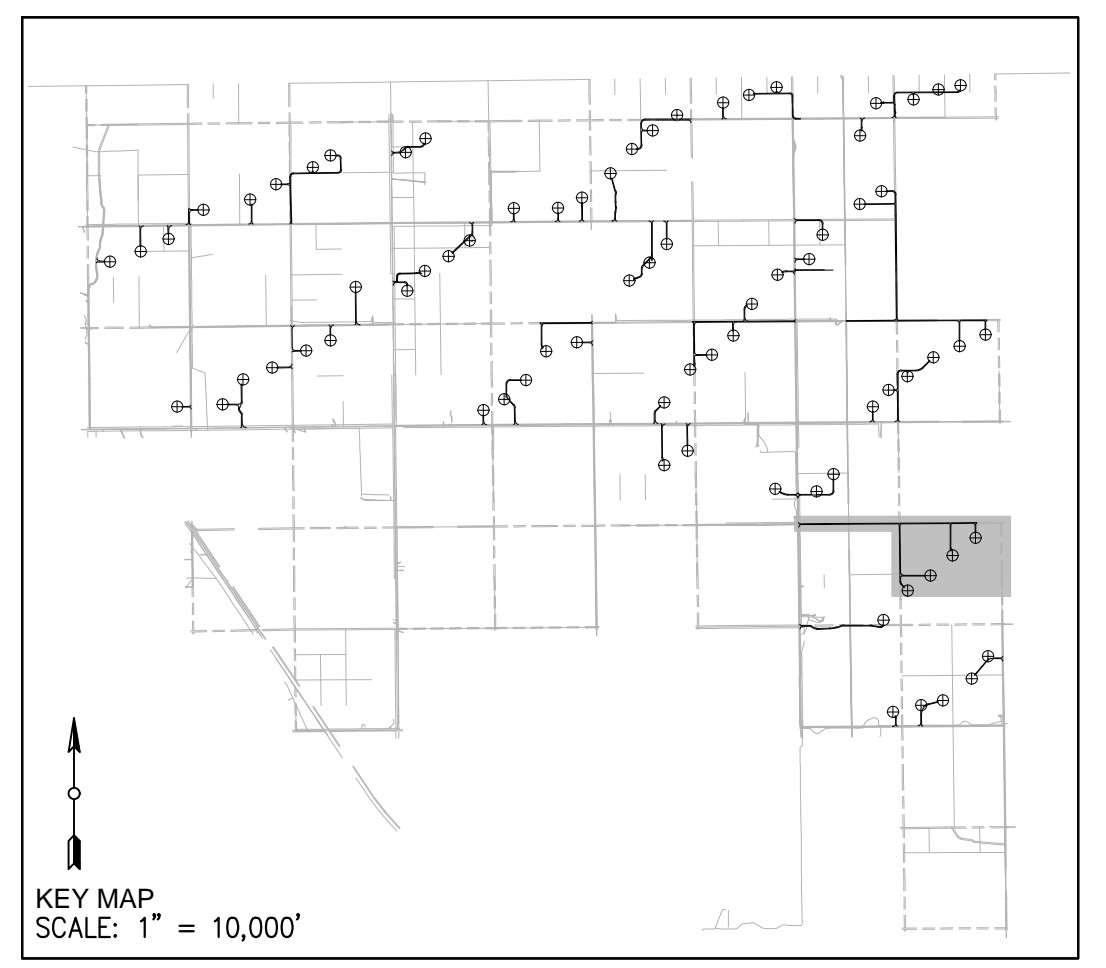
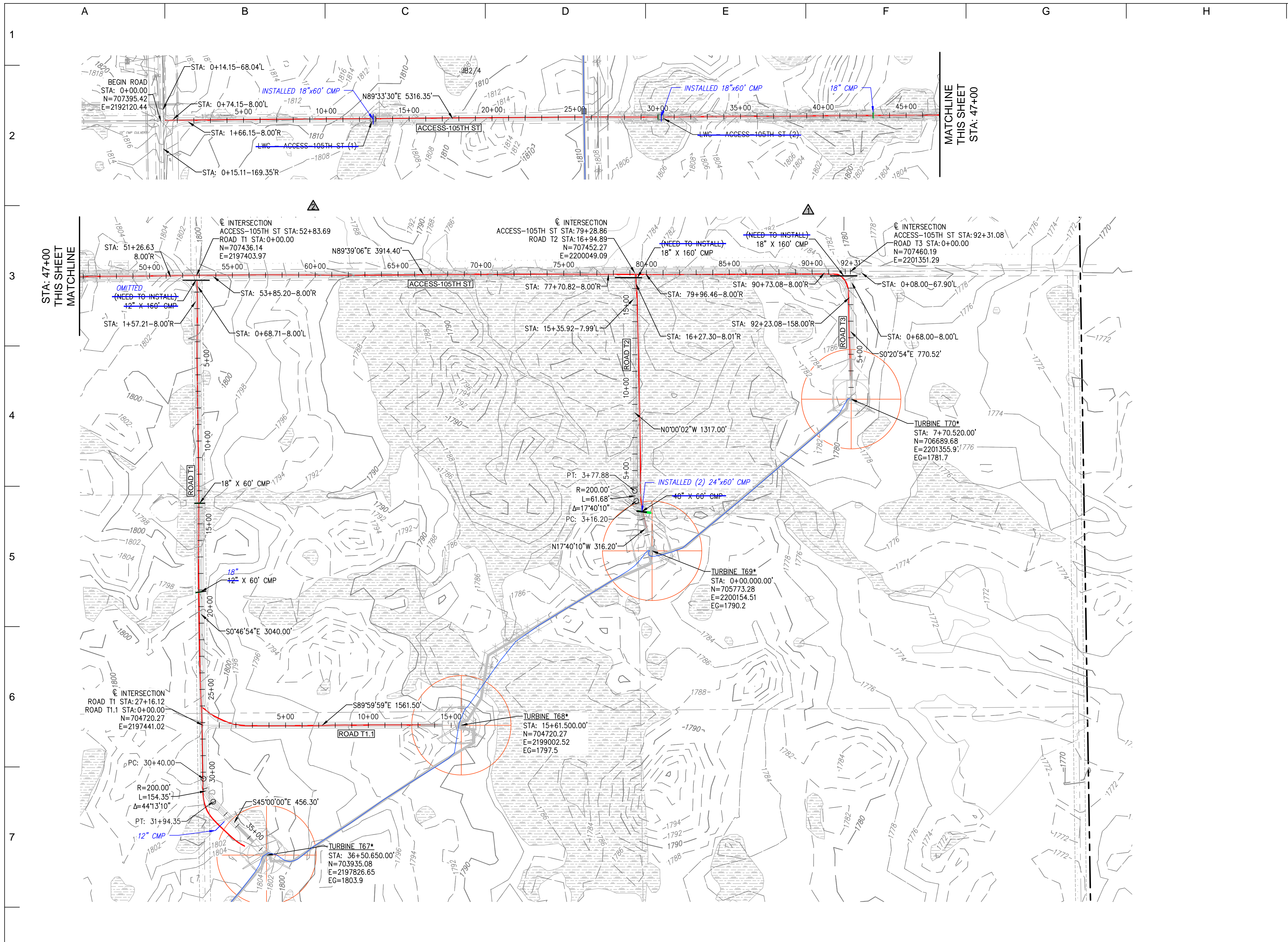
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

