

BOE Pipeline, LLC
PU-16-94

Late-Filed Exhibit 7

Amendment/Correction to Appendix B
of Consolidated Application for
Certificate of Corridor, Compatibility, and Route Permit

BOE PIPELINE PHASE II PRELIMINARY ALIGNMENT SHEETS

DUNN COUNTY, NORTH DAKOTA

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THIS DOCUMENT AND THE DATA AND INFORMATION UPON WHICH THIS DOCUMENT IS BASED IS THE PROPERTY OF, AND PROPRIETARY TO, THE OWNERS OF BAKKEN OIL EXPRESS AND NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE DUPLICATED, USED, OR DISCLOSED EXCEPT AS AUTHORIZED, BY SAID OWNERS OR THE OWNER'S AGENT.

<p>LEGEND</p> <p>----- PROPERTY LINE</p> <p>----- SECTION LINE</p> <p>----- EASEMENT LINE</p> <p>----- PIPELINE CENTERLINE</p> <p>W WATER LINE</p> <p>E OVERHEAD ELECTRIC</p> <p>U UTILITY POLE</p> <p>PROPOSED PIPELINE</p> <p>CO2 PIPELINE</p> <p>----- EXISTING ROAD</p>	<p>----- AVOIDANCE AREA</p> <p>----- WETLAND</p> <p>----- EASTMENT</p> <p>----- FAST LEAD</p> <p>----- VALVE SETTING</p> <p>----- MARKER POST</p> <p>EROSION/SEDIMENT CONTROL BMP</p>
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MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK. NO.	QTY.	DESCRIPTION	MK. NO.	DWG. NO.	DESCRIPTION
1	189081	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE			
2	37111	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO			

**BOE PIPELINE PHASE II
INDEX SHEET**

Dunn & McKenzie County

KLJ

BAKKEN OIL EXPRESS

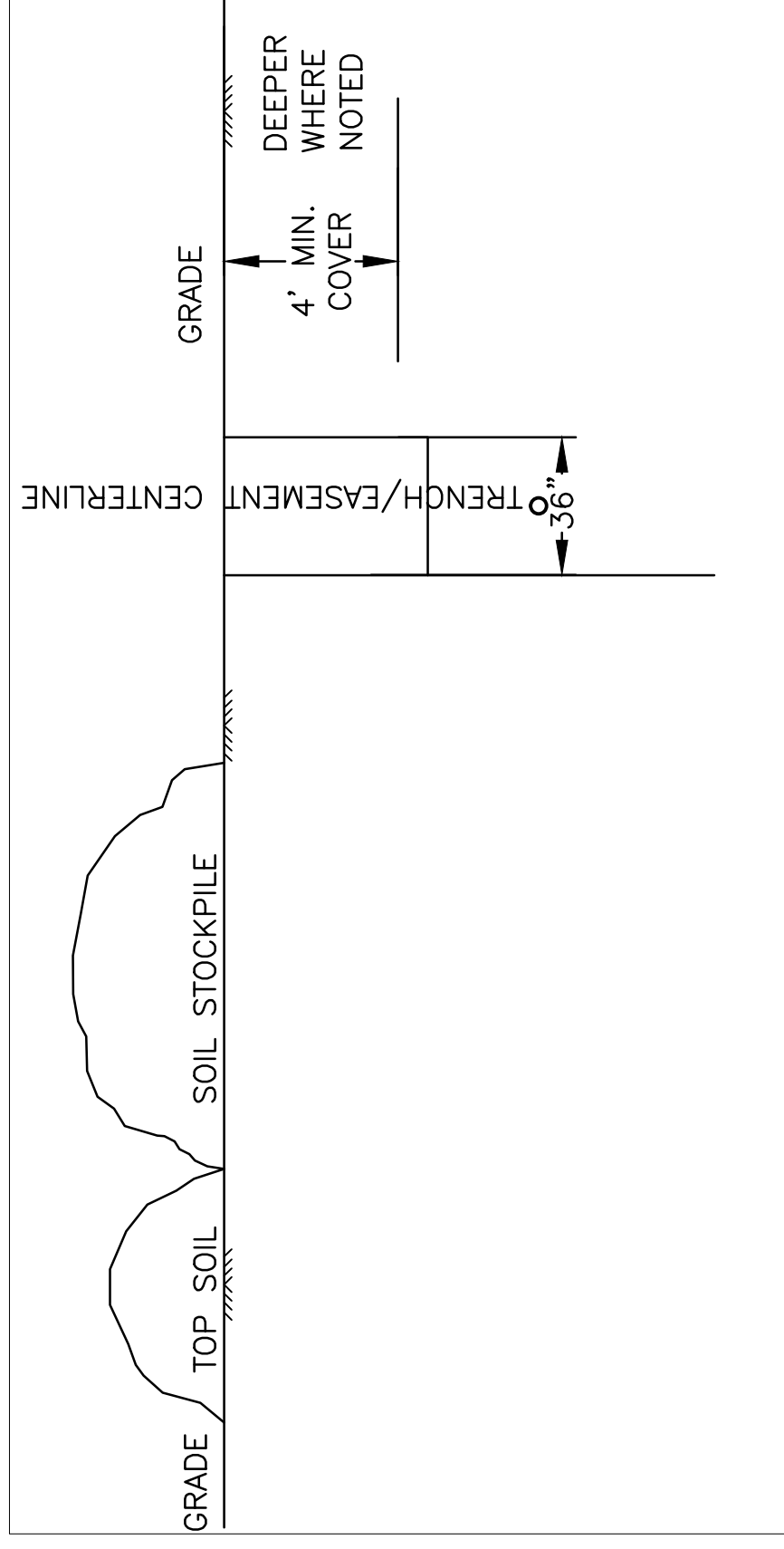
BOE PIPELINE, LLC

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (2011), North Dakota South Zone, US Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000165099 to go from grid distance to ground distance.

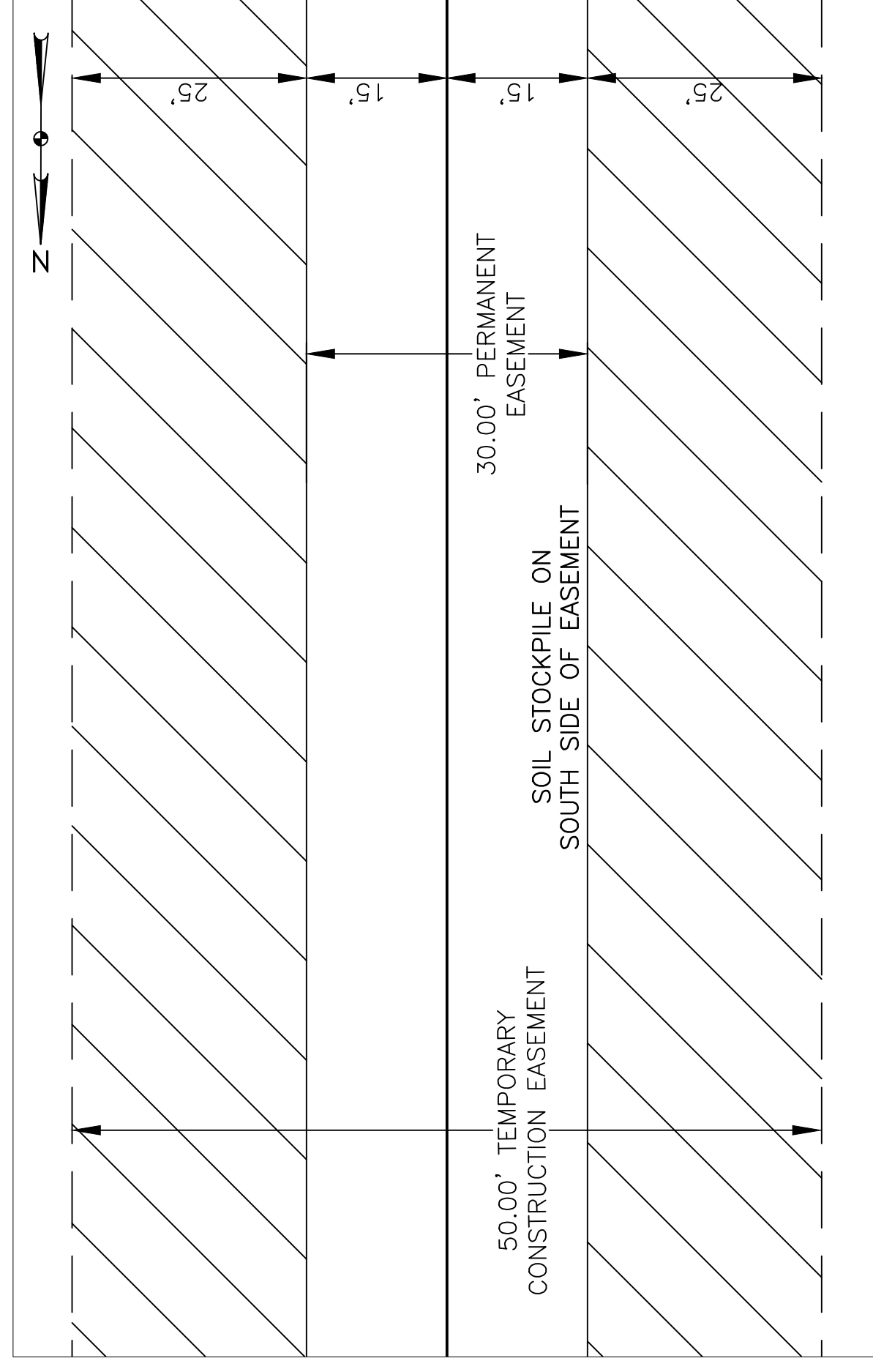
PRELIMINARY

BOE PIPELINE PHASE II PRELIMINARY ALIGNMENT SHEETS

DUNN COUNTY, NORTH DAKOTA



EASEMENT TRENCH PROFILE
NTS

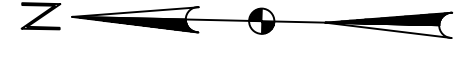
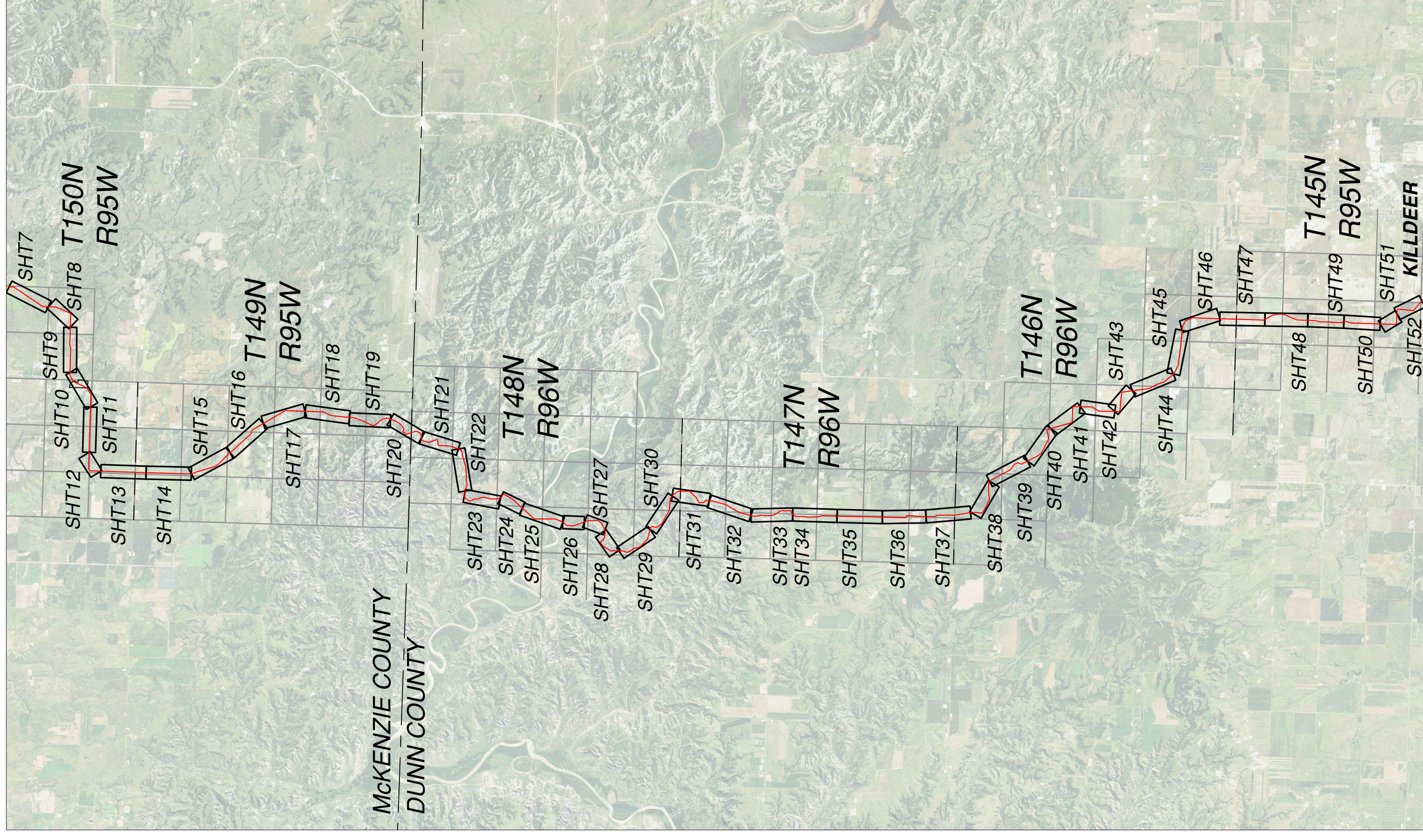


EASEMENT TRENCH PLAN VIEW
NTS

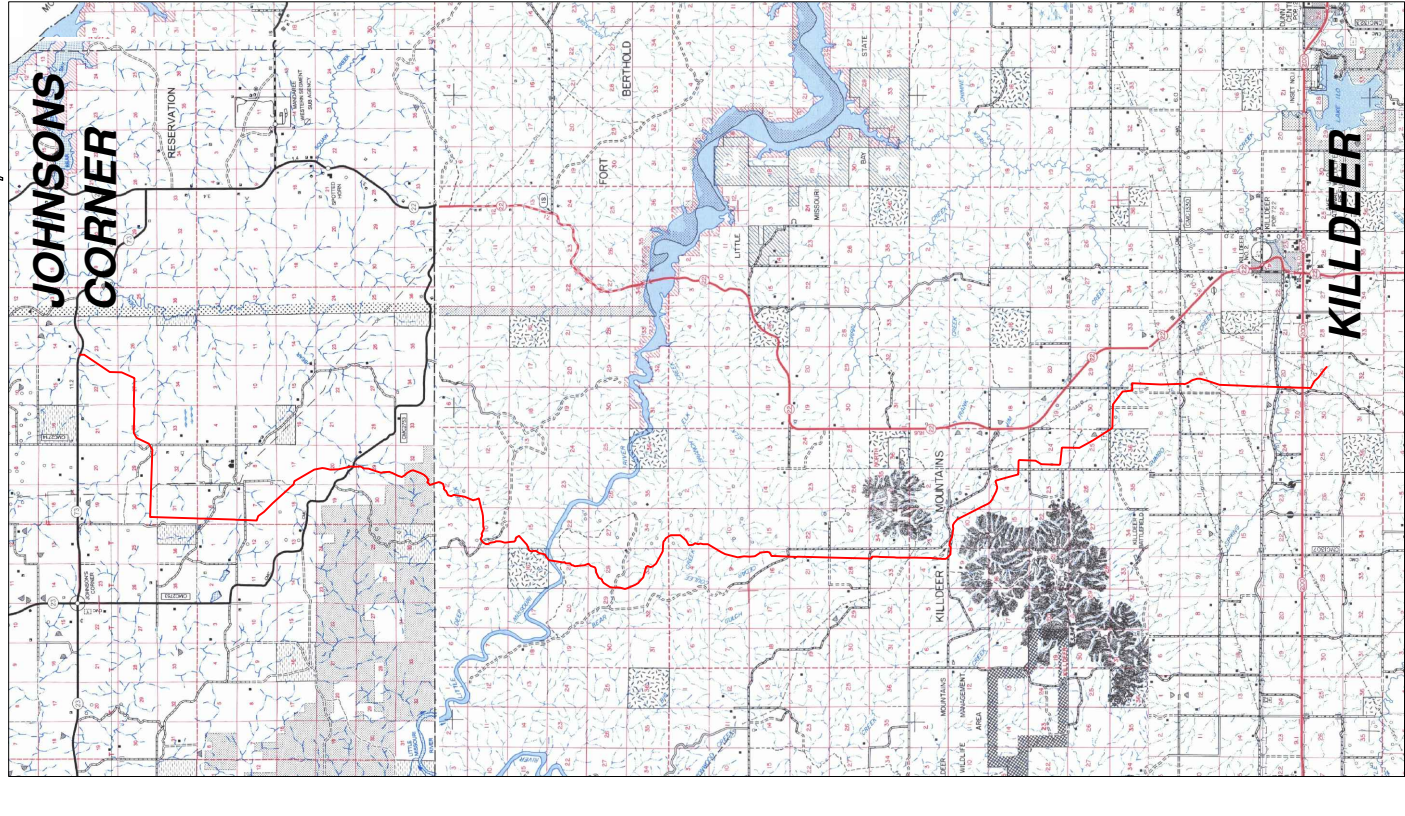
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LEGEND

---	PROPERTY LINE	----	UNDERGROUND COM. LINE		AVOIDANCE AREA
---	SECTION LINE	-x-x-	EXISTING FENCE		FIBER OPTIC COM. LINE
---	EASEMENT LINE	-P-	RAILROAD		METLAND EASEMENT
---	PIPELINE CENTERLINE	-E0-	OVERHEAD ELECTRIC		TEST LEAD
---	WATER LINE	-E-	UTILITY POLE		VALVE SETTING
---	FOREIGN PIPELINE	-E-	PROPOSED BORE		MARKER POST
---	CO2 PIPELINE	-E-	EROSION/SEDIMENT CONTROL BMP		CALL BEFORE YOU DIG
---	EXISTING ROAD	---			

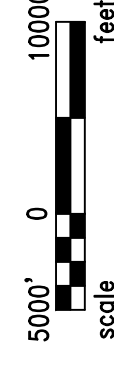


Location Map



PRELIMINARY

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (2011), North Dakota South Zone, US Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000165099 to go from grid distance to ground distance.



MATERIAL SUMMARY		REVISIONS		REFERENCE DRAWINGS	
MK. NO.	QTY.	NO.	DATE	DESCRIPTION	DESCRIPTION
		0	8/17/15	AS-COMPLETED	
DESCRIPTION		SCALE: 1:10000		DRAWN BY: P. JACOBS	
		DATE: 10/26/2015		BOE PIPELINE, LLC	
		CHECKED BY: D. DIONNE		BOE PIPELINE PHASE II	
		APPROVED BY: S. BESMER		AERIAL MAP	
		KLI JOB NUMBER: 13271		Dunn & McKenzie County	
		PROVISION: 0		SHEET: 2	



BOE PIPELINE PHASE II PRELIMINARY ALIGNMENT SHEETS DUNN COUNTY, NORTH DAKOTA

SPECIFIC LANDOWNER'S STIPULATIONS

NAME	LEGALS	COMMENTS
LYNN & LEONÉ LINSETH	36.45A IN NE1/4SW1/4 (2 ACRES RESIDENTIAL), 11-146-96	
ALAN & VICKIE PENNINGTON	SE1/4 LESS 4.75 A (2 ACRES RESIDENTIAL), 11-146-96	
BARBARA REEMS	SW1/4 13-146-96 & SW1/4 12-146-96	
TIMOTHY DVRNAK	SE1/4 LESS .54 & 2.33 A (2 ACRES RESIDENTIAL), NW1/4 LESS 4.85 A 13-146-96	
MARY LOU RYDEN	NE1/4 25-146-96 & SE1/4 SW1/4 LESS 1.53A, NW1/4 LESS .59 A 24-146-95	
SKACHENKO LLLP	SW1/4 29-146-95 & SE1/4 (2 ACRES RESIDENTIAL), E1/2SW1/4 LOTS 3-4, E1/2NW1/4 LOTS 1-2 30-146-95	
WALTER BLANKENSHIP	NW1/4NW1/4 S1/2NE1/4NW1/4 SW1/4NW1/4 NW1/4SW1/4 LESS 9.90 A 32-146-95	
JOHN F. & CHERYL DOLEZAL	S1/2NW1/4 LOTS 3-4 05-145-95 & N1/2SE1/4 NE1/4SW1/4 SE1/4NW1/4 LESS .36 & 1.66A 32-146-95	
DAVID & GALE RICE	NE1/4 LESS .72 & 3.31 & AS1/2NE1/4 LOTS 1-2 05-145-95 & S1/2S1/2 LESS .36 & 1.26 A 32-146-95	
ARLIN & RUSSELL FISCHER	SE1/4 LESS .41 & 2.52 A 05-145-95	
GARY & KAROL ROSHAU	SE1/4 & W1/2NE1/4 LESS .28 & 1.28 A 08-145-95	
SANDRA R. SCHAEFER	SE1/4 LESS 1.05 A & 10 ACRE TRACT & NE1/4 LESS 4.80 & 4.37 A 20-145-95, SE1/4 & NE1/4 17-145-95	
CIVEO USA, LLC	LOTS 3-5, 21-145-95	
LL TERMINALS, LLC	12A TRACT IN NW1/4NW1/4, 28-145-95	

SPECIFIC LANDOWNER'S STIPULATIONS

NAME	LEGALS	CONTACT INFORMATION	COMMENTS
GENERAL STIPULATIONS			CONTACT BEFORE STARTUP AND WITH ANY ISSUES THAT MAY ARISE. SINGLE PIPELINE ONLY. 4 FOOT MINIMUM BURY. REMOVE ANY ROCK GREATER THAN 4 INCHES. NO ABOVE GROUND APPLIANCES. MAINTAIN TEMPORARY GATES AND FENCES. WEED CONTROL FOR 3 YEARS. RE-SEEDING AS MANY TIMES AS NEEDED TO RE-ESTABLISH VEGETATION TO ORIGINAL CONDITION.
LARRY D. JONES	PART OF NW1/4SE1/4, NE1/4SE1/4, E1/2NE1/4 AND S1/2SE1/4 23-150-95	701-675-2426 H 701-421-1728 C	LANDOWNER MAY NEED TO RESTRICT ACCESS FOR LIVESTOCK ACTIVITIES. WILL GIVE 30 DAY NOTICE IF NEEDED. NOTIFY LANDOWNER IF COMMERCIAL QUANTITIES OF SCORIA, SAND OR GRAVEL ARE DISCOVERED.
HAZEL C. HENDERSON TRUST	PART OF NE1/4 27-150-95		
KIMBER HENDERSON			
DENNIS AND BARBARA HENDERSON			
JAMES AND CAROLYN HENDERSON			
MYLES KUMMER			
BONNIE KUMMER			
JOSEPH AND DONNA KUMMER			
CAMERON AND JAN DODGE			
JOHN AND CLEO KIRKLAND			
LARY AND FAY MOBERG	E1/2SE1/4 18-149-95 NW1/4N1/2SW1/4 20-149-95	701-675-2557	EASEMENT AREA SHALL BE USED FOR CONSTRUCTION ONLY. CONSTRUCTION TIMETABLE TO BE SUBMITTED TO LANDOWNER. CONSTRUCTION NOT TO LAST MORE THAN 60 DAYS. NO HUNTING, FISHING, LOITERING, LODGING, CAMPING OR SIMILAR ACTIVITIES. FIREARMS PROHIBITED INCLUDING CONCEAL AND CARRY PERMIT. SMOKING OR OTHER OPEN FLAME SOURCES WITH EXCEPTION TO CONSTRUCTION ACTIVITIES STRICTLY PROHIBITED ON LANDOWNERS PROPERTY. LANDOWNER HAS RIGHT TO EXCLUDE ANY PERSON IN VIOLATION OF RULES SET FORTH. NOTIFY LANDOWNER IF COMMERCIAL QUANTITIES OF SCORIA, SAND OR GRAVEL ARE DISCOVERED. RESTORATION TO BE COMPLETED 30 DAYS AFTER CONSTRUCTION. 5 FOOT MINIMUM BURY. ROCKS GREATER THAN 3 INCHES REMOVED.

PRELIMINARY



CALL BEFORE YOU DIG

LEGEND	
	PROPERTY LINE
	SECTION LINE
	EASEMENT LINE
	PIPELINE CENTERLINE
	WATER LINE
	FOREIGN PIPELINE
	CO2 PIPELINE
	EXISTING ROAD
	UNDERGROUND COM. LINE
	EXISTING FENCE
	FIBER OPTIC COM. LINE
	OVERHEAD ELECTRIC
	UTILITY POLE
	PROPOSED BORE
	EROSION CONTROL BMP
	AVOIDANCE AREA
	WETLAND
	FAST LEAD
	VALVE SETTING
	MARKER POST

MATERIAL SUMMARY	
MK. NO.	QTY.

REFERENCE DRAWINGS	
MK. NO.	DWG. NO.

REVISIONS	
NO.	DATE

DESCRIPTION	

SCALE	
SCALE	DATE
1:10000	10/26/2015

CALL BEFORE YOU DIG

BOE PIPELINE, LLC

BOE PIPELINE PHASE II
LANDOWNER STIPULATION
Dunn & McKenzie County

BOE PIPELINE PHASE II PRELIMINARY ALIGNMENT SHEETS

DUNN COUNTY, NORTH DAKOTA

BORE LIST						
BORE NO.	STATIONING	TYPE	COMMENTS	LENGTH	SECTION	SHEET
1	44+28.30	PRIVATE	WETLAND CROSSING	346'	22-150-95	7
2	140+94.77	PRIVATE	DRAINAGE CROSSING	612'	28-150-95	9
3	155+78.62	COUNTY	CR57 & CREEK CROSSING	709'	28-150-95	10
4	179+15.27	PRIVATE	DRAINAGE CROSSING	692'	28-150-95	10
5	258+49.99	PRIVATE	DRAINAGE CROSSING	572'	30-150-95	12
6	264+68.67	PRIVATE	DRAINAGE CROSSING	379'	30-150-95	12
7	280+94.96	PRIVATE	TREE LINE	580'	31-150-95	12
8	295+07.89	PRIVATE	TREE LINE	735'	31-150-95	13
9	325+24.34	PRIVATE	ACCESS ROAD	249'	31-150-95	13
10	337+36.76	COUNTY	24TH ST NW & DRAINAGE	647'	6-149-95	13, 14
11	349+50.05	PRIVATE	DRAINAGE CROSSING	357'	6-149-95	14
12	381+86.39	PRIVATE	DAKOTA PIPELINE	457'	7-149-95	14
13	389+75.72	COUNTY	23RD ST NW	109'	7-149-95	15
14	399+14.45	PRIVATE	DRAINAGE CROSSING	502'	7-149-95	15
15	447+09.84	PRIVATE	WETLAND CROSSING	407'	18-149-95	16
16	466+11.92	PRIVATE	DRAINAGE CROSSING	616'	18-149-95	16
17	475+87.64	PRIVATE	ACCESS ROAD	217'	17-149-95	16
18	525+52.85	PRIVATE	TERRAIN CROSSING	478'	20-149-95	17
19	544+49.10	PRIVATE	TREE LINE	770'	20-149-95	17, 18
20	560+77.38	COUNTY	HIGHWAY 53 & ACCESS RD	615'	20-149-95	18
21	572+15.10	PRIVATE	AVOIDANCE AREA	434'	29-149-95	18
22	609+95.53	PRIVATE	TREE LINE	348'	29-149-95	19
23	630+89.34	PRIVATE	TREE LINE	272'	32-149-95	19
24 & 25	659+43.72	PRIVATE	AVOIDANCE AREA	878'	32-149-95	20
26	727+00.00	PRIVATE	WETLAND CROSSING (BORE REMOVED)			
27	737+05.50	PRIVATE	CREEK CROSSING	971'	2-148-96	21
28	749+14.78	PRIVATE	CREEK CROSSING	862'	2-148-96	21, 22
29	764+75.58	PRIVATE	DRAINAGE CROSSING	1194'	10-148-96	22
30	787+33.17	PRIVATE	DRAINAGE CROSSING	1087'	11-148-96	22
31	815+22.33	COUNTY	111TH AVE NW	154'	10-148-96	23
32	845+82.30	PRIVATE	ACCESS ROAD	186'	10-148-96	23
33	869+33.04	PRIVATE	DRAINAGE CROSSING	1259'	15-148-96	24
34	889+63.02	PRIVATE	DRAINAGE CROSSING	2306'	15-148-96	24, 25
35	925+25.07	STATE	LITTLE MISSOURI RIVER	1505'	21-148-96	25
36	939+89.77	PRIVATE	DRAINAGE CROSSING	633'	21-148-96	25, 26
37	951+49.40	PRIVATE	TERRAIN CROSSING	214'	21-148-96	26
38	965+01.89	PRIVATE	TERRAIN & AVOIDANCE AREA CROSSING	1712'	21-148-96	26, 27
39	1025+50.41	PRIVATE	TREE LINE	1009'	28-148-96	28
40	1040+23.89	COUNTY	13TH M ST NW & CREEK CROSSING	903'	28-148-96	28, 29
41	1131+38.82	PRIVATE	DRAINAGE CROSSING	1198'	33-148-96	30
42	1149+95.90	PRIVATE	ACCESS ROAD	223'	34-148-96	31
43	1161+22.67	PRIVATE	PIPELINE CROSSING	555'	3-147-96	31
44	1170+58.39	PRIVATE	TERRAIN CROSSING	1116'	3-147-96	31
45	1206+70.05	PRIVATE	TERRAIN CROSSING	1421'	3-147-96	32
46	1220+58.64	COUNTY	CREEK CROSSING	1362'	10-147-96	32

BORE LIST						
BORE NO.	STATIONING	TYPE	COMMENTS	LENGTH	SECTION	SHEET
47	1255+39.66	PRIVATE	TREE LINE	562'	9-147-96	33
48	1265+88.29	PRIVATE	TREE LINE	722'	9-147-96	33
49	1285+30.12	PRIVATE	ACCESS ROAD & CREEK CROSSING	835'	15-147-96	33
50	1314+29.98	PRIVATE	ACCESS ROAD	414'	16-147-96	34
51	1325+50.36	COUNTY	13TH M ST NW	412'	16-147-96	34
52	1348+35.10	PRIVATE	DRIVEWAY CROSSING	259'	21-147-96	34
53	1378+81.25	PRIVATE	ACCESS ROAD	220'	21-147-96	35
54	1429+57.11	COUNTY	111TH AVE NW	170'	27-147-96	36
55	1434+22.63	PRIVATE	DRIVEWAY CROSSING	90'	28-147-96	36
56	1440+10.50	PRIVATE	ACCESS ROAD	376'	33-147-96	36
57	1461+76.40	PRIVATE	ACCESS ROAD	376'	34-147-96	36
58	1479+58.91	PRIVATE	DRIVEWAY CROSSING	358'	34-147-96	37
59	1498+53.69	PRIVATE	WETLAND CROSSING	372'	34-147-96	37
60	1538+73.80	PRIVATE	NORTHERN BORDER PIPELINE	174'	3-146-96	37
61	1552+92.46	PRIVATE	ACCESS ROAD	419'	3-146-96	38
62	1562+06.76	PRIVATE	ACCESS ROAD	297'	3-146-96	38
63	1571+52.95	PRIVATE	WETLAND CROSSING	387'	3-146-96	39
64	1611+46.83	COUNTY	5TH ST NW	1093'	3-146-96	39
65	1644+50.34	PRIVATE	TREE LINE & DRIVEWAY CROSSING	392'	10-146-96	39, 40
66	1658+80.37	PRIVATE	DRIVEWAY CROSSING	181'	11-146-96	40
67	1663+22.27	PRIVATE	ACCESS ROAD	262'	11-146-96	40
68	1670+49.41	COUNTY	4TH ST NW & WETLAND CROSSING	459'	13-146-96	41
69	1683+43.66	PRIVATE	WETLAND CROSSING	315'	13-146-96	41
70	1705+53.07	PRIVATE	WETLAND CROSSING	388'	13-146-96	41
71	1722+33.63	PRIVATE	PROPERTY CROSSING	146'	13-146-96	41
72	1733+29.41	PRIVATE	TREE LINE	321'	13-146-96	42
73	1808+59.49	COUNTY	3RD ST NW & ACCESS ROAD	331'	13-146-96	42
74	1821+70.03	PRIVATE	WETLAND CROSSING	452'	24-146-96	44
75	1849+62.04	PRIVATE	WETLAND CROSSING	444'	25-146-96	44
76	1856+16.79	PRIVATE	ACCESS ROAD	250'	30-146-95	45
77	1874+87.23	PRIVATE	WETLAND CROSSING	429'	30-146-95	45
78	1881+06.41	PRIVATE	WETLAND CROSSING	296'	30-146-95	45
79	1886+57.76	COUNTY	107TH AVE NW	249'	30-146-95	45
80	1917+60.80	COUNTY	1ST ST NW	358'	28-146-95	46
81	1955+00.00	PRIVATE	WETLAND CROSSING	300'	32-146-95	47
82	2024+59.21	COUNTY	1ST ST NW	190'	20-145-95	48
83	2031+96.90	PRIVATE	DRAINAGE CROSSING	394'	8-145-95	48
84	2083+41.74	PRIVATE	WETLAND CROSSING	524'	17-145-95	49
85	2153+14.34	COUNTY	SPRING CREEK ROAD & WETLAND CROSSING	487'	20-145-95	51
86	2194+31.38	PRIVATE	WETLAND CROSSING	401'	20-145-95	52
87	2199+23.36	PRIVATE	ACCESS ROAD	329'	20-145-95	52
88	2205+11.82	COUNTY	HIGHWAY 200	440'	20-145-95	52

PRELIMINARY



CALL BEFORE YOU DIG

LEGEND	
	PROPERTY LINE
	SECTION LINE
	EASEMENT LINE
	PIPELINE CENTERLINE
	WATER LINE
	FOREIGN PIPELINE
	CO2 PIPELINE
	EXISTING ROAD
	UNDERGROUND COM. LINE
	EXISTING FENCE
	FIBER OPTIC COM. LINE
	RAILROAD
	OVERHEAD ELECTRIC
	UTILITY POLE
	PROPOSED BORE
	EROSION/SEDIMENT CONTROL BMP
	AVOIDANCE AREA
	WETLAND
	EASEMENT
	TEST LEAD
	VALVE SETTING
	MARKER POST

MATERIAL SUMMARY

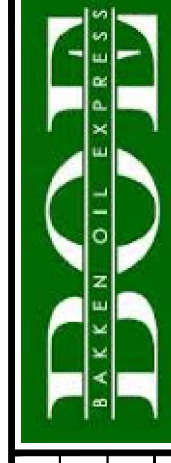
MK. NO.	QTY.	DESCRIPTION

REFERENCE DRAWINGS

MK. NO.	DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION



BOE PIPELINE, LLC

SCALE: 1"=100.00
 DRAWN: P. JACOBS
 DATE: 10/26/2015
 CHECKED BY: DJONNIE
 APPROVED BY: RESMER
 KLJ JOB NUMBER: 1713271
 REVISION: 0 SHEETS: 5

BOE PIPELINE PHASE II
 BORE LIST
 Dunn & McKenzie County



4885 Coleman Street
 Bismarck, ND 58502
 © KLJ 2015

BOE PIPELINE PHASE II PRELIMINARY ALIGNMENT SHEETS DUNN COUNTY, NORTH DAKOTA

STATION	TYPE	NOTE
0+00.00	TYPE-1	PIPELINE START
51+90.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
102+60.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
151+20.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
154+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
175+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
177+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
222+30.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
227+00.00	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
271+60.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
324+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
327+00.00	TYPE-1	FOREIGN CROSSING ONEOK PIPELINE
338+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
341+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
377+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
389+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
390+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
437+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
474+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
476+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
483+00.00	TYPE-1	FOREIGN CROSSING TARGA HELLIS SYSTEM PIPELINE
508+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
528+00.00	TYPE-1	FOREIGN CROSSING BEARS DEN PHASE 1 PIPELINE
560+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
564+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
616+20.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
684+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
744+50.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
756+00.00	TYPE-1	FOREIGN CROSSING BEARS DEN PHASE 1 PIPELINE
814+00.00	TYPE-1	FOREIGN CROSSING ENABLE PIPELINE
816+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
845+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
852+70.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
863+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
878+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
917+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
923+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
974+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1041+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1045+00.00	TYPE-1	INSTALL TEST STATION AT END OF BORE
1057+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE


STATION	TYPE	NOTE
1124+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1149+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1153+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1213+60.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1269+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1281+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1283+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1315+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1316+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1325+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1328+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1347+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1348+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1378+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1380+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1429+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1430+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1433+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1435+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1440+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1442+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1459+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1461+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1487+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1520+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1551+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1553+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1574+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1577+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1612+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1614+00.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1643+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1645+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1658+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1660+50.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
1662+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1731+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1732+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1818+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1848+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE

STATION	TYPE	NOTE
1850+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1885+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
1887+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1915+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
1919+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
1970+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
2024+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
2026+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
2079+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
2132+00.00	TYPE-1	INSTALL TEST STATION AT SECTION LINE
2133+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
2150+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
2151+50.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
2189+00.00	TYPE-1	INSTALL TEST STATION IN FENCE LINE
2197+50.00	TYPE-1	INSTALL TEST STATION AT ROAD RW
2199+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW
2203+00.00	TYPE-1	INSTALL TEST STATION AT END OF BORE
2207+00.00	MARKER POST	INSTALL MARKER POST AT ROAD RW

PRELIMINARY

LEGEND

- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- AVOIDANCE AREA
- WETLAND
- FASTLAND
- TEST LEAD
- VALVE SETTING
- MARKER POST
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED ROPE
- EROSION/SEDIMENT CONTROL BMP



CALL BEFORE YOU DIG

MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK. NO.	QTY.	MK. NO.	DWG. NO.	NO.	DATE



BOE PIPELINE, LLC
TEST STATION SCHEDULE
Dunn & McKenzie County



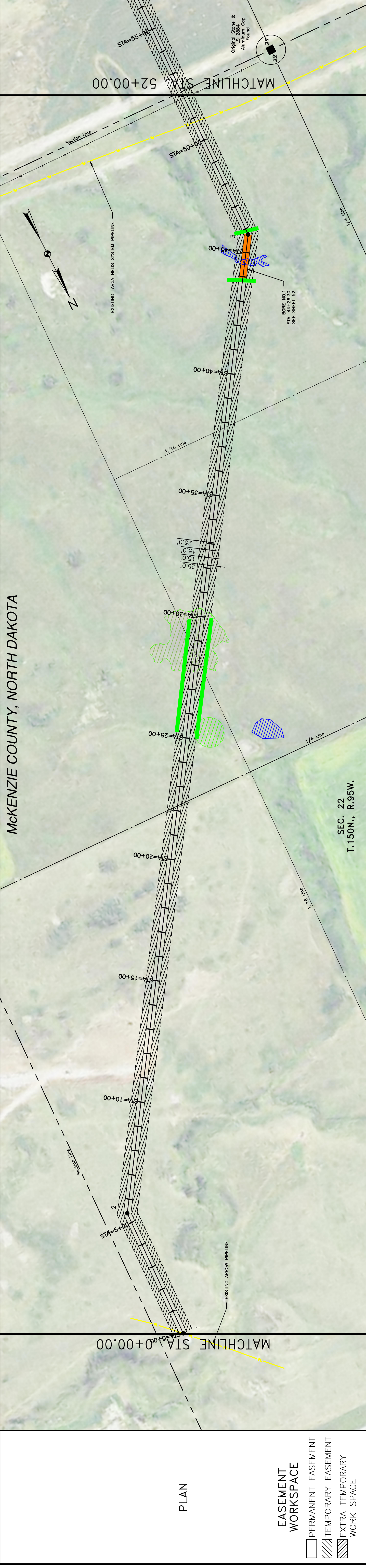
4585 Coleman Street
Bismarck, ND 58502
© KLJ 2015



CALL BEFORE YOU DIG

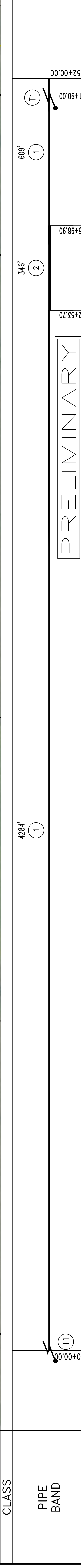
OWNERSHIP
 E1/2NE1/4 NW1/4NE1/4 EX 2.03A RW 117.97 ACRES (E1/2NE IN JT) & E1/2SW1/4 NW1/4SE1/4 SW1/4NE1/4 160 ACRES & S1/2SE1/4 NE1/4SE1/4 120 ACRES
 LARRY D. JONES
 315.15 RODS

STATIONING
 0+00.00 BEGIN STA. 5+41.77 PL. 3201'24" RT. 5+00.00
 22+20.08 1/4 LINE 28+39.84 1/16 LINE 37+73.51 1/16 LINE
 45+73.90 PL. 3206'49" LT. 50+83.29 TARGA HELIX PIPELINE 51+90.77 EXISTING FENCE 52+00.00



McKENZIE COUNTY, NORTH DAKOTA

SEC. 22
 T.150N., R.95W.



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	NO.	DATE	DESCRIPTION
- - - - -	UNDERGROUND COM. LINE						
- - - - -	EXISTING FENCE						
- - - - -	FIBER OPTIC COM. LINE						
- - - - -	RAILROAD						
- - - - -	OVERHEAD ELECTRIC						
- - - - -	UTILITY POLE						
- - - - -	PROPOSED BORE						
- - - - -	EROSION/SEDIMENT CONTROL BMP						
- - - - -	MARKER POST						
- - - - -	AVOIDANCE AREA						
- - - - -	WETLAND						
- - - - -	EASEMENT						
- - - - -	TEST LEAD						
- - - - -	VALVE SETTING						
- - - - -	MARKER POST						
- - - - -	PROPERTY LINE						
- - - - -	SECTION LINE						
- - - - -	EASEMENT LINE						
- - - - -	PIPELINE CENTERLINE						
- - - - -	WATER LINE						
- - - - -	FOREIGN PIPELINE						
- - - - -	CO2 PIPELINE						
- - - - -	EXISTING ROAD						

CALL BEFORE YOU DIG

811

LEGEND
 UNDERGROUND COM. LINE
 EXISTING FENCE
 FIBER OPTIC COM. LINE
 RAILROAD
 OVERHEAD ELECTRIC
 UTILITY POLE
 PROPOSED BORE
 EROSION/SEDIMENT CONTROL BMP
 MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4893'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	346'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: HORIZ. = 1" = 200'
 VERT. = 1" = 200'
 scale

KLJ
 KLEIN & JACOBS
 ENGINEERS & ARCHITECTS
 4585 Coleman Street
 Bismarck, ND 58503

BOE PIPELINE PHASE II
 SECTION 22, T150N., R95W
 McKENZIE COUNTY, NORTH DAKOTA

BOE PIPELINE PHASE II
 SECTION 22, T150N., R95W
 McKENZIE COUNTY, NORTH DAKOTA

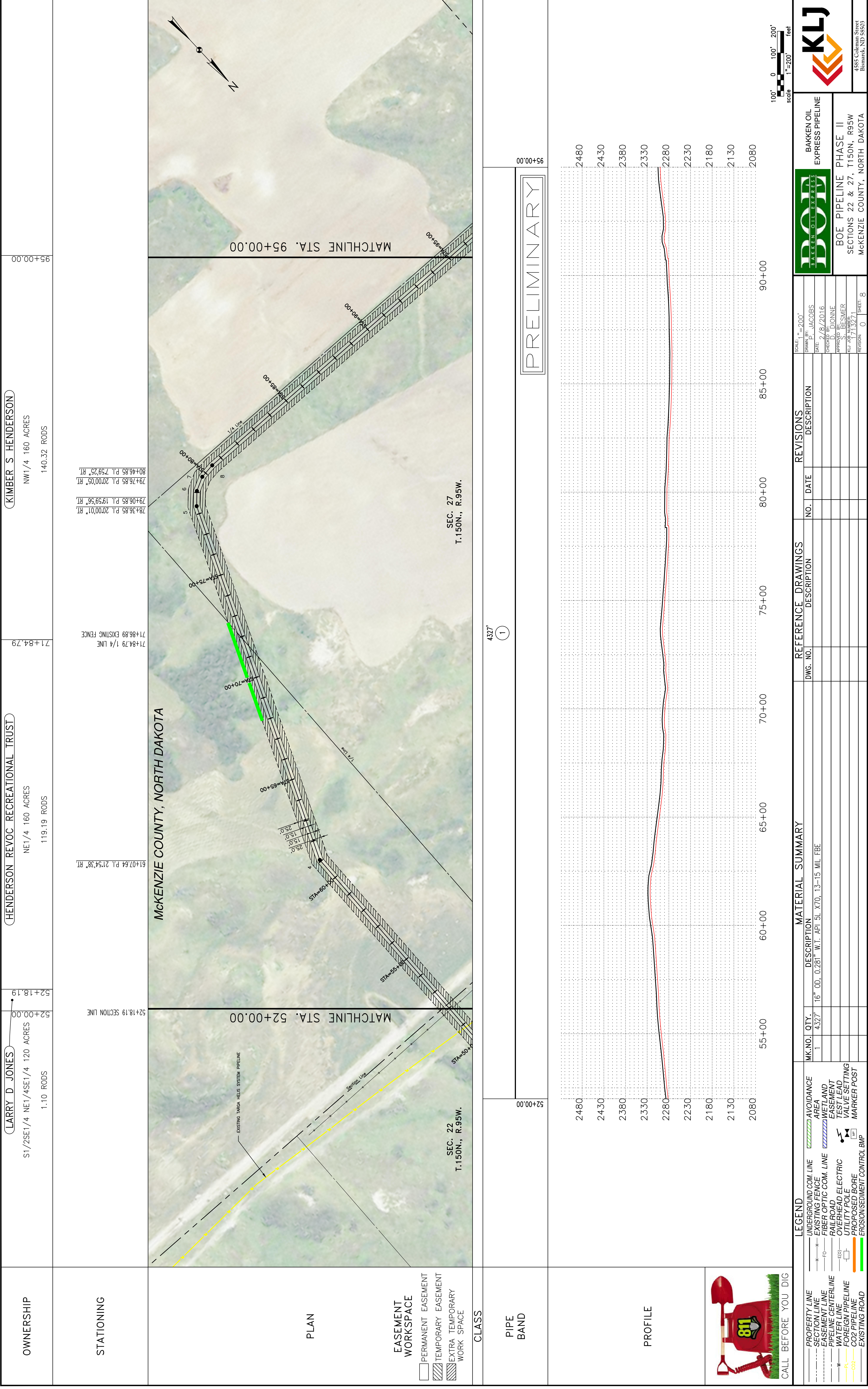
PRELIMINARY

CLASS
 4284' 1

PIPE BAND
 609' 2

PROFILE

EROSION/SEDIMENT CONTROL BMP



OWNERSHIP
 LARRY D JONES 51/2SE1/4 NE1/4SE1/4 120 ACRES 1.10 RODS
 HENDERSON REVOG RECREATIONAL TRUST NE1/4 160 ACRES 119.19 RODS
 KIMBER S HENDERSON NW1/4 160 ACRES 140.32 RODS

STATIONING
 52+18.19 SECTION LINE
 52+00.00
 52+18.19
 71+84.79 1/4 LINE
 71+86.89 EXISTING FENCE
 78+36.85 P.L. 20'00.01" RT.
 79+06.85 P.L. 19'59.56" RT.
 79+76.85 P.L. 20'00.05" RT.
 80+46.85 P.L. 7'59.25" RT.

PLAN
 McKENZIE COUNTY, NORTH DAKOTA
 SEC. 22 T.150N., R.95W.
 SEC. 27 T.150N., R.95W.
 MATCHLINE STA. 52+00.00
 MATCHLINE STA. 95+00.00

EASEMENT WORKSPACE
 PERMANENT EASEMENT
 TEMPORARY EASEMENT
 EXTRA TEMPORARY WORK SPACE

CLASS
 PIPE BAND

PROFILE
 PRELIMINARY
 4327
 52+00.00
 55+00
 60+00
 65+00
 70+00
 75+00
 80+00
 85+00
 90+00
 95+00.00

LEGEND
 PROPERTY LINE
 SECTION LINE
 EASEMENT LINE
 PIPELINE CENTERLINE
 WATER LINE
 FOREIGN PIPELINE
 CO2 PIPELINE
 EXISTING ROAD
 UNDERGROUND COM. LINE
 EXISTING FENCE
 FIBER OPTIC COM. LINE
 RAILROAD
 OVERHEAD ELECTRIC
 UTILITY POLE
 PROPOSED BORE
 EROSION/SEDIMENT CONTROL BMP
 AVOIDANCE AREA
 WETLAND
 EASEMENT
 TEST LEAD
 VALVE SETTING
 MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4327	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1"=200'
 DRAWN BY: JACOBS
 DATE: 8/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BESMER
 AUL JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 8

BOE PIPELINE PHASE II
 SECTIONS 22 & 27, T150N, R95W
 McKENZIE COUNTY, NORTH DAKOTA

4585 Coleman Street
 Bismarck, ND 58503
 © KLJ 2016

OWNERSHIP

(KIMBER S HENDERSON) NW1/4 160 ACRES 46.13 RODS 95+00.00

(KIMBER S HENDERSON) NE1/4 160 ACRES 86.86 RODS 102+61.07

(KIMBER S HENDERSON) SE1/4 160 ACRES & SW1/4 160 ACRES 182.17 RODS 147+00.00

STATIONING

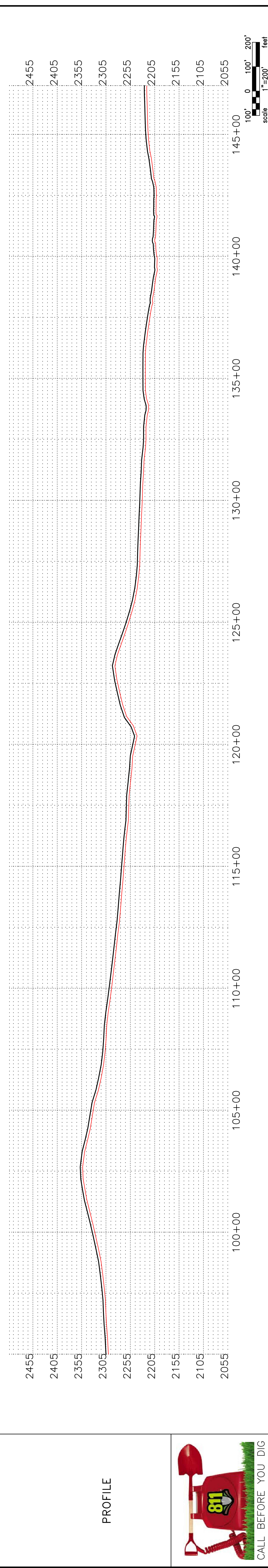
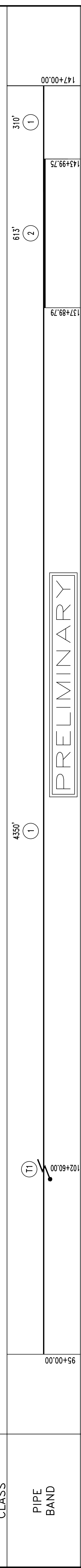
146+59.46 EXISTING FENCE

133+65.83 EXISTING DRAINAGE

129+26.89 1/4 LINE

133+91.92 EXISTING DRAINAGE

147+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4660'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	613'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

SCALE: H=200'

SCALE: V=200'

1"=200'

100' 200'

CALL BEFORE YOU DIG

811

BOE PIPELINE PHASE II
SECTIONS 27 & 28, T150N., R95W
McKENZIE COUNTY, NORTH DAKOTA

DOT
D A K O T A
D E P A R T M E N T
O F
T R A N S P O R T A T I O N

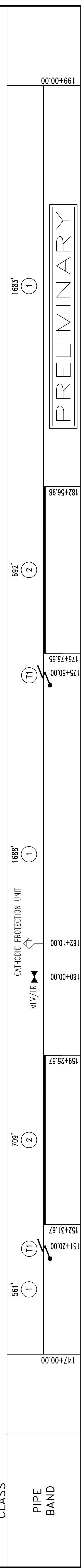
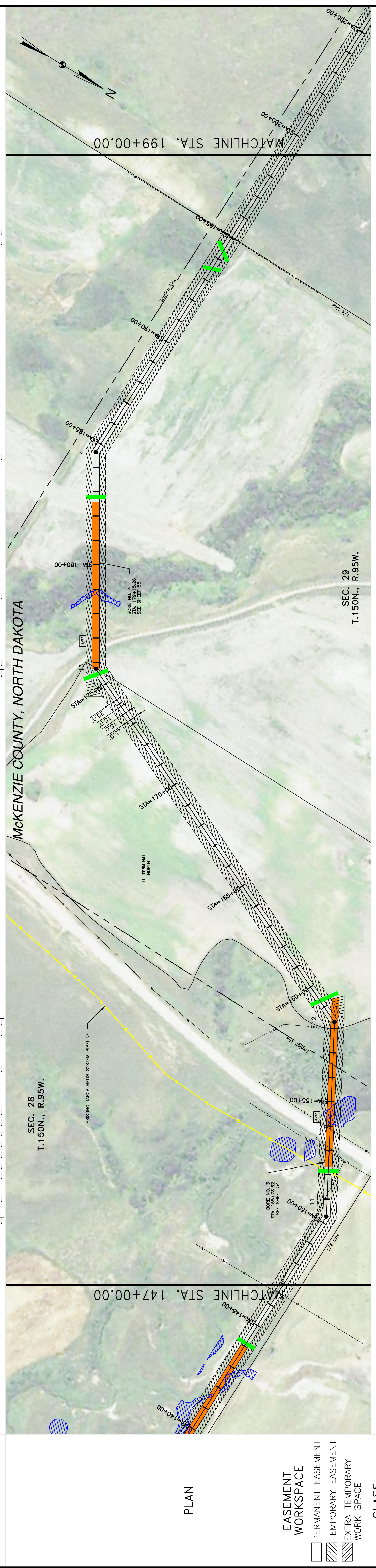
BAKKEN OIL EXPRESS PIPELINE

SCALE: H=200'
DRAWN BY: JACOBS
DATE: 7/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
JOB NO. NUMBER: 1713271
REVISION: 0 SHEETS: 9

4585 Coleman Street
Bismarck, ND 58503

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OWNERSHIP	(Myles Kummer)	195+05.16	199+00.00
	SW1/4 160 ACRES 23.93 RODS	195+05.16	199+00.00
STATIONING	(James E & Carolyn Henderson JT)	156+52.40	147+00.00
	SE1/4 160 ACRES 57.72 RODS	156+52.40	147+00.00



LEGEND	MATERIAL SUMMARY	REFERENCE DRAWINGS	REVISIONS																										
<ul style="list-style-type: none"> PROPERTY LINE SECTION LINE EASEMENT LINE PIPELINE CENTERLINE WATER LINE FOREIGN PIPELINE CO2 PIPELINE EXISTING ROAD 	<table border="1"> <thead> <tr> <th>MK. NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3932</td> <td>16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE</td> </tr> <tr> <td>2</td> <td>1401</td> <td>16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO</td> </tr> <tr> <td>T1</td> <td>2</td> <td>TYPE-1</td> </tr> </tbody> </table>	MK. NO.	QTY.	DESCRIPTION	1	3932	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE	2	1401	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	T1	2	TYPE-1	<table border="1"> <thead> <tr> <th>DWG. NO.</th> <th>DESCRIPTION</th> <th>NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DWG. NO.	DESCRIPTION	NO.	DATE					<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION			
MK. NO.	QTY.	DESCRIPTION																											
1	3932	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE																											
2	1401	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO																											
T1	2	TYPE-1																											
DWG. NO.	DESCRIPTION	NO.	DATE																										
NO.	DATE	DESCRIPTION																											
<ul style="list-style-type: none"> UNDERGROUND COM. LINE EXISTING FENCE FIBER OPTIC COM. LINE RAILROAD OVERHEAD ELECTRIC UTILITY POLE PROPOSED BORE EROSION/SEDIMENT CONTROL BMP 	<ul style="list-style-type: none"> AVOIDANCE AREA WETLAND EASEMENT TEST LEAD VALVE SETTING MARKER POST 																												

CALL BEFORE YOU DIG

BOE PIPELINE PHASE II
SECTIONS 28 & 29, T150N, R95W
McKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

SCALE: HORIZ. = 200'
VERT. = 200'
1" = 200' feet

DRAWN BY: J. JACOBS DATE: 8/8/2016 CHECKED BY: D. DIONNE APPROVED BY: B. BESMER A.U. JOB NUMBER: 1713271 REVISIONS: 0 SHEETS: 10	
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P:\01\BakkenOilExpress\1713271- BOE Pipeline Phase II\Coord\Preliminary\Alignment\1713271BAS01.dwg

OWNERSHIP
 MYLES KUMMER
 SW1/4 160 ACRES & S1/2SE1/4 80 ACRES
 179.05 RODS

STATIONING
 199+00.00

PLAN

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

CLASS

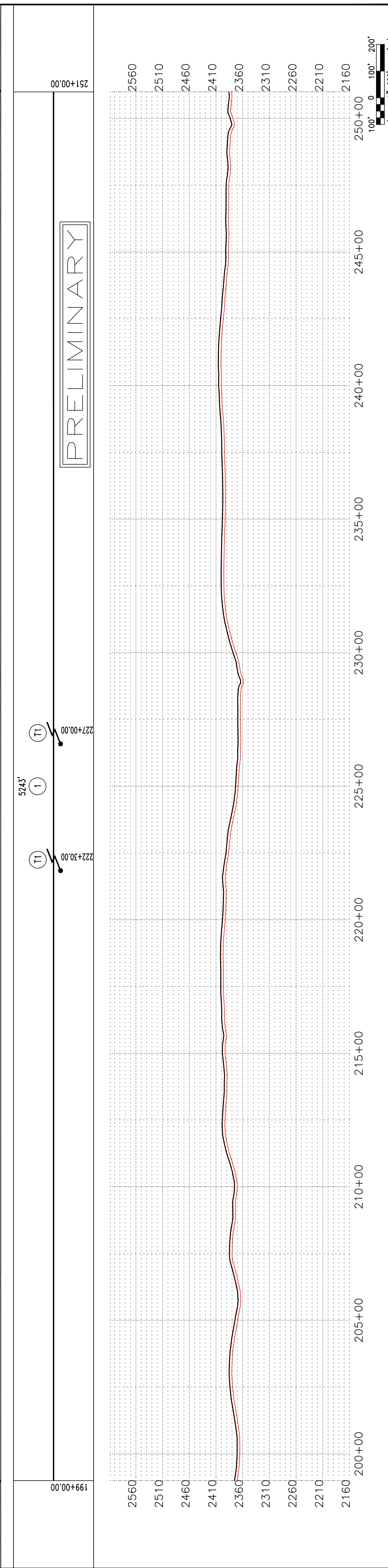
PIPE BAND

5243' (1) (T1)

222+30.00 (T1)

227+00.00 (T1)

PRELIMINARY



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	NO.	DATE	DESCRIPTION
	UNDERGROUND COM. LINE						
	EXISTING FENCE						
	FIBER OPTIC COM. LINE						
	RAILROAD EASEMENT						
	WATER LINE						
	FOREIGN PIPELINE						
	CO2 PIPELINE						
	EROSION/SEDIMENT CONTROL BMP						
	AVOIDANCE AREA						
	WETLAND						
	EASEMENT						
	TEST LEAD						
	VALVE SETTING						
	MARKER POST						

DWG. NO.	DESCRIPTION	NO.	DATE

SCALE:	NO.
1"=200'	11

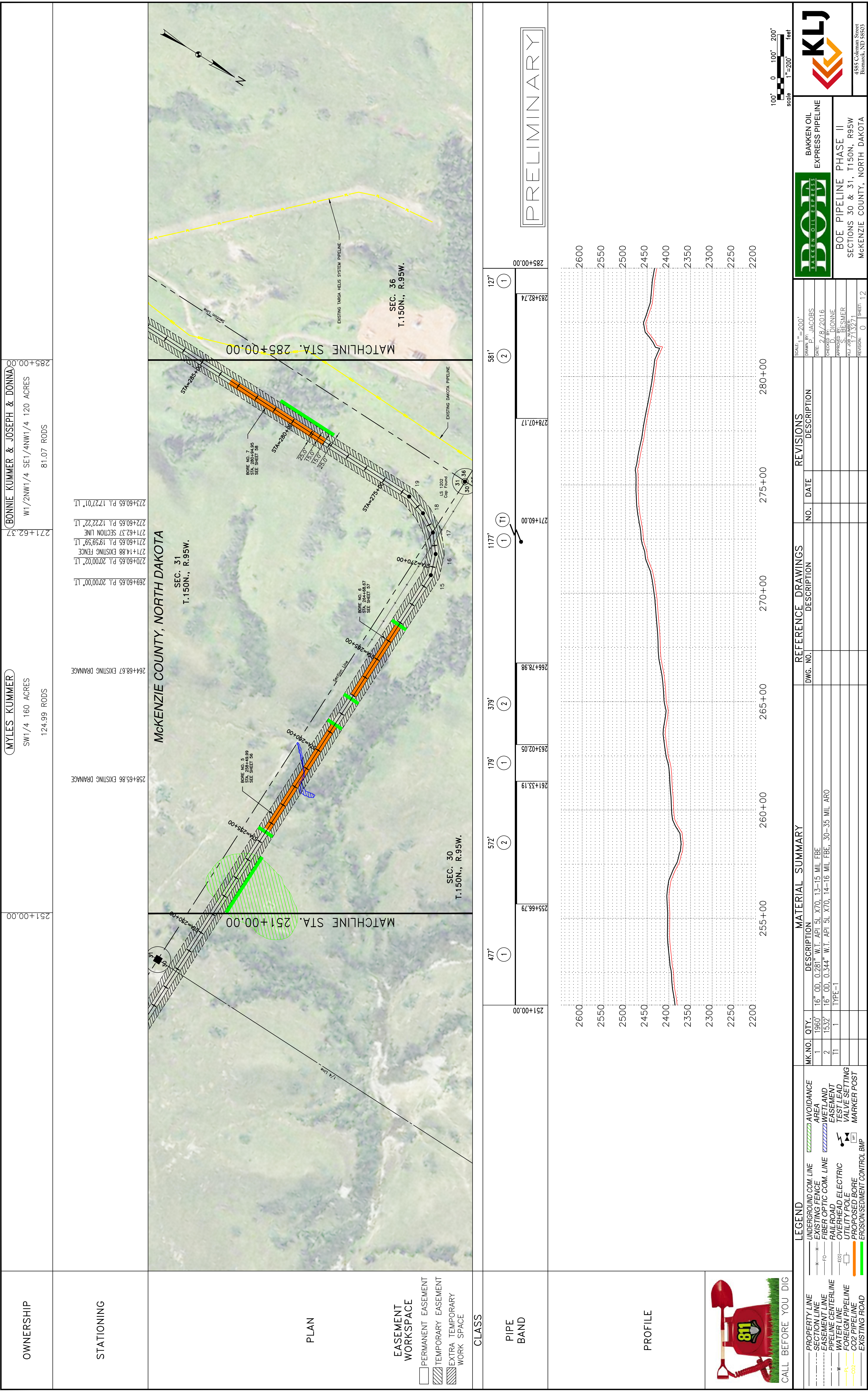
SCALE:	NO.
1"=200'	0

BOE PIPELINE PHASE II
 SECTIONS 29 & 30, T150N., R95W
 MCKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
 4585 Coleman Street
 Bismarck, ND 58503

DATE: 9/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BRESMER
 ALI JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 11



KLJ
 4585 Coleman Street
 Bismarck, ND 58503

BOE PIPELINE PHASE II
 SECTIONS 30 & 31, T150N, R95W
 MCKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

SCALE: 1" = 200'
 0 100' 200'
 1" = 200' feet

REVISIONS

NO.	DATE	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	1960'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	1532'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

LEGEND

SYMBOL	DESCRIPTION
---	UNDERGROUND COM. LINE
-x-x-	EXISTING FENCE
-FO-	FIBER OPTIC COM. LINE
-E-O-	OVERHEAD ELECTRIC
-U-P-	UTILITY POLE
-P-B-	PROPOSED BORE
-B-M-	EROSION/SEDIMENT CONTROL BMP
---	PROPERTY LINE
---	SECTION LINE
---	EASEMENT LINE
---	PIPELINE CENTERLINE
-W-	WATER LINE
-F-	FOREIGN PIPELINE
-CO2-	CO2 PIPELINE
-R-	EXISTING ROAD

LEGEND

SYMBOL	DESCRIPTION
---	AVOIDANCE AREA
---	WETLAND
---	EASEMENT
---	TEST LEAD
---	VALVE SETTING
---	MARKER POST

SCALE: 1" = 200'
 DRAWN BY: J. JACOBS
 DATE: 7/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: B. BRESMER
 KLU JOB NUMBER: 1713271
 REVISIONS: 0
 SHEETS: 12

P:\01\BakkenOil\express\1713271- BOE Pipeline Phase II\1713271BAS01.dwg

OWNERSHIP

(BONNIE KUMMER & JOSEPH & DONNA)
 W1/2NW1/4 SE1/4NW1/4 120 ACRES
 79.71 RODS

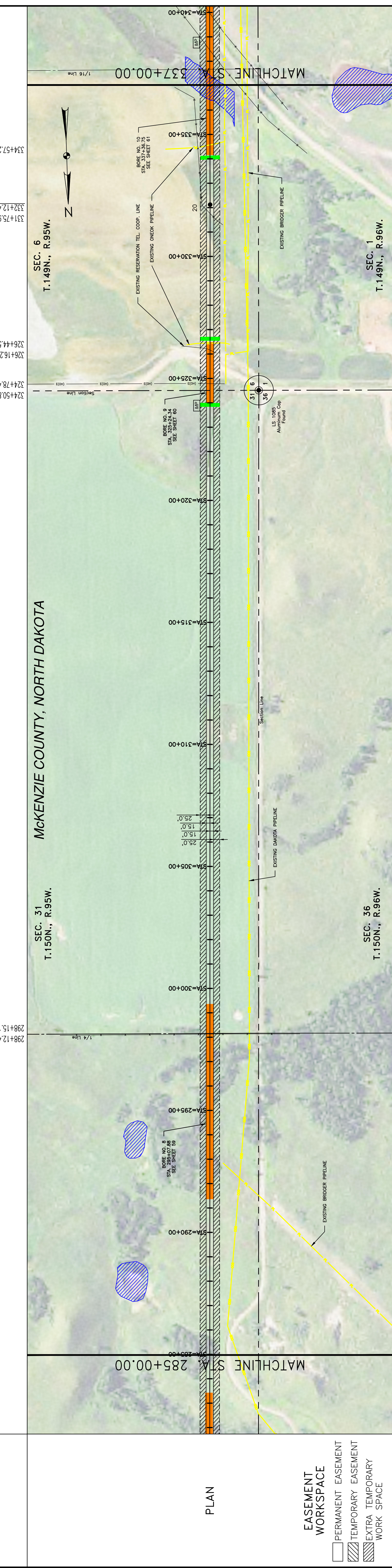
(CAMERON & JAN DODGE)
 SW1/4 160 ACRES
 159.74 RODS

(CAMERON & JAN DODGE)
 LOTS 3-4 & SW1/4NW1/4 EX PT IT 1133 96.98 ACRES
 75.70 RODS

STATIONING

285+00.00
 298+15.18
 298+12.43 EXISTING FENCE
 1/4 Line

324+50.87
 324+78.43 OVERHEAD POWER LINES
 326+16.24 FIBER OPTIC CABLE BURIED
 326+44.54 EXISTING PIPELINE
 331+75.98 EXISTING FENCE
 332+12.45 P.L. 0'08"33" LI
 334+57.20 EXISTING ONEOK PIPELINE
 337+00.00



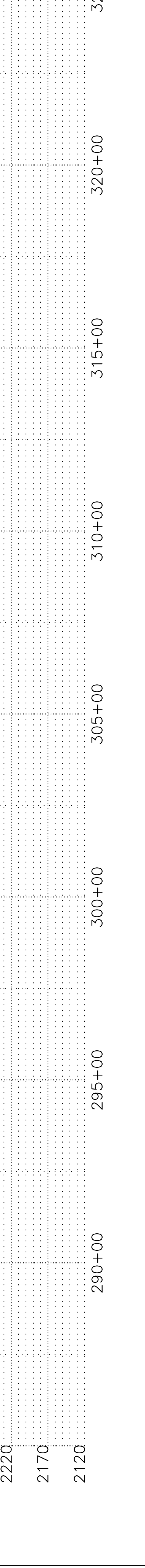
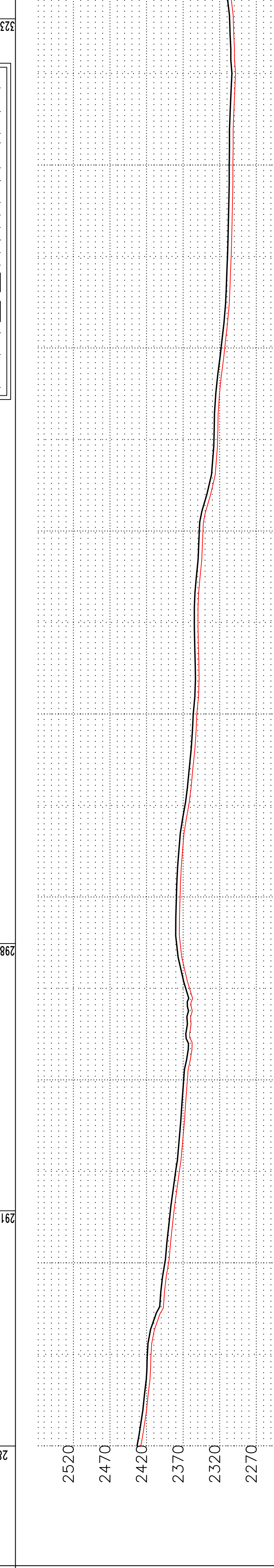
CLASS

653' (1) 735' (2) 249' (2) 777' (1) 287' (2)
 285+00.00 291+42.65 298+73.12 323+99.81 326+48.87 327+00.00 334+16.17 337+00.00

PIPE BAND

PRELIMINARY

PROFILE



LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	NO.	DATE	DESCRIPTION
---	UNDERGROUND COM. LINE						
-x-x-	EXISTING FENCE	1	4002	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE			
-o-o-	FIBER OPTIC COM. LINE	2	1271	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO			
-w-w-	WATER LINE	1	1	TYPE-1			
-e-e-	OVERHEAD ELECTRIC						
-u-u-	UTILITY POLE						
-p-p-	PROPOSED PIPELINE						
-c-c-	CO2 PIPELINE						
-s-s-	EXISTING ROAD						
---	AVOIDANCE AREA						
---	WETLAND						
---	EASEMENT						
---	TEST LEAD						
---	VALVE SETTING						
---	MARKER POST						
---	EROSION/SEDIMENT CONTROL BMP						

DRAWING INFORMATION	
SCALE: 1"=200'	DATE: 7/8/2016
DRAWN BY: JACOBBS	CHECKED BY: D. DIONNE
APPROVED BY: BESMER	DATE: 7/13/21
REVISIONS: 0	SHEETS: 13

PROJECT INFORMATION	
PROJECT: BAKKEN OIL EXPRESS PIPELINE	PHASE: BOE PIPELINE PHASE II
SECTION: SECTION 31, T150N, R95W & SECTION 6, T149N, R95W	COUNTY: MCKENZIE COUNTY, NORTH DAKOTA
4585 Coleman Street Bismarck, ND 58503	

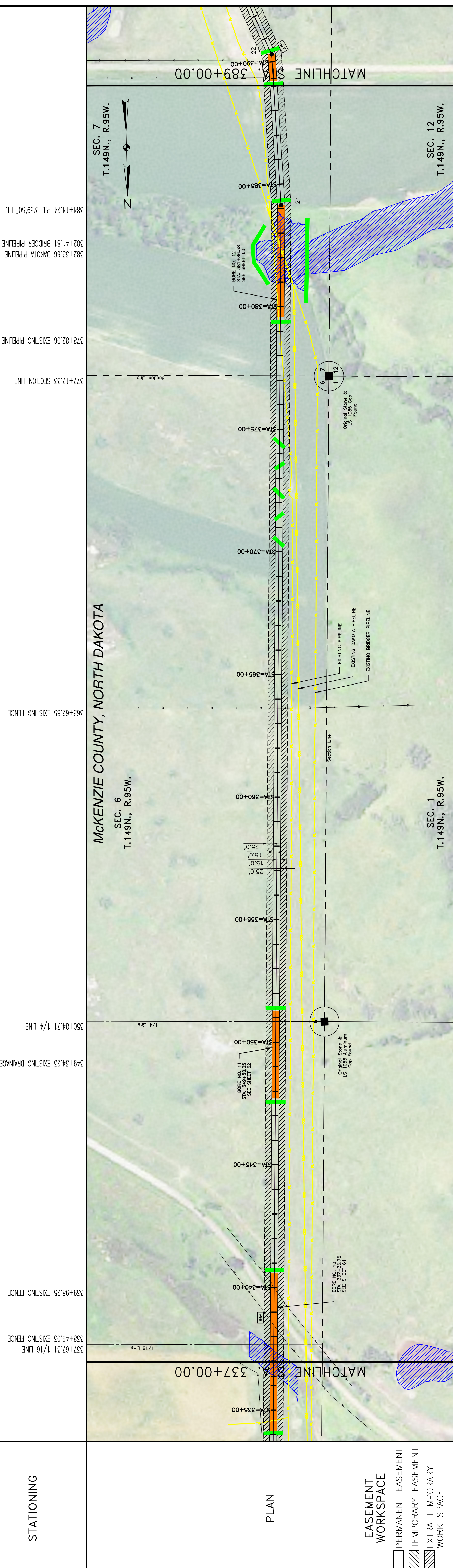
OWNERSHIP

JOHN & CLEO KIRKLAND
S1/2NW1/4 NW1/4SW1/4 NW1/4NW1/4 160 ACRES
71.66 RODS

STATIONING

CAMERON & JAN DODGE
LOTS 3-4 & SW1/4NW1/4 EX PT IT 1133 96.98 ACRES
243.47 RODS

337+00.00
337+67.31 1/16 LINE
338+46.03 EXISTING FENCE
339+98.25 EXISTING FENCE
349+34.23 EXISTING DRAINAGE
350+84.71 1/4 LINE
353+62.85 EXISTING FENCE
377+17.33 SECTION LINE
378+82.06 EXISTING PIPELINE
382+41.81 BRIDGER PIPELINE
382+33.66 DAKOTA PIPELINE
384+14.24 P.L. 359'50" LT
389+00.00



EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

CLASS

PIPE BAND

360' (2) 755' (1) 357' (2) 2850' (1) 456' (2) 502' (1) 577+00.00 (T1) 579+58.53 584+14.24 389+00.00 (T1)



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

BOE PIPELINE PHASE II
SECTIONS 6 & 7, T.149N., R.95W.
MCKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

DOT
D A K O T A
O I L
E X P R E S S

SCALE: HORIZ. = 200'
VERT. = 20'

DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: B. BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 14

4585 Coleman Street
Bismarck, ND 58503
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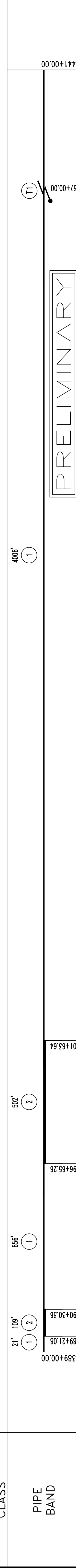
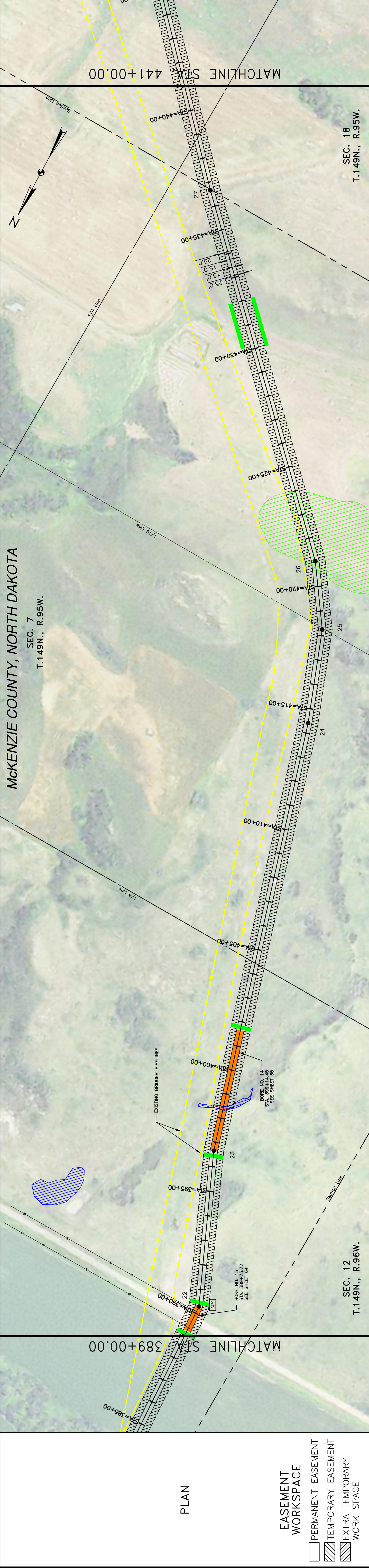
OWNERSHIP

JOHN & CLEO KIRKLAND
 S1/2NW1/4 NW1/4SW1/4 NW1/4NW1/4 160 ACRES & S1/2SE1/4 S1/2SW1/4 160 ACRES
 289.17 RODS

JOHN D & CLEO KIRKLAND
 NW1/4 160 ACRES
 NE1/4 160 ACRES
 25.99 RODS

STATIONING

389+00.00
 390+07.69 EXISTING FENCE
 390+30.36 P.L. 20'41'35" LT
 396+34.39 EXISTING FENCE
 396+65.26 P.L. 65'57" RT
 398+45.39 EXISTING DRAINAGE
 404+44.06 1/4 LNE
 414+41.29 P.L. 3'48"50" LT
 418+24.59 P.L. 14'22"57" LT
 418+31.81 1/16 LNE
 421+04.25 P.L. 10'01'32" LT
 436+71.23 SECTION LINE
 438+85.52 1/4 LNE
 441+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4683'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	611'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: HORIZ. = 200'
 VERT. = 200'
 scale 1" = 200' feet

CALL BEFORE YOU DIG

BOE PIPELINE PHASE II
 SECTIONS 7 & 18, T.149N., R.95W
 MCKENZIE COUNTY, NORTH DAKOTA

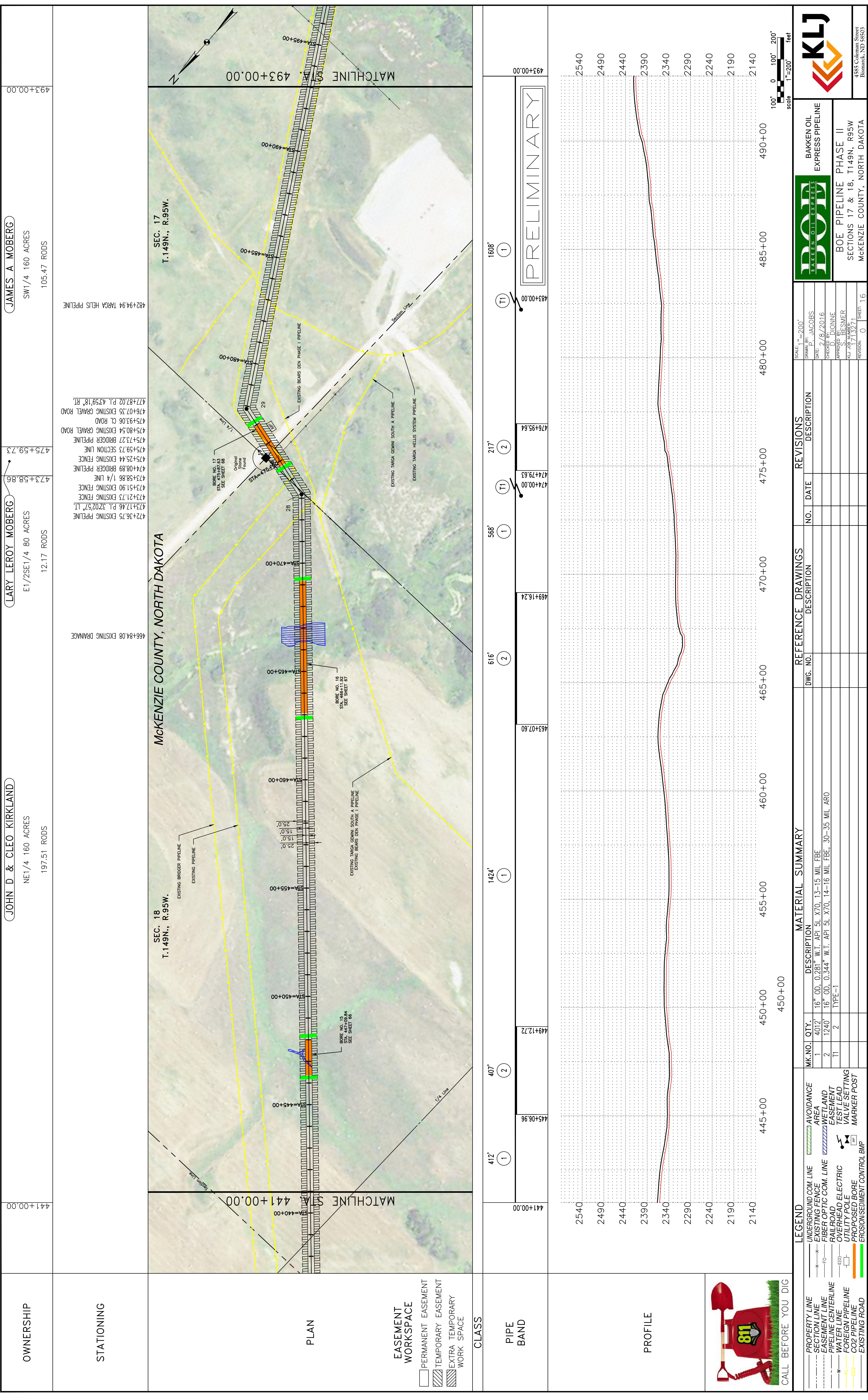
DOT
 DAKOTA OIL & ENERGY SERVICES

BAKKEN OIL EXPRESS PIPELINE

SCALE: HORIZ. = 200'
 VERT. = 200'
 scale 1" = 200' feet

DATE: 8/18/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: B. BESMER
 ALO JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 15

4585 Coleman Street
 Bismarck, ND 58503
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OWNERSHIP
 JOHN D & CLEO KIRKLAND NE1/4 160 ACRES 197.51 RODS
 LARY LEROY MOBERG E1/2SE1/4 80 ACRES 12.17 RODS
 JAMES A MOBERG SW1/4 160 ACRES 105.47 RODS

STATIONING
 441+00.00 445+00.00 450+00 455+00 460+00 465+00 470+00 475+00 480+00 485+00 490+00 493+00.00

PLAN
 SEC. 18 T.149N., R.95W.
 SEC. 17 T.149N., R.95W.
 McKENZIE COUNTY, NORTH DAKOTA
 EXISTING BRIDGE PIPELINE
 EXISTING PIPELINE
 EXISTING TARGA GEMIN SOUTH A PIPELINE
 EXISTING BEARS DEN PHASE I PIPELINE
 EXISTING TARGA HELLS SYSTEM PIPELINE
 BORNE NO. 15 STA. 445+00.00 SEE SHEET 86
 BORNE NO. 16 STA. 465+00.00 SEE SHEET 87
 BORNE NO. 17 STA. 485+00.00 SEE SHEET 88
 Original Station Found

EASEMENT WORKSPACE
 PERMANENT EASEMENT
 TEMPORARY EASEMENT
 EXTRA TEMPORARY WORK SPACE

CLASS
 PIPE BAND

PROFILE
 2540 2490 2440 2390 2340 2290 2240 2190 2140
 441+00.00 445+00.00 450+00 455+00 460+00 465+00 470+00 475+00 480+00 485+00 490+00 493+00.00

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE
469+16.24		2	
474+00.00		T1	
476+95.64		2	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4012	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1240	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	2	TYPE-1

LEGEND
 UNDERGROUND COM. LINE
 EXISTING FENCE
 FIBER OPTIC COM. LINE
 RAILROAD
 OVERHEAD ELECTRIC
 UTILITY POLE
 PROPOSED BORE
 EROSION/SEDIMENT CONTROL BMP
 PROPERTY LINE
 SECTION LINE
 EASEMENT LINE
 PIPELINE CENTERLINE
 WATER LINE
 FOREIGN PIPELINE
 CO2 PIPELINE
 EXISTING ROAD

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1"=200'
 DRAWN BY: JACOBS
 DATE: 8/18/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BESMER
 AUI JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 16

BOE PIPELINE PHASE II
 SECTIONS 17 & 18, T149N., R95W
 MCKENZIE COUNTY, NORTH DAKOTA

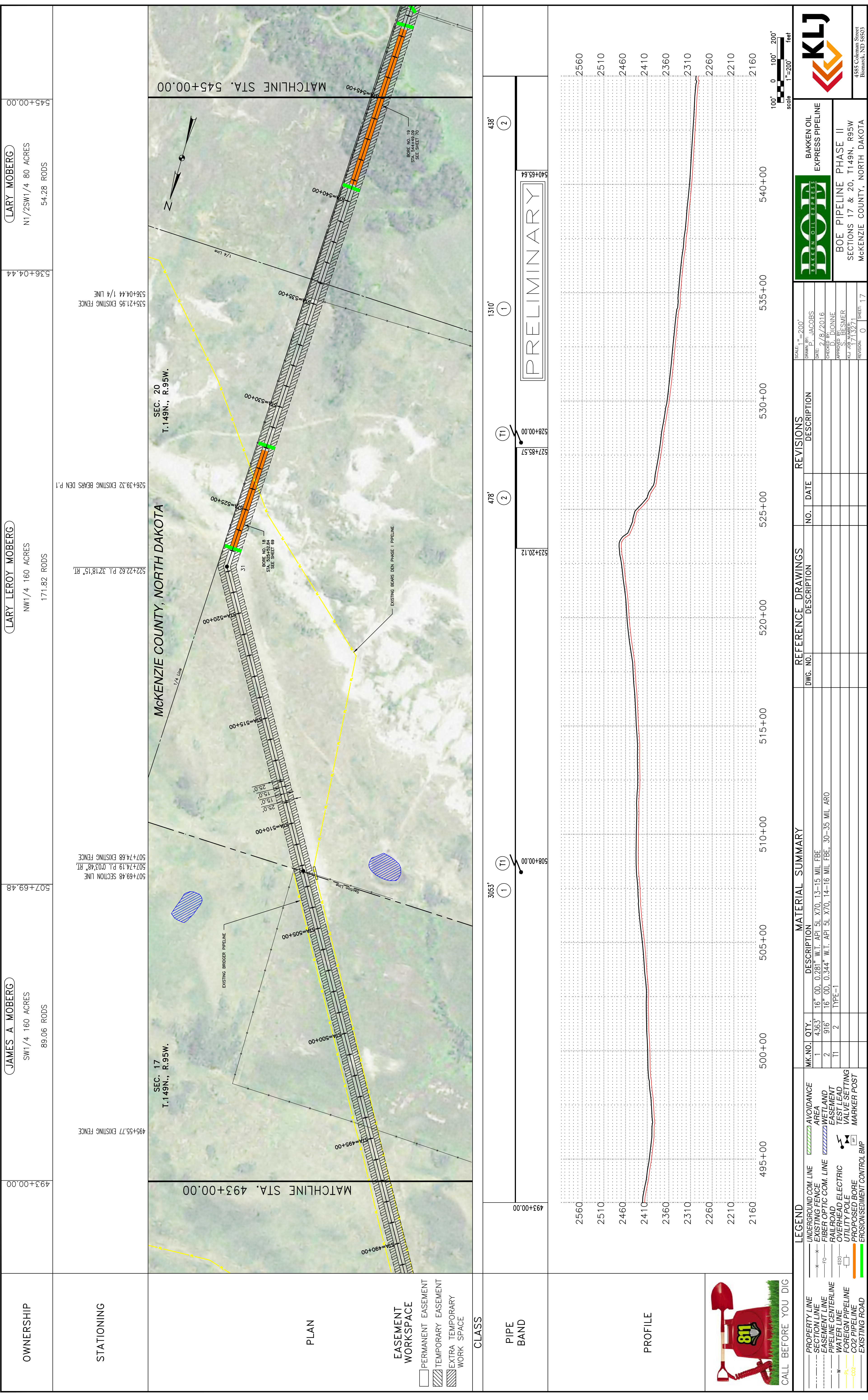
DOT
 DAKOTA OIL EXPRESS

KLJ
 4585 Coleman Street
 Bismarck, ND 58503

CALL BEFORE YOU DIG

811

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OWNERSHIP

JAMES A. MOBERG
SW1/4 160 ACRES
89.06 RODS

LARY LEROY MOBERG
NW1/4 160 ACRES
171.82 RODS

LARY MOBERG
N1/2SW1/4 80 ACRES
54.28 RODS

STATIONING

493+00.00

493+55.77 EXISTING FENCE

507+69.48

507+74.68 EXISTING FENCE
507+74.19 P.L. 003'48" RT.
507+69.48 SECTION LINE

526+39.32 EXISTING BEARS DEN P.1

526+22.62 P.L. 32'18"15" RT.

536+04.44

536+21.95 EXISTING FENCE
536+04.44 1/4 LINE

545+00.00

PLAN

SECTION 17
T.149N., R.95W.

SECTION 20
T.149N., R.95W.

McKENZIE COUNTY, NORTH DAKOTA

EXISTING BRIDGE PIPELINE

EXISTING BEARS DEN PHASE I PIPELINE

1/4 Line

31

BARCEL NO. 18
SEE SHEET 68

BARCEL NO. 18
SEE SHEET 69

BARCEL NO. 18
SEE SHEET 70

BARCEL NO. 18
SEE SHEET 71

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

CLASS

PIPE BAND

PRELIMINARY

493+00.00

508+00.00

527+85.57

528+00.00

540+65.64

3053'

478'

1310'

438'

PROFILE

2560

2510

2460

2410

2360

2310

2260

2210

2160

495+00

500+00

505+00

510+00

515+00

520+00

525+00

530+00

535+00

540+00

100' 0 100' 200' scale 1"=200' feet

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4363'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	916'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1"=200'

DRAWN BY: JACOBS

DATE: 8/18/2016

CHECKED BY: D. DIONNE

APPROVED BY: BESMER

AUT. JOB NUMBER: 1713271

REVISIONS: 0

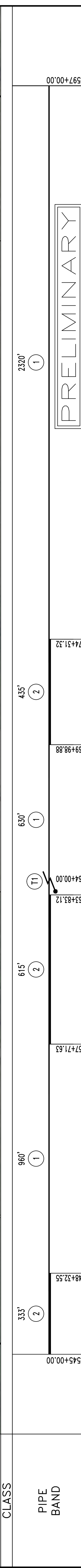
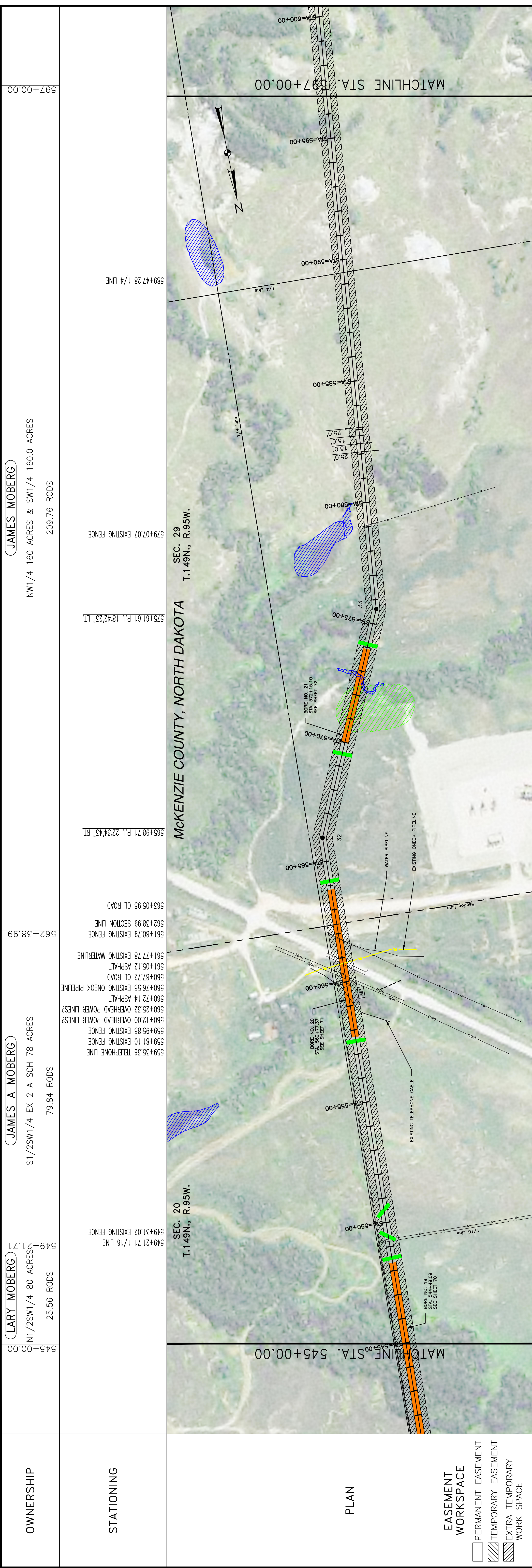
SHEETS: 17

BOE PIPELINE PHASE II
SECTIONS 17 & 20, T149N., R95W
McKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
4585 Coleman Street
Bismarck, ND 58503

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CLASS	PIPE BAND	REFERENCE DRAWINGS	REVISIONS
333' (2)	545+00.00	548+32.55	
615' (2)	557+71.63	563+83.12	
630' (1)	564+00.00	564+00.00	
435' (2)	569+98.88	574+31.32	
2320' (1)	597+00.00		

OWNERSHIP

LARY MOBERG
N1/2SW1/4 80 ACRES
25.56 RODS

JAMES A. MOBERG
S1/2SW1/4 EX 2 A SCH 78 ACRES
79.84 RODS

JAMES MOBERG
NW1/4 160 ACRES & SW1/4 160.0 ACRES
209.76 RODS

STATIONING

549+21.71 1/16 LINE

549+31.02 EXISTING FENCE

559+81.10 EXISTING FENCE

559+95.85 EXISTING FENCE

560+12.00 OVERHEAD POWER LINES?

560+25.32 OVERHEAD POWER LINES?

560+72.14 ASPHALT

560+76.56 EXISTING ONECK PIPELINE

560+87.72 CL ROAD

561+05.12 ASPHALT

561+77.78 EXISTING WATERLINE

561+80.79 EXISTING FENCE

562+38.99 SECTION LINE

563+05.95 CL ROAD

564+00.00

564+31.32

569+98.88

574+31.32

597+00.00

McKENZIE COUNTY, NORTH DAKOTA

SEC. 20
T. 149N., R. 95W.

SEC. 29
T. 149N., R. 95W.