NH-268214-18

REV
6

[curry] [dec 16, 2016 - 11:38am] [U: \\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES 3\CONTROLLED DRAWINGS\NH-268214-18.dwg]



- LEGEND:**
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AN ASTERISK (*) IMPLIES NEW TOWER NUMBERING
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 - 1810 - EXISTING MAJOR CONTOUR
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PROJECT NO: 23053 WTG LAYOUT NO: PUSAbdw087

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
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REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy

NORTHERN STATES POWER
 BORDER WINDS - WIND ENERGY PROJECT
 ROLETTE COUNTY, NORTH DAKOTA

DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A
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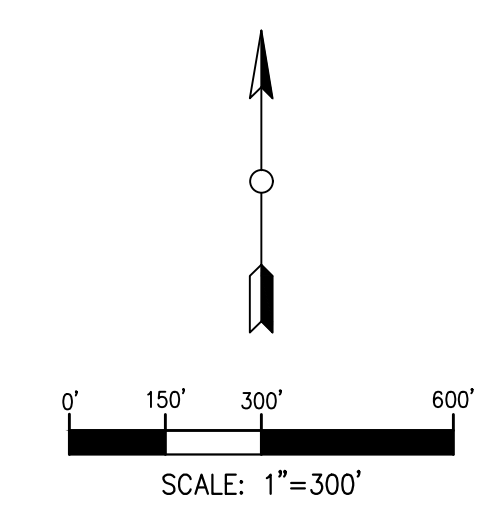
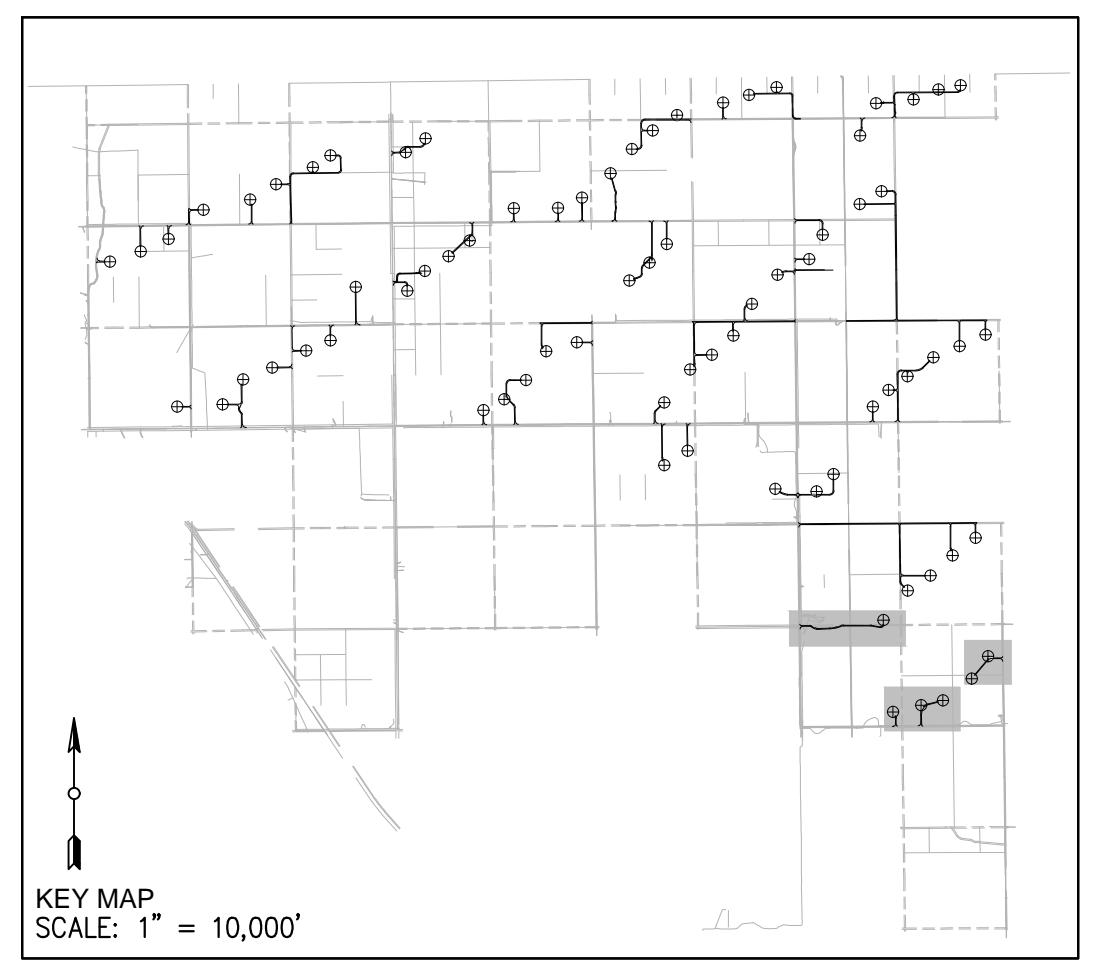
ENERGY SUPPLY
 ENGINEERING & CONSTRUCTION

NH-268214-19

ACCESS-105TH ST-B & ROADS T1-T3_T1.1
 SHEET 19 OF 32
 CIVIL CONSTRUCTION PLANS & DETAILS

REV 6

[U:\WIND_FARMS\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES_3\CONTROLLED_DRAWINGS\NH-268214-19.dwg] [curry] [Dec 16, 2016 - 11:42am]



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TELEPHONE: (303) 439-4200, FAX: (303) 439-4299