PLAN

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

PROFILE

CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3910'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1363'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1"=200'

SCALE: 1"=200'

SCALE: 1"=200'

BOE PIPELINE PHASE II

SECTIONS 20 & 29, T149N, R95W

McKENZIE COUNTY, NORTH DAKOTA

DOT

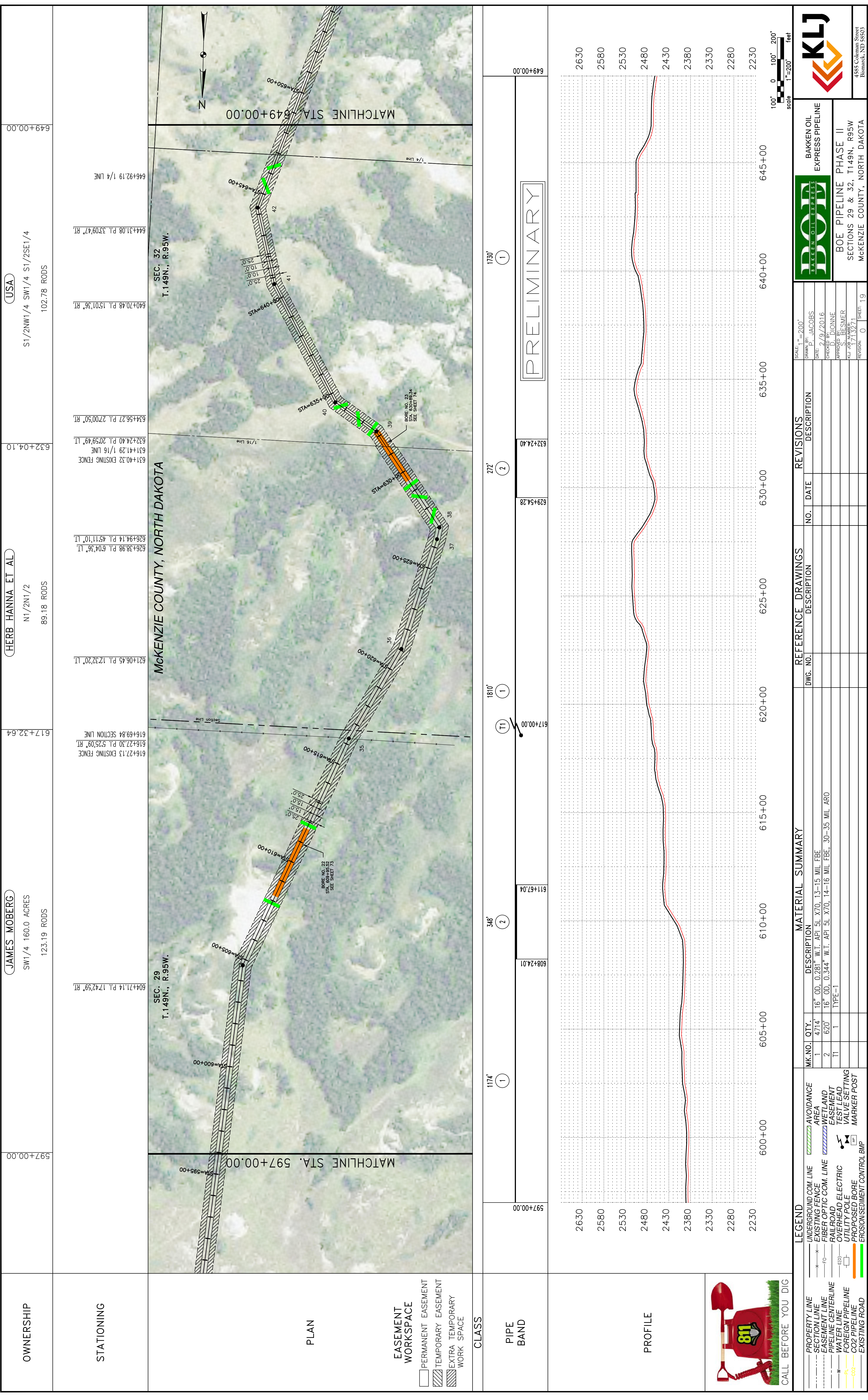
BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

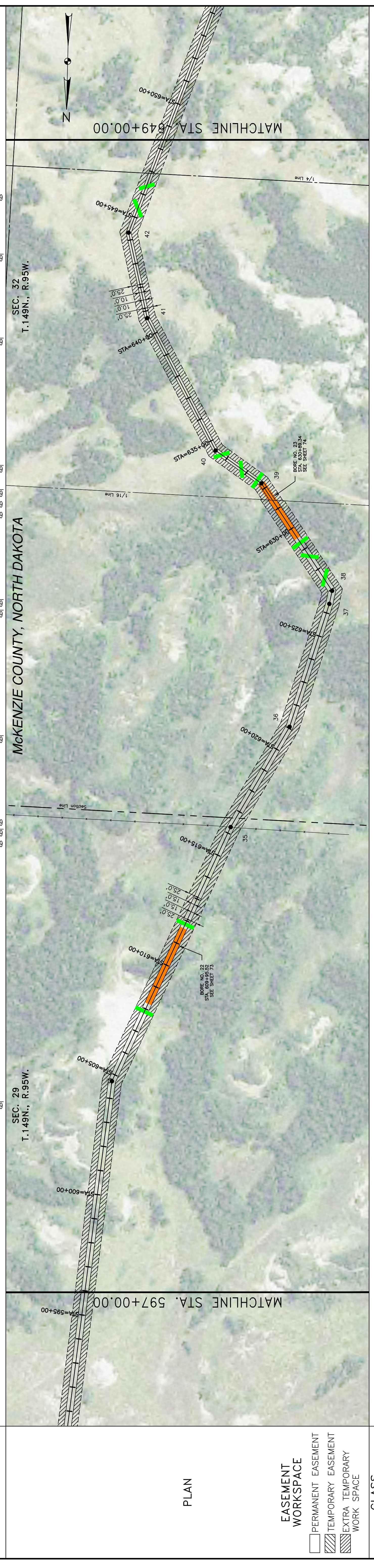
KLJ

4585 Coleman Street
Bismarck, ND 58503

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OWNERSHIP	(JAMES MOBERG)	(USA)
	SW1/4 160.0 ACRES 123.19 RODS	S1/2NW1/4 SW1/4 S1/2SE1/4 102.78 RODS
STATIONING	597+00.00	649+00.00
	617+32.64	632+04.10
STATIONING	611+67.04	632+24.40
	617+32.64	632+04.10



CLASS

1174' ①

346' ②

1810' ①

272' ②

1730' ①

611+67.04

608+24.01

617+00.00

620+00

625+00

630+00

635+00

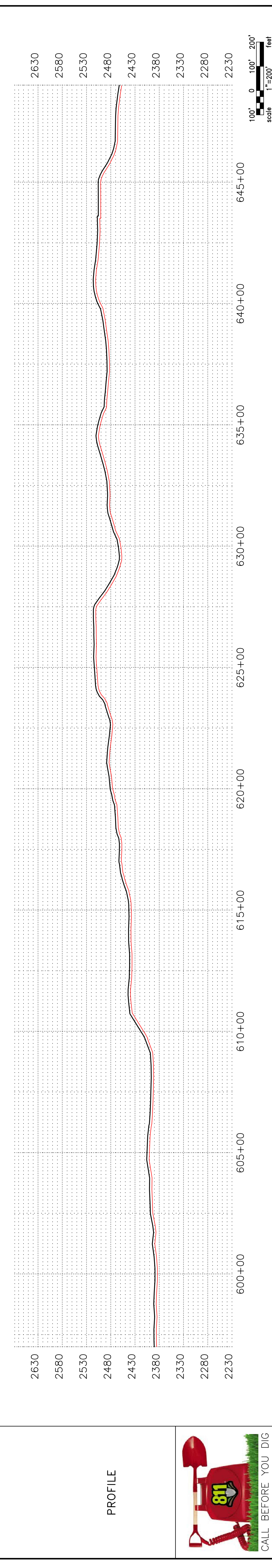
640+00

645+00

649+00.00

PIPE BAND

PRELIMINARY



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4714	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	620	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: H=200'
V=200'

DATE: 9/20/16

DRAWN BY: JACOBS

CHECKED BY: D. DIONNE

APPROVED BY: BESMER

AU. JOB NUMBER: 1713271

REVISIONS: 0

SHEETS: 19

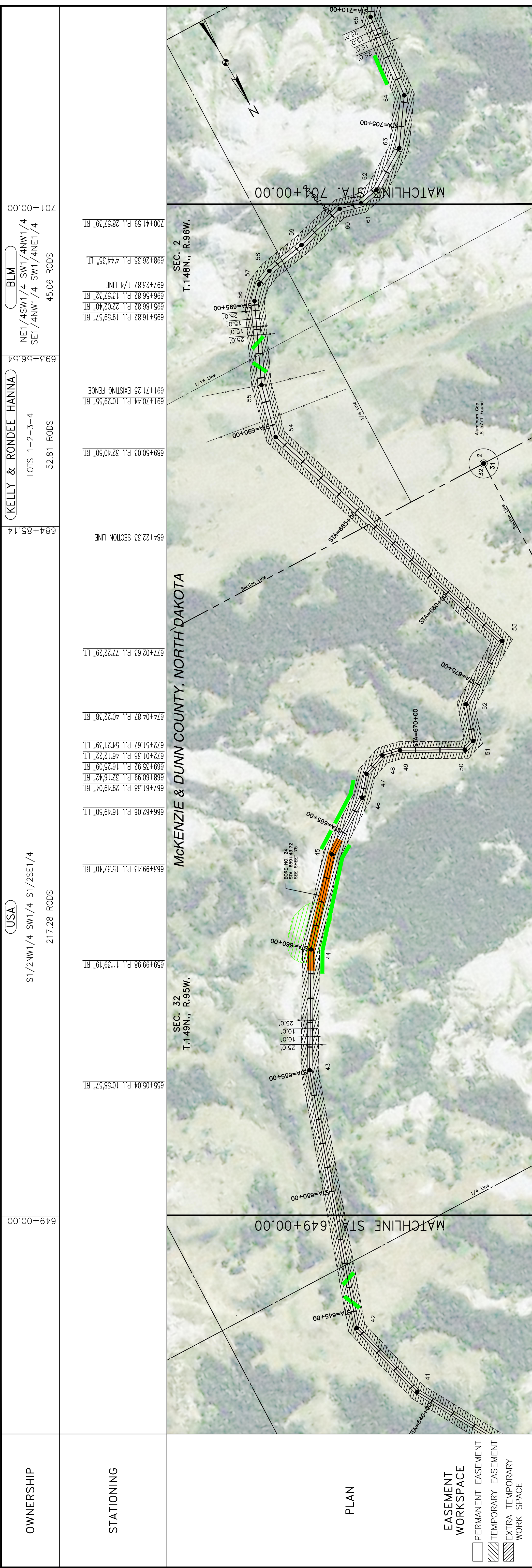
BOE PIPELINE PHASE II
SECTIONS 29 & 32, T149N., R95W
McKENZIE COUNTY, NORTH DAKOTA

DOT
D A K O T A
O I L & E X P R E S S

BAKKEN OIL EXPRESS PIPELINE

KLJ
4585 Coleman Street
Bismarck, ND 58503
© KLJ, 2016





OWNERSHIP

USA S1/2NW1/4 SW1/4 S1/2SE1/4 217.28 RODS

KELLY & RONDEE HANNA LOTS 1-2-3-4 52.81 RODS

BLM NE1/4SW1/4 SW1/4NW1/4 SE1/4NW1/4 SW1/4NE1/4 45.06 RODS

STATIONING

649+00.00 655+00.00 660+00.00 665+00.00 670+00.00 675+00.00 680+00.00 685+00.00 690+00.00 695+00.00 700+00.00 701+00.00

PLAN

SECTION 32 T.149N., R.95W. SECTION 2 T.148N., R.96W.

MATCHLINE STA. 649+00.00 MATCHLINE STA. 701+00.00

EASEMENT WORKSPACE

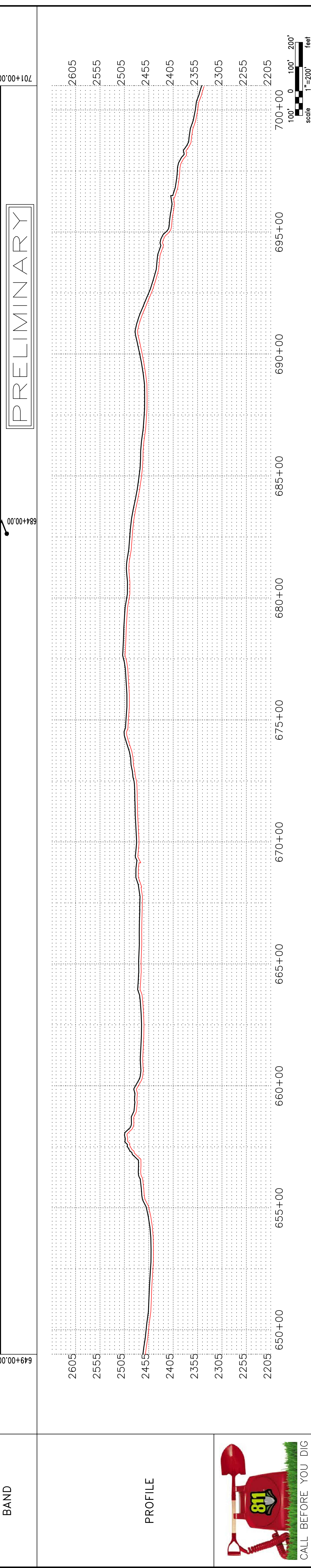
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

CLASS

5342' (1)

PIPE BAND

PRELIMINARY



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5342'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE TYPE-1
T1	1	

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
SECTION 32, T149N, R95W & SECTION 2, T148N, R96W
MCKENZIE & DUNN COUNTY, NORTH DAKOTA

DOT
D.A.K.K.E.N. O.I.L. E.X.P.R.E.S.S.

KLJ
KLEINFELDER ASSOCIATES, INC.

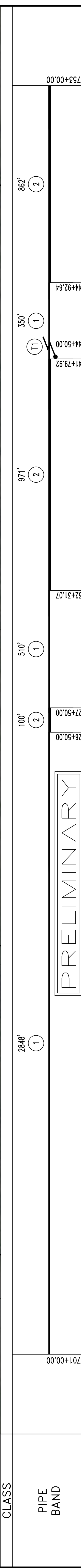
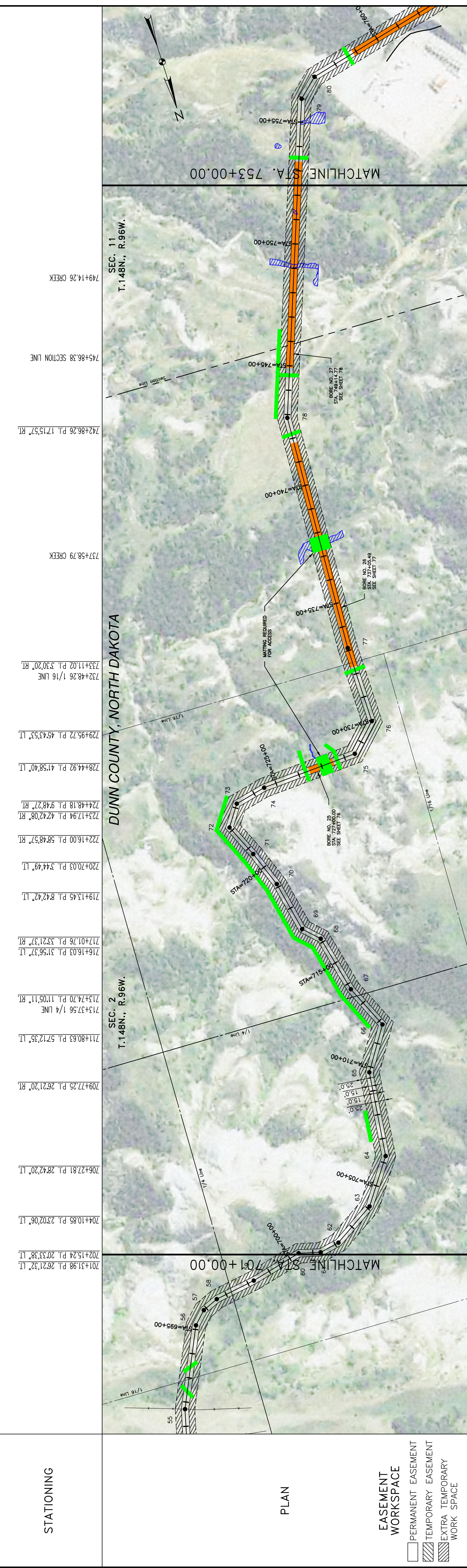
4585 Coleman Street
Bismarck, ND 58503

SCALE: HORIZ. = 200' VERT. = 20'
DRAWN BY: P. JACOBS
DATE: 9/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: B. SMITH
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 20

P:\01\BakkenOil\express\1713271- BOE Pipeline Phase II\Pre\Pre\Alignment\1713271BAS01.dwg

CALL BEFORE YOU DIG

OWNERSHIP	NE1/4SW1/4 SW1/4NW1/4 SE1/4NW1/4 SW1/4NE1/4 190.80 RODS	(BLM)	701+00.00	701+31.98 P.L. 2621.32" LT 702+15.24 P.L. 2033.38" RT 704+10.85 P.L. 2302.06" LT 706+27.81 P.L. 2842.20" LT 709+77.25 P.L. 2621.20" LT 711+80.63 P.L. 5712.35" LT 713+37.56 P.L. 1105.11" RT 716+16.03 P.L. 3156.37" LT 717+01.76 P.L. 3321.37" RT 719+13.45 P.L. 8442.42" LT 720+70.03 P.L. 3444.49" LT 722+16.00 P.L. 5848.57" RT 723+17.94 P.L. 4242.08" RT 724+48.18 P.L. 9482.27" RT 728+44.92 P.L. 4158.40" LT 729+95.72 P.L. 4543.53" LT 732+48.26 P.L. 1716 LINE	(WILLIAM JORGENSEN)	732+48.26	745+86.38	745+86.38	753+00.00
STATIONING									



CLASS	2848' (1)	510' (1)	72+31.07	732+31.07	741+79.92	744+50.00	744+92.64	753+00.00
PIPE BAND								

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT TEST LEAD
- VALVE SETTING
- MARKER POST

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3708	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1933	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	1	TYPE-1

SCALE: 1" = 200'

SCALE: 1" = 200'

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT TEST LEAD
- VALVE SETTING
- MARKER POST

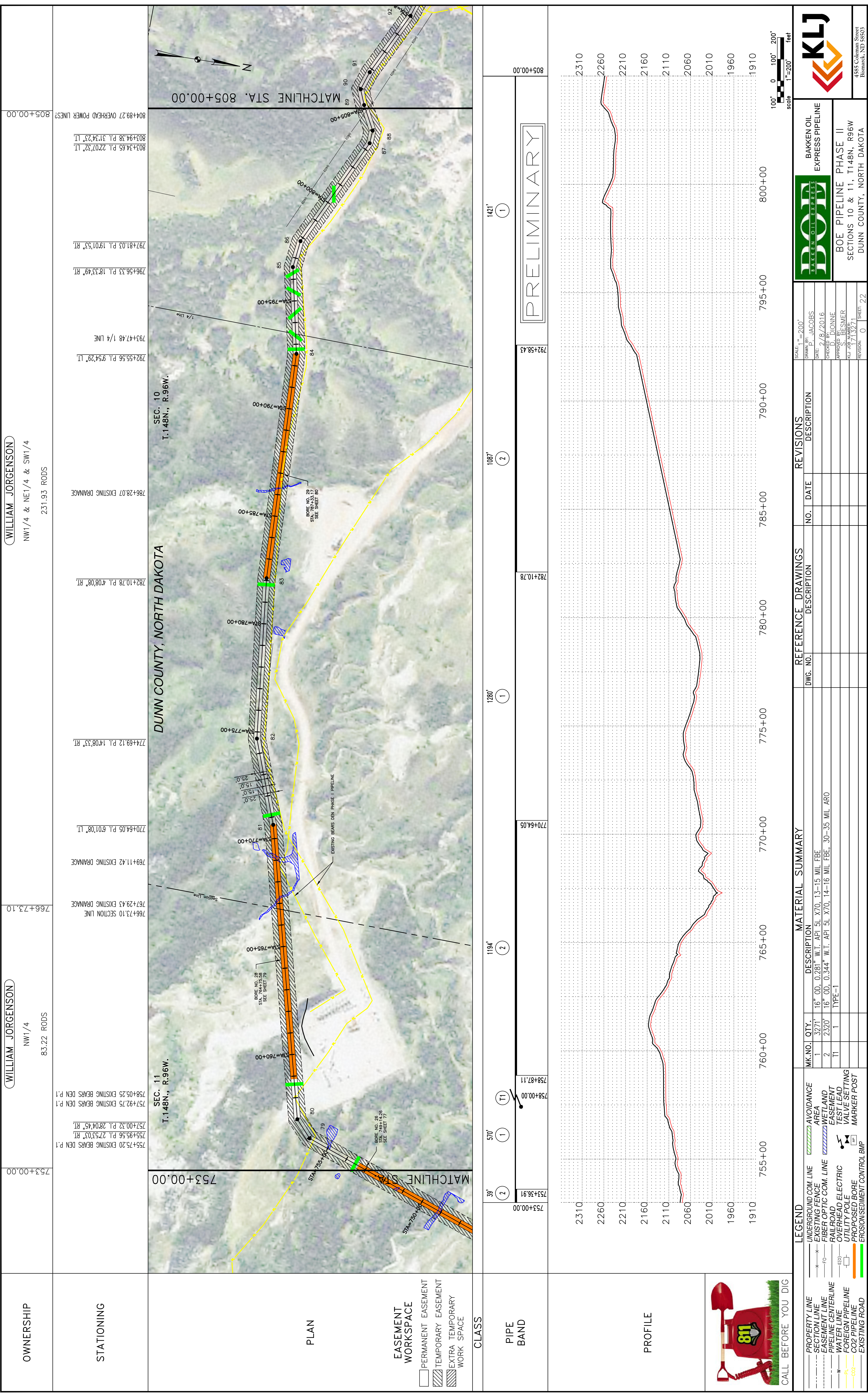
CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT TEST LEAD
- VALVE SETTING
- MARKER POST

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
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- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT TEST LEAD
- VALVE SETTING
- MARKER POST



WILLIAM JORGENSEN
NW1/4 & NE1/4 & SW1/4
231.93 RODS

WILLIAM JORGENSEN
NW1/4
83.22 RODS

STATIONING

753+00.00 753+36.91 758+00.00 758+87.11 770+64.05 782+10.78 792+58.43 805+00.00

PLAN

SEC. 11 T.148N., R.96W.
SEC. 10 T.148N., R.96W.

DUNN COUNTY, NORTH DAKOTA

755+75.20 EXISTING BEARS DEN P.1
757+00.32 P.L. 28'04'45" RT.
758+05.25 EXISTING BEARS DEN P.1
757+92.75 EXISTING BEARS DEN P.1

766+73.10 SECTION LINE
767+29.43 EXISTING DRAINAGE
769+11.42 EXISTING DRAINAGE
770+64.05 P.L. 6'01'08" LT.
774+69.12 P.L. 14'08'33" RT.

792+10.78 P.L. 4'08'08" RT.
792+55.56 P.L. 9'54'29" LT.
793+47.48 1/4 LINE

796+56.33 P.L. 18'33'49" RT.
797+81.03 P.L. 19'01'53" RT.

803+34.65 P.L. 22'07'32" LT.
803+94.38 P.L. 31'34'23" LT.
804+89.27 OVERHEAD POWER LINES?

PROFILE

2310 2260 2210 2160 2110 2060 2010 1960 1910

755+00 760+00 765+00 770+00 775+00 780+00 785+00 790+00 795+00 800+00 805+00.00

CLASS

PIPE BAND

1280' 1194' 570' 39' 1421' 1087'

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3271	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	2320	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

CALL BEFORE YOU DIG

811

BOE PIPELINE PHASE II
SECTIONS 10 & 11, T148N., R96W
DUNN COUNTY, NORTH DAKOTA

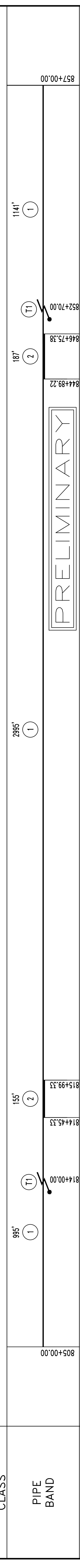
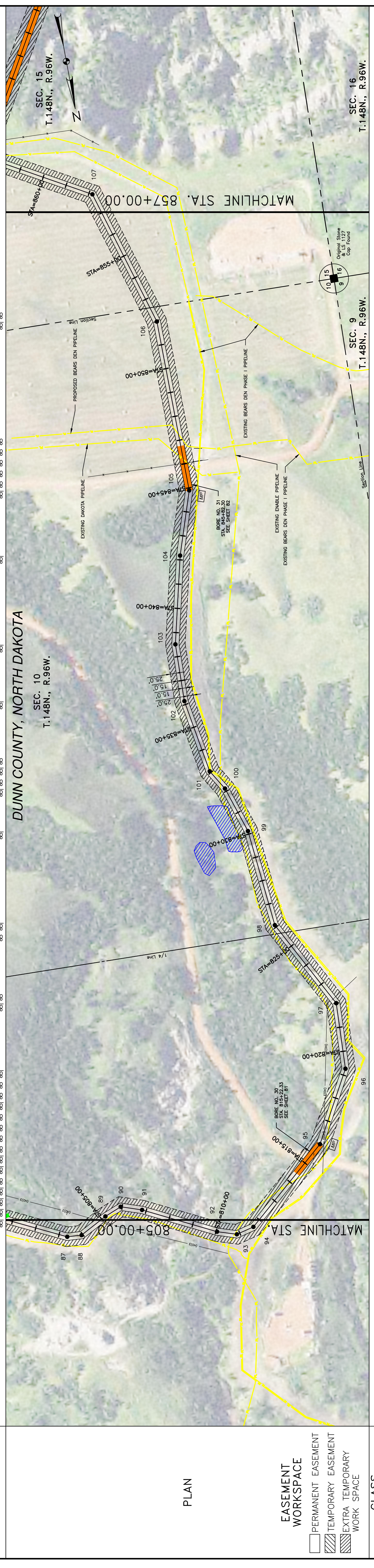
DOT
D A K K E N O I L E X P R E S S

SCALE: HORIZ. = 200'
VERT. = 200'
1" = 200' feet

DATE: 8/8/2016
DRAWN BY: J. JACOBS
CHECKED BY: D. DIONNE
APPROVED BY: B. BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 22

4585 Coleman Street
Bismarck, ND 58503
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OWNERSHIP	WILLIAM JORGENSEN NW1/4 & NE1/4 & SW1/4 288.56 RODS	WILLIAM JORGENSEN NW1/4 & N1/2SW1/4 LOTS 26.59 RODS	
	805+00.00	852+61.30	857+00.00
STATIONING	805+18.95 P.L. 5.50'41" RT.	822+21.68 OVERHEAD POWER LINES?	846+18.45 ONEOK GAS PIPELINE
	806+82.75 P.L. 7.47'49" RT.	825+67.85 1/4 LANE	845+82.94 EXISTING GRAVEL ROAD
PLAN	807+00.00 MATCHLINE STA. 803+00.00	822+00.32 P.L. 30'12'30" LT.	844+89.22 P.L. 18'46'28" LT.
	808+00.00	822+21.68 OVERHEAD POWER LINES?	845+78.51 CL ROAD
	809+00.00	825+67.85 1/4 LANE	845+82.94 EXISTING GRAVEL ROAD
	810+00.00	826+09.67 P.L. 22'17'44" RT.	846+02.92 EXISTING FENCE
	811+00.00	829+12.75 P.L. 12'30'10" LT.	846+18.45 ONEOK GAS PIPELINE
	812+00.00	830+12.75 P.L. 12'30'10" LT.	847+00.00 MATCHLINE STA. 857+00.00
	813+00.00	832+40.81 ENABLE PIPELINE	
	814+00.00	833+07.12 P.L. 21'39'44" RT.	
	815+00.00	833+11.34 EXISTING BEARS DEN P.1	
	816+00.00	836+14.65 P.L. 10'48'40" RT.	
	817+00.00	838+51.49 P.L. 12'04'48" RT.	
	818+00.00	842+17.89 P.L. 4'51'50" RT.	
	819+00.00	844+89.22 P.L. 18'46'28" LT.	
	820+00.00	845+78.51 CL ROAD	
	821+00.00	845+82.94 EXISTING GRAVEL ROAD	



CLASS	995' (1)	155' (2)	187' (2)	1141' (1)
	805+00.00	814+45.33	815+99.33	857+00.00
PIPE BAND	(T1)	(T1)	(T1)	(T1)
	814+00.00	814+45.33	814+89.22	852+70.00
PROFILE	2425	2375	2325	2275
	2225	2175	2125	2075
	2025	810+00	815+00	820+00
		825+00	830+00	835+00
		840+00	845+00	850+00
		855+00		

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5131'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	342'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

SCALE: HORIZ. = 200'
VERT. = 200'
scale 1" = 200' feet

0 100' 200'

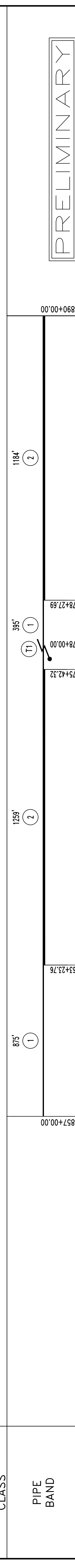
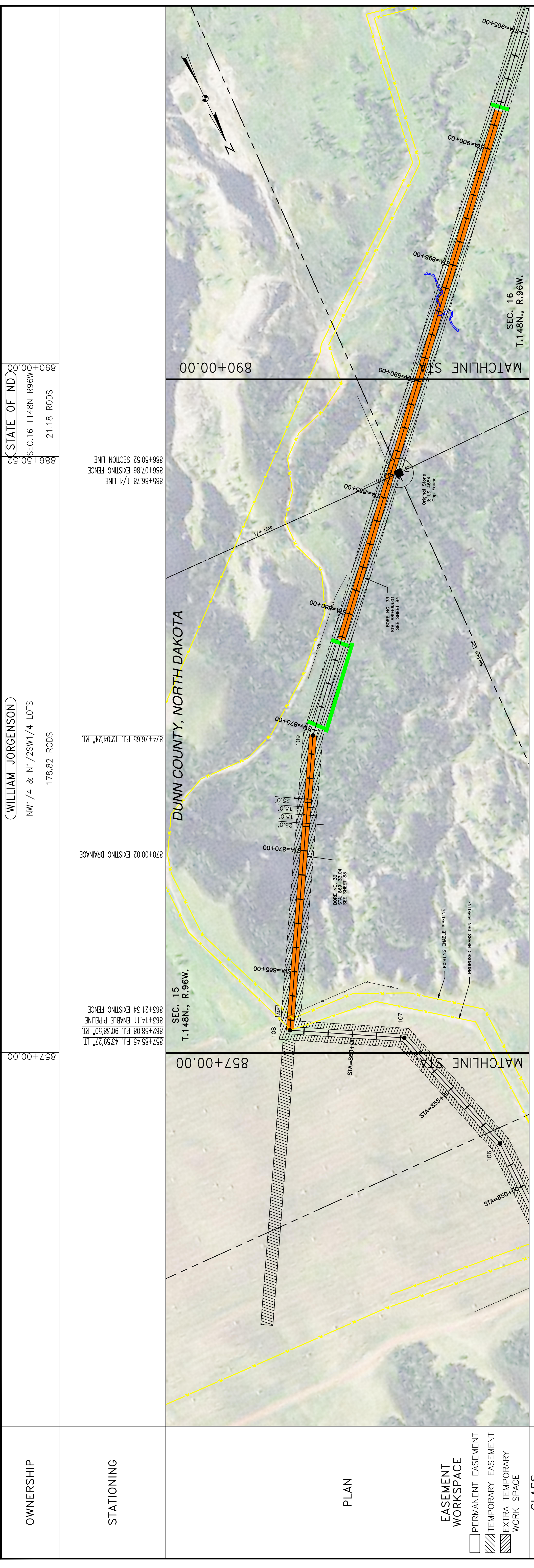
CALL BEFORE YOU DIG

DOT
Dakota Oil & Gas

BAKKEN OIL EXPRESS PIPELINE
BOE PIPELINE PHASE II
SECTIONS 10 & 15, T148N, R96W
DUNN COUNTY, NORTH DAKOTA

SCALE: HORIZ. = 200'
VERT. = 200'
DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 23

BAKKEN OIL EXPRESS PIPELINE
4585 Coleman Street
Bismarck, ND 58503
© KJL 2016



MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		
MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE
1	1270'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE				
2	2443'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO				
T1	1	TYPE-1				

LEGEND	LEGEND
PROPERTY LINE	UNDERGROUND COM. LINE
SECTION LINE	EXISTING FENCE
EASEMENT LINE	FIBER OPTIC COM. LINE
PIPELINE CENTERLINE	RAILROAD
WATER LINE	OVERHEAD ELECTRIC
FOREIGN PIPELINE	UTILITY POLE
CO2 PIPELINE	PROPOSED BORE
EXISTING ROAD	EROSION/SEDIMENT CONTROL BMP
	MARKER POST

OWNERSHIP

WILLIAM JORGENSEN
NW1/4 & N1/2SW1/4 LOTS
178.82 RODS

STATIONING

857+00.00 870+00.02 EXISTING DRAINAGE 874+76.63 P.L. 1204'24" RI. 886+07.86 1/4 LINE 886+50.52 SECTION LINE 890+00.00

PLAN

SEC. 15 T.148N., R.96W.
SEC. 16 T.148N., R.96W.

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

CLASS

PIPE BAND

PROFILE

SCALE: 1" = 200'

100' 0 100' 200' feet

scale 1" = 200'

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST

REVISIONS

NO.	DATE	DESCRIPTION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	1270'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	2443'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

BOE PIPELINE PHASE II

SECTIONS 15 & 16, T148N., R96W

DUNN COUNTY, NORTH DAKOTA

DOT

BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

STATE OF ND

SEC. 16 T148N R96W

21.18 RODS

KLJ

4585 Coleman Street
Bismarck, ND 58503

© KLJ 2016

JOSEPH & DARCI SCHELLER
 LOTS 2-3-4-6 & S1/2NE1/4 LOT1
 147.28 RODS

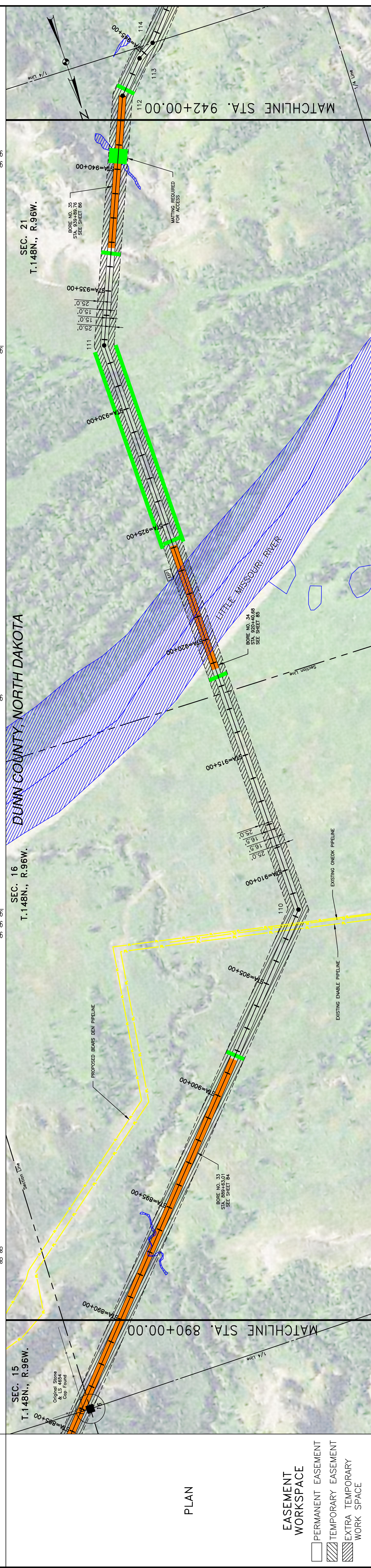
STATE OF ND
 SEC.16 T148N R96W
 167.87 RODS

OWNERSHIP

942+00.00
 940+40.76 EXISTING DRAINAGE
 940+54.08 EXISTING DRAINAGE
 932+76.12 P.L. 23'13'29" RT.
 917+69.87 SECTION LINE

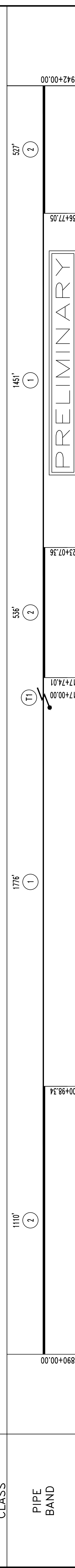
907+39.42 ENABLE PIPELINE
 907+59.47 EXISTING ONEOK PIPELINE
 908+30.56 P.L. 42'25'09" LT.
 892+84.79 EXISTING DRAINAGE
 892+90.80 EXISTING DRAINAGE

STATIONING



PLAN

- EASEMENT WORKSPACE
- PERMANENT EASEMENT
 - TEMPORARY EASEMENT
 - EXTRA TEMPORARY WORK SPACE



PROFILE

CLASS	PIPE BAND	NO.	DATE	DESCRIPTION
1110'	2	556'	2	917+74.01
1776'	1	556'	2	923+07.36
1451'	1	556'	2	936+77.05
527'	2	556'	2	942+00.00

CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3227	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	2173	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3227	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	2173	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

BOE PIPELINE PHASE II
 SECTIONS 16 & 21, T148N, R96W
 DUNN COUNTY, NORTH DAKOTA

DOT
 DAKOTA OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

SCALE: HORIZ. = 200'
 VERT. = 200'
 scale 1"=200'

BRNWA: P. JACOBS
 DATE: 2/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: B. SMER
 AUL JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 25

4585 Coleman Street
 Bismarck, ND 58503
 © KJL 2016

OWNERSHIP: (BLM) SE1/4 130.12 RODS

STATIONING: 942+00.00 to 967+00.00

JOSEPH & DARCI SCHEITLER S1/2NE1/4 LOT 1 21.40 RODS

945+53.09

945+53.09 S1/2NE1/4 LOT 1

943+02.48 P.L. 20'06"08" RT.

944+70.60 P.L. 15'48"19" RT.

945+53.09 P.L. 17'23"40" LT.

947+82.36 CL ROAD

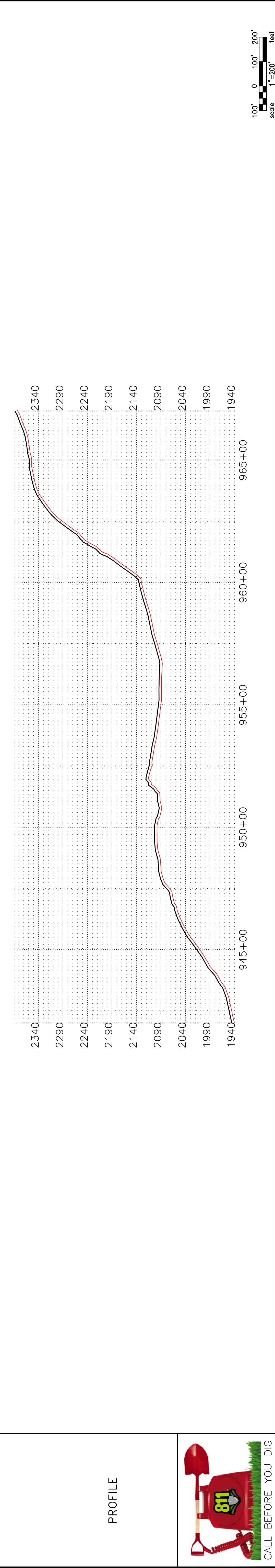
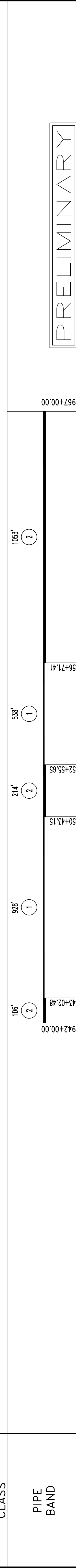
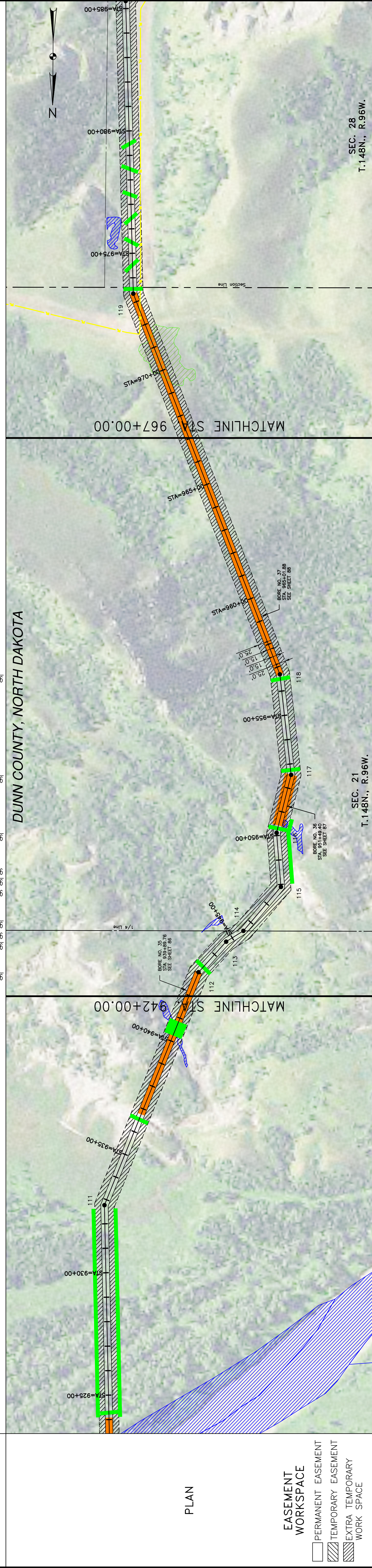
947+89.93 P.L. 45'03"58" LT.

947+99.15 CL ROAD

950+11.40 P.L. 18'35"29" RT.

952+55.65 P.L. 20'25"22" LT.

956+68.72 P.L. 14'40"16" LT.



CALL BEFORE YOU DIG

811

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	1466'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1373'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

MATERIAL SUMMARY

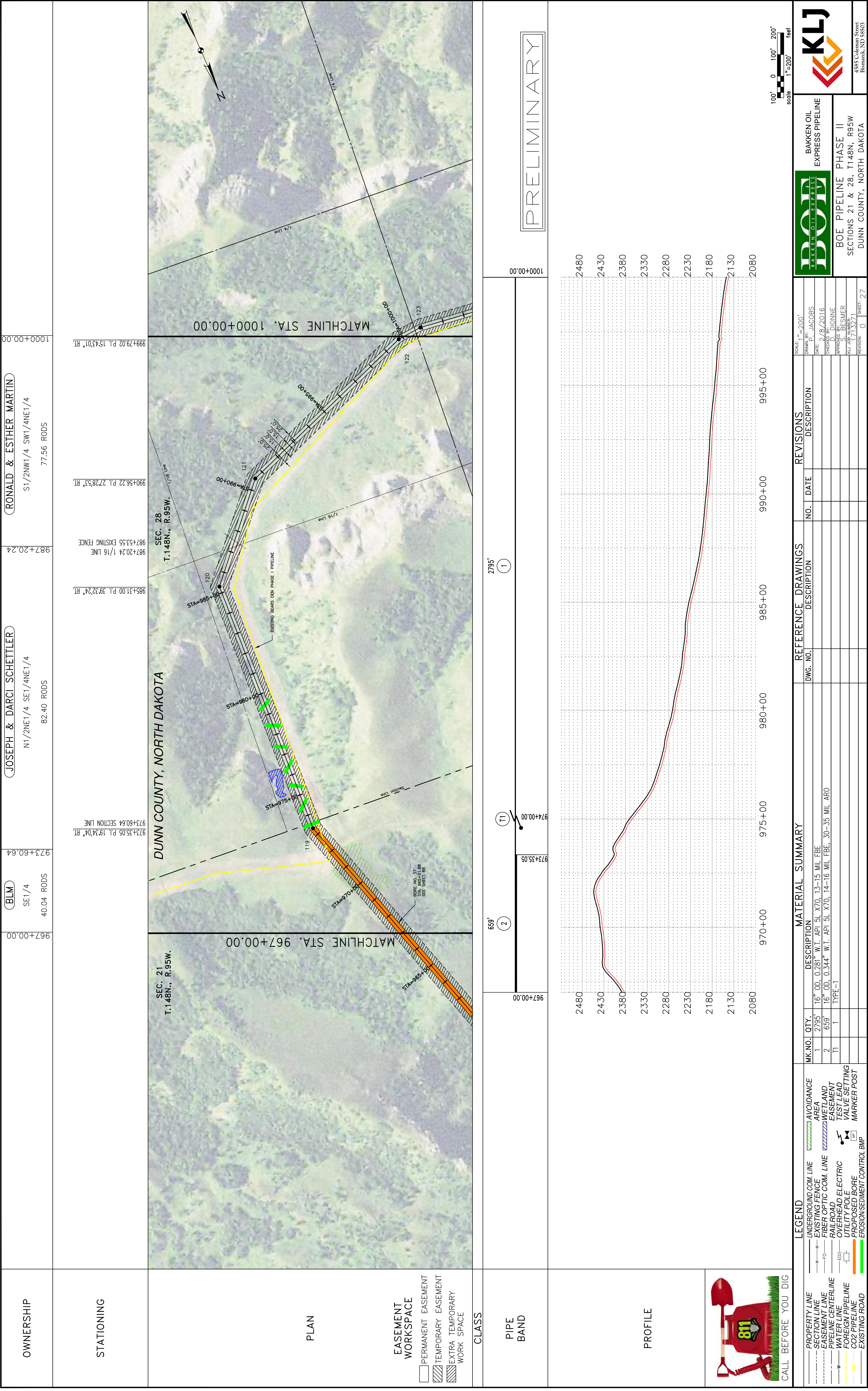
SCALE: HORIZ. = 200'
VERT. = 200'

DRAWN BY: P. JACOBS
DATE: 2/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 26

DOT
D.A.K.K.E.N. O.I.L. E.X.P.R.E.S.S.

BAKKEN OIL EXPRESS PIPELINE
BOE PIPELINE PHASE II
SECTION 21, T148N, R96W
DUNN COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503
© KLJ, 2016



OWNERSHIP

(BLM) SE1/4 40.04 RODS 967+00.00

(JOSEPH & DARCI SCHEITTLER) N1/2NE1/4 SE1/4NE1/4 82.40 RODS 973+60.64

(RONALD & ESTHER MARTIN) S1/2NW1/4 SW1/4NE1/4 77.56 RODS 987+20.24

999+00.00

STATIONING

973+35.05 P.L. 19.34'04" RT. 973+60.64 SECTION LINE

985+31.00 P.L. 39.32'24" RT. 987+20.24 1/16 LINE

997+53.55 EXISTING FENCE 997+53.55 EXISTING FENCE

999+56.22 P.L. 27.28'53" RT. 999+56.22 P.L. 27.28'53" RT.

1000+00.00

PLAN

SEC. 21 T.148N., R.95W. MATCHLINE STA. 967+00.00

SEC. 28 T.148N., R.95W. MATCHLINE STA. 1000+00.00

DUNN COUNTY, NORTH DAKOTA

EXISTING BEARS DEN PHASE I PIPELINE

STA=970+00

STA=975+00

STA=980+00

STA=985+00

STA=990+00

STA=995+00

STA=1000+00

119

120

121

122

123

1/4 Line

1/4 Line

1/4 Line

Section Line

SPK=105.07'88 SEE SHEET 88

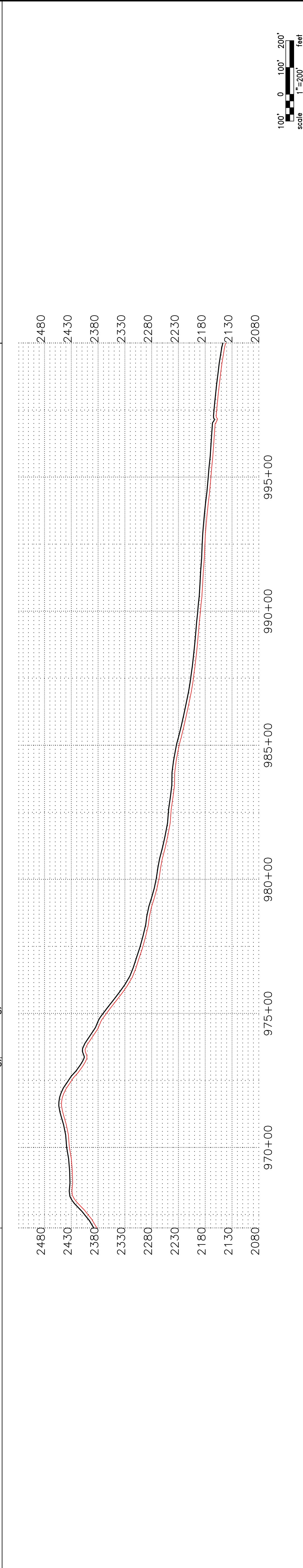
CLASS

PIPE BAND

659' 2

2795' 1

PRELIMINARY



CALL BEFORE YOU DIG

811

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2795'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	659'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

MATERIAL SUMMARY

SCALE: 1"=200'

DRAWN BY: P. JACOBS

DATE: 7/8/2016

CHECKED BY: D. DIONNE

APPROVED BY: B. BESMER

AU. JOB NUMBER: 1713271

REVISIONS: 0

SHEET: 27

DOT
D.A.K.K.E.N. O.I.L. E.X.P.R.E.S.S.

BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
SECTIONS 21 & 28, T.148N., R.95W
DUNN COUNTY, NORTH DAKOTA

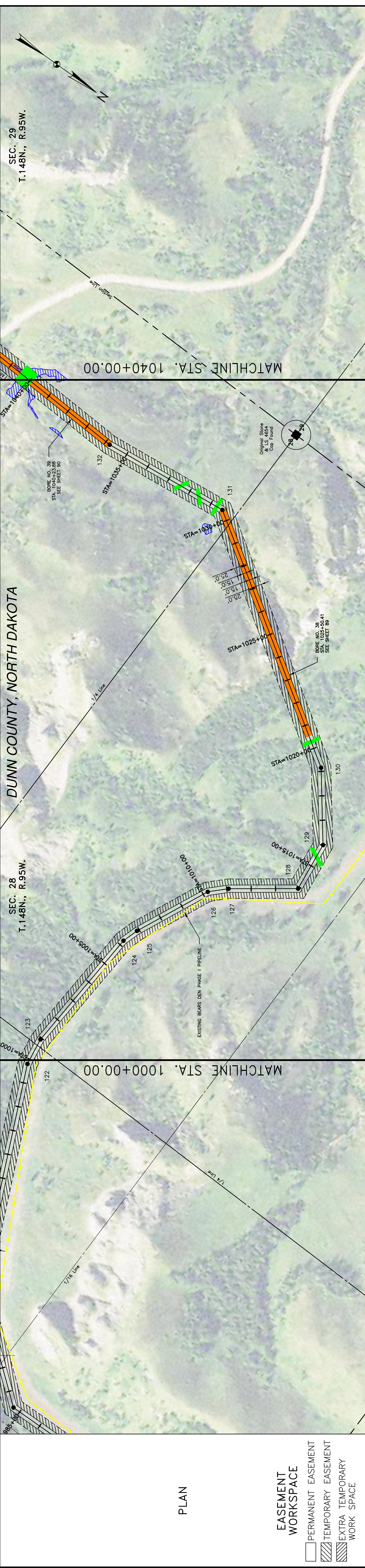
4585 Coleman Street
Bismarck, ND 58503

© KJL 2016

OWNERSHIP
 (RONALD & ESTHER MARTIN)
 S1/2NW1/4 SW1/4NE1/4 & SW1/4
 242.42 RODS

STATIONING

1000+00.00 1000+65.20 1/4 LINE
 1000+92.45 P.L. 1276'07" RT.
 1006+21.44 P.L. 702'26" RT.
 1010+21.18 P.L. 202'61" RT.
 1011+07.69 P.L. 825'13" RT.
 1013+92.47 P.L. 607'02" RT.
 1015+98.03 P.L. 311'23" RT.
 1019+15.18 P.L. 193'02" RT.
 1029+79.22 1/4 LINE
 1030+46.67 P.L. 385'91" LT.
 1035+80.38 P.L. 842'06" RT.
 1040+00.00



EASEMENT WORKSPACE

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

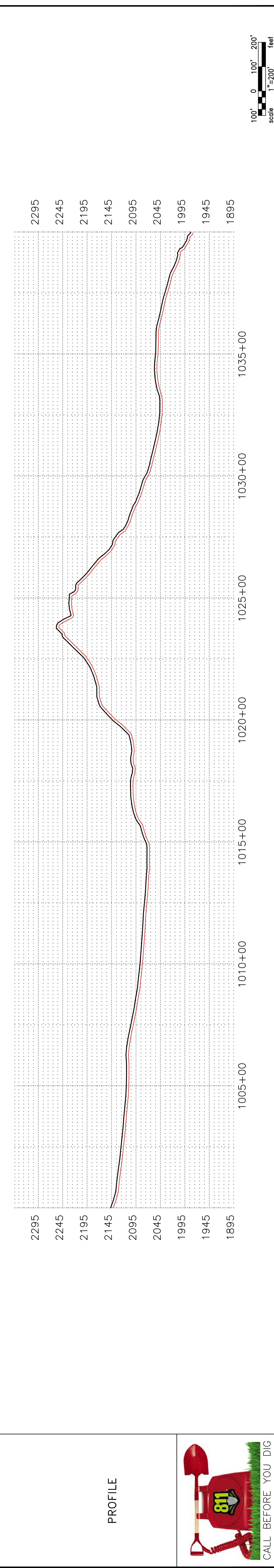
CLASS

2194' (1) 1017' (2) 655' (1) 428' (2)

PIPE BAND

1000+00.00 1020+54.15 1030+46.67 1035+80.38 1040+00.00

PRELIMINARY



LEGEND

- UNDERGROUND COM. LINE
- AVOIDANCE AREA
- PROPERTY LINE
- SECTION LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- WETLAND
- EASEMENT WORKSPACE
- WATER LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- CO2 PIPELINE
- EROSION/SEDIMENT CONTROL BMP
- EXISTING ROAD
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2849'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	1445'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

SCALE: 1"=200'

BRN. P. JACOBS
 DATE: 8/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: B. BESMER
 A.U. JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 28

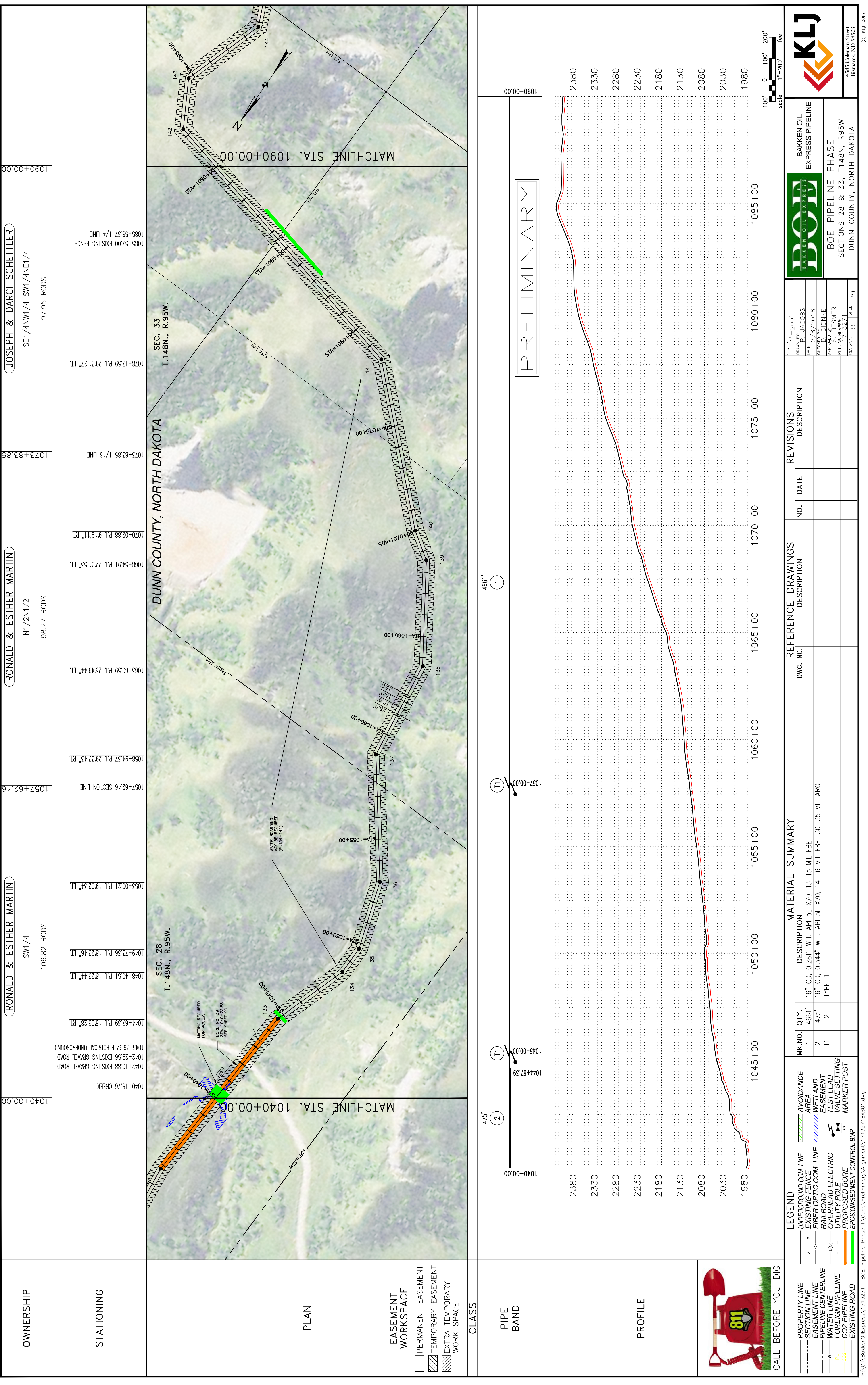
BOE PIPELINE PHASE II
 SECTION 28, T148N, R95W
 DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

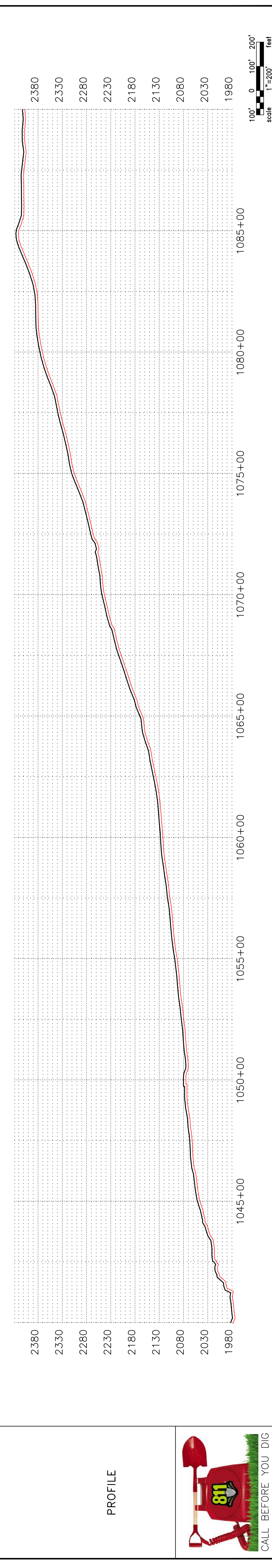
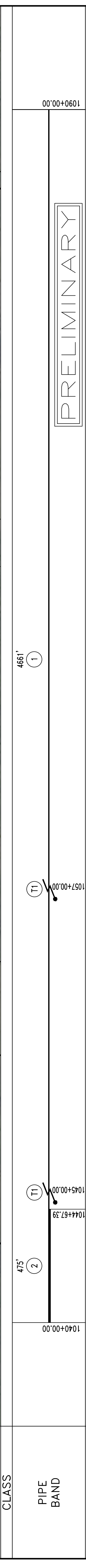
KLJ
 4585 Coleman Street
 Bismarck, ND 58503

P:\01\BakkenOilExpress\1713271- BOE Pipeline Phase II\1713271BAS01.dwg





OWNERSHIP	(JOSEPH & DARCI SCHELLER) SE1/4NW1/4 SW1/4NE1/4 97.95 RODS	1090+00.00
	(RONALD & ESTHER MARTIN) N1/2N1/2 98.27 RODS	1073+83.85
STATIONING	(RONALD & ESTHER MARTIN) SW1/4 106.82 RODS	1057+62.46
	1040+18.76 CREEK	1040+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4661'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	475'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4661'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	475'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1"=200'

DRAWN BY: JACOBS

DATE: 8/20/16

CHECKED BY: D. DIONNE

APPROVED BY: BRESNER

AU. JOB NUMBER: 1713271

REVISIONS: 0 SHEETS: 29

BOE PIPELINE PHASE II

SECTIONS 28 & 33, T148N., R95W

DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ

4585 Coleman Street
Bismarck, ND 58503

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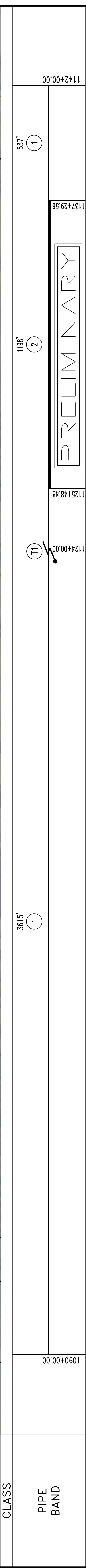
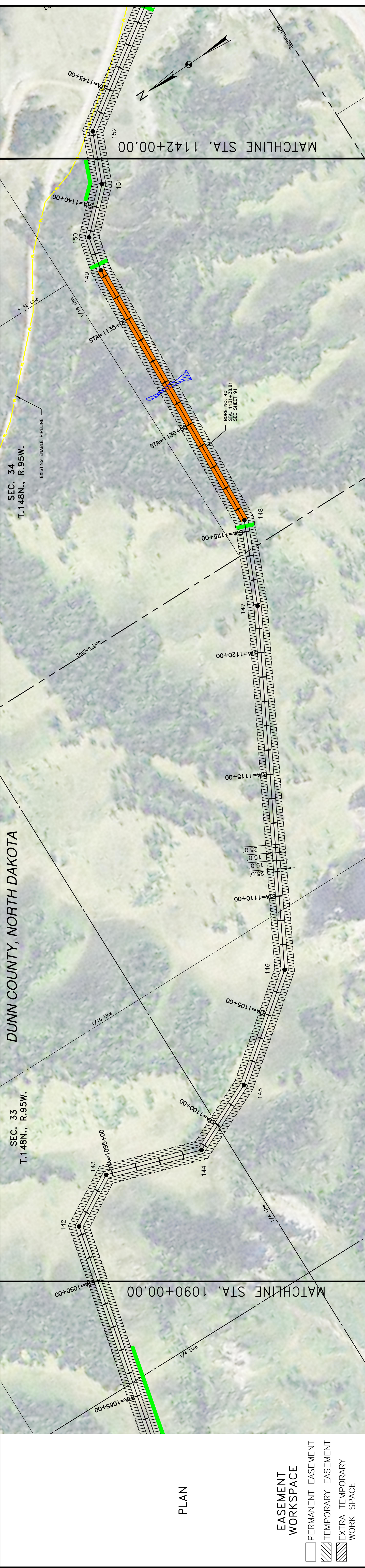


JOSEPH & DARCI SCHEITLER
 SE1/4NW1/4 SW1/4NE1/4 & E1/4SW1/4 W1/2SE1/4
 117.42 RODS

JOEL WERRE
 E1/2SE1/4 SE1/4NE1/4
 89.95 RODS

JOEL WERRE
 S1/2S1/2
 107.78 RODS

STATIONING	DESCRIPTION
1090+00.00	1092+34.64 P.L. 4638'26" RT.
1094+73.63	1094+73.63 P.L. 4743'51" RT.
1098+72.87	1098+72.87 P.L. 4214'10" LT.
1099+98.11	1099+98.11 1/4 LINE
1101+95.42	1101+95.42 P.L. 1342'50" LT.
1106+96.87	1106+96.87 P.L. 2340'38" LT.
1109+37.47	1109+37.47 1/16 LINE
1121+92.34	1121+92.34 P.L. 4333'58" LT.
1124+21.57	1124+21.57 SECTION LINE
1125+48.37	1125+48.37 P.L. 2102'36" LT.
1131+66.31	1131+66.31 DRAINAGE
1137+29.26	1137+29.26 P.L. 1008'53" RT.
1138+72.52	1138+72.52 P.L. 3320'45" RT.
1140+92.29	1140+92.29 P.L. 2335'16" LT.



LEGEND	MATERIAL SUMMARY	REFERENCE DRAWINGS	REVISIONS																						
<ul style="list-style-type: none"> PROPERTY LINE SECTION LINE EASEMENT LINE PIPELINE CENTERLINE WATER LINE FOREIGN PIPELINE CO2 PIPELINE EXISTING ROAD 	<table border="1"> <thead> <tr> <th>MK. NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4152</td> <td>16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE</td> </tr> <tr> <td>2</td> <td>1198'</td> <td>16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO</td> </tr> <tr> <td>T1</td> <td>1</td> <td>TYPE-1</td> </tr> </tbody> </table>	MK. NO.	QTY.	DESCRIPTION	1	4152	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE	2	1198'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO	T1	1	TYPE-1	<table border="1"> <thead> <tr> <th>DWG. NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	DWG. NO.	DESCRIPTION			<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION			
MK. NO.	QTY.	DESCRIPTION																							
1	4152	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE																							
2	1198'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO																							
T1	1	TYPE-1																							
DWG. NO.	DESCRIPTION																								
NO.	DATE	DESCRIPTION																							
<ul style="list-style-type: none"> UNDERGROUND COM. LINE EXISTING FENCE FIBER OPTIC COM. LINE RAILROAD OVERHEAD ELECTRIC UTILITY POLE PROPOSED BORE EROSION/SEDIMENT CONTROL BMP 	<ul style="list-style-type: none"> AVOIDANCE AREA WETLAND EASEMENT TEST LEAD VALVE SETTING MARKER POST 																								

BOE PIPELINE PHASE II
 SECTIONS 33 & 34, T148N., R95W
 DUNN COUNTY, NORTH DAKOTA

SCALE: 1"=200'
 DRAWN BY: J. JACOBS
 DATE: 7/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: J. BESMER
 AIA JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 30

CALL BEFORE YOU DIG

P:\01\BakkenOil\express\1713271- BOE Pipeline Phase II\01\BakkenOil\express\1713271\BAS01.dwg

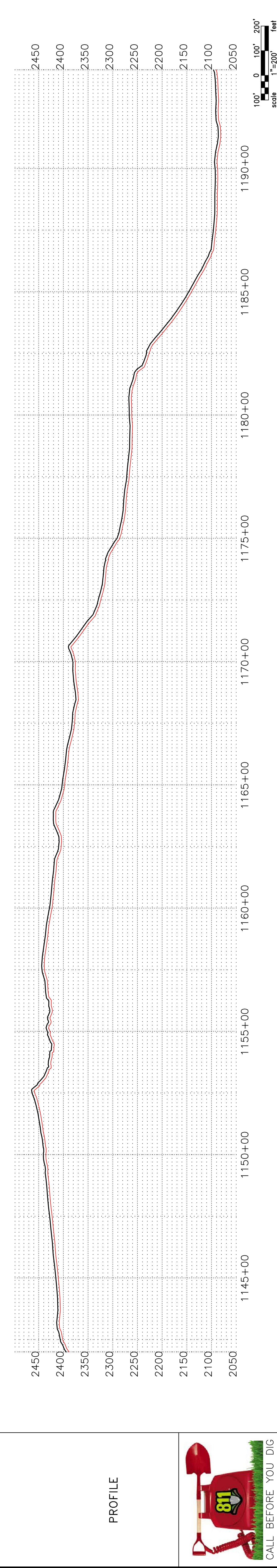
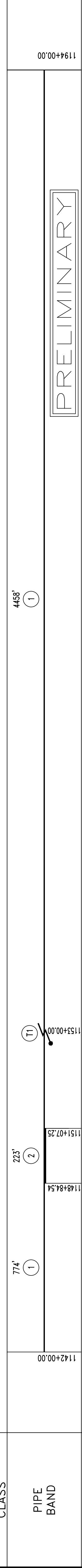
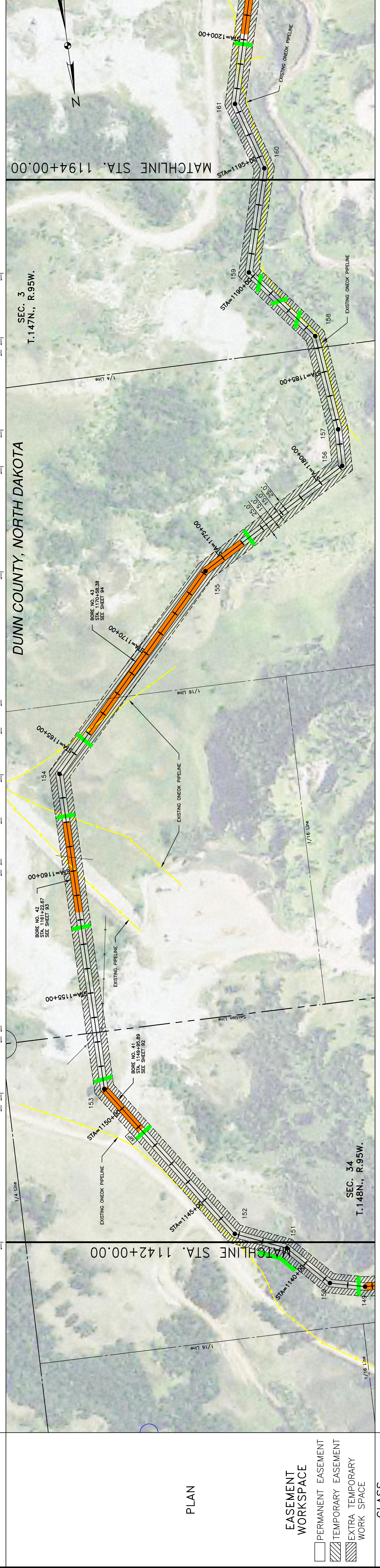
OWNERSHIP

JOEL WERRE
S1/2S1/2
69.01 RODS

RONALD & ESTHER MARTIN
S1/2NE1/4 LOTS 1-2 & SE1/4
246.14 RODS

STATIONING

1142+00.00 1143+16.41 P.L. 3230'46" RT. 1149+79.74 CL ROAD 1151+07.25 P.L. 3356'08" RT. 1153+30.13 EXISTING FENCE LINE 1153+38.64 SECTION LINE 1160+13.16 EXISTING PIPELINE 1162+26.68 EXISTING ONEOK PIPELINE 1163+97.66 P.L. 43'49'49" RT. 1166+38.26 EXISTING ONEOK PIPELINE 1167+77.55 1/16 LINE 1174+11.55 P.L. 16'42'39" RT. 1181+11.54 P.L. 58'47'15" LT. 1182+60.56 P.L. 72'9'12" LT. 1186+00.84 1/4 LINE 1186+49.74 P.L. 32'22'38" LT. 1190+22.87 P.L. 54'38'18" RT. 1194+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEGMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5232	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	223	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REVISIONS

NO.	DATE	DESCRIPTION
1	8/20/16	

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

BOE PIPELINE PHASE II
SECTION 34, T148N, R95W & SECTION 3, T147N, R95W
DUNN COUNTY, NORTH DAKOTA

DOT
D.A.K.O.T.A. O.I.L. & F.E.R.R.S.

KLJ
4585 Coleman Street
Bismarck, ND 58503

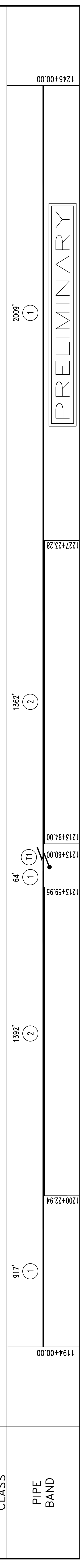
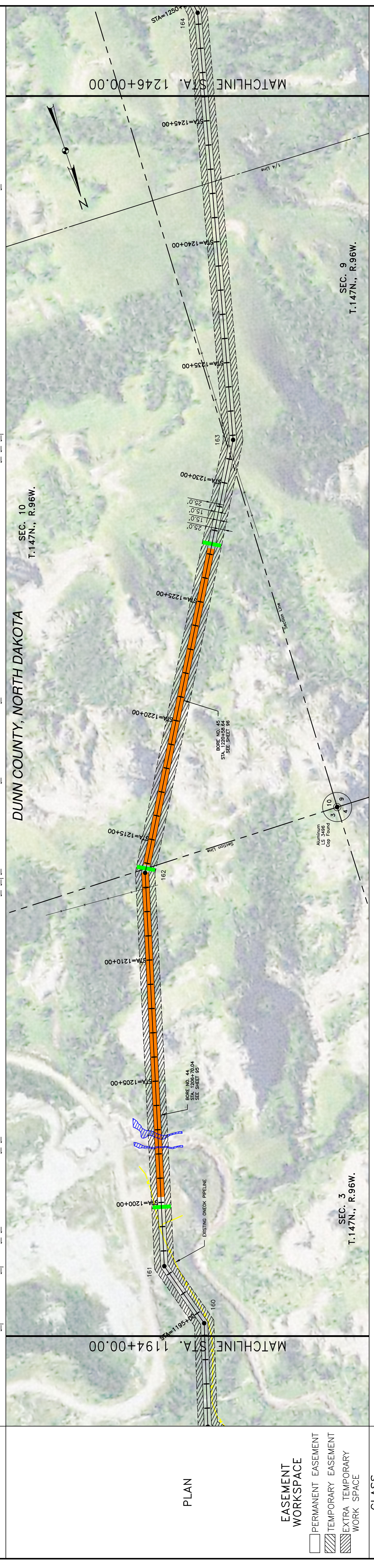
SCALE: HORIZ. = 200'
VERT. = 200'
scale 1" = 200' feet

CALL BEFORE YOU DIG

811

P:\01\BakkenOilExpress\1713271- BOE Pipeline Phase II\1713271\BAS01.dwg

OWNERSHIP	(RONALD & ESTHER MARTIN) S1/2NE1/4 LOTS 1-2 & SE1/4 119.87 RODS	(BRIEN & SHELLEY DENNIS) NW1/4 105.46 RODS	(JOSEPH & DARCI SCHEITTLER) NE1/4 & SE1/4 89.82 RODS	
	1194+00.00	1213+77.90	1231+18.04	1246+00.00
STATIONING	1194+50.11 P.L. 32753'4" LT. 1197+36.98 P.L. 32708'38" RT. 1198+62.38 EXISTING ONEOK PIPELINE 1199+06.95 EXISTING ONEOK PIPELINE 1202+52.05 CREEK 1202+53.88 CREEK	1212+96.01 EXISTING FENCE 1213+58.95 P.L. 14'16"38" RT. 1213+77.90 SECTION LINE 1217+67.98 DRAINAGE 1221+04.46 DRAINAGE	1231+18.04 SECTION LINE 1231+56.01 EXISTING FENCE 1231+81.02 P.L. 16'14"10" LT.	



LEGEND	MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		
	MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE
UNDERGROUND COM. LINE							
EXISTING FENCE							
FIBER OPTIC COM. LINE							
RAILROAD							
OVERHEAD ELECTRIC							
UTILITY POLE							
PROPOSED BORE							
EROSION/SEDIMENT CONTROL BMP							
MARKER POST							
VALVE SETTING							
TEST LEAD							
EASEMENT							
WETLAND							
AREA							
AVOIDANCE							
1	2990'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE					
2	2754'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO					
T1	1	TYPE-1					

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD

SCALE: 1"=200'

DATE: 8/18/2016

CHECKED BY: D. DIONNE

APPROVED BY: B. BESMER

AUT. JOB NUMBER: 1713271

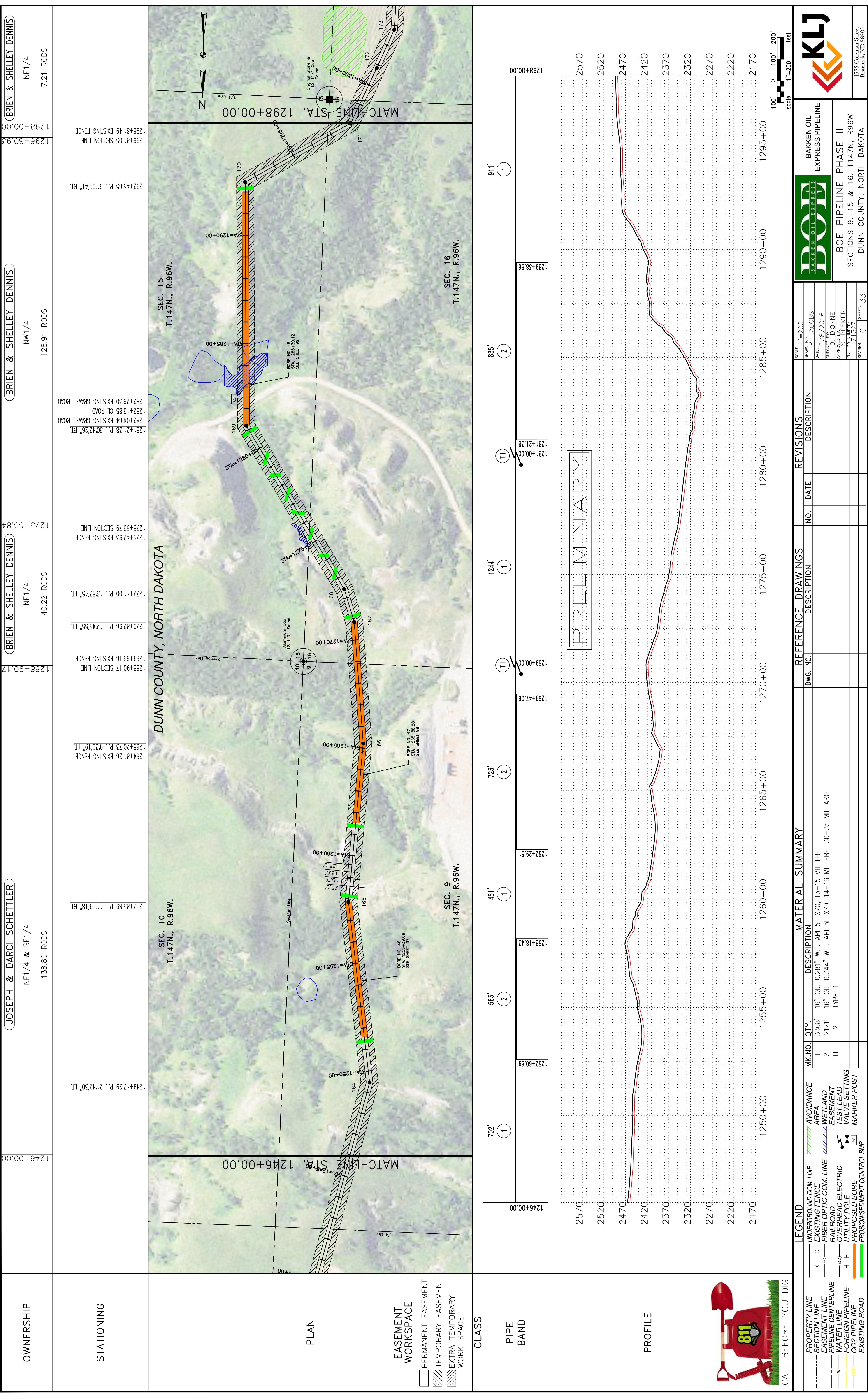
REVISIONS: 0

SHEET: 32

BOE PIPELINE PHASE II
SECTIONS 3, 9 & 10, T.147N., R.96W
DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
4585 Coleman Street
Bismarck, ND 58503



OWNERSHIP	(JOSEPH & DARCI SCHELLER)	NE1/4 & SE1/4	138.80 RODS
	(BRIEN & SHELLEY DENNIS)	NW1/4	128.91 RODS
STATIONING	1246+00.00	1249+47.29 P.L. 21'42.30" LT.	
	1298+00.00	1292+45.65 P.L. 61'01.41" RT.	

MATERIAL SUMMARY	MK. NO.	QTY.	DESCRIPTION	
	1	3308'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE	
REFERENCE DRAWINGS	DWG. NO.	NO.	DATE	DESCRIPTION

REVISIONS	NO.	DATE	DESCRIPTION

SCALE: 1"=200'	DATE: 8/20/16	DESIGNED BY: P. JACOBS
DRAWN BY: P. JACOBS	CHECKED BY: D. DIONNE	APPROVED BY: B. SWANER
PROJECT NO.: 1713271	ALU. JOB NUMBER: 1713271	REVISIONS: 0
SHEETS: 33		

LEGEND	<ul style="list-style-type: none"> PROPERTY LINE SECTION LINE EASEMENT LINE PIPELINE CENTERLINE WATER LINE FOREIGN PIPELINE CO2 PIPELINE EXISTING ROAD
LEGEND	<ul style="list-style-type: none"> UNDERGROUND COM. LINE EXISTING FENCE FIBER OPTIC COM. LINE RAILROAD OVERHEAD ELECTRIC UTILITY POLE PROPOSED BORE EROSION/SEDIMENT CONTROL BMP

CALL BEFORE YOU DIG	
---------------------	--

PROJECT INFORMATION	PROJECT: BAKKEN OIL EXPRESS PIPELINE PHASE: BOE PIPELINE PHASE II SECTIONS: 9, 15 & 16, T.147N., R.96W COUNTY: DUNN COUNTY, NORTH DAKOTA ADDRESS: 4585 Coleman Street, Bismarck, ND 58503
---------------------	---

OWNER	DATE	SCALE
		1"=200'

(BRIEN & SHELLEY DENNIS)

NE1/4 & SE1/4
145.77 RODS

(BRIEN & SHELLEY DENNIS)

NE1/4 & SE1/4
169.38 RODS

1298+00.00

1350+00.00

OWNERSHIP

STATIONING

DUNN COUNTY, NORTH DAKOTA

SEC. 22
T.147N., R.96W.

SEC. 15
T.147N., R.96W.

EASEMENT WORKSPACE
 PERMANENT EASEMENT
 TEMPORARY EASEMENT
 EXTRA TEMPORARY WORK SPACE

CLASS

PIPE BAND

PROFILE



LEGEND

	PROPERTY LINE
	SECTION LINE
	EASEMENT LINE
	WATER LINE
	FOREIGN PIPELINE
	CO2 PIPELINE
	EXISTING ROAD
	UNDERGROUND COM. LINE
	EXISTING FENCE
	FIBER OPTIC COM. LINE
	RAILROAD
	OVERHEAD ELECTRIC
	UTILITY POLE
	PROPOSED BORE
	EROSION/SEDIMENT CONTROL BMP
	AVOIDANCE AREA
	WETLAND
	EASEMENT
	TEST LEAD
	VALVE SETTING
	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4143'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1085'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	3	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

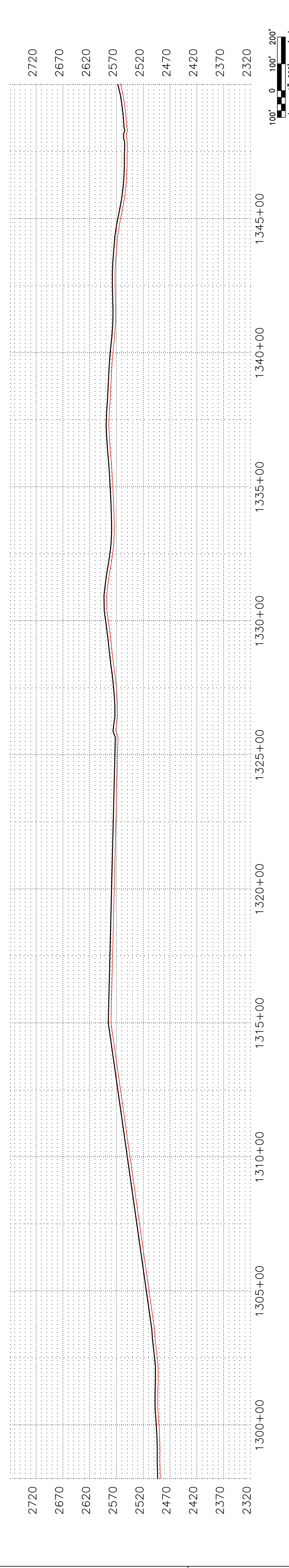
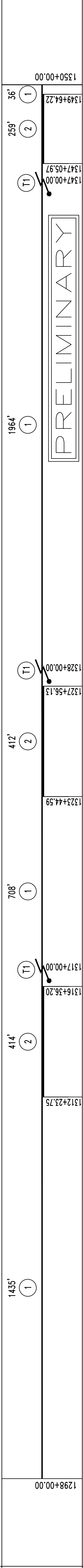
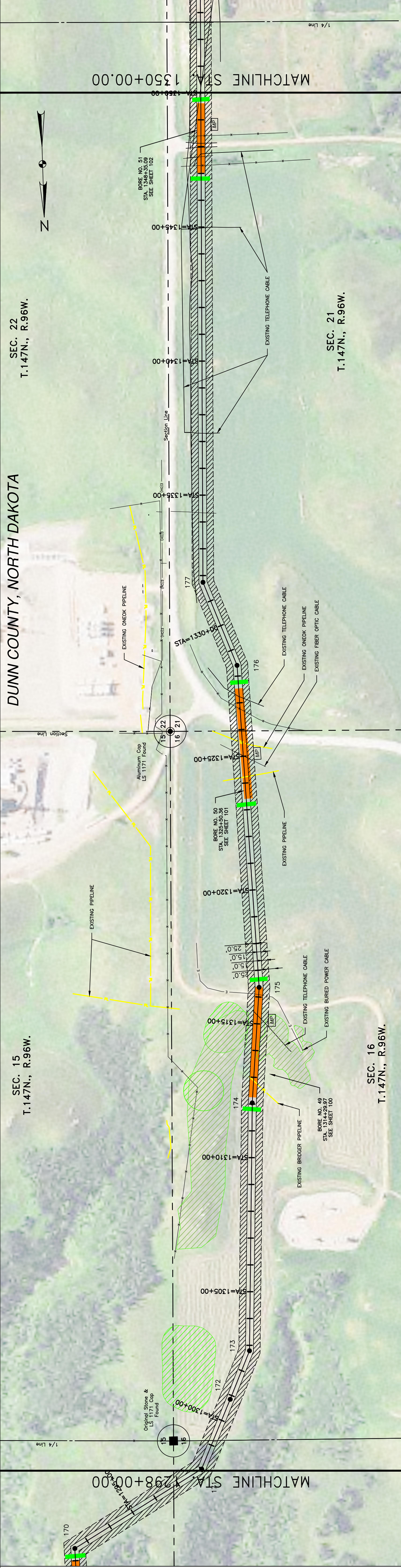
SCALE: 1"=200'

SCALE: 1"=200'	SCALE: 1"=200'
DRAWN BY: JACOBBS	DATE: 8/8/2016
CHECKED BY: D. DIONNE	APPROVED BY: BESMER
AU. JOB NUMBER: 1713271	REVISIONS: 0
SHEET: 34	

DOT
 BAKKEN OIL EXPRESS
 BOE PIPELINE PHASE II
 SECTIONS 16 & 21, T147N., R96W
 DUNN COUNTY, NORTH DAKOTA

KLJ
 4585 Coleman Street
 Bismarck, ND 58503
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1324+22.64 EXISTING PIPELINE
 1325+51.15 ONCOK GAS PIPELINE
 1326+11.81 CL ROAD
 1327+23.08 TELEPHONE LINE
 1328+39.94 P.L. 18'22"40" LT.
 1331+74.89 P.L. 22'02"30" RT.
 1334+33.88 OVERHEAD POWER LINES
 1337+30.76 TELEPHONE LINE
 1344+96.53 TELEPHONE LINE
 1347+29.52 EXISTING FENCE
 1347+62.35 OVERHEAD POWER LINES
 1347+72.23 TELEPHONE LINE
 1347+97.23 DRIVEWAY
 1348+05.06 CL DRIVEWAY
 1348+12.26 DRIVEWAY
 1348+40.32 EXISTING FENCE



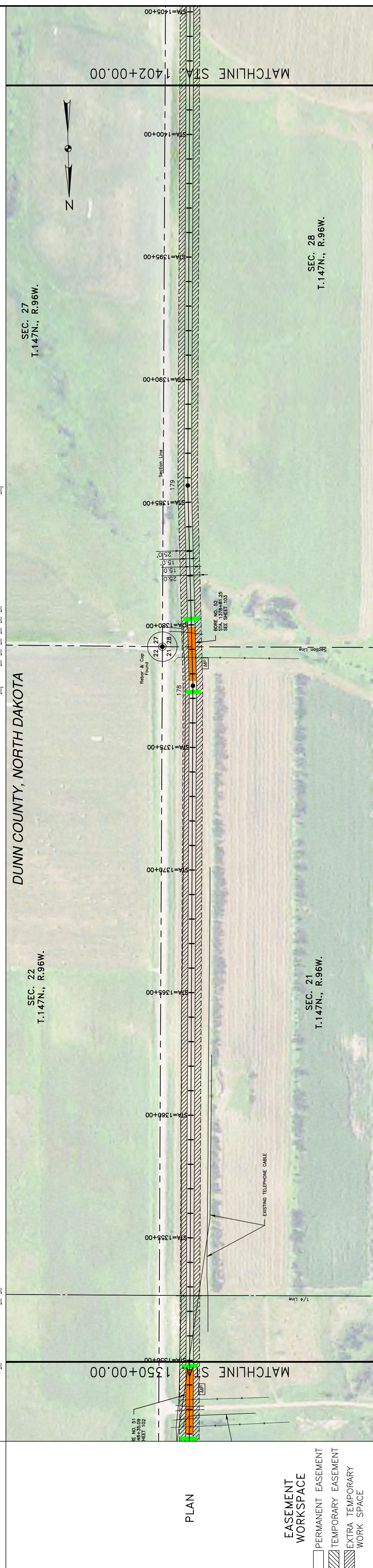
100' 0 100' 200'
 scale 1"=200'
 feet

OWNERSHIP
 BRIEN & SHELLEY DENNIS
 NE1/4 & SE1/4
 176.39 RODS

OWNERSHIP
 ALWIN C CARUS TRUST #9; EDWARD H.,
 E1/2E1/2
 138.77 RODS

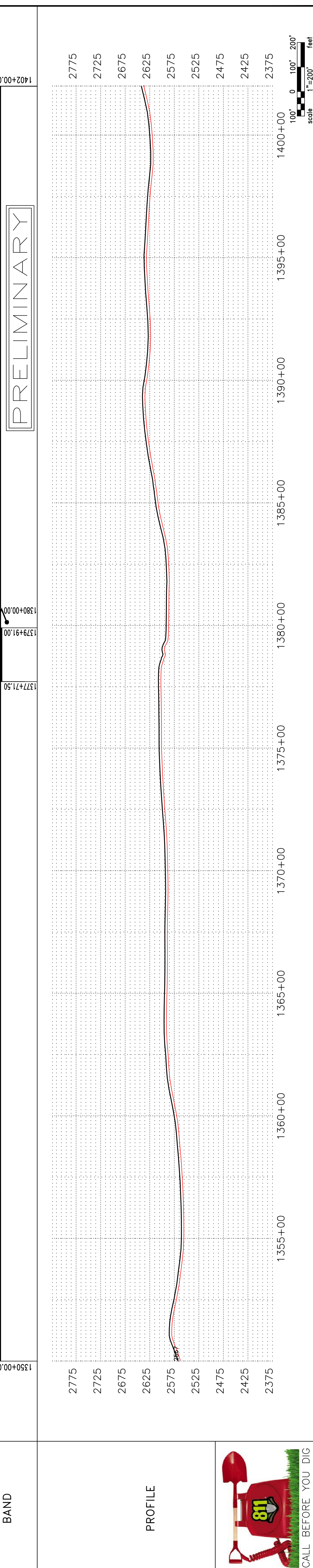
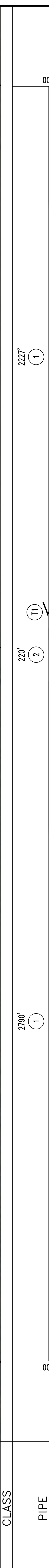
1402+00.00

STATIONING
 1350+00.00 1352+64.87 1/4 LINE
 1350+18.22 TELEPHONE LINE
 1378+66.68 EXISTING FENCE
 1378+95.42 EXISTING GRAVEL ROAD
 1379+01.18 CL ROAD
 1379+10.36 SECTION LINE
 1379+67.14 TELEPHONE LINE
 1385+68.51 P.L. 1+45'14" RT.
 1377+51.67 P.L. 1+45'14" LT.



EASEMENT WORKSPACE

 PERMANENT EASEMENT
 TEMPORARY EASEMENT
 EXTRA TEMPORARY WORK SPACE



LEGEND				MATERIAL SUMMARY				REFERENCE DRAWINGS				REVISIONS			
SYMBOL	DESCRIPTION	MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
---	PROPERTY LINE			16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE											
- - - -	SECTION LINE	1	5017	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO											
- . - . -	EASEMENT LINE	2	220'	TYPE-1											
---	PIPELINE CENTERLINE	T1	1												
- - - -	WATER LINE														
---	FOREIGN PIPELINE														
---	CO2 PIPELINE														
---	EXISTING ROAD														

LEGEND			
SYMBOL	DESCRIPTION		
---	UNDERGROUND COM. LINE		
- - - -	EXISTING FENCE		
- . - . -	FIBER OPTIC COM. LINE		
---	RAILROAD		
---	OVERHEAD ELECTRIC		
---	UTILITY POLE		
---	PROPOSED BORE		
---	EROSION/SEDIMENT CONTROL BMP		
---	MARKER POST		
---	TEST LEAD		
---	EASEMENT		
---	WETLAND		
---	AVOIDANCE AREA		

DRAWING INFORMATION	
SCALE: 1" = 200'	DATE: 2/8/2016
DRAWN BY: JACOBS	CHECKED BY: D. DIONNIE
APPROVED BY: BESMER	REVISIONS: 0
PROJECT: BOE PIPELINE PHASE II	SHEET: 35
SECTION: SECTIONS 21 & 28, T.147N., R.96W	
COUNTY: DUNN COUNTY, NORTH DAKOTA	

COMPANY INFORMATION	
KLJ	BAKKEN OIL EXPRESS PIPELINE
4585 Coleman Street	
Bismarck, ND 58503	
© KLJ, 2016	

ALWIN C CARUS TRUST #9; EDWARD H.,
E1/2E1/2
166.94 RODS

PATRICK & CAROL HAWKINSON
SE1/4
26.26 RODS

RODNEY RYCHNER
NW1/4 & SW1/4
121.95 RODS

OWNERSHIP

STATIONING

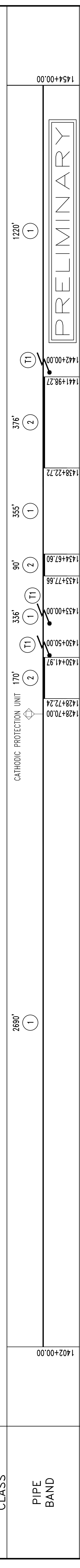
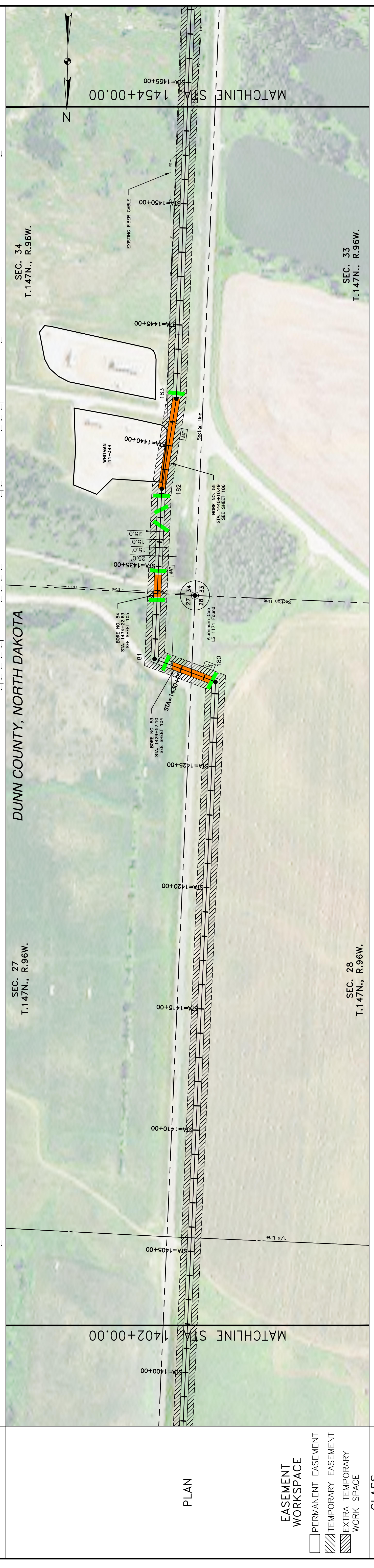
1402+00.00

1429+54.56

1429+50.06 CL ROAD
1429+54.56 SECTION LINE
1430+41.67 OVERHEAD POWER LINES
1431+17.57 P.L. 27.51' 27" RT.
1433+86.92 EXISTING FENCE
1433+87.89 SECTION LINE
1433+94.00 OVERHEAD POWER LINES
1434+20.59 CL DRIVEWAY
1438+43.41 EXISTING FENCE
1438+19.86 P.L. 6.50' 34" RT.
1440+95.28 OVERHEAD POWER LINES
1441+09.60 EXISTING GRAVEL ROAD
1441+95.41 P.L. 70.4' 31" LT.

1452+29.76 FIBER OPTIC CABLE BURIED

1454+00.00



CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4601'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	636'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	3	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 200'

SCALE: 1" = 200'

SCALE: 1" = 200'

DOT
D.A.K.K.E.N. O.I.L. & F.E.E.L.S.

BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
SECTIONS 27, 28 & 34, T147N, R96W
DUNN COUNTY, NORTH DAKOTA

SCALE: 1" = 200'

DRAWN BY: JACOBS

DATE: 8/8/2016

CHECKED BY: D. DIONNE

APPROVED BY: BESMER

ALU JOB NUMBER: 1713271

REVISIONS: 0

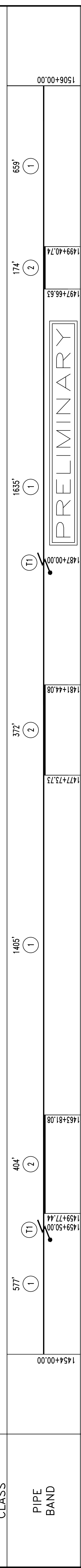
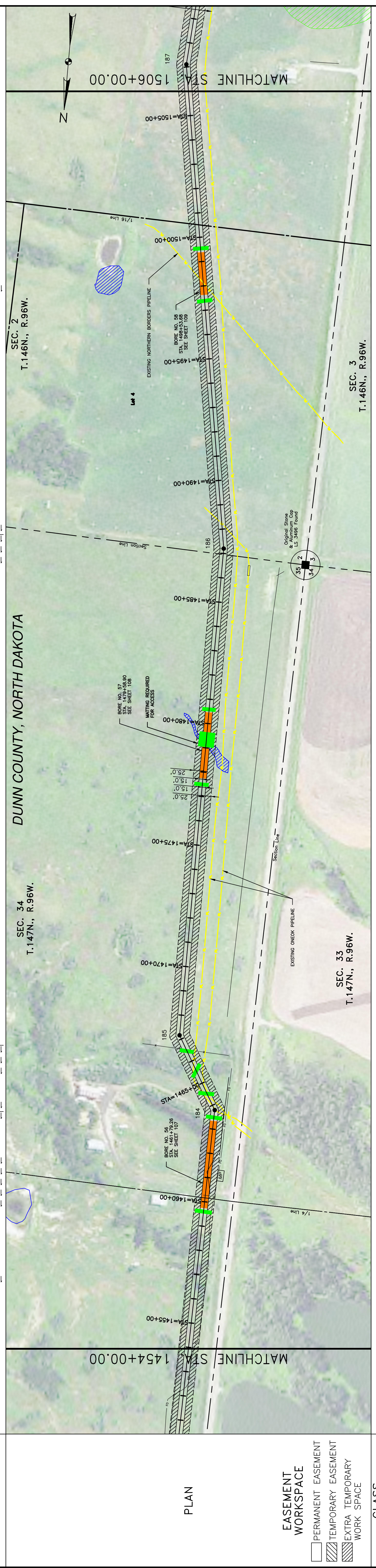
SHEET: 36

4585 Coleman Street
Bismarck, ND 58503

© KJL 2016

OWNERSHIP
 (SHEILA MURPHY)
 S1/2NW1/4 LOTS 3-4 LESS 2.80 A & SW1/4 LESS 4.91 & 2.59 A & SE1/4 LESS 4.92 A
 115.41 RODS

STATIONING
 NW1/4 & SW1/4
 199.75 RODS



CLASS	PIPE BAND	REVISIONS	REFERENCE DRAWINGS	MATERIAL SUMMARY	LEGEND
577' (1)	1454+00.00	1487+00.00	1481+44.08	1463+81.08	1459+77.44
404' (2)	1459+50.00	1477+73.73	1481+44.08	1463+81.08	1459+77.44
1405' (1)	1487+00.00	1487+00.00	1481+44.08	1463+81.08	1459+77.44
372' (2)	1487+00.00	1487+00.00	1481+44.08	1463+81.08	1459+77.44
1635' (1)	1487+00.00	1487+00.00	1481+44.08	1463+81.08	1459+77.44
174' (2)	1497+66.63	1497+66.63	1497+66.63	1497+66.63	1497+66.63
659' (1)	1499+40.74	1499+40.74	1499+40.74	1499+40.74	1499+40.74
1506+00.00	1506+00.00	1506+00.00	1506+00.00	1506+00.00	1506+00.00

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4276'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	950'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REVISIONS

NO.	DATE	DESCRIPTION
1	8/18/2016	

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

BOE PIPELINE PHASE II
 SECTION 34, T147N, R96W & SECTION 2, T146N, R96W
 DUNN COUNTY, NORTH DAKOTA

KLJ
 4585 Coleman Street
 Bismarck, ND 58503

BOE PIPELINE PHASE II
 SCALE: 1"=200'
 DRAWN BY: JACOBUS
 DATE: 8/18/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BESMER
 AIA JOB NUMBER: 1713271
 REVISIONS: 0
 SHEETS: 37

CALL BEFORE YOU DIG

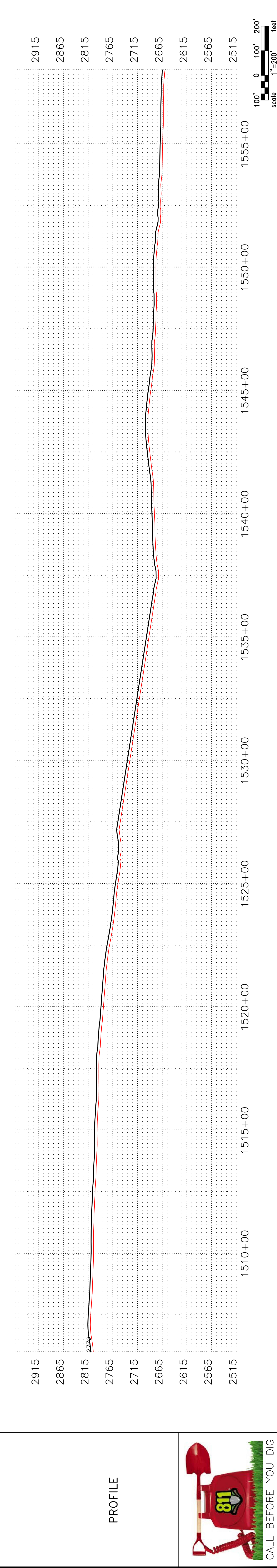
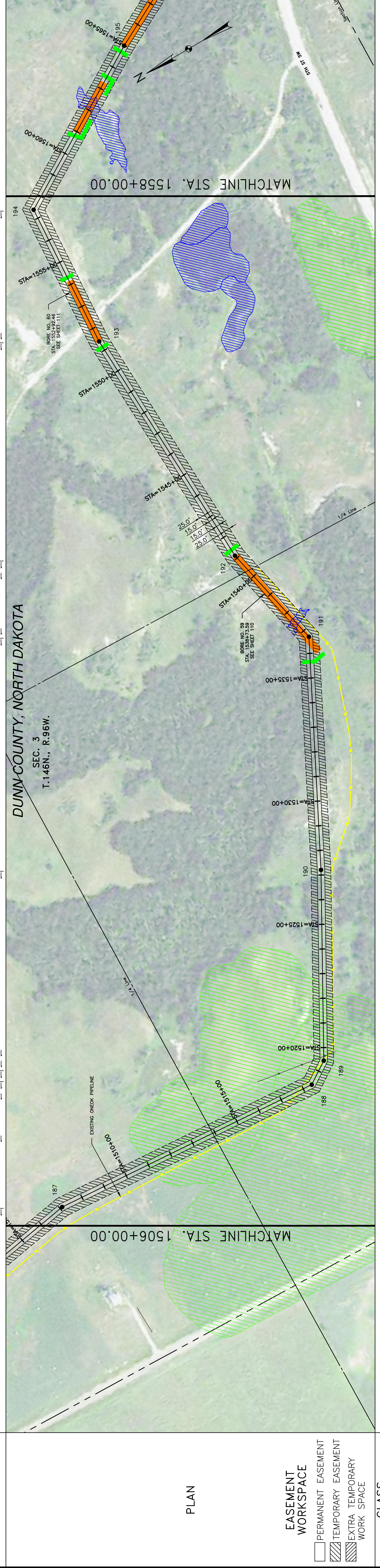
SHEILA MURPHY

S1/2NW1/4 LOTS 3-4 LESS 2.80 A & SW1/4 LESS 4.91 & SE1/4 LESS 4.92 A
315.15 RODS

DUNN COUNTY, NORTH DAKOTA
SEC. 3
T.146N., R.96W.

MATCHLINE STA. 1506+00.00

MATCHLINE STA. 1558+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4514	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	716	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

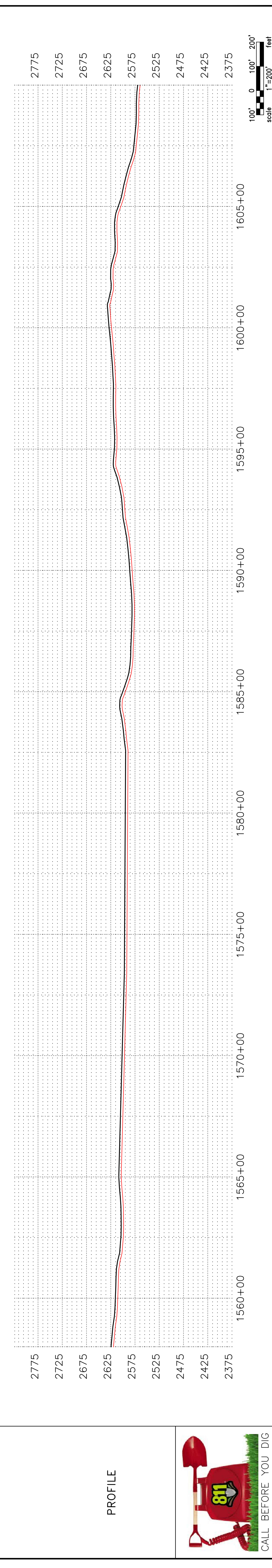
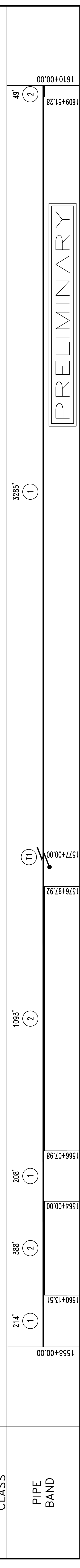
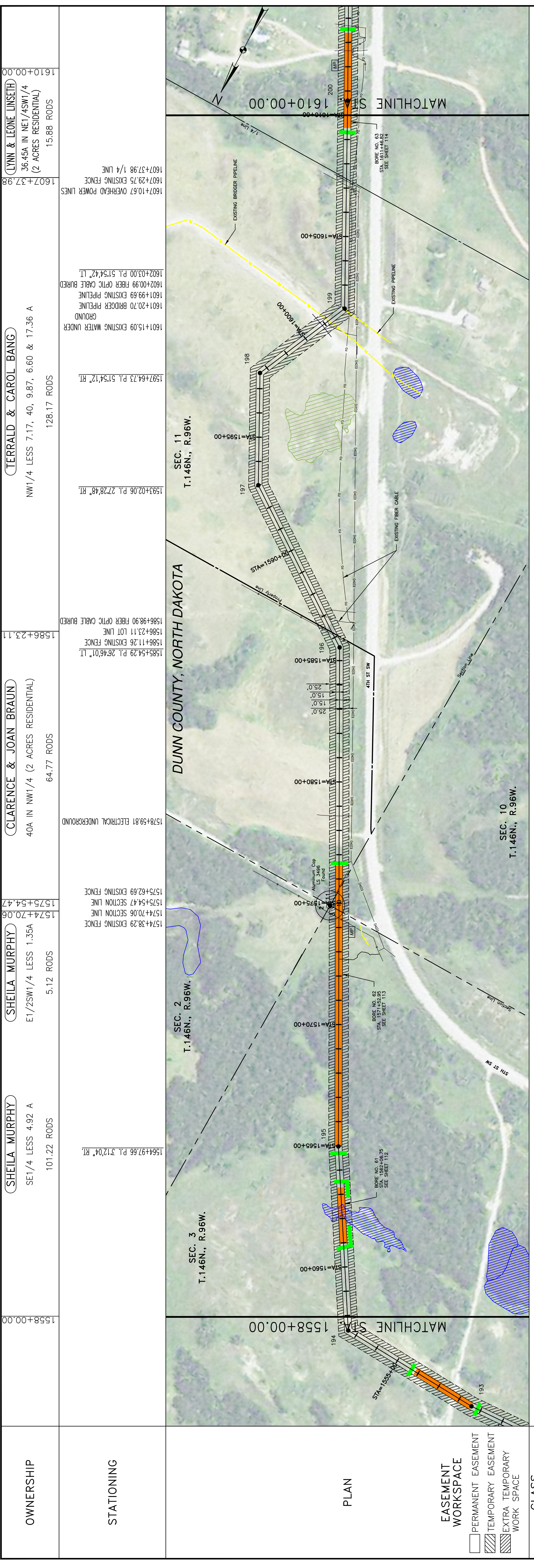
NO.	DESCRIPTION	DATE

BOE PIPELINE PHASE II
SECTION 3, T146N, R96W
DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

SCALE: 1"=200'
DRAWN BY: JACOBS
DATE: 8/20/16
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0
SHEET: 38

KLJ
4585 Coleman Street
Bismarck, ND 58503



OWNERSHIP

(SHEILA MURPHY)
SE1/4 LESS 4.92 A
101.22 RODS

(SHEILA MURPHY)
E1/2SW1/4 LESS 1.35A
5.12 RODS

(CLARENCE & JOAN BRAUN)
40A IN NW1/4 (2 ACRES RESIDENTIAL)
64.77 RODS

(TERRALD & CAROL BANG)
NW1/4 LESS 7.17, 40, 9.87, 6.60 & 17.36 A
128.17 RODS

(LYNN & LEONE LINSETH)
36.45A IN NE1/4SW1/4
(2 ACRES RESIDENTIAL)
15.88 RODS

STATIONING

1558+00.00 1574+38.29 P.L. 3'12.04" RT. 1574+70.06 SECTION LINE
1574+70.06 SECTION LINE 1574+70.06 SECTION LINE 1575+54.47 SECTION LINE
1575+54.47 SECTION LINE 1575+62.69 EXISTING FENCE 1578+59.81 ELECTRICAL UNDERGROUND
1578+59.81 ELECTRICAL UNDERGROUND 1586+11.26 EXISTING FENCE 1586+23.11 LOT LINE
1586+23.11 LOT LINE 1586+98.90 FIBER OPTIC CABLE BURIED 1593+02.06 P.L. 2'78.48" RT.
1593+02.06 P.L. 2'78.48" RT. 1597+64.73 P.L. 5'15.47" RT. 1601+15.09 EXISTING WATER UNDER GROUND
1601+15.09 EXISTING WATER UNDER GROUND 1601+20.70 BRIDGE PIPELINE
1601+20.70 BRIDGE PIPELINE 1601+99.69 EXISTING PIPELINE 1602+00.99 FIBER OPTIC CABLE BURIED
1602+00.99 FIBER OPTIC CABLE BURIED 1602+03.00 P.L. 5'15.47" LT. 1607+29.75 EXISTING FENCE 1/4 LINE
1607+29.75 EXISTING FENCE 1/4 LINE 1607+10.67 OVERHEAD POWER LINES

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3707	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	1530	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
SECTIONS 3, 10 & 11, T.146N., R.96W.
DUNN COUNTY, NORTH DAKOTA

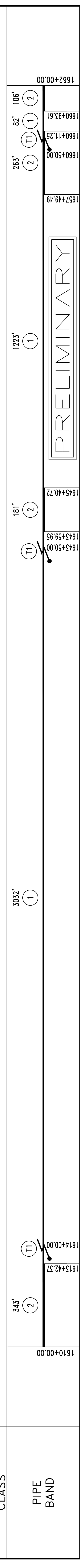
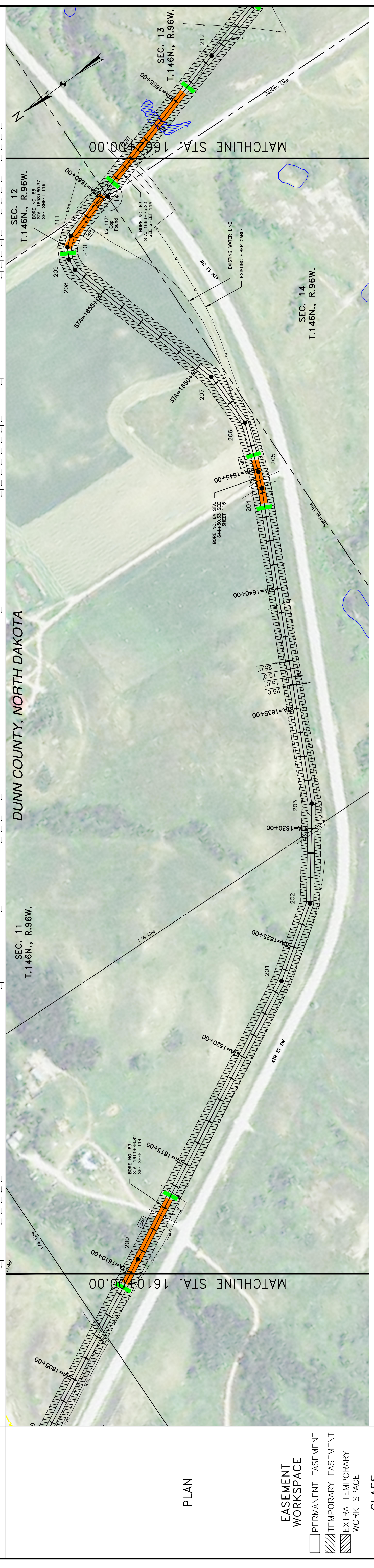
BAKKEN OIL EXPRESS PIPELINE

DOT
D A K K E N O I L E X P R E S S

SCALE: HORIZ. = 200'
VERT. = 200'
DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: B. BESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 39

P:\01\BakkenOilExpress\1713271- BOE Pipeline Phase II\Cadd\Preliminary\Alignment\1713271BAS01.dwg © KLJ 2016

OWNERSHIP	(TIMOTHY DVIRNAK) NW1/4 LESS 4.85 A 10.66 RODS	STATIONING	1662+00.00
	(BARBARA REEMS) SW1/4 4.09 RODS		1659+56.61
STATIONING	(ALAN & VICKIE PENNINGTON) SE1/4 LESS 4.78 A (2 ACRES RESIDENTIAL) 179.68 RODS	PLAN	1660+24.10
	(LYNN & LEONE LINSETH) 36.45A IN NE1/4SW1/4 (2 ACRES RESIDENTIAL) 120.72 RODS		1659+91.95



MK. NO.	QTY.	DESCRIPTION	REFERENCE DRAWINGS		REVISIONS	
			DWG. NO.	DESCRIPTION	NO.	DATE
1	4337	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE				
2	893	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO				
T1	3	TYPE-1				

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4337	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	893	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	3	TYPE-1

LEGEND

- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: HORIZ. = 200'
VERT. = 200'
DRAWN BY: JACOBS
DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
JOB NUMBER: 1713271
SHEETS: 40

BOE PIPELINE PHASE II
SECTIONS 11, 12 & 13, T.146N, R.96W
DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE
4585 Coleman Street
Bismarck, ND 58503
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OWNERSHIP

(TIMOTHY DVIRNAK)
NW1/4 LESS 4.85 A
260.84 RODS

(BARBARA REEMS)
SW1/4
2.40 RODS

(TIMOTHY DVIRNAK)
SET 1/4 LESS .54 & 2.35 A
(2 ACRES RESIDENTIAL)
51.91 RODS

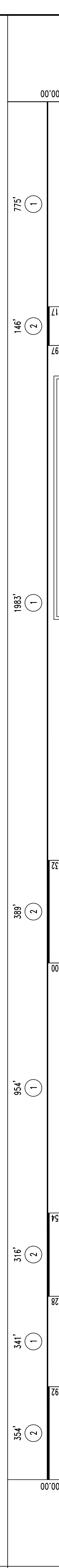
STATIONING

1662+00.00
1662+04.31 FIBER OPTIC CABLE BURIED
1662+45.76 EXISTING FENCE
1663+72.37 CL WETLAND
1667+38.32 P.L. 1.06' 38" RT.
1668+20.41 EXISTING FENCE
1668+33.30 OVERHEAD POWER LINES
1668+58.77 OVERHEAD POWER LINES
1668+94.72 EXISTING FENCE
1670+77.77 EXISTING FENCE
1686+65.22 P.L. 21.00' 01" LT.
1687+35.23 P.L. 21.00' 01" LT.
1688+77.81 P.L. 9.24' 15" LT.

PLAN



EASEMENT WORKSPACE



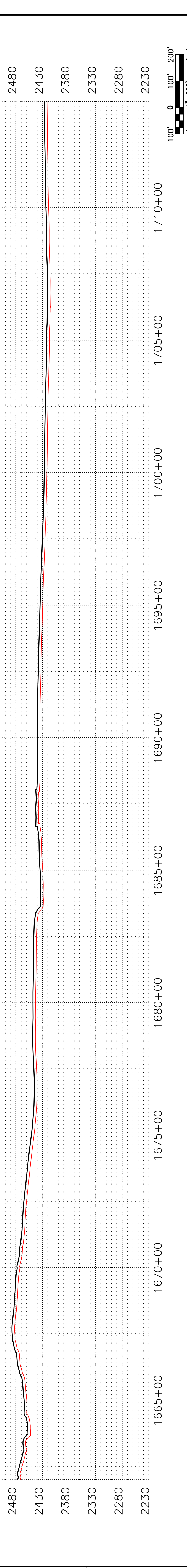
CLASS

1662+00.00	354'	(2)	341'	(1)	1668+92.28	316'	(2)	954'	(1)	1681+50.00	369'	(2)	1704+79.97	146'	(2)	1706+26.17	775'	(1)	1714+00.00
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PIPE BAND

PRELIMINARY																			
--------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

PROFILE



LEGEND

—	PROPERTY LINE	—	UNDERGROUND COM. LINE	—	AVOIDANCE AREA
- - -	SECTION LINE	- - -	EXISTING FENCE	- - -	WETLAND
- · - · -	EASEMENT LINE	- · - · -	FIBER OPTIC COM. LINE	- · - · -	EASEMENT
- - -	PIPELINE CENTERLINE	- - -	RAILROAD	- - -	TEST LEAD
- · - · -	WATER LINE	- · - · -	OVERHEAD ELECTRIC	- · - · -	VALVE SETTING
- · - · -	FOREIGN PIPELINE	- · - · -	UTILITY POLE	- · - · -	PROPOSED BORE
- · - · -	CO2 PIPELINE	- · - · -	EROSION/SEDIMENT CONTROL BMP	- · - · -	MARKER POST
- · - · -	EXISTING ROAD	- · - · -		- · - · -	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4053	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1205	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

DOT
D.A.K.K.E.N. O.I.L. E.X.P.R.E.S.S.

BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
SECTION 13, T146N, R96W
DUNN COUNTY, NORTH DAKOTA

SCALE: HORIZ. = 200'
VERT. = 200'
DRAWN BY: JACOBS
DATE: 8/18/2016
CHECKED BY: D. DIONNE
APPROVED BY: BRESMER
AUG. JOB NUMBER: 1713271
REVISIONS: 0
SHEET: 41

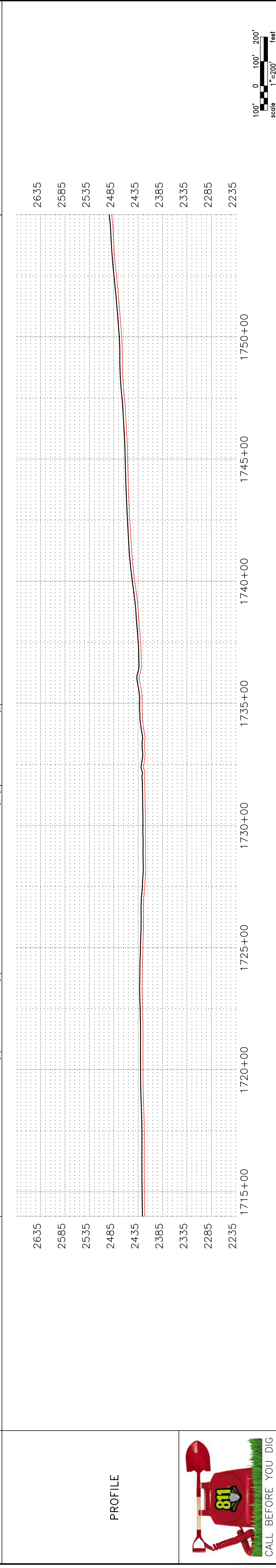
KLJ
4585 Coleman Street
Bismarck, ND 58503
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OWNERSHIP	SE1/4 LESS .54 & 2.35 A (2 ACRES RESIDENTIAL) 89.36 RODS	(TIMOTHY DVIRNAK)	SW1/4 22.66 RODS	NW1/4 LESS .59 A & SW1/4 LESS 1.53 A & SE1/4 136.47 RODS	(MARY LOU RYDEN)
STATIONING	1714+00.00	1721+12.62 EXISTING FENCE 1722+81.72 EXISTING FENCE 1722+81.73 P.L. 28'59.37" RT. 1728+28.48 EXISTING FENCE 1728+31.39 EXISTING FENCE 1728+66.38 OVERHEAD POWER LINES 1728+74.45 1/4 LINE	1731+98.83 BRIDGER PIPELINE 1731+17.94 FIBER OPTIC CABLE BURIED 1732+44.36 EXISTING GRAVEL ROAD 1732+48.31 SECTION LINE 1732+58.00 CL ROAD 1732+68.26 BRIDGER PIPELINE 1732+69.52 EXISTING GRAVEL ROAD 1733+03.41 EXISTING FENCE 1733+19.68 OVERHEAD POWER LINES 1733+36.19 EXISTING ONEOK PIPELINE 1734+06.60 EXISTING GRAVEL ROAD 1734+08.40 EXISTING WATER UNDER GROUND 1734+13.85 CL ROAD 1734+53.50 BRIDGER PIPELINE 1734+53.50 BRIDGER PIPELINE 1736+48.38 P.L. 28'58.07" LT.	1755+00.00	



EASEMENT WORKSPACE	<ul style="list-style-type: none"> PERMANENT EASEMENT TEMPORARY EASEMENT EXTRA TEMPORARY WORK SPACE
CLASS	<ul style="list-style-type: none"> ① 673' ② 321' ① 770' ② 331' ① 2016'
PIPE BAND	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 24px;">PRELIMINARY</div>



LEGEND	<ul style="list-style-type: none"> PROPERTY LINE SECTION LINE EASEMENT LINE WATER LINE FOREIGN PIPELINE CO2 PIPELINE EXISTING ROAD UNDERGROUND COM. LINE EXISTING FENCE FIBER OPTIC COM. LINE RAILROAD OVERHEAD ELECTRIC UTILITY POLE PROPOSED BORE EROSION/SEGMENT CONTROL BMP AVOIDANCE AREA WETLAND EASEMENT TEST LEAD VALVE SETTING MARKER POST 												
MATERIAL SUMMARY	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MK. NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3459'</td> <td>16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE</td> </tr> <tr> <td>2</td> <td>652'</td> <td>16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO</td> </tr> <tr> <td>T1</td> <td>1</td> <td>TYPE-1</td> </tr> </tbody> </table>	MK. NO.	QTY.	DESCRIPTION	1	3459'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE	2	652'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO	T1	1	TYPE-1
MK. NO.	QTY.	DESCRIPTION											
1	3459'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE											
2	652'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO											
T1	1	TYPE-1											
REFERENCE DRAWINGS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DWG. NO.</th> <th>DESCRIPTION</th> <th>NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1731+64.06</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1734+94.75</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DWG. NO.	DESCRIPTION	NO.	DATE	1731+64.06				1734+94.75			
DWG. NO.	DESCRIPTION	NO.	DATE										
1731+64.06													
1734+94.75													
REVISIONS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION									
NO.	DATE	DESCRIPTION											
BOE PIPELINE PHASE II SECTIONS 13 & 24, T.146N., R.96W. DUNN COUNTY, NORTH DAKOTA													
SCALE: HORIZ. = 200' VERT. = 200' DRAWN BY: JACOBS DATE: 8/18/2016 CHECKED BY: D. DIONNE APPROVED BY: B. BRESMER AUL JOB NUMBER: 1713271 REVISIONS: 0 SHEETS: 42													

OWNERSHIP: MARY LOU RYDEN
 NW1/4 LESS .59 A & SW1/4 LESS 1.53 A & SE1/4
 242.42 RODS

STATIONING: 1755+00.00 to 1795+00.00

1759+40.14 1/4 LINE
 1759+60.97 P.I. 18'42.24" LT
 1760+10.97 P.I. 18'42.25" LT
 1760+60.97 P.I. 18'42.25" LT
 1761+10.97 P.I. 18'42.23" LT
 1761+61.06 P.I. 11'38.31" LT
 1764+00.16 1/4 LINE
 1764+09.68 EXISTING FENCE
 1764+15.80 OVERHEAD POWER LINES?



CLASS: 4024' (1)

PIPE BAND: PRELIMINARY



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4024'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION	DATE

SCALE: 1"=200'

DRAWN BY: P. JACOBS
 DATE: 8/18/2016
 CHECKED BY:
 APPROVED BY: D. DIONNE
 AUTH. JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 43

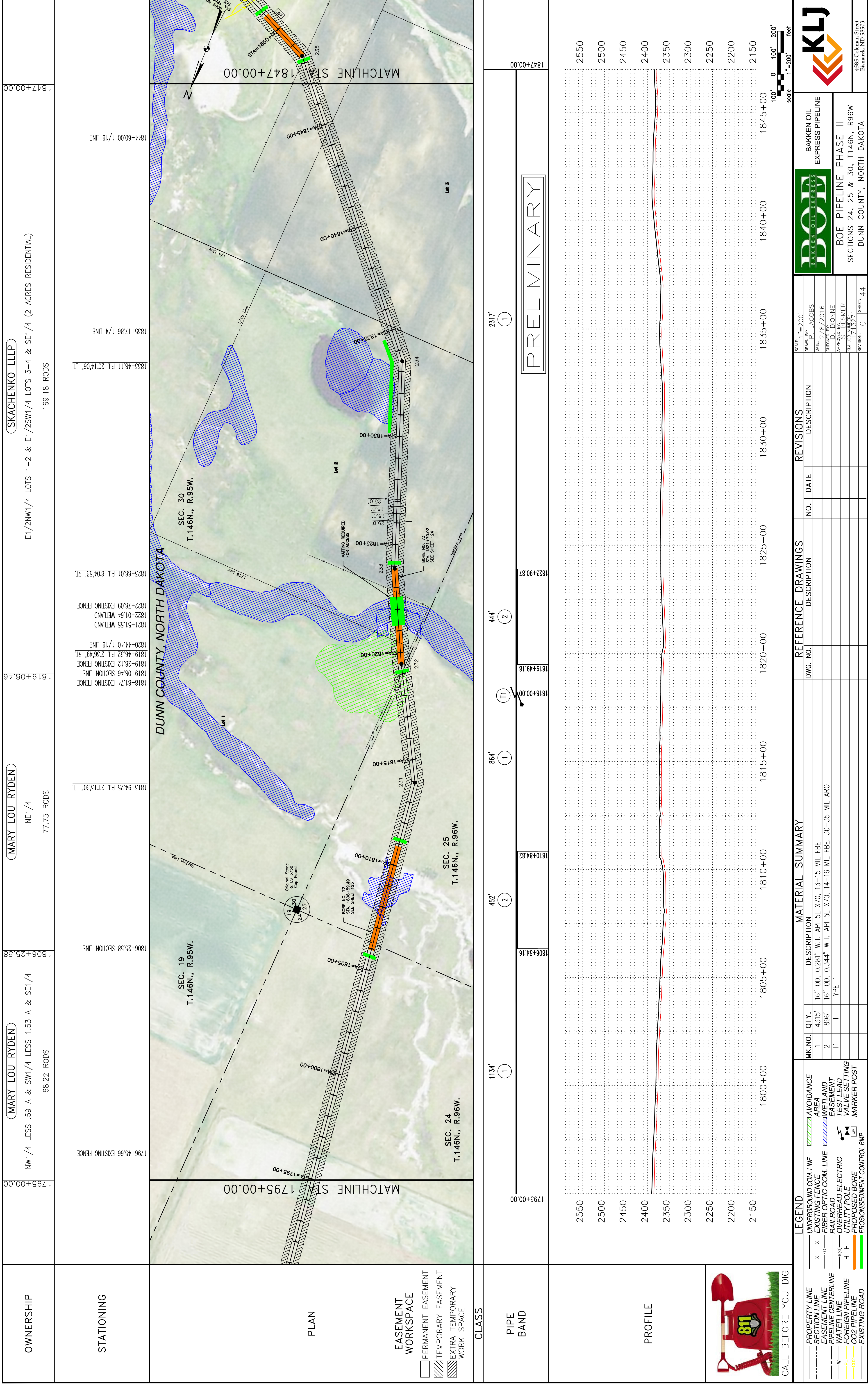
BOE PIPELINE PHASE II
 SECTION 24, T146N, R96W
 DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
 KLEIN OIL EXPRESS

4585 Coleman Street
 Bismarck, ND 58503
 © KLJ 2016





OWNERSHIP	STATIONING	PLAN	EASEMENT WORKSPACE	CLASS	PIPE BAND	PROFILE
(MARY LOU RYDEN) NW1/4 LESS .59 A & SW1/4 LESS 1.53 A & SE1/4 68.22 RODS 1795+00.00	(MARY LOU RYDEN) NE1/4 77.75 RODS 1806+25.58	(SKACHENKO LLLP) E1/2NW1/4 LOTS 1-2 & E1/2SW1/4 LOTS 3-4 & SE1/4 (2 ACRES RESIDENTIAL) 169.18 RODS 1819+08.46	1818+81.74 EXISTING FENCE 1819+08.46 SECTION LINE 1819+28.12 EXISTING FENCE 1819+46.32 P.L. 236.49' RT. 1820+44.40 1/16 LINE 1821+51.55 WETLAND 1822+01.64 WETLAND 1822+78.09 EXISTING FENCE 1823+88.01 P.L. 604.53' RT. 1833+48.11 P.L. 2014.06' LT. 1835+17.86 1/4 LINE 1844+60.00 1/16 LINE 1847+00.00	1134' (1) 452' (2) 864' (1) 444' (2) 2317' (1)	PRELIMINARY	2550 2500 2450 2400 2350 2300 2250 2200 2150

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4315'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	896'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION

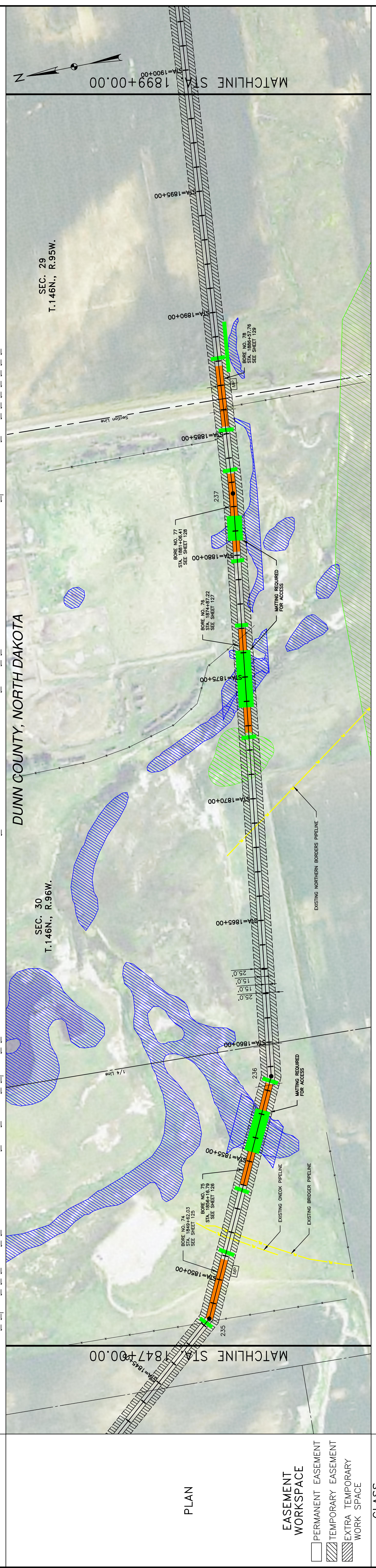
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VERT. = 200'
1" = 200'

CALL BEFORE YOU DIG

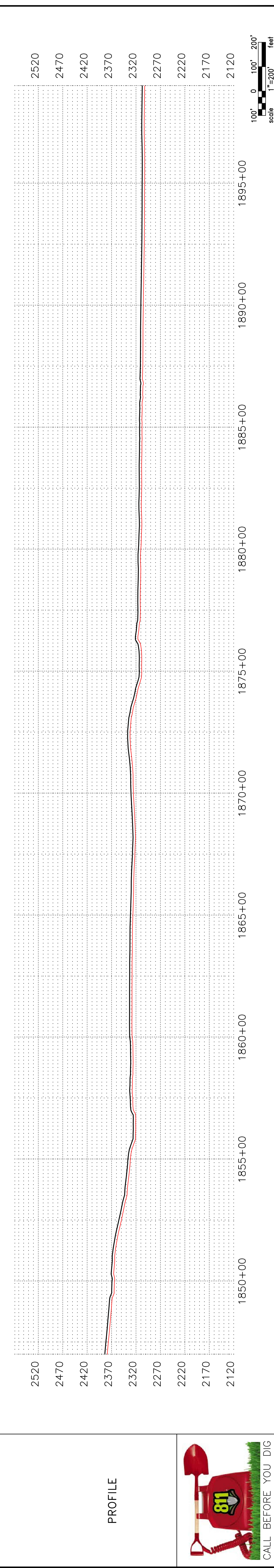
LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

OWNERSHIP	(SKACHENKO LLLP) SW1/4 76.12 RODS	1899+00.00
	E1/2NW1/4 LOTS 1-2 & E1/2SW1/4 LOTS 3-4 & SE1/4 (2 ACRES RESIDENTIAL) 239.03 RODS	1886+43.97
STATIONING	1886+98.78 EXISTING FENCE 1886+98.33 OVERHEAD POWER LINES 1886+60.80 EXISTING GRAVEL ROAD 1886+50.16 CL ROAD 1886+43.97 SECTION LINE 1886+39.40 EXISTING GRAVEL ROAD 1885+93.32 CL DRIVEWAY 1885+00.65 EXISTING FENCE	1886+43.97
	1882+54.08 P.I. 2.3652' LT 1876+66.47 EXISTING FENCE 1875+79.40 WETLAND 1874+70.84 WETLAND 1868+83.24 NORTHERN BORDERS PIPELINE 1859+92.62 1/4 LINE 1858+22.12 EXISTING FENCE 1856+80.64 WETLAND 1855+78.34 WETLAND 1851+75.01 EXISTING ONEOK PIPELINE 1849+90.43 EXISTING GRAVEL ROAD 1849+88.87 EXISTING GRAVEL ROAD 1848+34.35 P.I. 2470274' LT 1848+16.60 EXISTING FENCE	1847+00.00



CLASS	137' (1) (T)	250' (2)	327' (1)	429' (2)	1456' (1)	259' (1)	296' (2)	279' (1) (T)	249' (2)	1118' (1)
PIPE BAND	1848+00.00	1850+86.86	1854+03.11	1858+30.47	1872+75.06	1876+99.39	1879+58.74	1885+00.00	1885+33.38	1887+82.14
PRELIMINARY										



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	3576	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	1651	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	2	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

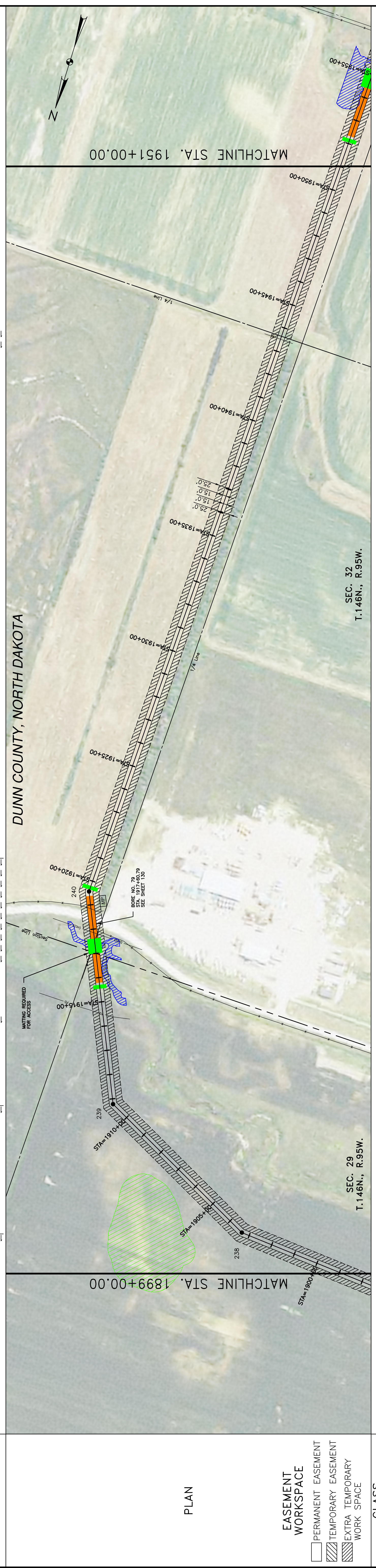
SCALE: 1"=200'

DRAWN BY: JACOBS
DATE: 9/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
JOB NUMBER: 1713271
REVISIONS: 0
SHEETS: 45

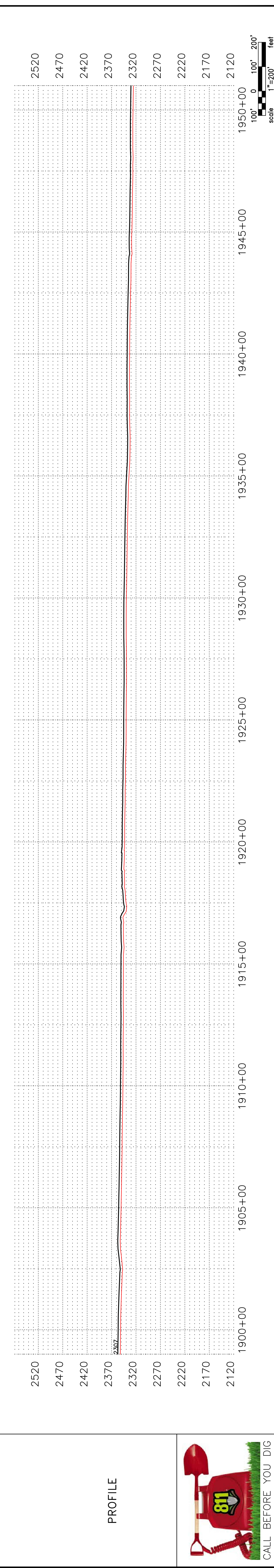
BOE PIPELINE PHASE II
SECTIONS 29 & 30, T146N, R96W
DUNN COUNTY, NORTH DAKOTA

SKACHENKO LLLP
4585 Coleman Street
Bismarck, ND 58503

OWNERSHIP	<p>(SKACHENKO LLLP) SW1/4 109.08 RODS</p> <p>(WALTER BLANKENSHIP) NW1/4NW1/4 S1/2NE1/4NW1/4 SW1/4NW1/4 NW1/4SW1/4 LESS 9.90 A 3.06 RODS</p> <p>(DAVID & GALE BICE) NE1/4 LESS .72 & 3.31 A 158.40 RODS</p> <p>(JOHN F. & CHERYL DOLEZAL) N1/2SE1/4 NE1/4SW1/4 SE1/4NW1/4 LESS .36 & 1.66 A 44.61 RODS</p>
STATIONING	<p>1899+00.00</p> <p>1903+32.52 P.L. 22'43"05" FT.</p> <p>1910+78.03 P.L. 38'38"33" FT.</p> <p>1916+99.86</p> <p>1917+50.28 1/4 LINE</p> <p>1917+47.95 EXISTING FENCE</p> <p>1917+50.03 DRAINAGE</p> <p>1916+99.86 SECTION LINE</p> <p>1917+49.63 FIBER OPTIC CABLE BURIED</p> <p>1917+50.28 1/4 LINE</p> <p>1917+45.54 OVERHEAD POWER LINES</p> <p>1918+33.18 EXISTING GRAVEL ROAD</p> <p>1918+46.81 CL ROAD</p> <p>1918+66.77 EXISTING GRAVEL ROAD</p> <p>1918+63.86 EXISTING FENCE</p> <p>1919+55.44 P.L. 25'34"29" FT.</p>



CLASS	<p>1662' (1)</p> <p>358' (2)</p> <p>3171' (1)</p>
PIPE BAND	PRELIMINARY



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4853	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	358	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
SECTION 28 & 32, T146N., R95W
DUNN COUNTY, NORTH DAKOTA

DOT
D.A.K.O.T.A. O.I.L. E.X.P.R.E.S.S.

SCALE: HORIZ. = 200'
DRAWN BY: JACOBS
DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: BESMER
JOB NUMBER: 1713271
REVISIONS: 0 SHEETS: 46

KLJ
4585 Coleman Street
Bismarck, ND 58503

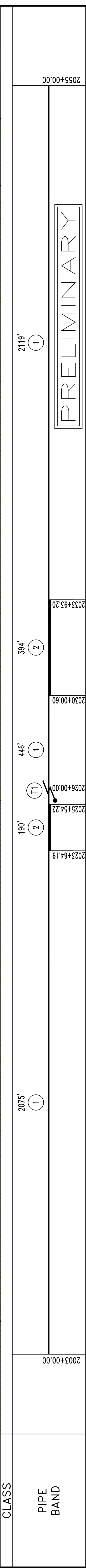
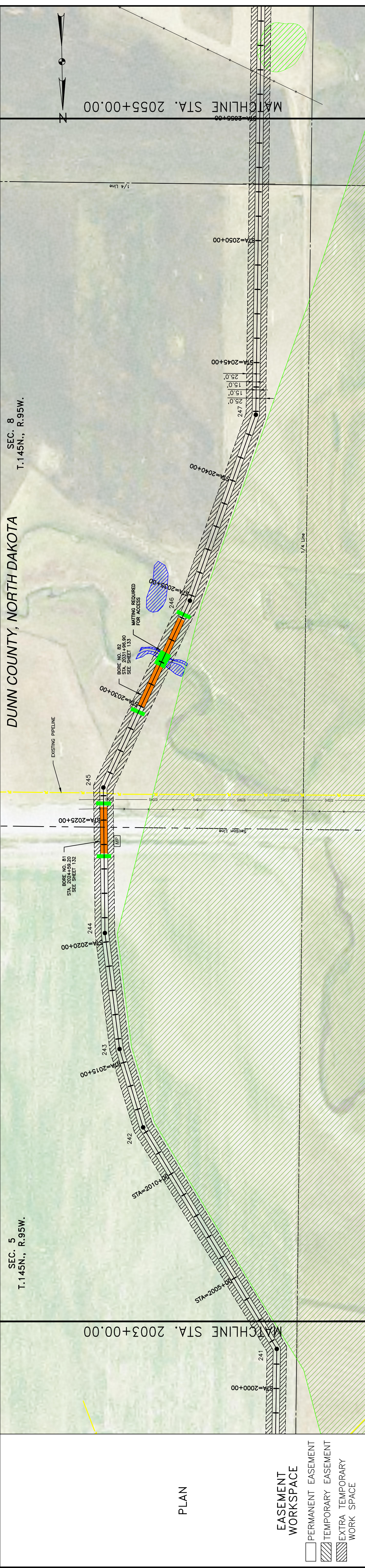
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GARY & KAROL ROSHAU
W1/2NE1/4 LESS .28 & 1.28 A & SE1/4
183.59 RODS

ARLIN & RUSSELL FISCHER
SE1/4 LESS .41 & 2.52 A
131.56 RODS

2003+00.00
2012+22.55 P.L. 14°20'13" RT.
2015+57.82 P.L. 9°33'08" RT.
2020+37.04 P.L. 6°35'48" RT.
2024+79.07 EXISTING GRAVEL ROAD
2024+79 SECTION LINE & CI. ROAD
2024+82.96 EXISTING FENCE
2025+46.51 EXISTING GRAVEL ROAD
2025+84.61 OVERHEAD POWER LINES
2026+11.70 PIPELINE SCAR
2026+33.57 P.L. 25°27'05" RT.
2032+18.45 DRAINAGE
2034+77.52 P.L. 5°19'27" LT.
2042+86.02 P.L. 18°46'01" LT.
2052+32.95 EXISTING FENCE
2055+00.00



CLASS	PIPE BAND	2075'	190'	446'	394'	2033+93.20	2030+00.60	2026+00.00	2025+54.22	2023+64.19	2025+00	2030+00	2035+00	2040+00	2045+00	2050+00	2055+00.00
2075'	1	190'	1	446'	1	2033+93.20	2030+00.60	2026+00.00	2025+54.22	2023+64.19	2025+00	2030+00	2035+00	2040+00	2045+00	2050+00	2055+00.00

LEGEND

- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP

AVOIDANCE AREA

- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4640'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	584'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 200'

SCALE: 1" = 200'

BOE PIPELINE PHASE II
SECTIONS 5 & 8, T.145N., R.95W
DUNN COUNTY, NORTH DAKOTA

DOT
D.A.K.K.E.N. O.I.L. E.X.P.R.E.S.S.

KLJ
4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE II
SECTIONS 5 & 8, T.145N., R.95W
DUNN COUNTY, NORTH DAKOTA

CALL BEFORE YOU DIG

OWNERSHIP

STATIONING

PLAN

EASEMENT WORKSPACE

- PERMANENT EASEMENT
- ▨ TEMPORARY EASEMENT
- ▩ EXTRA TEMPORARY WORK SPACE

CLASS

PIPE BAND

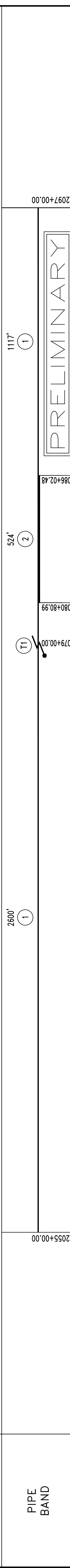
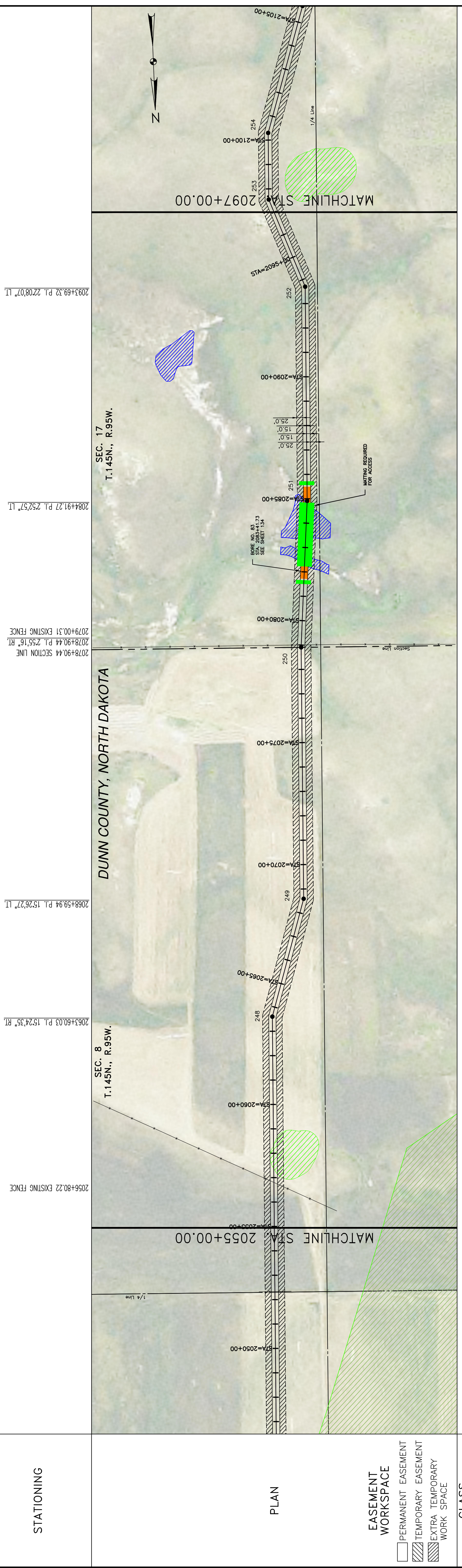
PROFILE

OWNERSHIP
 SANDRA R. SCHAEFER
 NE 1/4 & SE 1/4
 109.67 RODS

STATIONING
 2097+00.00
 2078+90.44
 2079+00.31 EXISTING FENCE
 2084+91.27 P.L. 252.57' LT.
 2093+69.32 P.L. 2208.07' LT.