PROJECT NO: 23053 WTG LAYOUT NO: PUSAdw087

REVISION						REVISION						REFERENCE DRAWINGS			Xcel Energy			THIS MAP/DRAWING 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 AND MANUALS.	ROADS U1_V1_V2_V3 SHEET 20 OF 32 CIVIL CONSTRUCTION PLANS & DETAILS	REV 6
NO	REVISION	ZONE	DATE	BY	CHK	NO	REVISION	ZONE	DATE	BY	CHK	ENG	DWG NO.	MANUFACTURER	DESCRIPTION	NORTHERN STATES POWER BORDER WINDS - WIND ENERGY PROJECT ROLETTE COUNTY, NORTH DAKOTA				
0	ISSUE FOR CONSTRUCTION	ALL	07-11-14	PC	MA	MN											DWN: PC DATE: 08-28-14 CHK: N/A DATE: N/A			
1	ADDED DETAIL FOR SILT FENCE	ALL	07-30-14	PC	MA	MN											ENG: MN DATE: 08-28-14 CHK: RB DATE: 08-28-14			
2	ACCESS ROAD CHANGES PER LANDOWNER REQUESTS	ALL	08-28-14	PC	MA	MN											PM: BT DATE: 08-28-14 PROJ. NO: 23053			
3	ISSUED FOR RECORD	ALL	11-18-15	DM	RAB	MN											APVD: MN DATE: 08-28-14 SCALE: 1" = 300'			
4	TURBINE NUMBER REVISION	ALL	06-01-16	DM	RAB	MN											ENERGY SUPPLY ENGINEERING & CONSTRUCTION			
5	ISSUED FOR RECORD	ALL	10-04-16	DM	CLC	MN											NH-268214-20			
6	ISSUED FOR RECORD	ALL	12-16-16	DM	CLC	MN														

[U: \\WIND_FARM\USA\North Dakota - Border Winds 23053\DWG\Internal\SERIES_3\CONTROLLED_DRAWINGS\NH-268214-20.dwg] [curry] [Dec 16, 2016 - 11:45am]