OWNERSHIP
 GARY & KAROL ROSHAU
 W1/2NE1/4 LESS .28 & 1.28 A & SE1/4
 144.88 RODS

STATIONING
 2055+00.00
 2063+60.03 P.L. 1524.35' RT.
 2068+59.94 P.L. 1526.27' LT.
 2078+90.44 P.L. 252.57' LT.
 2079+00.31 EXISTING FENCE



MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS		
MK. NO.	QTY.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE
1	3717	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FB				
2	524	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FB, 30-35 MIL. AR				
T1	1	TYPE-1				

LEGEND

- UNDERGROUND COM. LINE
- - - EXISTING FENCE
- x - FIBER OPTIC COM. LINE
- - - EASEMENT WORKSPACE
- - - WATER LINE
- - - OVERHEAD ELECTRIC
- - - UTILITY POLE
- - - PROPOSED BORE
- - - EROSION/SEDIMENT CONTROL BMP
- - - EXISTING ROAD
- - - PROPERTY LINE
- - - SECTION LINE
- - - EASEMENT LINE
- - - PIPELINE CENTERLINE
- - - FOREIGN PIPELINE
- - - CO2 PIPELINE
- - - VALVE SETTING
- - - MARKER POST

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: HORIZ. = 200'
 VERT. = 200'

1" = 200'

SCALE: HORIZ. = 200'
 VERT. = 200'

1" = 200'

CALL BEFORE YOU DIG

DOT
 DAKOTA OIL & GAS EXPRESS

BAKKEN OIL EXPRESS PIPELINE
 BOE PIPELINE PHASE II
 SECTIONS 8 & 17, T.145N., R.95W
 DUNN COUNTY, NORTH DAKOTA

SCALE: HORIZ. = 200'
 VERT. = 200'

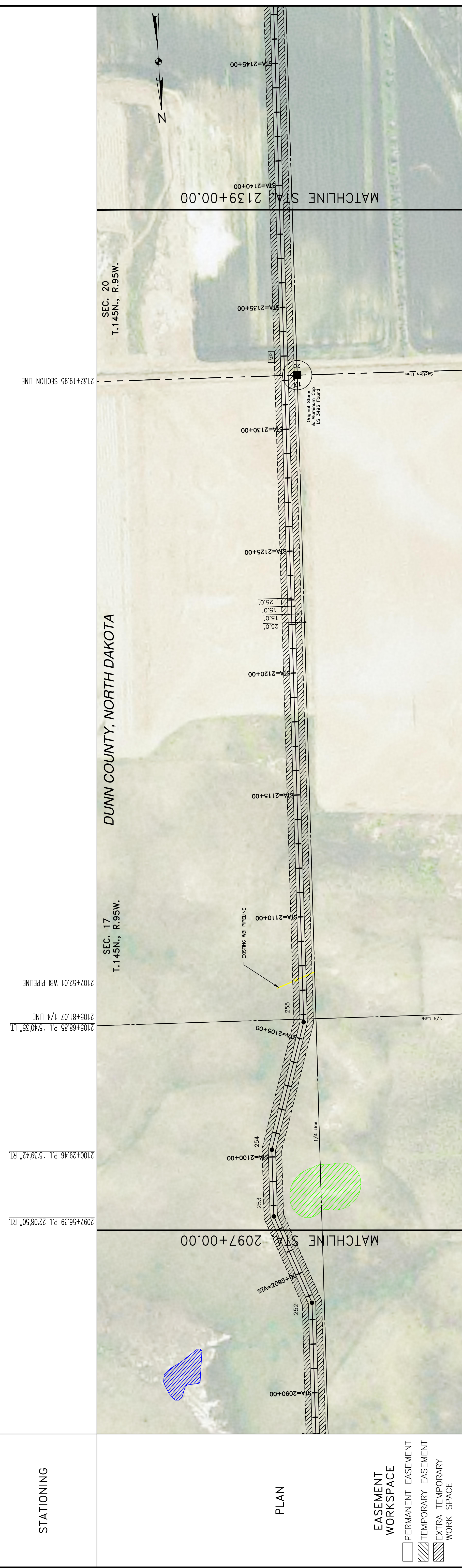
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 DATE: 8/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BESMER
 ALU JOB NUMBER: 1713271
 REVISIONS: 0 SHEETS: 49

P:\01\BakkenOilExpress\1713271- BOE Pipeline Phase II\Cadd\Preliminary\Alignment\1713271BAS01.dwg

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OWNERSHIP
 SANDRA R. SCHAEFER
 NE1/4 & SE1/4
 213.33 RODS

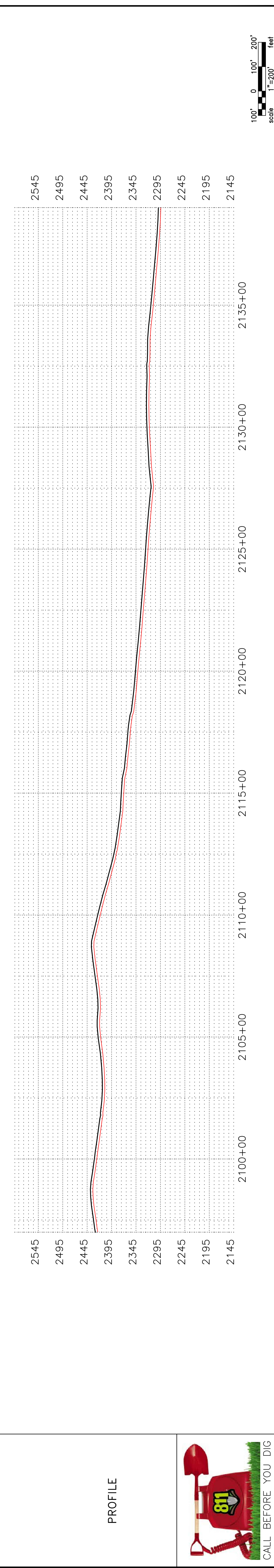
STATIONING
 NE1/4 LESS 4.80 & 4.37 A
 41.22 RODS



EASEMENT WORKSPACE
 PERMANENT EASEMENT
 TEMPORARY EASEMENT
 EXTRA TEMPORARY WORK SPACE

CLASS
 4231' (1)

PIPE BAND
 PRELIMINARY



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	4231'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE TYPE-1
T1	1	

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: HORIZ. = 200'
 VERT. = 200'
 scale 1" = 200' feet

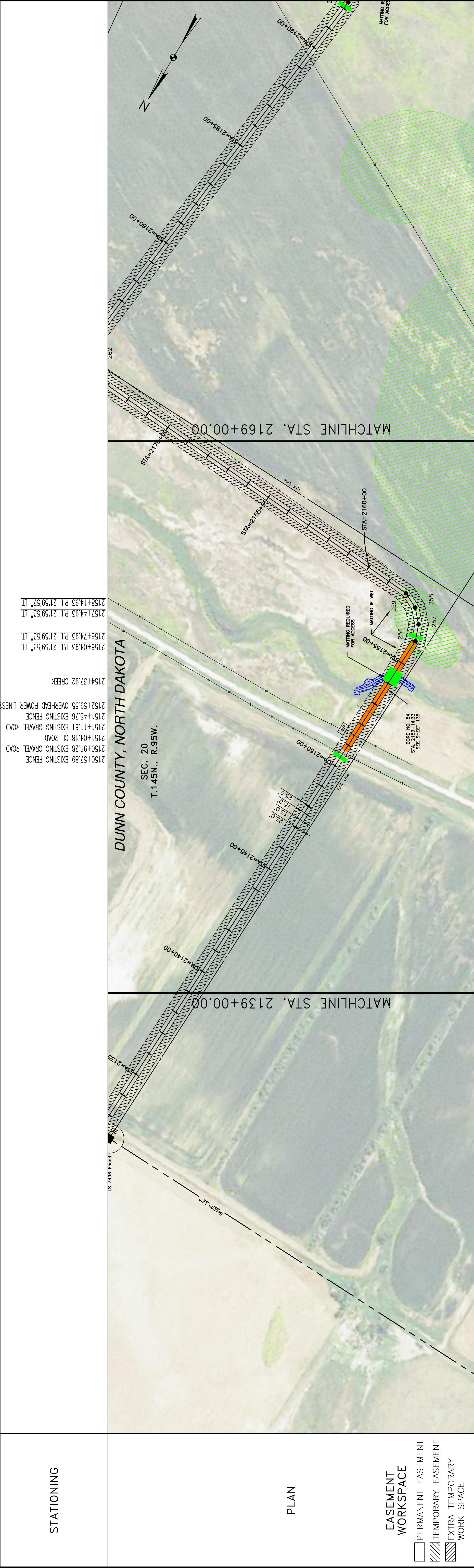
BRAND: P. JACOBS
DATE: 8/8/2016
CHECKED BY: D. DIONNE
APPROVED BY: B. BRESMER
AU. JOB NUMBER: 1713271
REVISIONS: 0
SHEETS: 50

BOE PIPELINE PHASE II
 SECTIONS 17 & 20, T145N., R95W
 DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
 4585 Coleman Street
 Bismarck, ND 58503
 © KLJ 2016

OWNERSHIP: SANDRA R. SCHAEFER
 NE 1/4 LESS 4.80 & 4.37 A & SE 1/4 LESS 1.05 A & 10 ACRE TRACT
 181.82 RODS
 STATIONING: 2139+00.00 to 2169+00.00

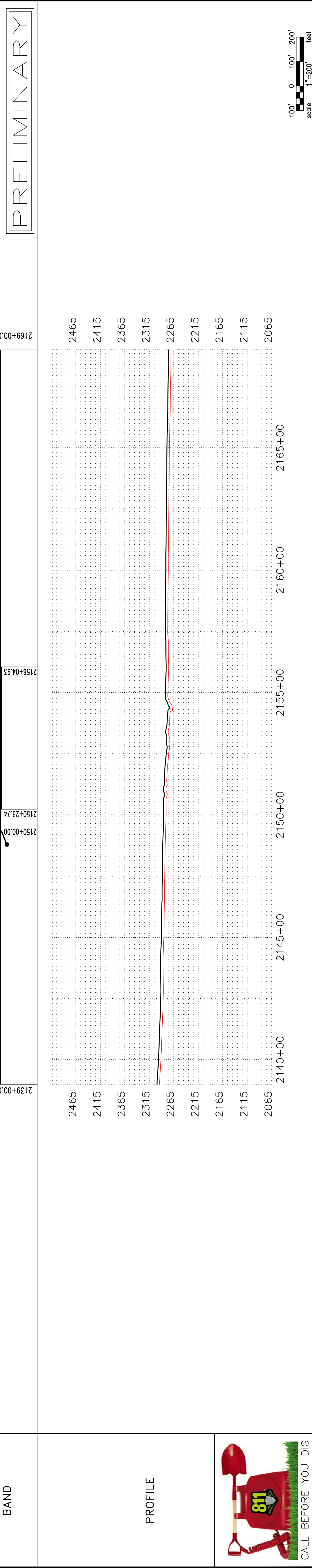


CLASS

PIPE BAND

1134' (1) 583' (2) 1302' (1)

2139+00.00 2150+00.00 2156+04.93 2169+00.00



LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2436'	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL. FBE
2	583'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL. FBE, 30-35 MIL. ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

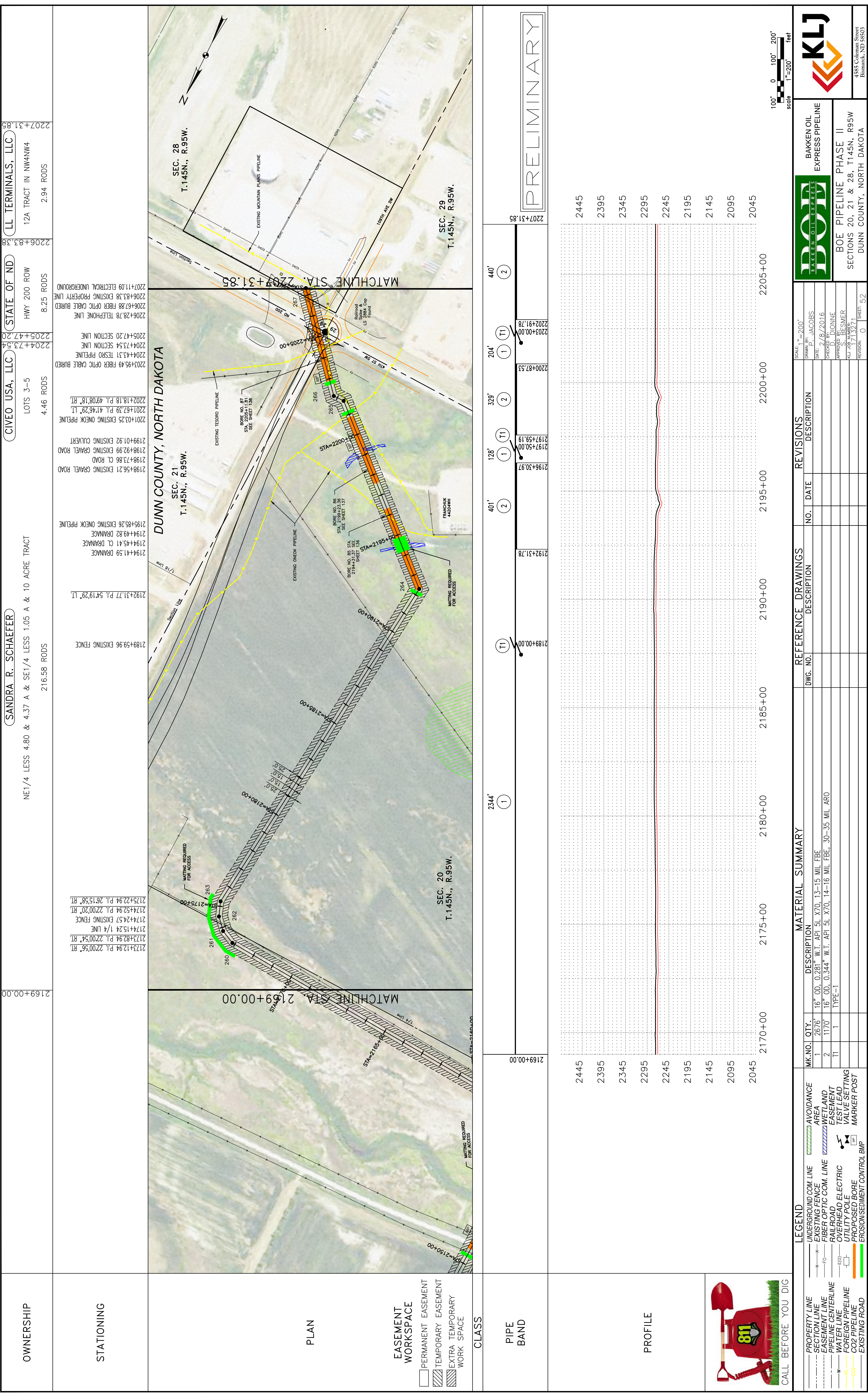
MATERIAL SUMMARY

SCALE: HORIZ. = 200'
 DRAWN BY: JACOBS
 DATE: 7/8/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: BESMER
 AUL JOB NUMBER: 1713271
 REVISIONS: 0
 SHEETS: 51

BOE PIPELINE PHASE II
 SECTION 20, T145N, R95W
 DUNN COUNTY, NORTH DAKOTA

DOT
 DAKOTA OIL EXPRESS

KLJ
 4585 Coleman Street
 Bismarck, ND 58503
 © KLJ 2016



NE1/4 LESS 4.80 & 4.37 A & SE1/4 LESS 1.05 A & 10 ACRE TRACT
 216.58 RODS

(SANDRA R. SCHAEFER)

2169+00.00

2173+12.94 P.L. 22'00"56" RT.
 2174+15.24 1/4 LINE
 2174+24.57 EXISTING FENCE
 2174+52.94 P.L. 22'00"20" RT.
 2175+22.94 P.L. 26'15"58" RT.

2189+59.96 EXISTING FENCE
 2192+31.77 P.L. 54'19"29" LT.
 2194+41.59 DRAINAGE
 2194+45.41 CL DRAINAGE
 2194+49.82 DRAINAGE
 2195+85.26 EXISTING ONEOK PIPELINE
 2198+56.21 EXISTING GRAVEL ROAD
 2198+73.86 CL ROAD
 2198+92.99 EXISTING GRAVEL ROAD
 2199+01.92 EXISTING CULVERT
 2201+03.29 EXISTING ONEOK PIPELINE
 2201+67.39 P.L. 47'46"29" LT.
 2202+18.18 P.L. 49'08"18" RT.

2203+95.49 FIBER OPTIC CABLE BURIED
 2204+43.31 TESRO PIPELINE
 2204+73.54 SECTION LINE
 2205+47.29

(CIVEO USA, LLC)

LOTS 3-5
 4.46 RODS

2206+83.53

2206+87.88 FIBER OPTIC CABLE BURIED
 2206+93.38 EXISTING PROPERTY LINE
 2207+11.09 ELECTRICAL UNDERGROUND

(LL TERMINALS, LLC)

12A TRACT IN NW4NW4
 2.94 RODS

2207+31.85

OWNERSHIP

STATIONING

PLAN

EASEMENT WORKSPACE

CLASS

PIPE BAND

PROFILE

CALL BEFORE YOU DIG

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- CO2 PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING
- MARKER POST

LEGEND (continued)

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA TEMPORARY WORK SPACE

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2676	16" OD, 0.281" W.T. API 5L X70, 13-15 MIL FBE
2	1170	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO
T1	1	TYPE-1

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

PIPE BAND

STATIONING	PIPE BAND
2169+00.00	2344' (1)
2192+31.78	401' (2)
2196+50.97	128' (1)
2197+50.00	128' (1)
2197+59.19	329' (2)
2200+87.53	204' (1)
2203+00.00	204' (1)
2203+91.78	440' (2)

PRELIMINARY

SCALE: 1"=200'

0 100' 200'

1"=200'

feet

BOE PIPELINE PHASE II
 SECTIONS 20, 21 & 28, T145N, R95W
 DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

DOT
 DAKOTA OIL EXPRESS

SCALE: 1"=200'

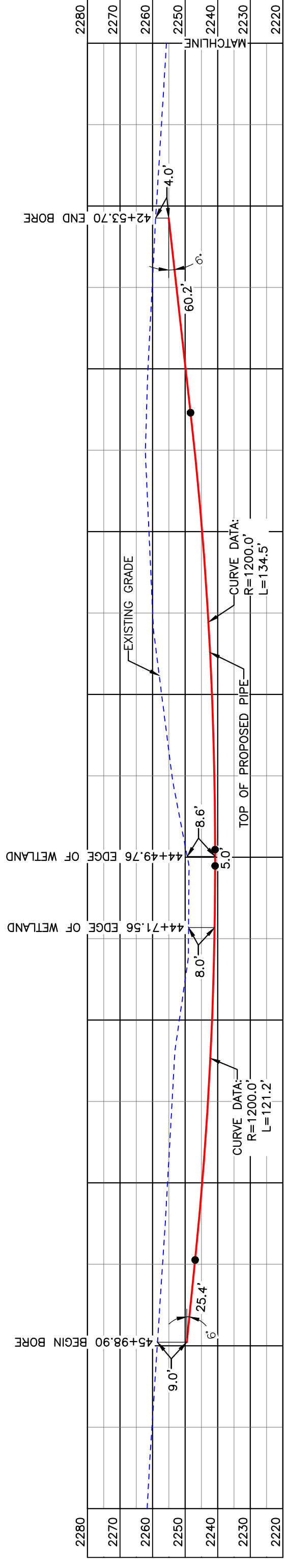
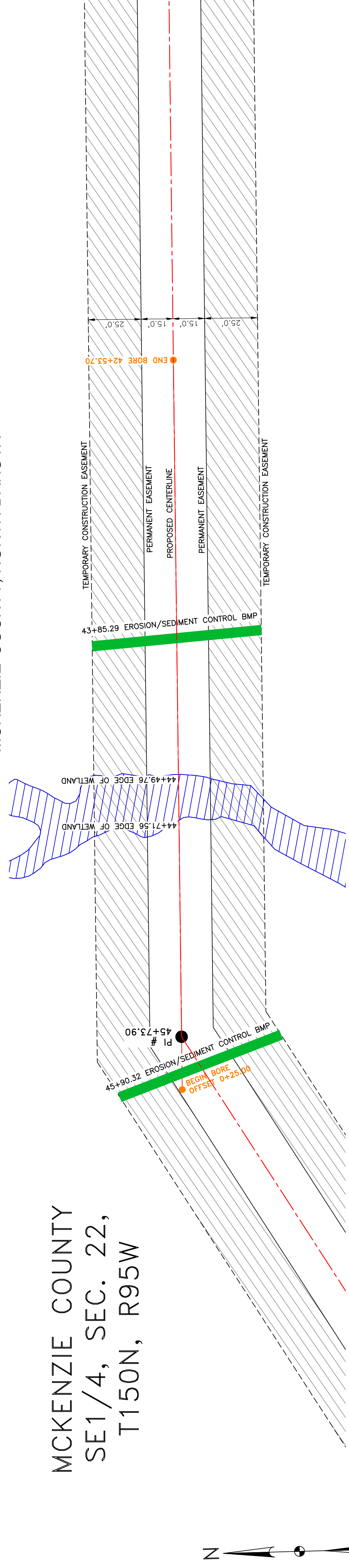
DRAWN BY: P. JACOBS
 DATE: 8/18/2016
 CHECKED BY: D. DIONNE
 APPROVED BY: J. BESMER
 ALO JOB NUMBER: 1713271
 REVISIONS: 0
 SHEETS: 52

4585 Coleman Street
 Bismarck, ND 58503

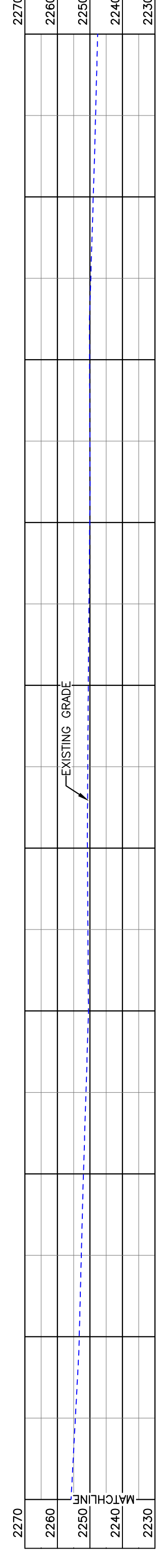
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BOE PIPELINE PHASE II WETLAND CROSSING BORE #1 MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
SE1/4, SEC. 22,
T150N, R95W



BORE DESIGN

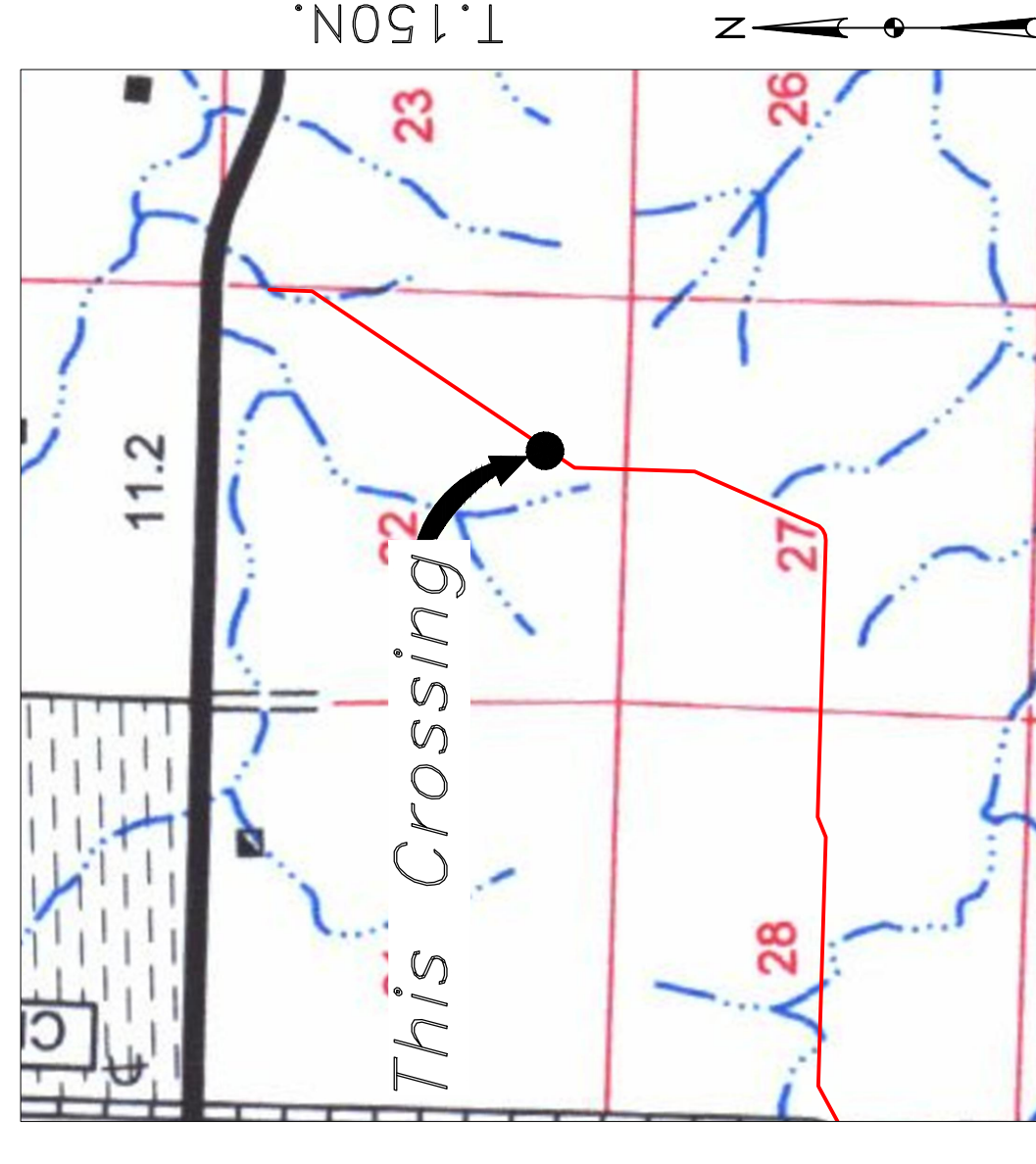


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	45+98.90	47°47'28.82" N	102°49'19.11" W
END BORE	42+53.70	47°47'31.70" N	102°49'16.41" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 345.20 FT.
TOTAL BORE LENGTH = 346.30 FT.



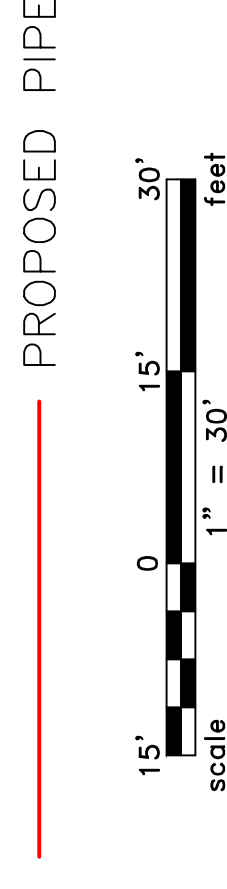
Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

—	PROPERTY LINE
—	SECTION LINE
—	PIPE ROAD
—	WATER LINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
—	EXISTING FENCE
—	FIBER OPTIC COM. LINE
—	WETLAND EASEMENT
—	UTILITY POLE
—	PROPOSED PIPE
—	EROSION/SEDIMENT CONTROL BMP
—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	347'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

DRAWN BY: A. ROMANN
 DATE: 2/4/2016
 CHECKED BY:
 APPROVED BY:
 BOE APPROVED BY:
 KJL JOB NO.: 1713271
 REVISION:
 SHEET: 5/3

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #1**

BOE OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

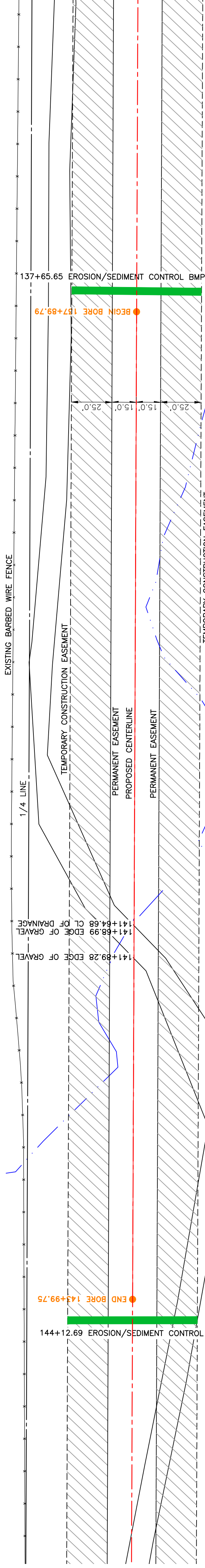
SECTION 22, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503

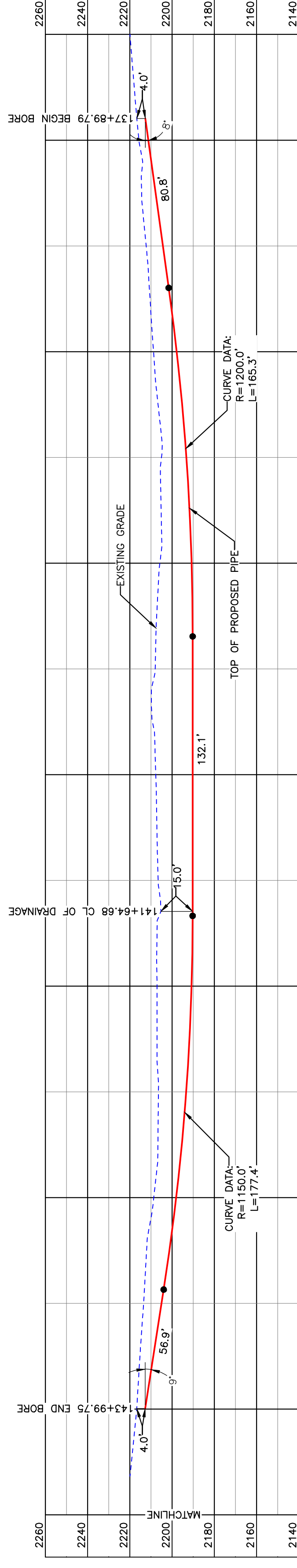
KLJ

BOE PIPELINE PHASE II DRAINAGE CROSSING BORE #2 MCKENZIE COUNTY, NORTH DAKOTA

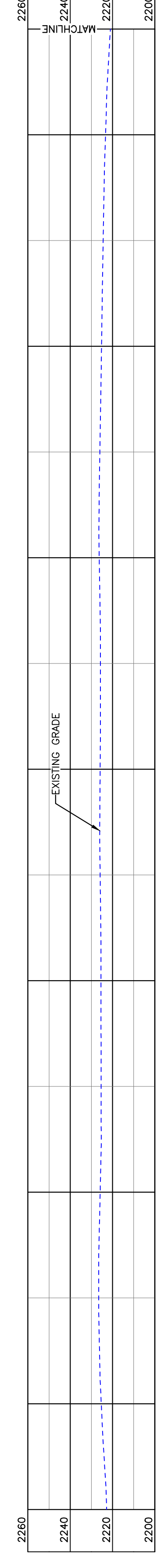
MCKENZIE COUNTY
NW1/4, SEC. 28,
T150N, R95W



MCKENZIE COUNTY
SW1/4, SEC. 28,
T150N, R95W



BORE DESIGN

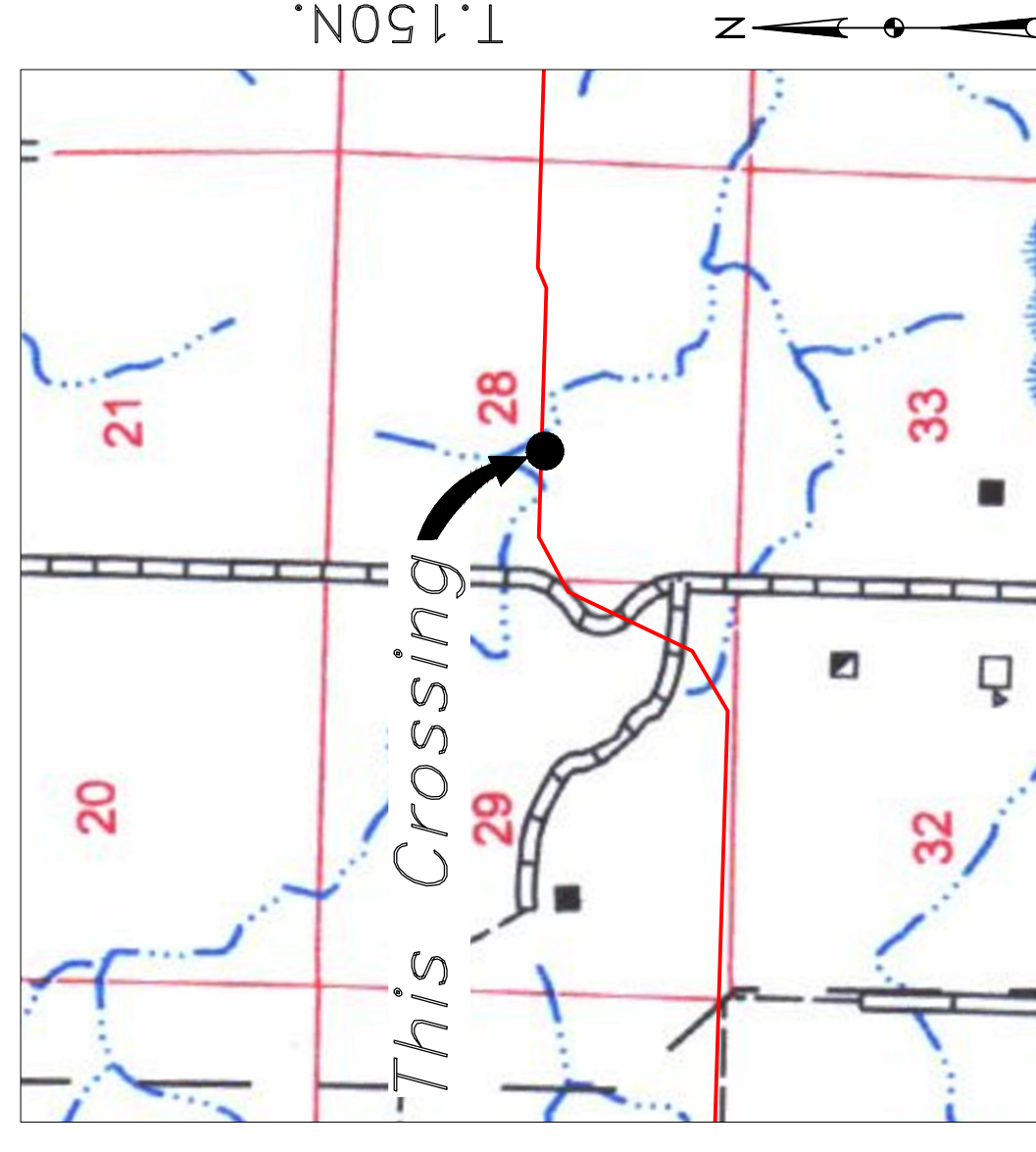


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	137+89.79	47°46'56.04" N	102°05'54.79" W
END BORE	143+99.75	47°46'56.04" N	102°51'03.72" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 609.96 FT.
TOTAL BORE LENGTH = 612.5 FT.



Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

20' 0 20' 40'
 scale
 1" = 40' feet

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	GRADE CENTERLINE	—	EASEMENT
—	WATER LINE	—	UTILITY POLE
—	FORESHORE PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	613'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 40'

DRAWN BY: A. ROMANN
 DATE: 2/4/2016
 CHECKED BY:
 APPROVED BY:
 BOE APPROVED BY:
 KJL JKL
 REVISION: 5-4

**BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #2**

SECTION 28, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**

KLJ

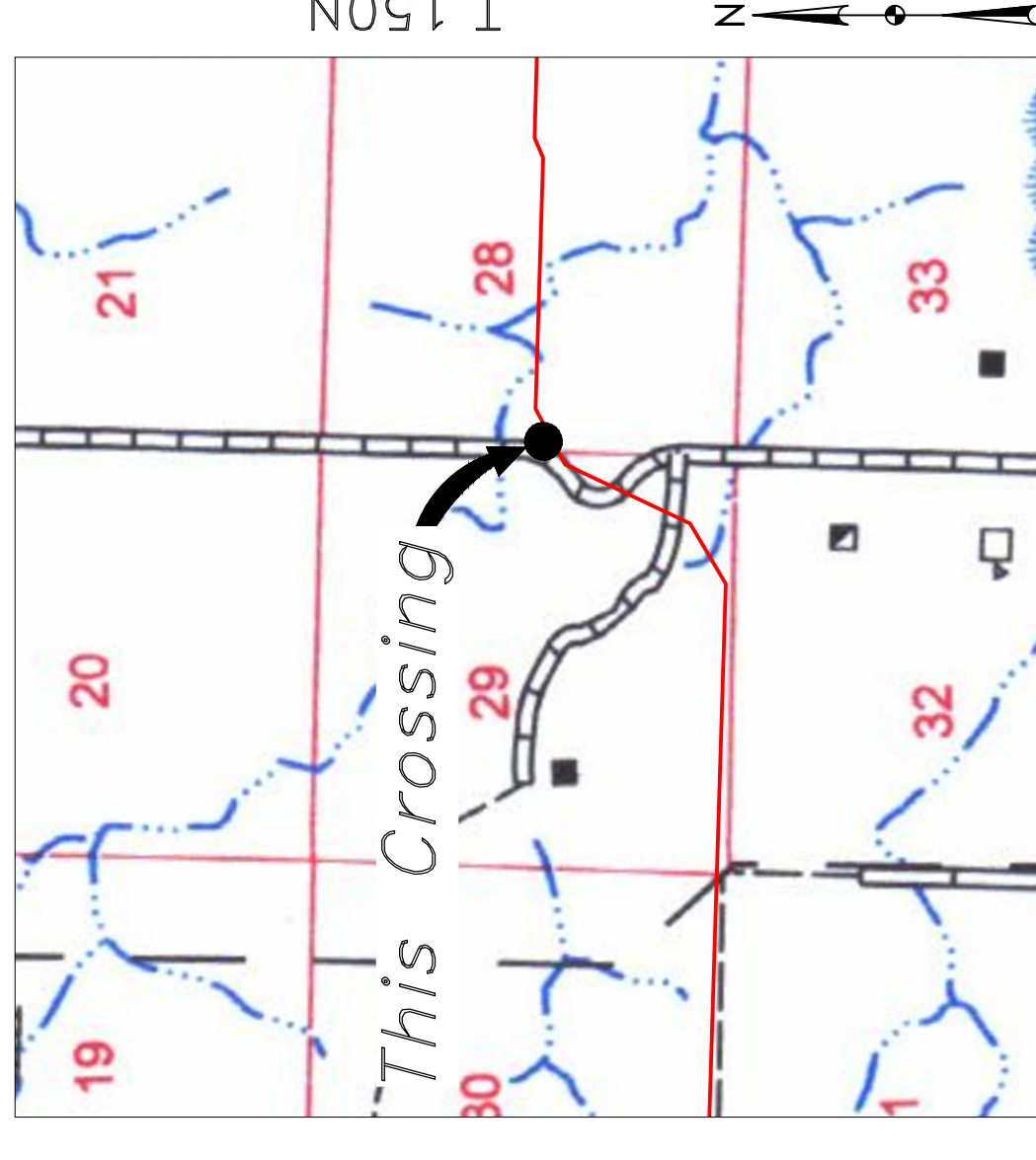
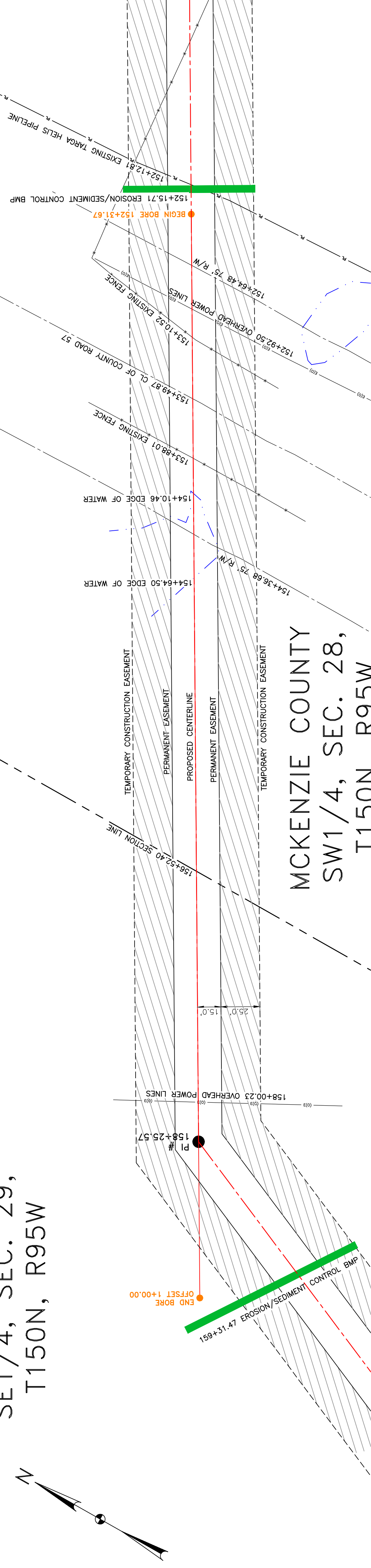
1555 Columbia Street
 Bismarck, ND 58503

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BOE PIPELINE PHASE II COUNTY ROAD 57 & CREEK CROSSING BORE #3 MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
SE1/4, SEC. 29,
T150N, R95W

MCKENZIE COUNTY
SW1/4, SEC. 28,
T150N, R95W



Location Map

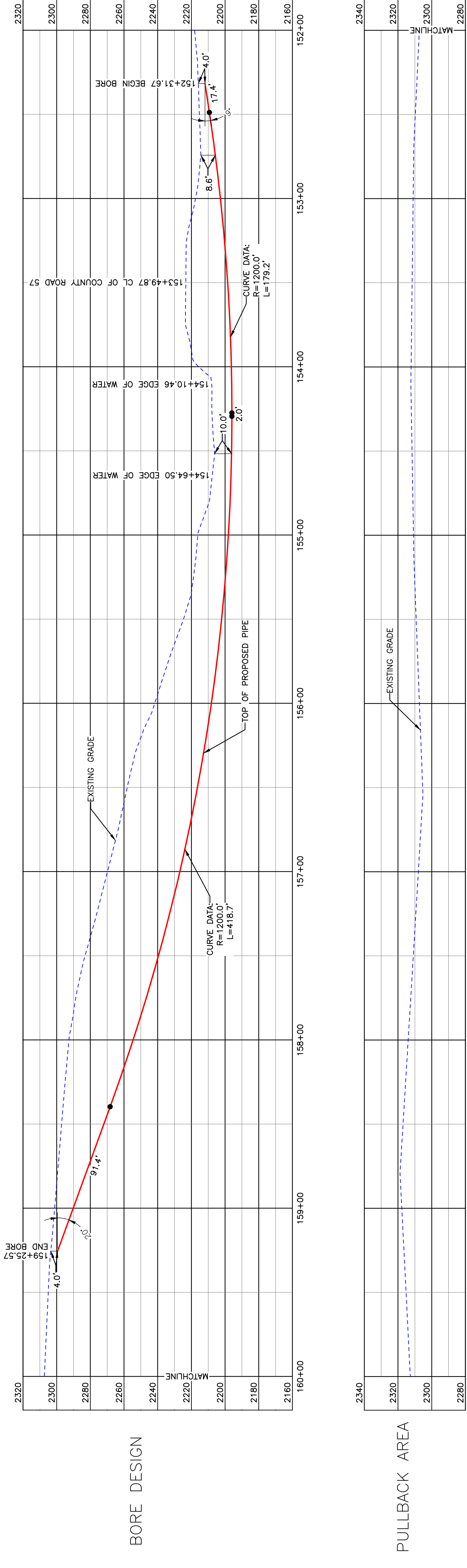
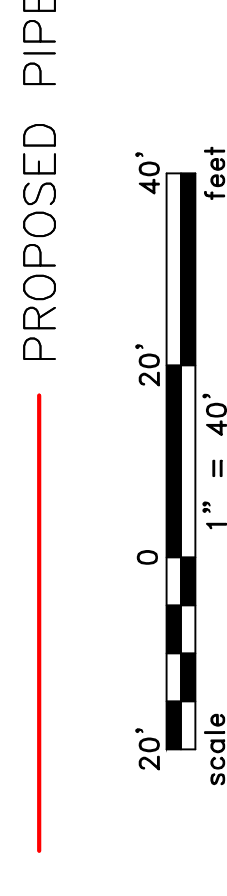


Aerial Map

NOTE:
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND



BORE DESIGN

PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	152+31.67	47°46'55.04" N	102°51'15.50" W
END BORE	159+25.57	47°46'51.62" N	102°51'24.30" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 693.90 FT.
TOTAL BORE LENGTH = 708.7 FT.

LEGEND

---	PROPERTY LINE	---	EXISTING FENCE
---	SECTION LINE	---	FIBER OPTIC COM. LINE
---	RAILROAD	---	WETLAND
---	RAILROAD CENTERLINE	---	EASEMENT
---	WATER LINE	---	UTILITY POLE
---	EXISTING PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	709'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

REVISIONS

NO.	DATE	DESCRIPTION

SCALE

SCALE: 1" = 40'

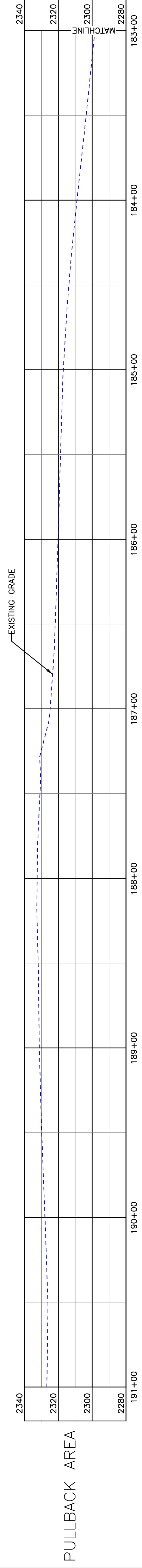
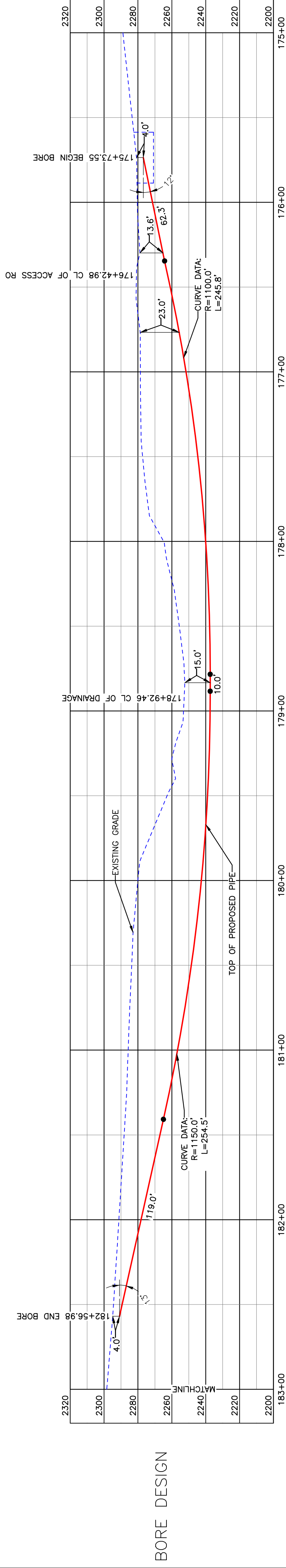
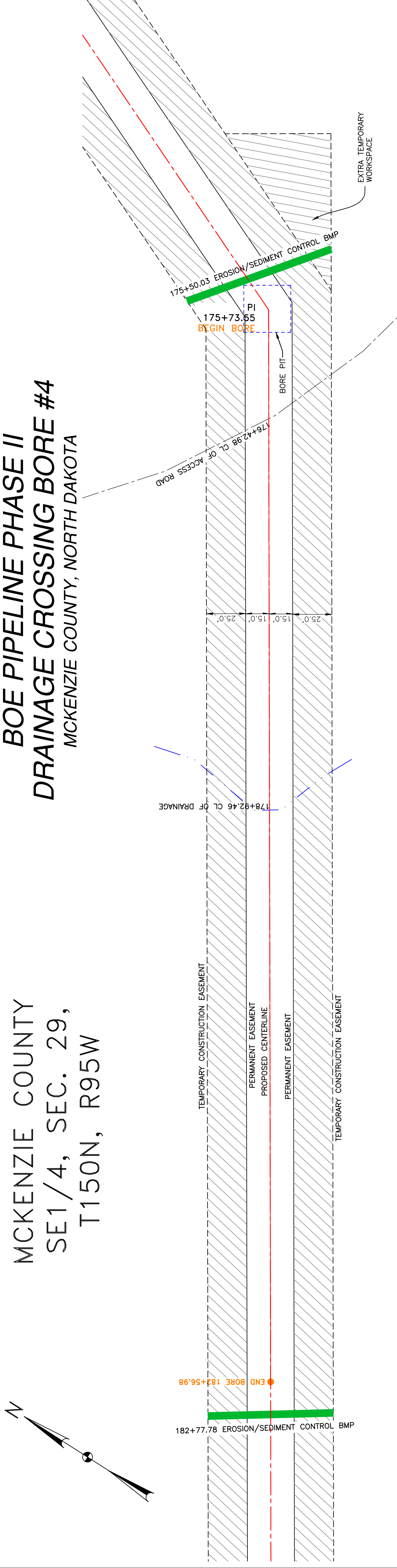
DRAWN BY: A. ROMANN
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
DATE:
REVISION:

**BOE PIPELINE PHASE II
COUNTY ROAD 57 & CREEK CROSSING BORE #3
SECTIONS 28 & 29, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA**

KLJ
Bakken Oil Express
1555 Columbia Street
Bismarck, ND 58503
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MCKENZIE COUNTY
SE1/4, SEC. 29,
T150N, R95W

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #4
MCKENZIE COUNTY, NORTH DAKOTA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	175+73.55	47°46'36.31" N	102°51'33.30" W
END BORE	182+56.98	47°46'32.71" N	102°51'41.76" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 683.43 FT.
TOTAL BORE LENGTH = 691.6 FT.

LEGEND

---	PROPERTY LINE	---	EXISTING FENCE
---	SECTION LINE	---	FIBER OPTIC COM. LINE
---	RAILROAD	---	WETLAND
---	RAILROAD CENTERLINE	---	EASEMENT
---	WATER LINE	---	UTILITY POLE
---	FOREIGN PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	692'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 40'

DRAWN BY: A. ROMANN
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KJL JLN
REVISION:
SHEET: 5/6

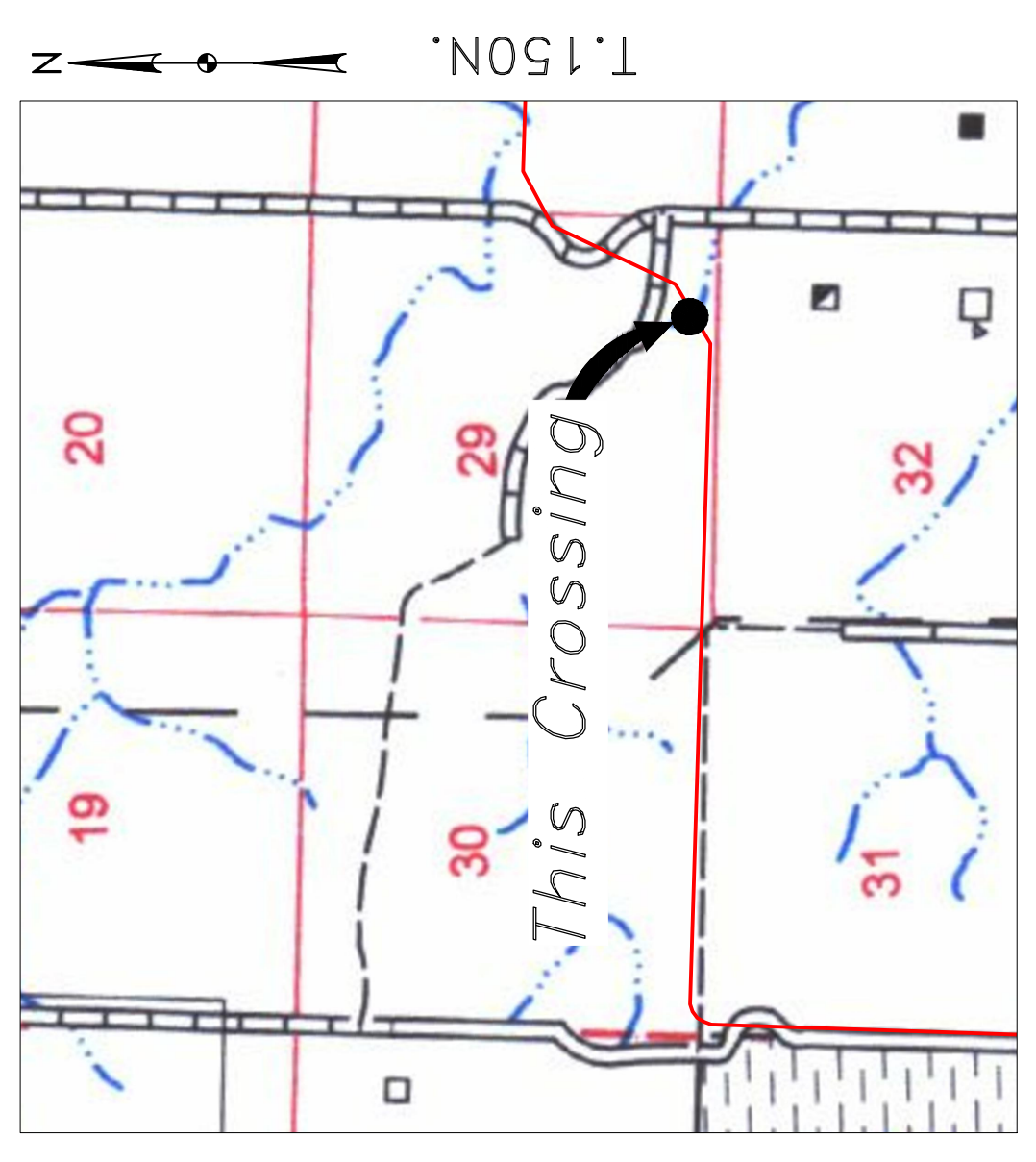


BAKKEN OIL EXPRESS
EXPRESS PIPELINE



BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #4
SECTION 29, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503
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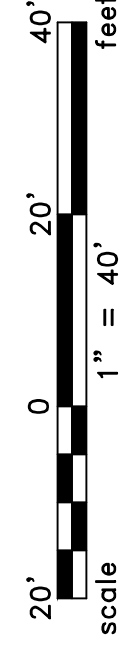
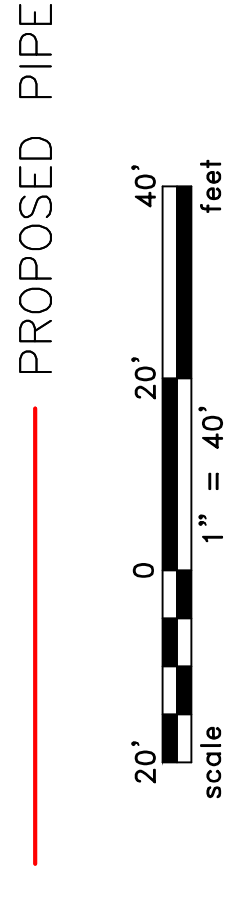
Location Map



Aerial Map

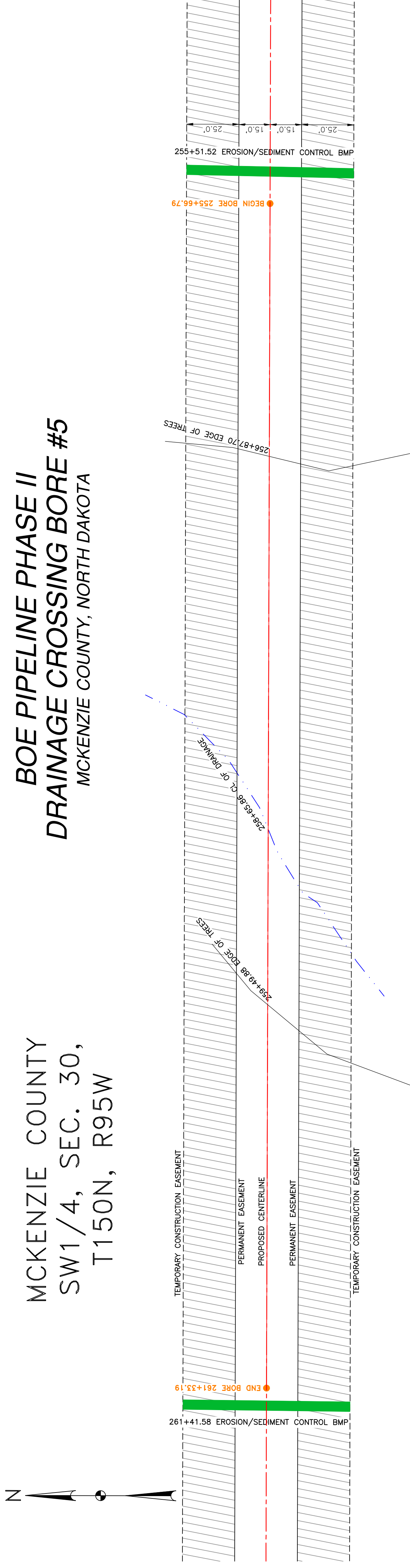
PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

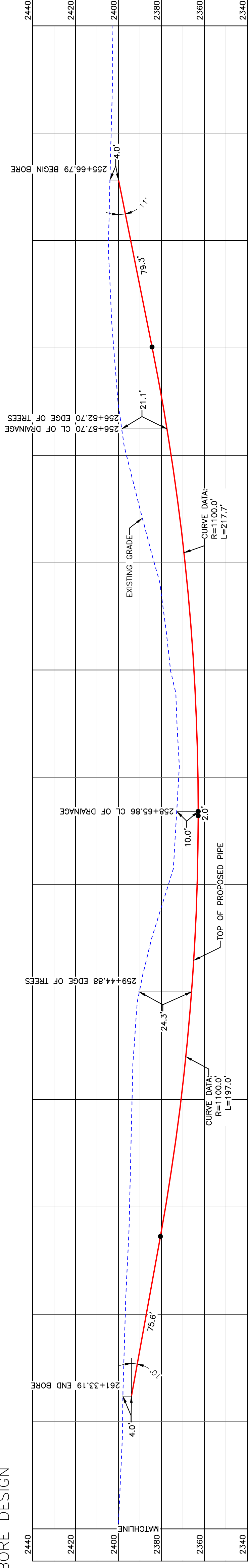


MCKENZIE COUNTY
SW1/4, SEC. 30,
T150N, R95W

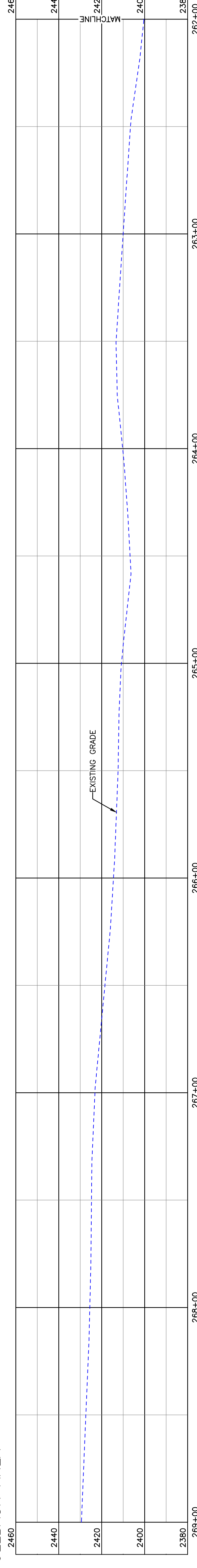
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #5
MCKENZIE COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA

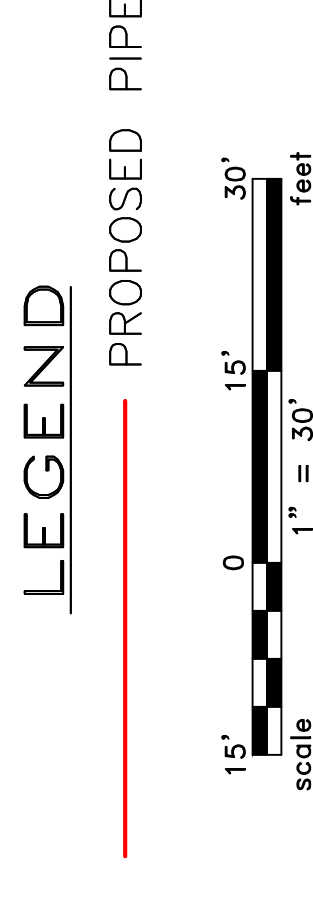


BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	255+66.79	47°46'31.67" N	102°51'28.30" W
END BORE	261+33.19	47°46'31.67" N	102°51'36.59" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 566.40 FT.
TOTAL BORE LENGTH = 571.6 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO



Location Map



Aerial Map

LEGEND

- PROPERTY LINE
- SECTION LINE
- GRASSLAND
- WATER LINE
- FOREIGN PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- VOIDANCE
- FIBER OPTIC COM. LINE
- RAILROAD
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST
- WETLAND
- EASEMENT
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	572'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #5

SCALE: 1" = 30'	DRAWN BY: A. ROMANN
DATE: 2/4/2016	CHECKED BY:
APPROVED BY:	BORE APPROVED BY:
KLJ 1713271	KLJ 1713271
REVISION:	SHEET: 57



BAKKEN OIL EXPRESS
EXPRESS PIPELINE



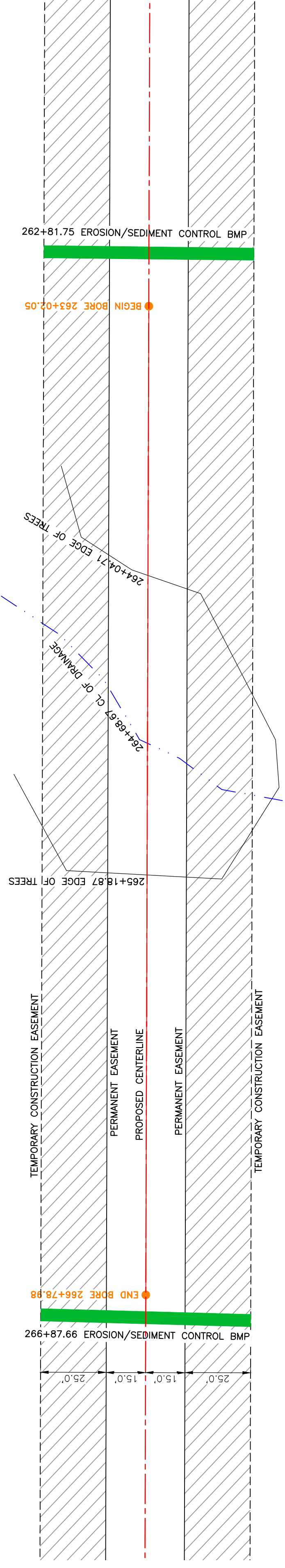
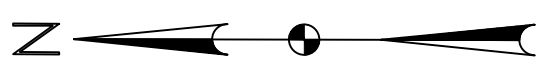
SECTION 30, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503

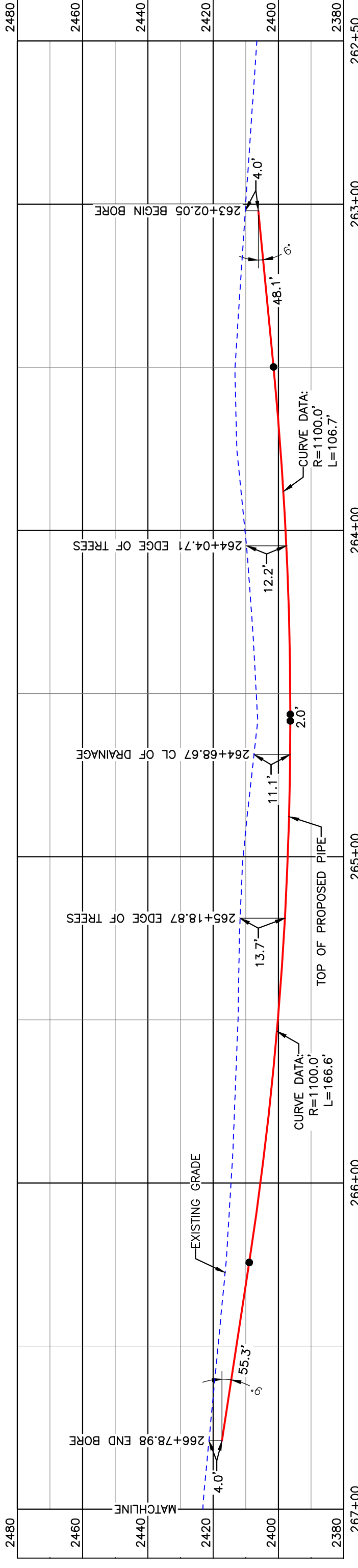
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MCKENZIE COUNTY
SW1/4, SEC. 30,
T150N, R95W

**BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #6**
MCKENZIE COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	263+02.05	47°46'31.67" N	102°53'39.07" W
END BORE	266+78.98	47°46'31.67" N	102°53'44.58" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 376.93 FT.
TOTAL BORE LENGTH = 378.7 FT.



R.95W.

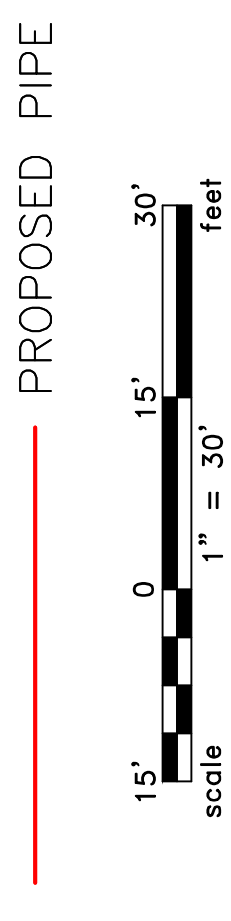
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-1.6 MILs FBE, 30-35 MILs ARO

LEGEND



LEGEND

—	PROPERTY LINE	—*	EXISTING FENCE
—	SECTION LINE	—10	FIBER OPTIC COM. LINE
---	RAILROAD	---	EASEMENT
- - -	RAILROAD CENTERLINE	---	WETLAND
—	WATER LINE	—(0)	UTILITY POLE
—	WATER LINE CENTERLINE	—	UTILITY POLE
—	EXISTING PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	379'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

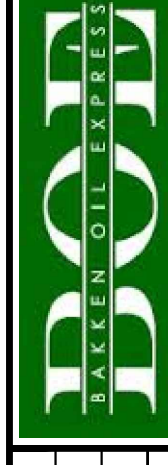
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'
DRAWN BY: A. ROMANN
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KLJ JOB NO: 1713271
REVISION:
SHEET: 5/8

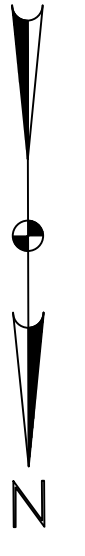


BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #6
SECTION 30, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

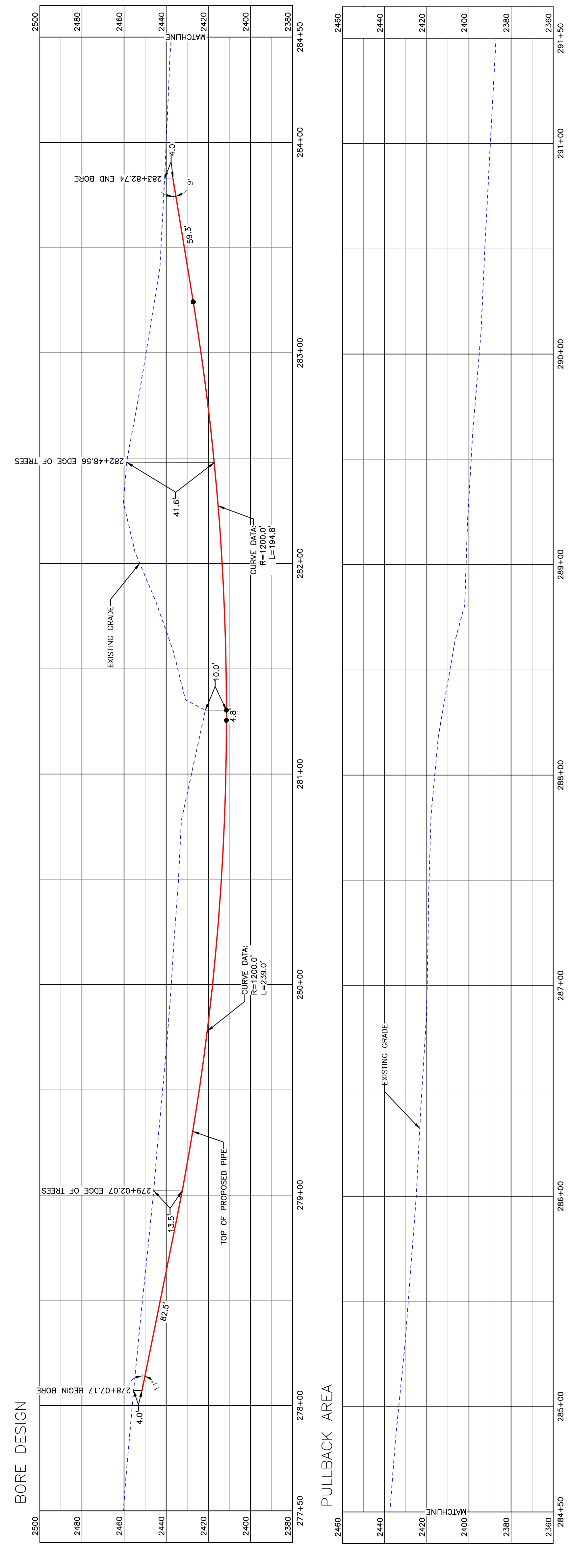
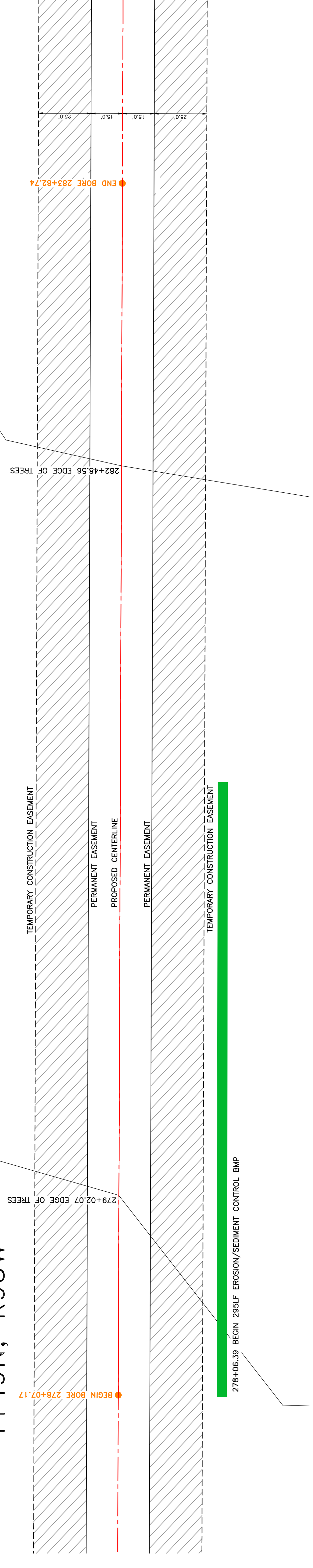


1555 Columbia Street
Bismarck, ND 58503
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MCKENZIE COUNTY
NW1/4, SEC. 31,
T149N, R95W

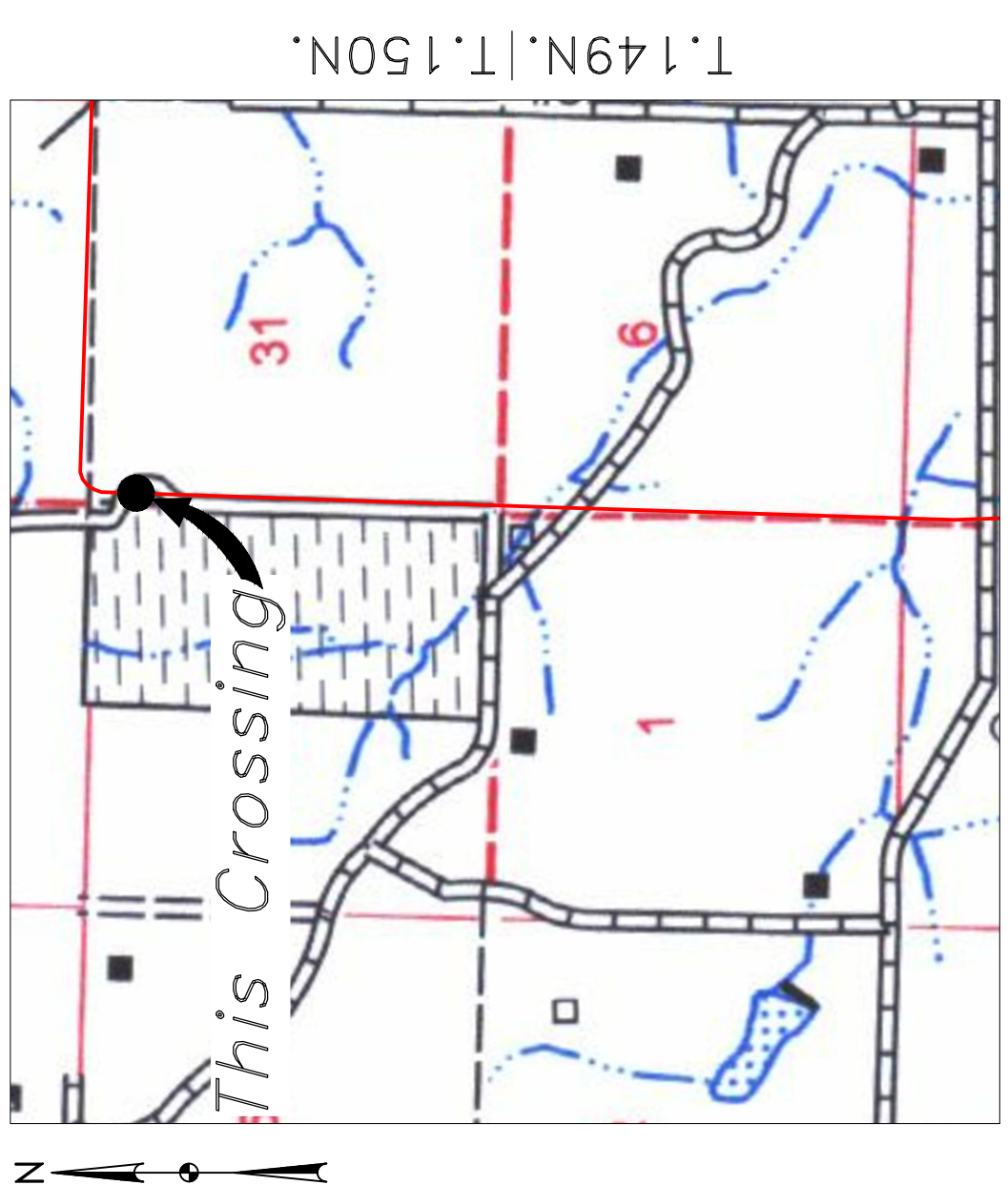
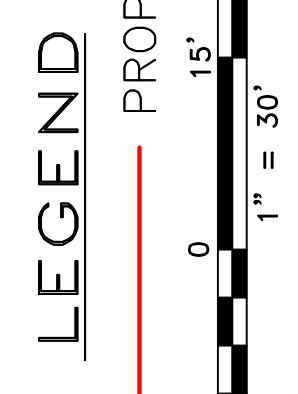
**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #7**
MCKENZIE COUNTY, NORTH DAKOTA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	278+07.17	47°46'24.50" N	102°53'52.40" W
END BORE	283+82.74	47°45'18.82" N	102°53'52.43" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 575.57 FT.
TOTAL BORE LENGTH = 580.4 FT.



Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		WETLAND EASEMENT
	RIGHT-OF-WAY CENTERLINE		ELECTRIC UTILITY POLE
	WATER LINE		PROPOSED BORE
	FOREGROUND PIPELINE		EROSION CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	581'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

SCALE: 1" = 30'

SCALE: 1" = 30'

BOE PIPELINE PHASE II

BORE #7

SECTION 31, T150N., R95W. & SECTION 6, T149N., R95W., MCKENZIE COUNTY, NORTH DAKOTA

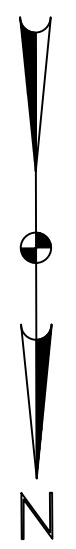
BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

KLJ

KLJ CONSULTANTS
Bismarck, ND 58503

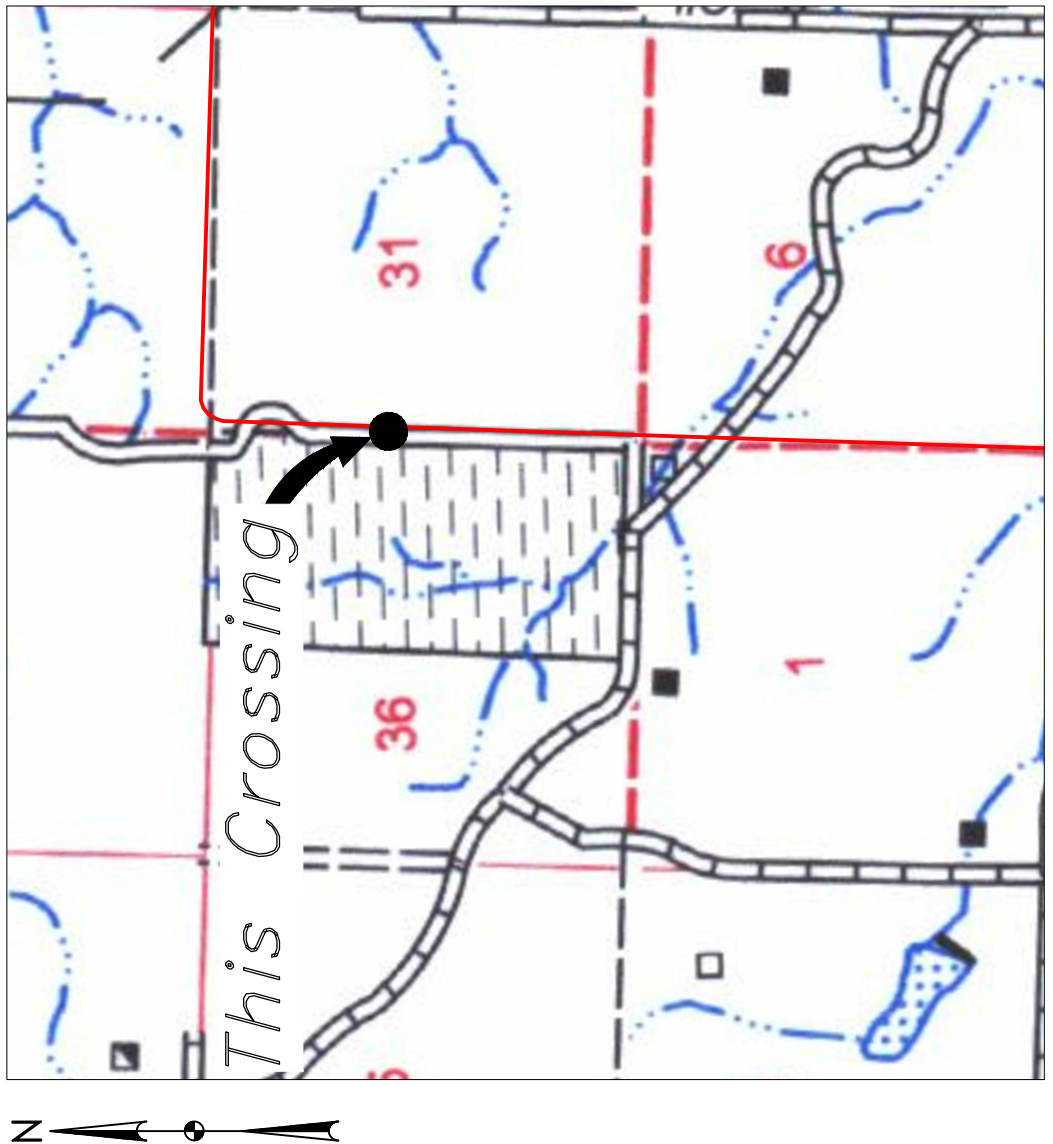
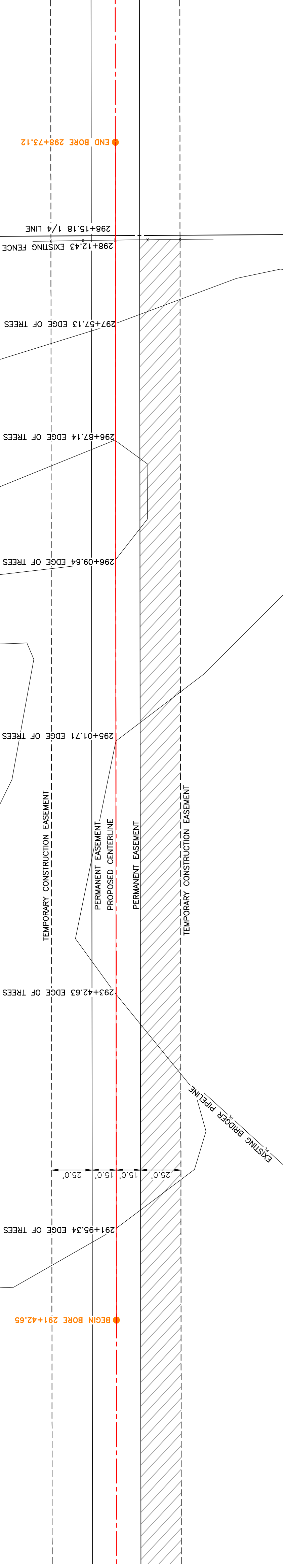
DRAWN BY: A. ROMANN
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
REVISION: 5/0



MCKENZIE COUNTY
NW1/4, SEC. 31,
T150N, R95W

BOE PIPELINE PHASE II TREE LINE CROSSING BORE #8

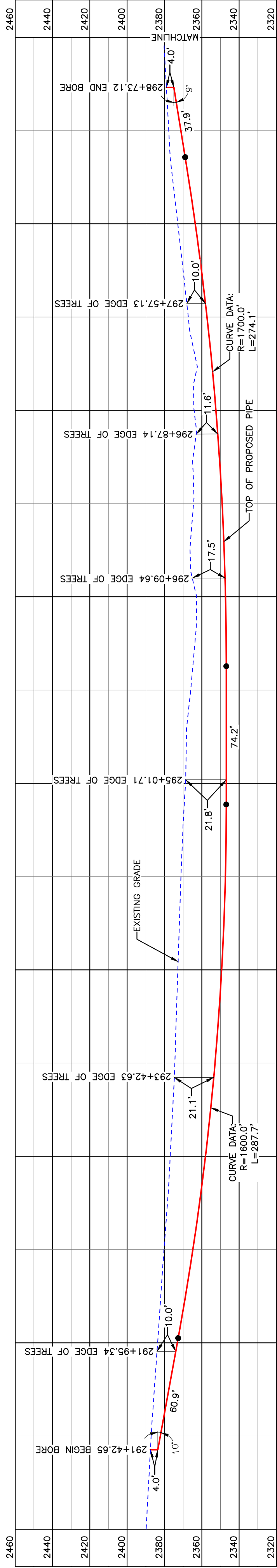
MCKENZIE COUNTY, NORTH DAKOTA



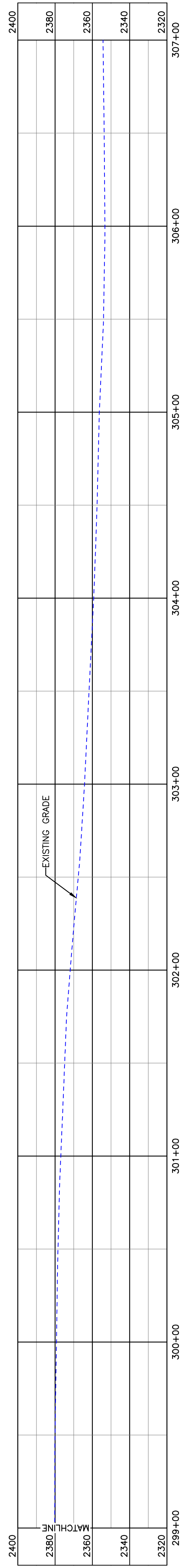
R.96W. | R.95W.
Location Map



Aerial Map



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	291+42.65	47°46'11.32" N	102°53'52.47" W
END BORE	298+73.12	47°46'04.11" N	102°53'52.11" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 730.47 FT.

TOTAL BORE LENGTH = 734.8 FT.

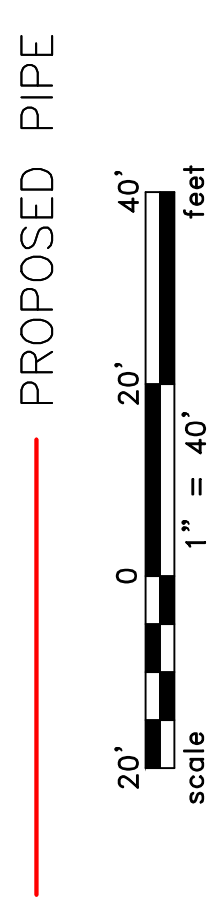
NOTE:

- EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. - API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND



LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		WETLAND EASEMENT
	RIGHT-OF-WAY		ELECTRIC UTILITY POLE
	WATER LINE		PROPOSED BORE
	EXISTING PIPELINE		EROSION CONTROL BMP
	EXISTING ROAD		MARKER POST
	UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	735'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

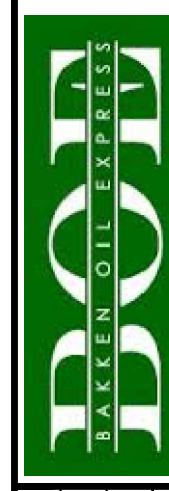
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 40'
DRAWN BY: R.JENDRICKSON
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KLJ JUL 17, 2016
REVISION:
SHEET: 60



BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
BORE #8
SECTION 31, T.150N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA



1555 Columbia Street
Bismarck, ND 58503
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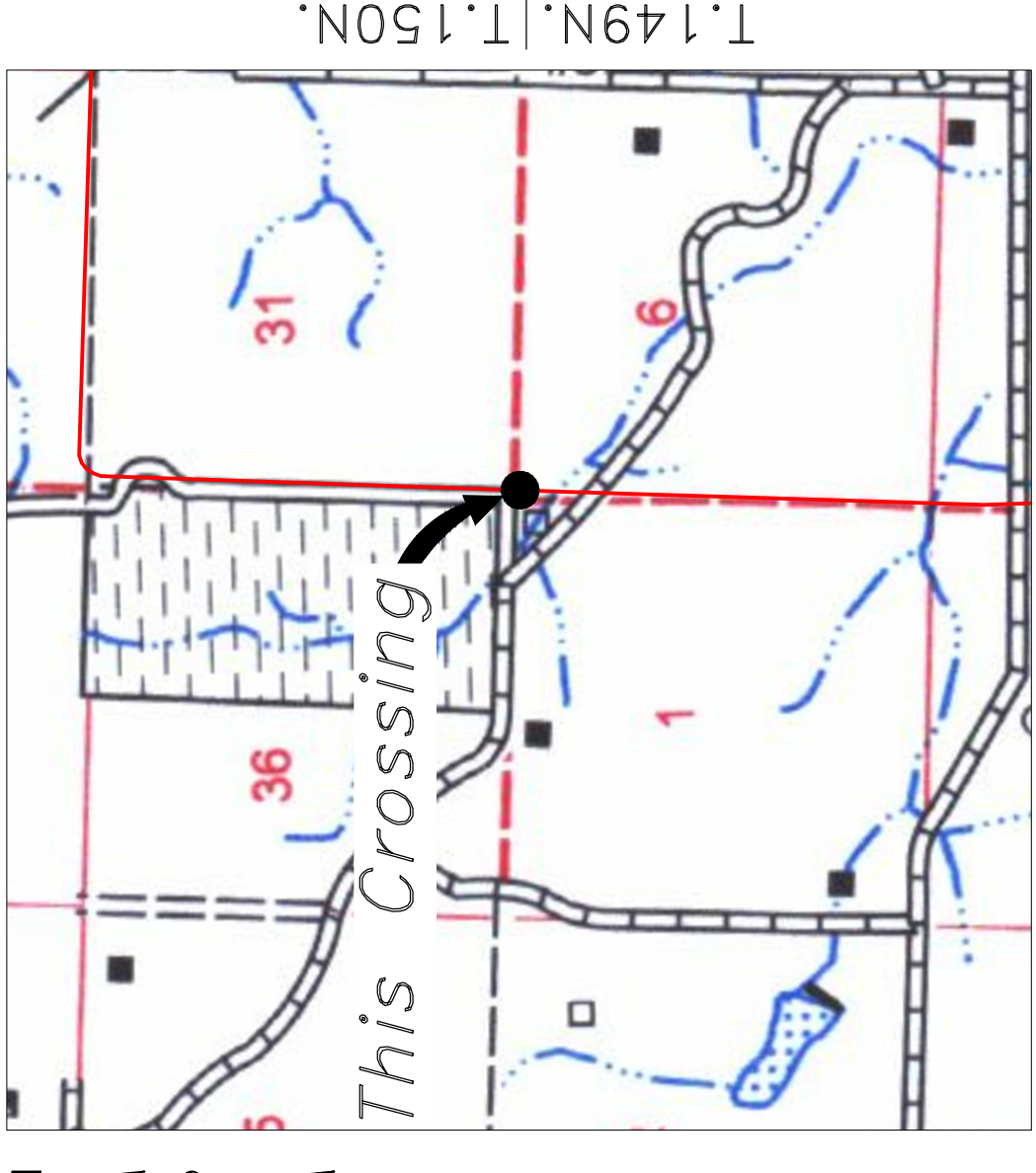
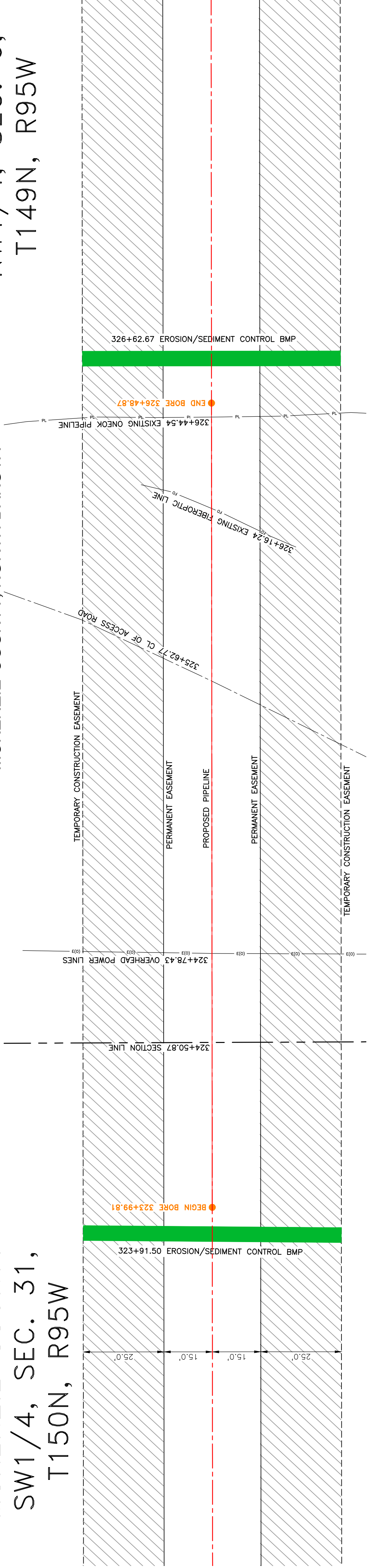


MCKENZIE COUNTY
SW1/4, SEC. 31,
T150N, R95W

MCKENZIE COUNTY
NW1/4, SEC. 6,
T149N, R95W

BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #9

MCKENZIE COUNTY, NORTH DAKOTA



R.96W. | R.95W.
Location Map



Aerial Map

NOTE:

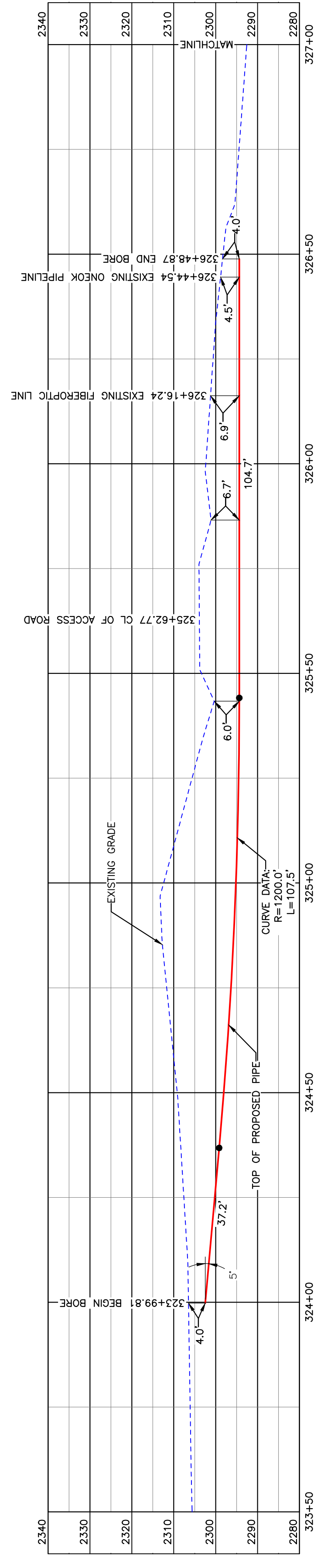
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.
2. EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.

PIPE SPECIFICATION

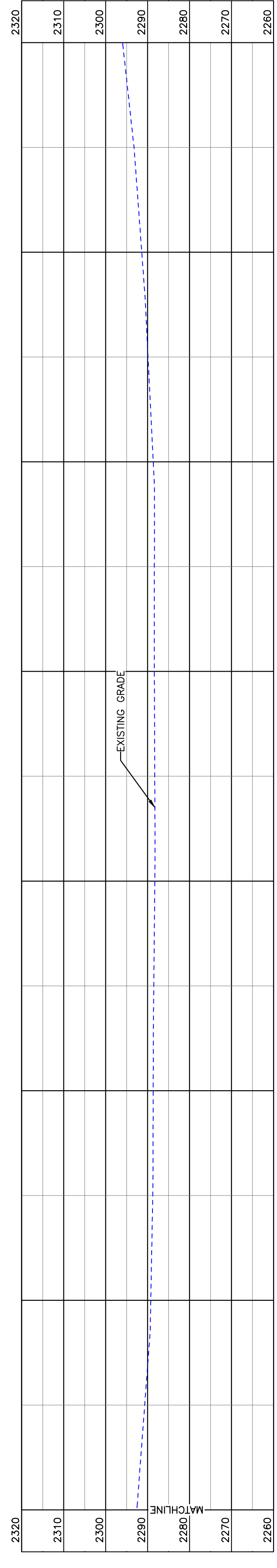
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE



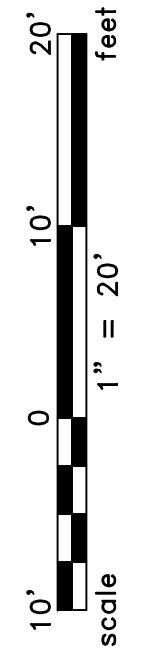
BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	323+99.81	47°45'39.18" N	102°53'52.63" W
END BORE	326+48.87	47°45'36.72" N	102°53'52.65" W

PRELIMINARY



TOTAL HORIZONTAL DISTANCE = 249.06 FT.
TOTAL BORE LENGTH = 249.4 FT.

LEGEND

—	PROPERTY LINE	—	* EXISTING FENCE
- - -	SECTION LINE		AVOIDANCE AREA
- · - · -	GRADE CENTERLINE		FIBER OPTIC COM. LINE
- · - · -	WATER LINE		RAILROAD
—	EXISTING PIPELINE		ELECTRIC
—	EXISTING ROAD		UTILITY POLE
—	UNDERGROUND COM. LINE		PROPOSED BORE
			EROSION/SEDIMENT CONTROL BMP
			MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	249'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

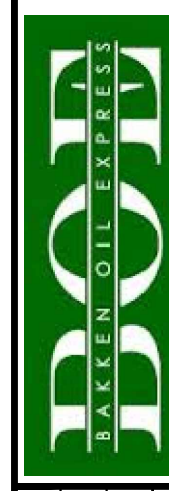
DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'

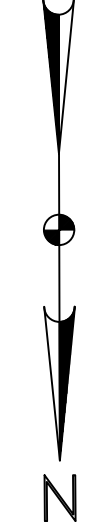
DRAWN BY: A. ROMANN
DATE: 2/4/2016
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KJL JWB
REVISION:
SHEET: 6 | 1



BAKKEN OIL EXPRESS
EXPRESS PIPELINE

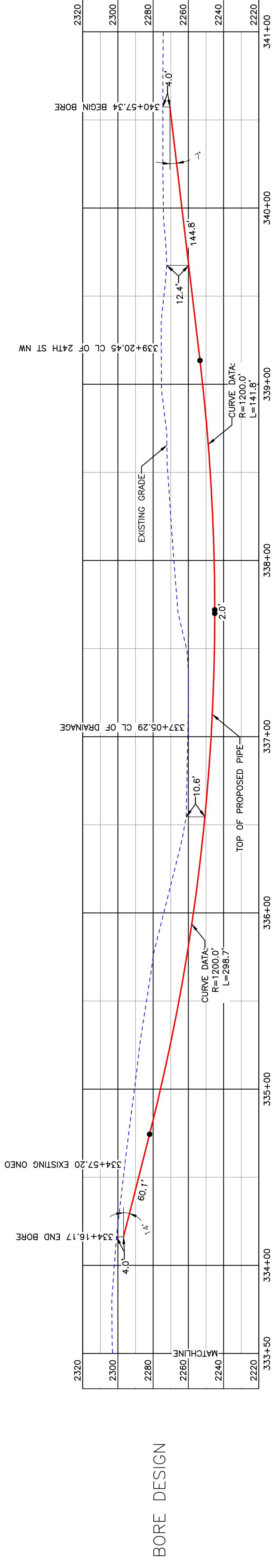
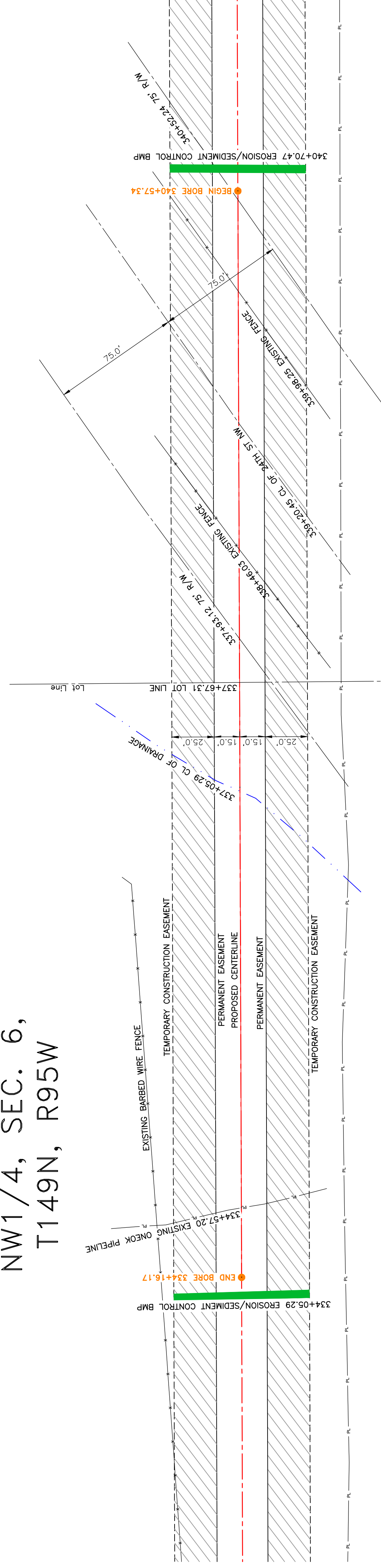


BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE
BORE #9
SECTION 31, T150N, R.95W & SECTION 6, T149N, R.95W, MCKENZIE COUNTY, NORTH DAKOTA
4555 Columbia Street
Bismarck, ND 58503
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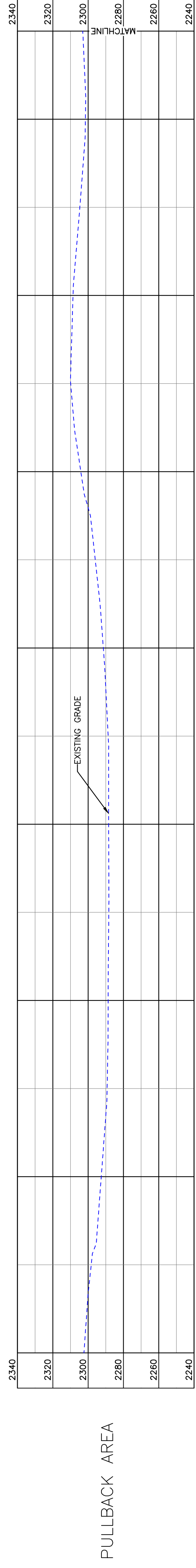


MCKENZIE COUNTY
NW1/4, SEC. 6,
T149N, R95W

BOE PIPELINE PHASE II
24TH ST NW & DRAINAGE CROSSING BORE #10
MCKENZIE COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	340+57.34	47°45'22.82" N	102°53'52.69" W
END BORE	334+16.17	47°45'29.15" N	102°53'52.68" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 641.17 FT.

TOTAL BORE LENGTH = 647.4 FT.



LEGEND

---	PROPERTY LINE	-----	EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	EASEMENT LINE	-----	RAILROAD
---	PIPELINE CENTERLINE	-----	OVERHEAD ELECTRIC
---	WATER LINE	-----	UTILITY POLE
---	FOREIGN PIPELINE	-----	PROPOSED BORE
---	EXISTING ROAD	-----	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	-----	MARKER POST

MATERIAL SUMMARY

DWG. NO.	DESCRIPTION	MK. NO.	QTY.
	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	647	2

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION

SCALE: 1" = 30'

DRAWN BY	ROMANN
DATE	2/17/2016
CHECKED BY	
APPROVED BY	
KLJ JOB NUMBER	1713271
REGION	SHEET: 62



BAKKEN OIL
EXPRESS PIPELINE



NOTE:

1. EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.
2. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO

LEGEND

— PROPOSED PIPE



Aerial Map



Location Map

This Crossing

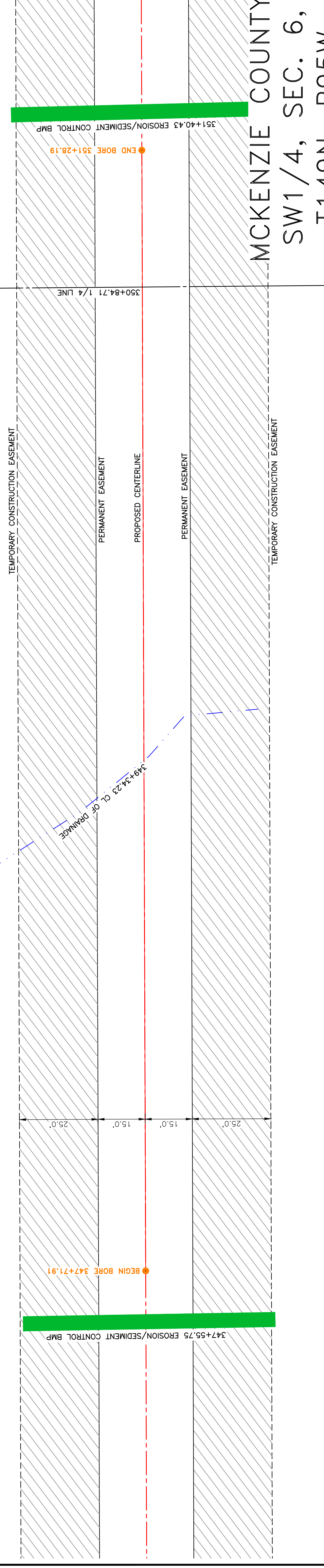
R.96W. | R.95W.

T.149N. | T.150N.



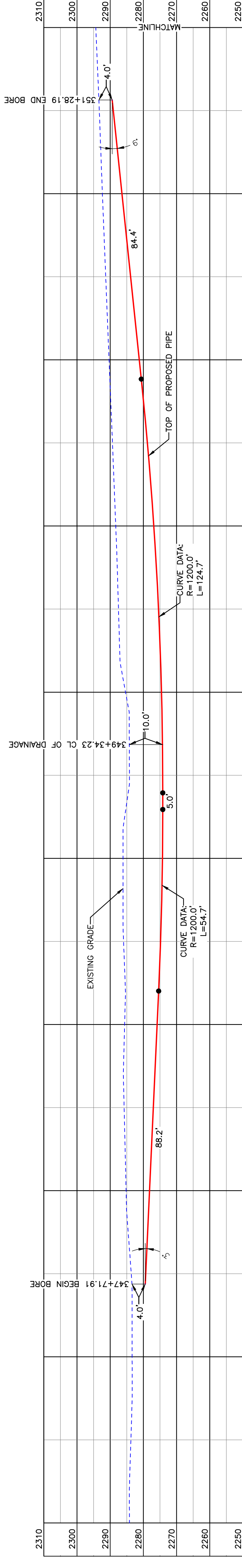
MCKENZIE COUNTY
NW1/4, SEC. 6,
T149N, R95W

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #11
MCKENZIE COUNTY, NORTH DAKOTA

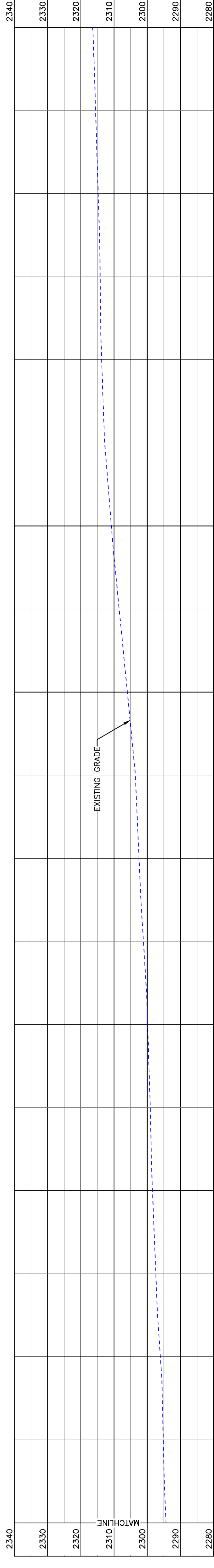


MCKENZIE COUNTY
SW1/4, SEC. 6,
T149N, R95W

BORE DESIGN



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	347+71.91	47°45'15.77" N	102°53'52.70" W
END BORE	351+28.19	47°45'12.25" N	102°53'52.70" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 356.28 FT.

TOTAL BORE LENGTH = 357.0 FT.

LEGEND

---	PROPERTY LINE	---	EXISTING FENCE
---	SECTION LINE	---	FIBER OPTIC COM. LINE
---	EASEMENT LINE	---	RAILROAD
---	PIPELINE CENTERLINE	---	OVERHEAD ELECTRIC
---	WATER LINE	---	UTILITY POLE
---	FOREIGN PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	357'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

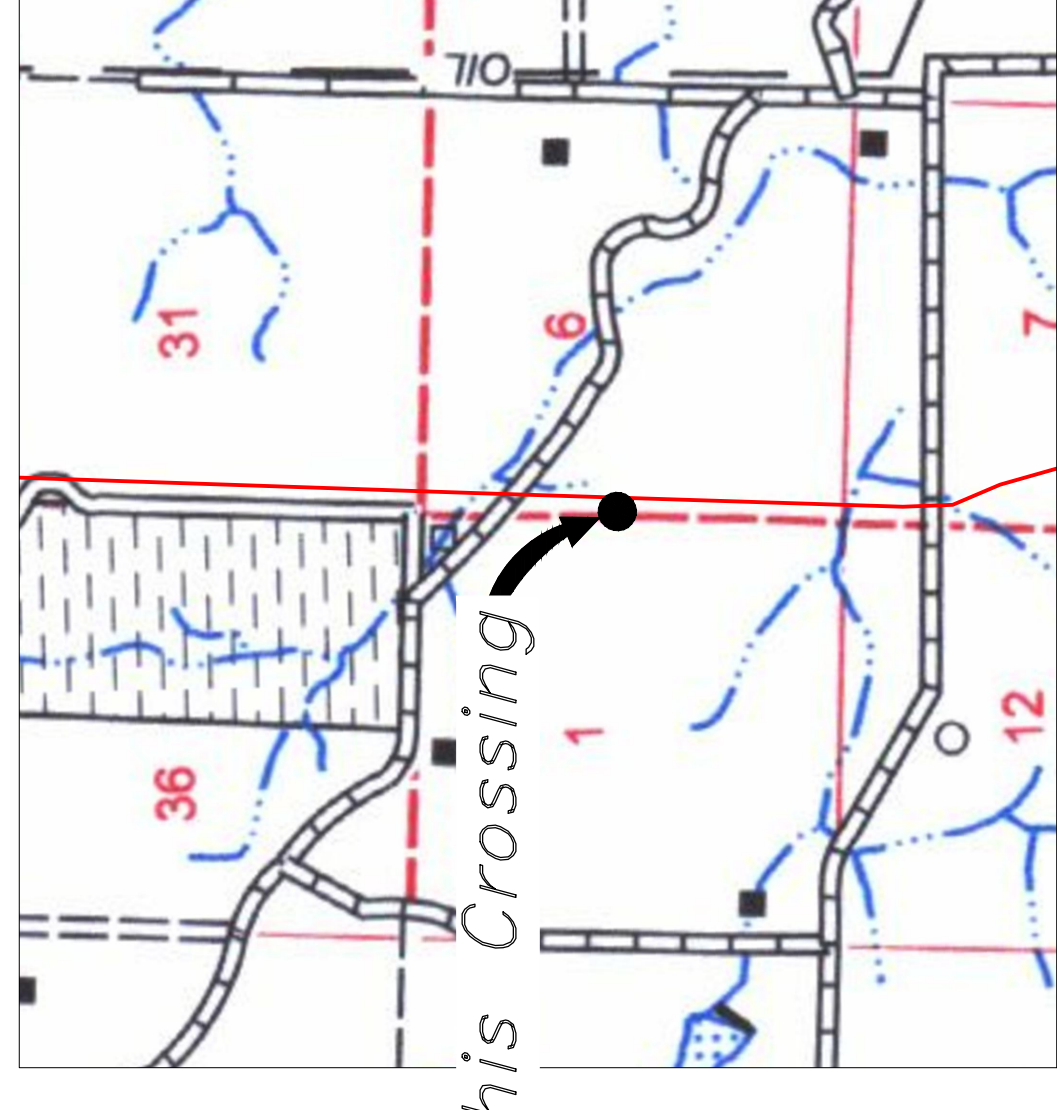
DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #11

SCALE: 1" = 20'
DRAWN BY: ROMANN
DATE: 2/17/2016
CHECKED BY:
APPROVED BY:
KJL JOB NUMBER:
REGION: SHEET: 6.3



Location Map



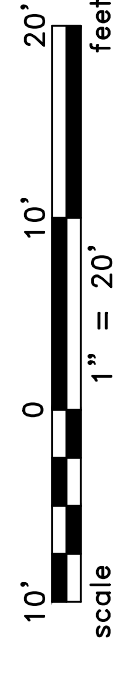
Aerial Map

PIPE SPECIFICATION

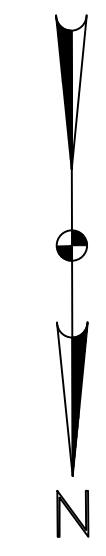
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

PROPOSED PIPE

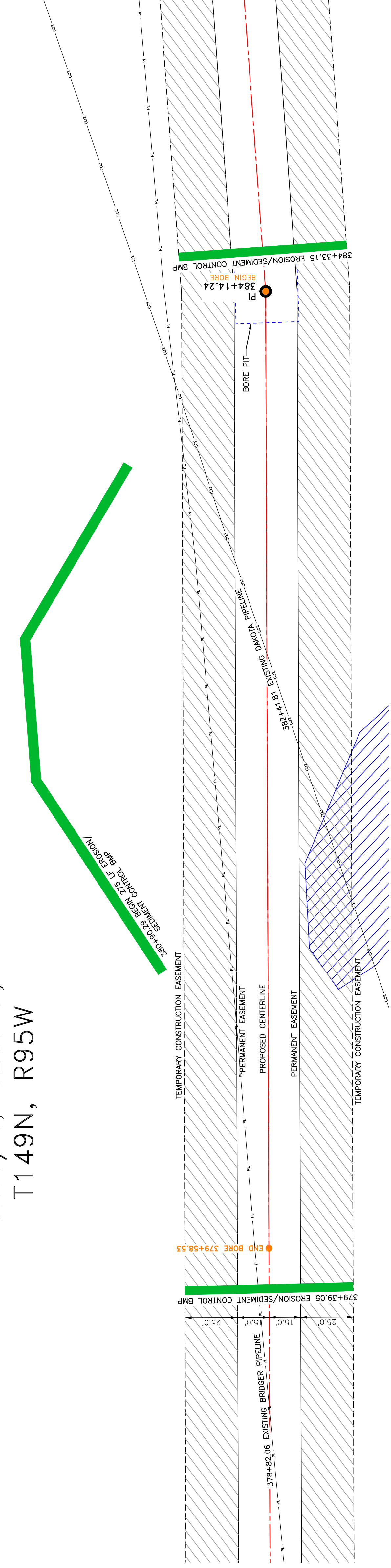


BAKKEN OIL
EXPRESS PIPELINE

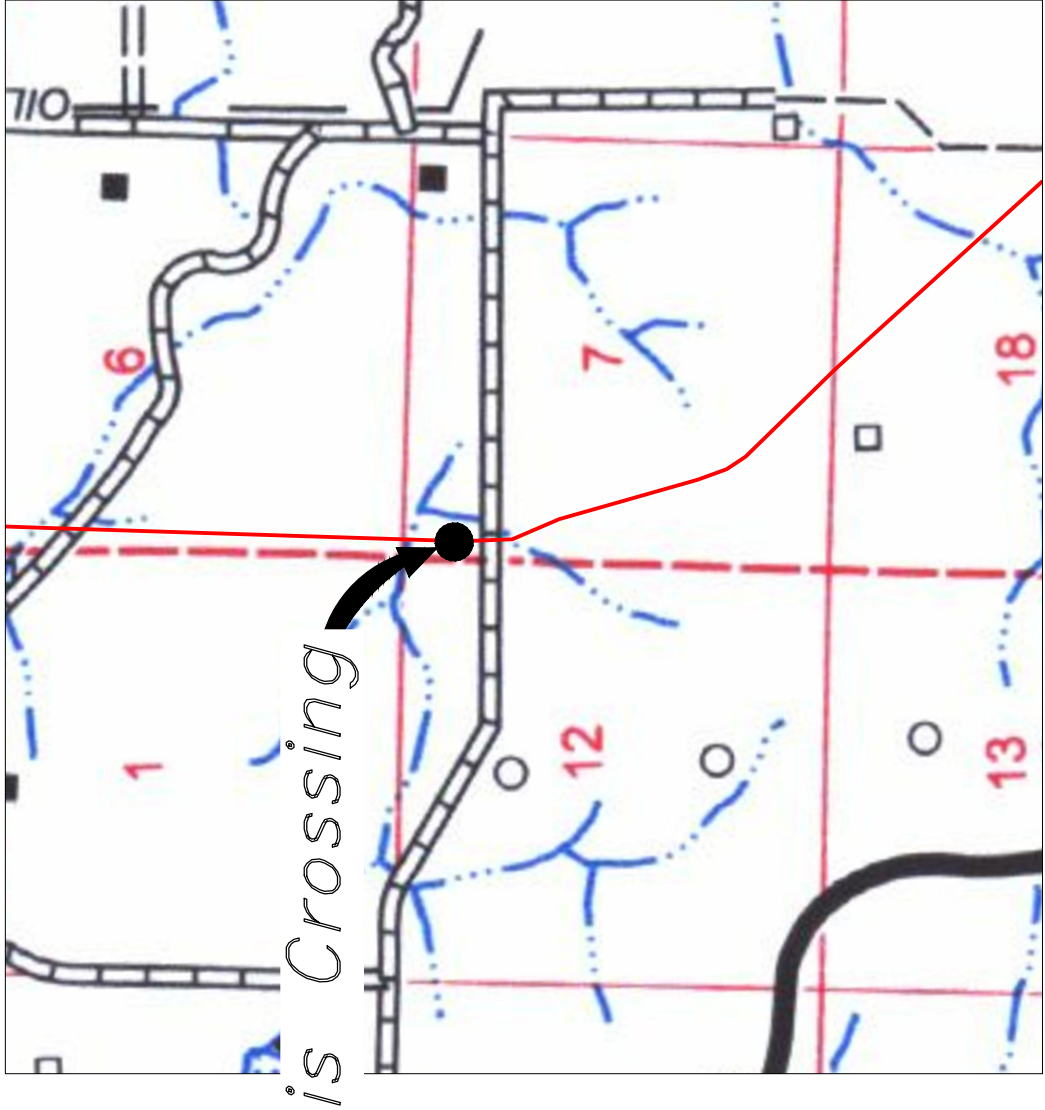


MCKENZIE COUNTY
NW1/4, SEC. 7,
T149N, R95W

BOE PIPELINE PHASE II
DAKOTA PIPELINE CROSSING BORE #12
MCKENZIE COUNTY, NORTH DAKOTA



This Crossing



R.96W. | R.95W.

Location Map



Aerial Map

NOTE:

- EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424

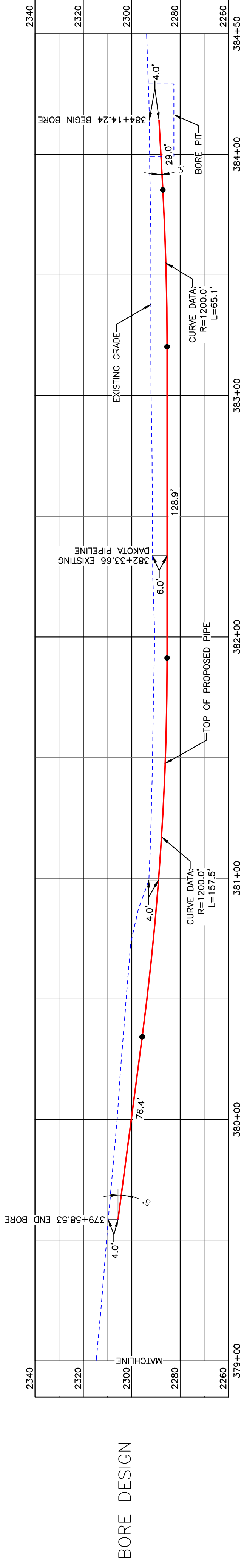
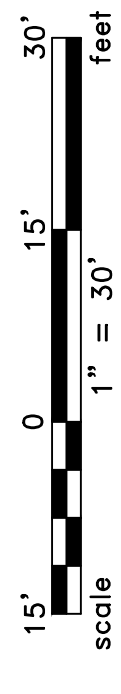
Contents: Oil

Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70

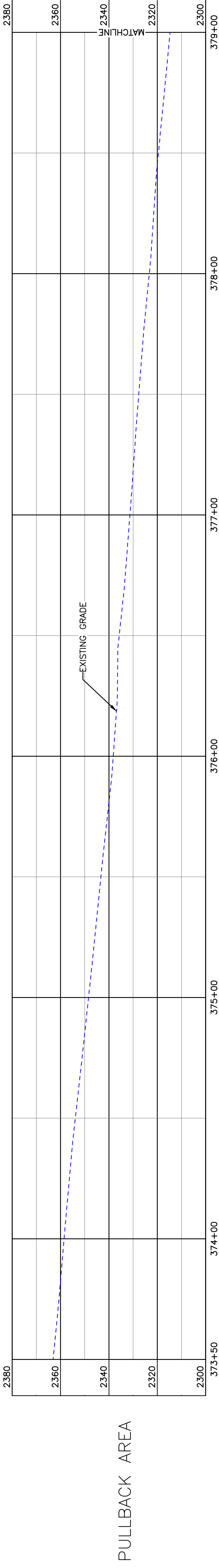
Coating: 14-16 Mil FB, 30-35 Mil ARO

LEGEND

PROPOSED PIPE



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	384+14.24	47°44'39.83" N	102°53'52.75" W
END BORE	379+58.53	47°44'44.32" N	102°53'52.74" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 455.71 FT.

TOTAL BORE LENGTH = 456.9 FT.

LEGEND	MK.NO.	QTY.	AVOIDANCE AREA
PROPERTY LINE	457		EXISTING FENCE
SECTION LINE			FIBER OPTIC COM. LINE
EASEMENT LINE			RAILROAD
PIPELINE CENTERLINE			OVERHEAD ELECTRIC
WATER LINE			UTILITY POLE
FOREIGN PIPELINE			PROPOSED BORE
EXISTING ROAD			EROSION/SEDIMENT CONTROL BMP
UNDERGROUND COM. LINE			MARKER POST

MATERIAL SUMMARY	DWG. NO.	DESCRIPTION
2	16"	OD, 0.344" W.T. API 5L X70, 14-16 MIL FB, 30-35 MIL ARO

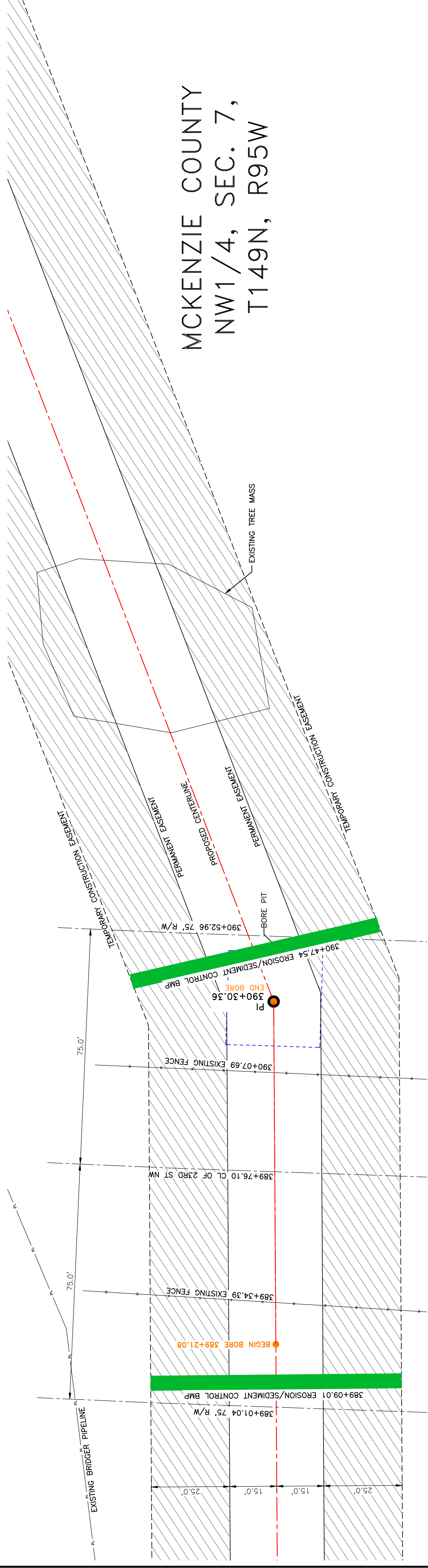
REFERENCE DRAWINGS	NO.	DATE	DESCRIPTION

REVISIONS	NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
DAKOTA PIPELINE CROSSING BORE #12

KLJ
KLEIN LOGISTICS

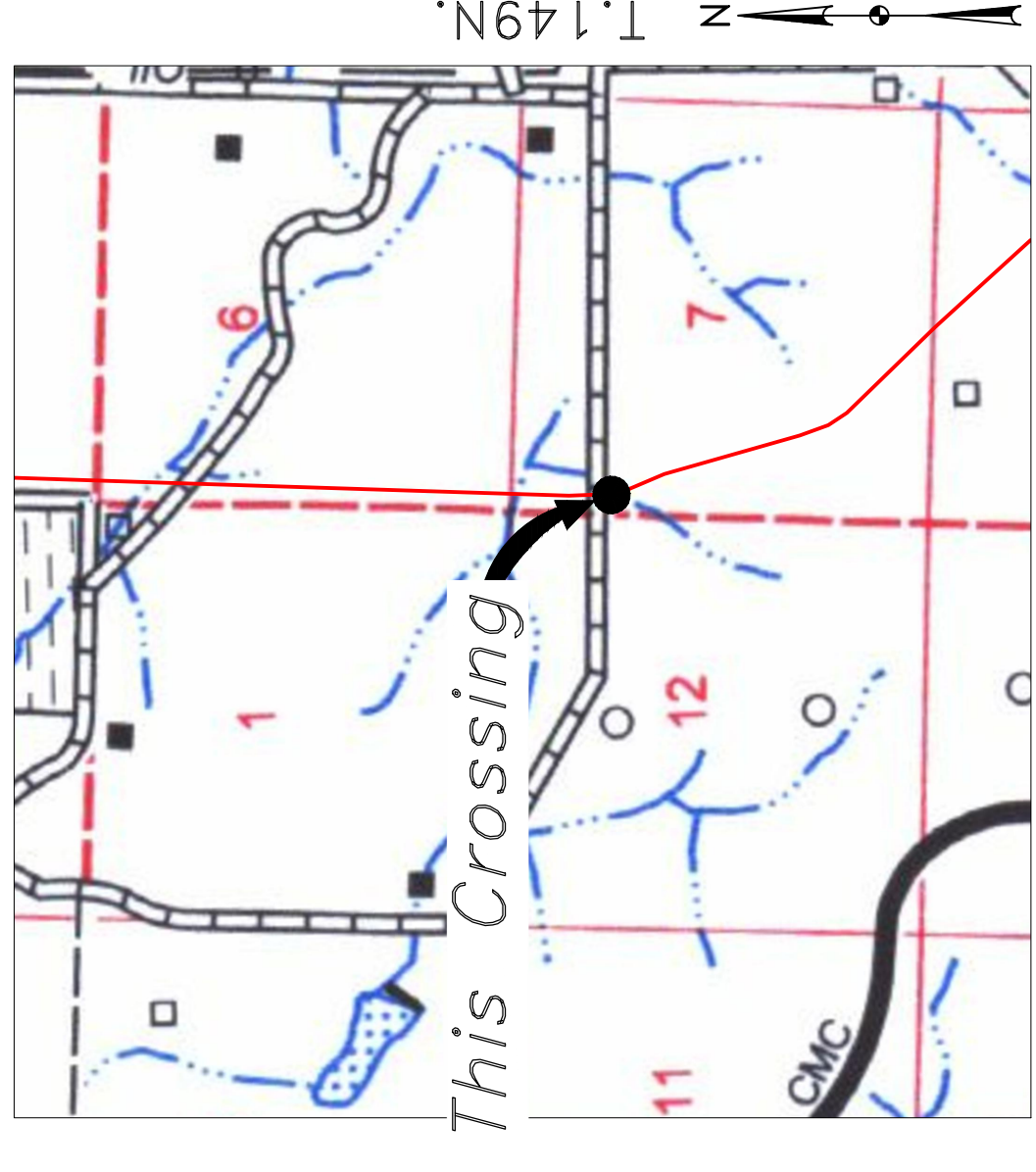
BOE PIPELINE PHASE II
23RD ST NW CROSSING BORE #13
 MCKENZIE COUNTY, NORTH DAKOTA



MCKENZIE COUNTY
 NW1/4, SEC. 7,
 T149N, R95W

R.96W. | R.95W.

Location Map



Aerial Map

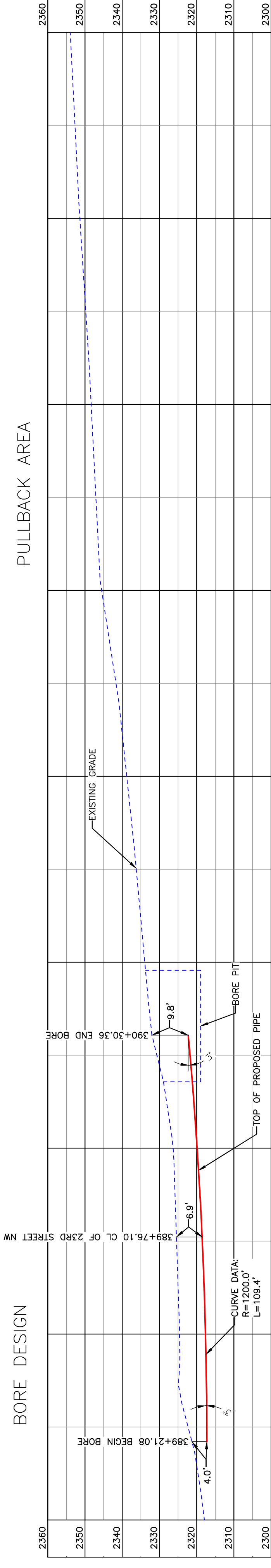
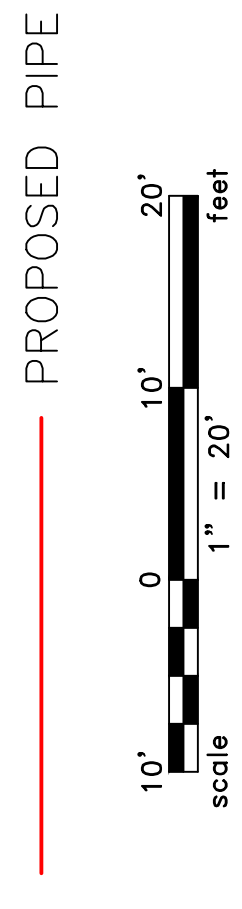
NOTE:

- 1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



BORE DESIGN

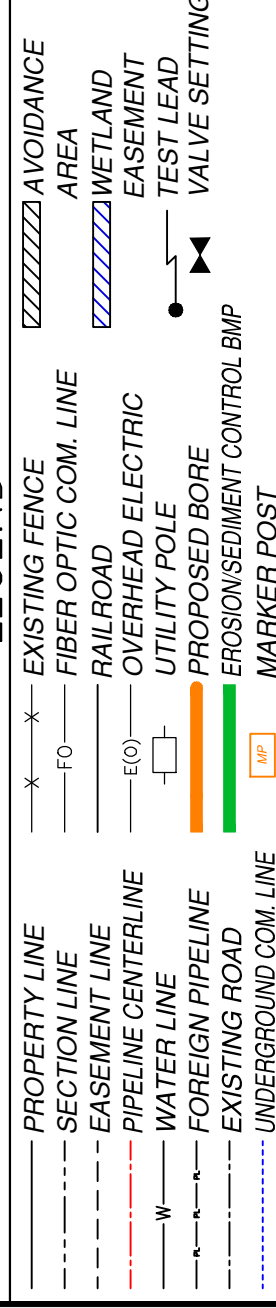
PULLBACK AREA

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	389+21.08	47°44'34.84" N	102°53'52.24" W
END BORE	390+30.36	47°44'33.76" N	102°53'52.13" W

TOTAL HORIZONTAL DISTANCE = 109.28 FT.
 TOTAL BORE LENGTH = 109.4 FT.

LEGEND



MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	109'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'	DRAWN BY: ROMANN
DATE: 7/17/2016	CHECKED BY: [blank]
APPROVED BY: [blank]	APPROVED BY: [blank]
KLJ JOB NUMBER: 1713271	REGION: [blank]
SHEET: 65	

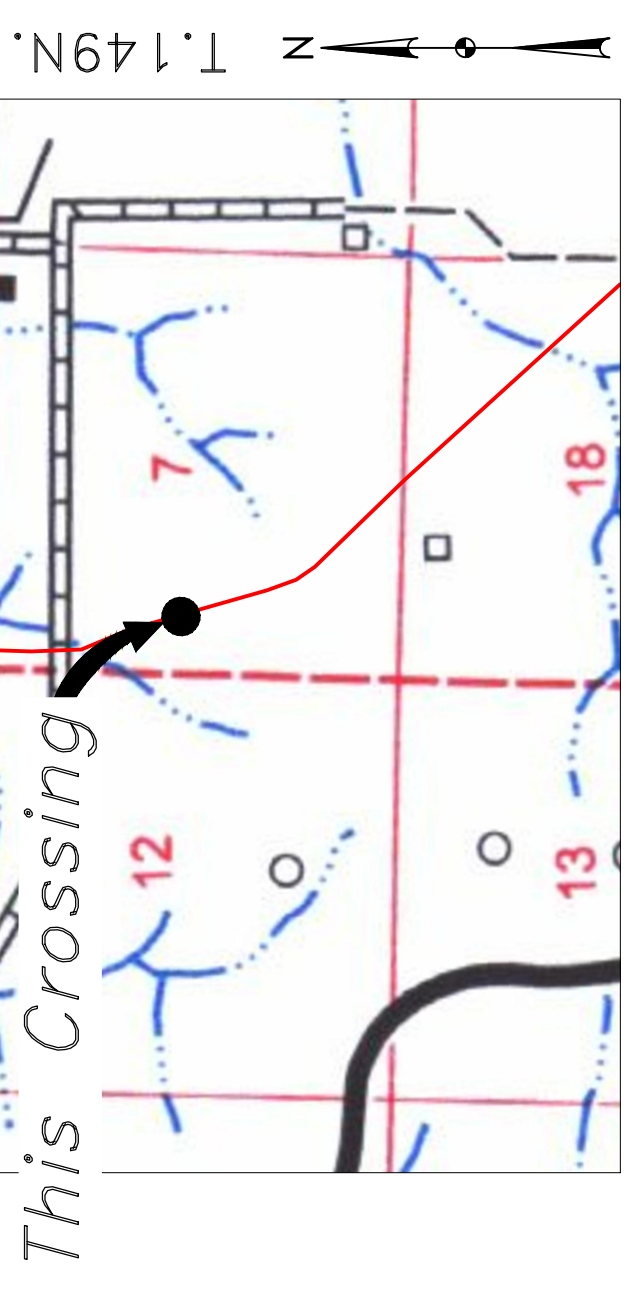
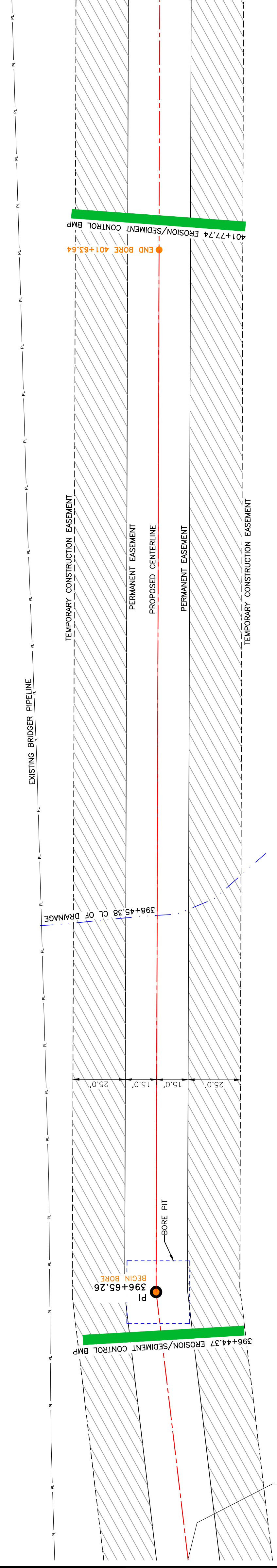
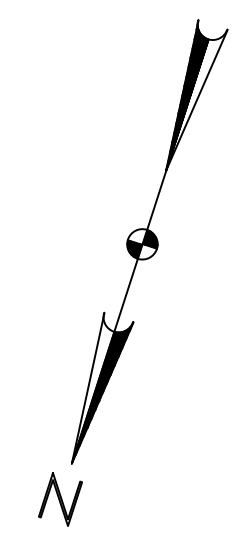


BAKKEN OIL
 EXPRESS PIPELINE



MCKENZIE COUNTY
NW 1/4, SEC. 7,
T149N, R95W

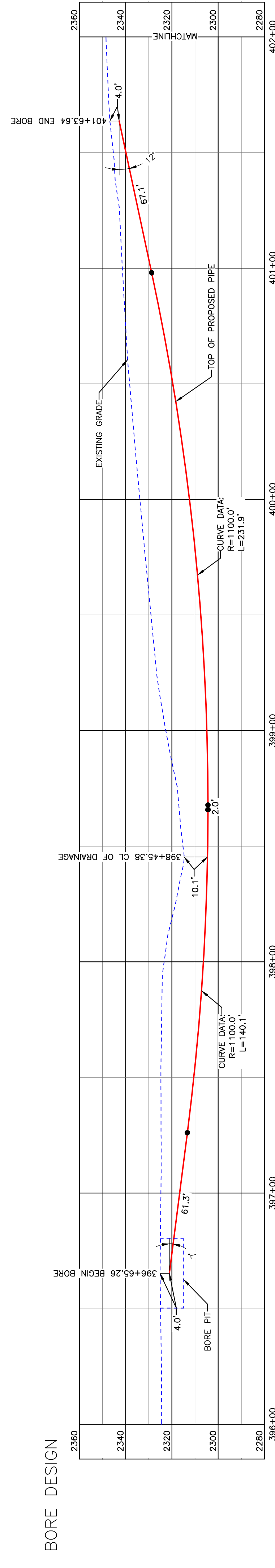
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #14
MCKENZIE COUNTY, NORTH DAKOTA



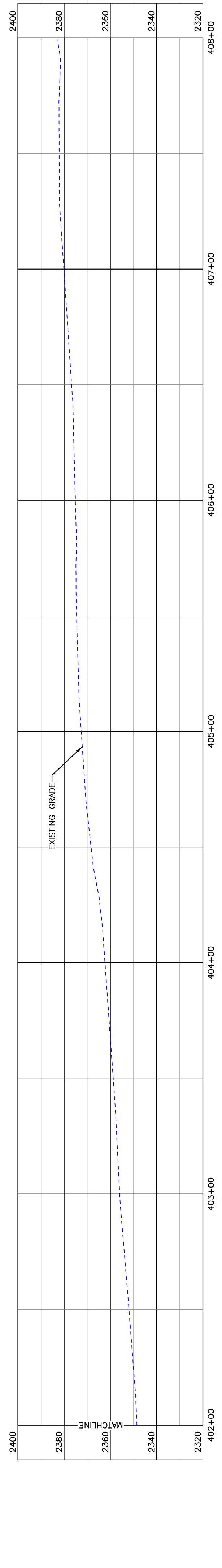
Location Map



Aerial Map



BORE DESIGN



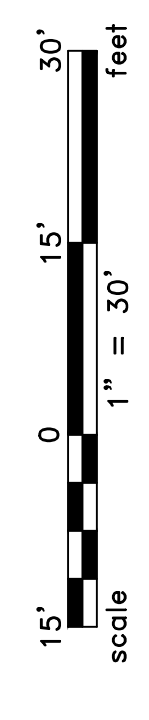
PULLBACK AREA

NOTE:
1. EXISTING UTILITY DEPTH NOT KNOWN,
MUST BE FIELD VERIFIED. MAINTAIN 18"
MIN. SEPARATION BETWEEN EXISTING
UTILITIES.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

PROPOSED PIPE



TOTAL HORIZONTAL DISTANCE = 498.38 FT.
TOTAL BORE LENGTH = 502.4 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	396+65.26	47°44'28.07" N	102°53'48.26" W
END BORE	401+63.64	47°44'23.38" N	102°53'46.04" W

LEGEND

---	PROPERTY LINE	-x-x-	EXISTING FENCE		AVOIDANCE AREA
- - - -	SECTION LINE	-f-o-	FIBER OPTIC COM. LINE		WETLAND
---	EASEMENT LINE	-r-r-r-	RAILROAD		EASEMENT
---	PIPELINE CENTERLINE	-e-o-	OVERHEAD ELECTRIC		TEST LEAD
-w-	WATER LINE	-u-p-	UTILITY POLE		VALVE SETTING
-w-	FOREIGN PIPELINE	-o-p-	PROPOSED BORE		EROSION/SEDIMENT CONTROL BMP
-w-	EXISTING ROAD	-o-p-	EROSION/SEDIMENT CONTROL BMP		MARKER POST
-w-	UNDERGROUND COM. LINE	-o-p-	MARKER POST		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	502'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

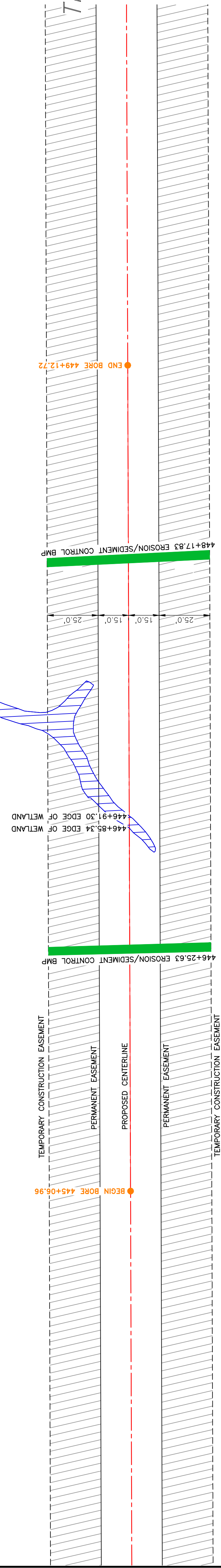
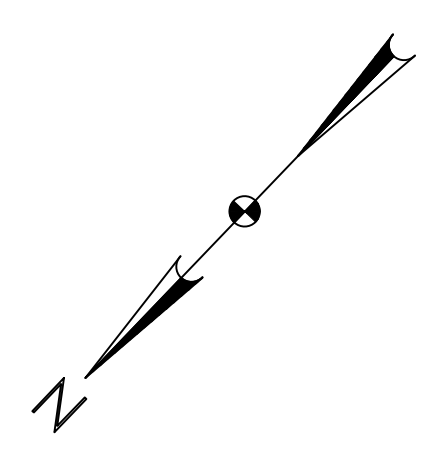
REVISIONS

NO.	DATE	DESCRIPTION

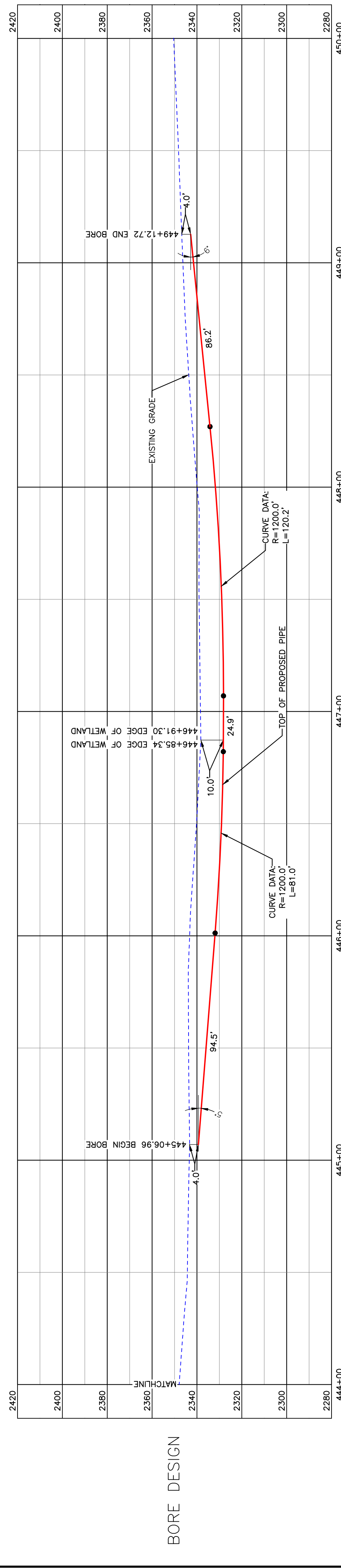
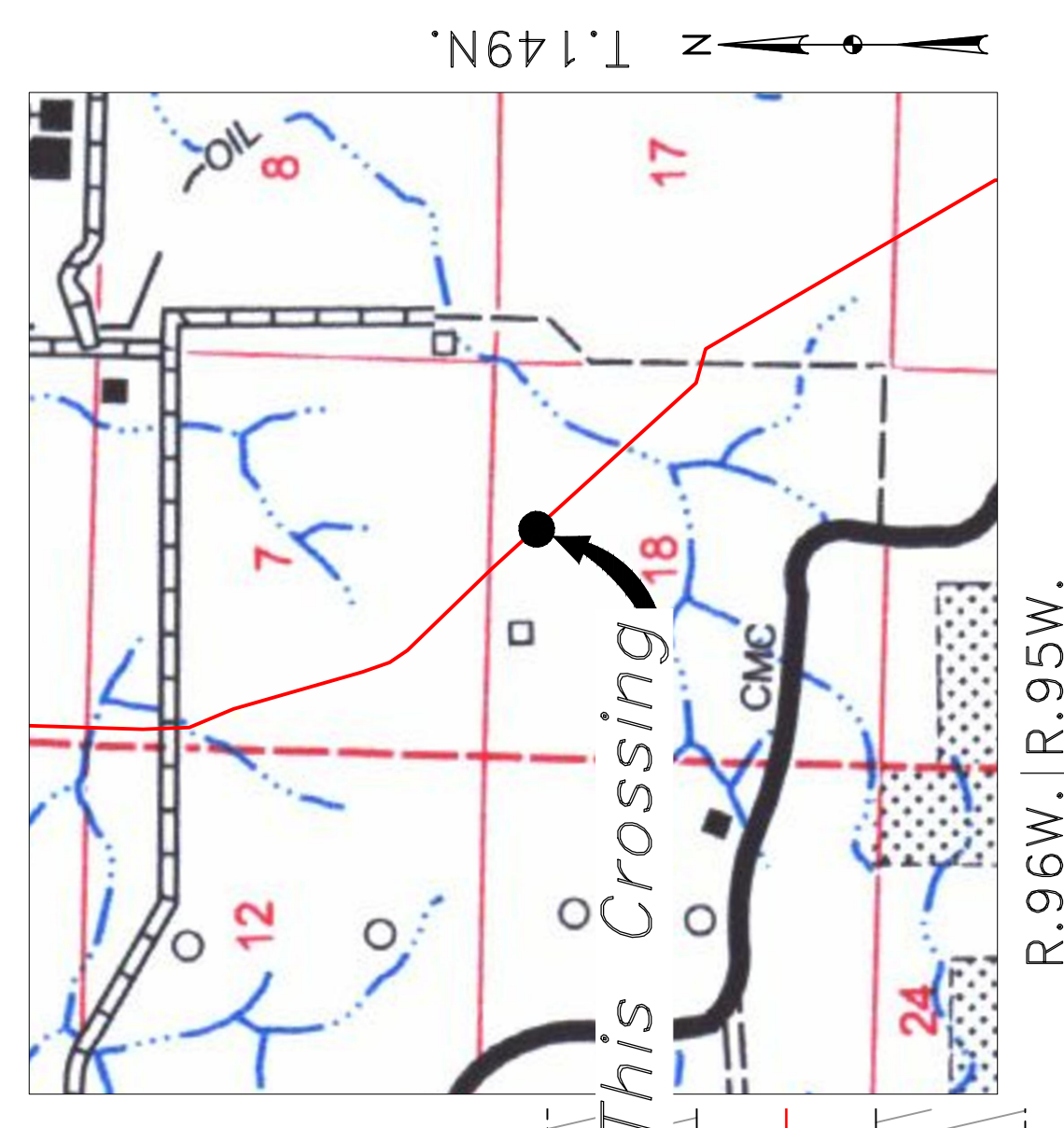
	DRAWN BY: ROMANN DATE: 2/17/2016 CHECKED BY: APPROVED BY: KJL JOB NUMBER: 1713271 REGION: SHEET: 66	BAKKEN OIL EXPRESS PIPELINE	
	BOF PIPELINE PHASE II DRAINAGE CROSSING BORE BORE #14		SECTION 7, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA 4585 Coleman Street Bismarck, ND 58503 © KLJ, 2016

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #15**
MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
NE1/4, SEC. 18,
T149N, R95W



Location Map



BORE DESIGN



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

scale
1" = 30'
1" = 15'
1" = 30'

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	445+06.96	47°43'48.91" N	102°53'10.98" W
END BORE	449+12.72	47°43'46.03" N	102°53'06.86" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 405.76 FT.
TOTAL BORE LENGTH = 406.80 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	EASEMENT LINE	-----	RAILROAD
---	PIPELINE CENTERLINE	-----	OVERHEAD ELECTRIC
---	WATER LINE	-----	UTILITY POLE
---	FOREIGN PIPELINE	-----	PROPOSED BORE
---	EXISTING ROAD	-----	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	-----	MARKER POST

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	407'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #15

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #15

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #15

KLJ
KLEINER LOGIC EXPRESS

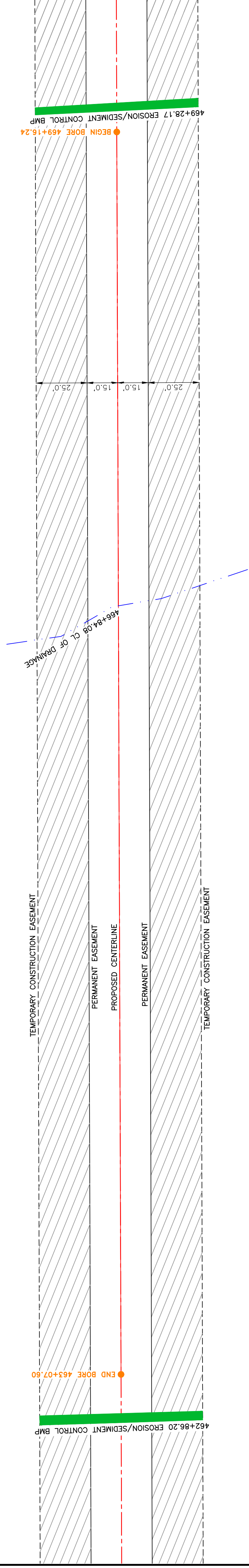
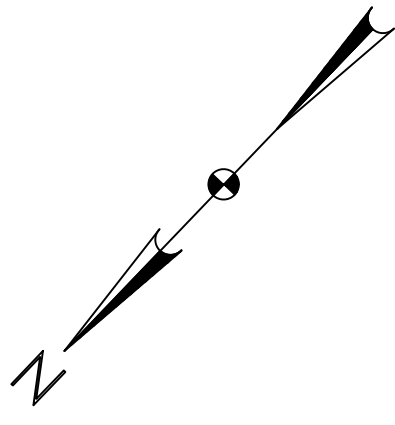
BAKKEN OIL EXPRESS PIPELINE

4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE II DRAINAGE CROSSING BORE #16

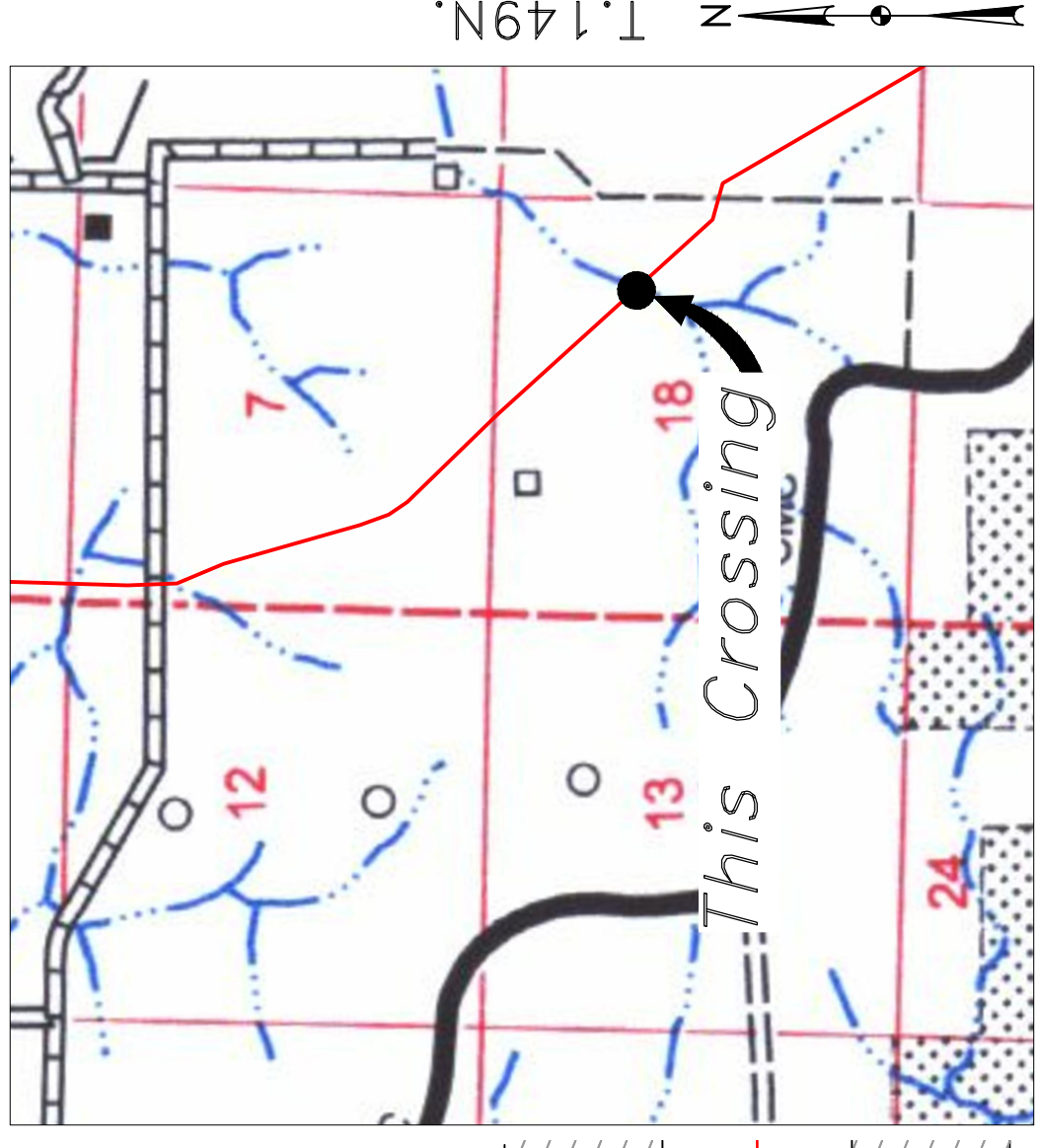
MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
NE1/4, SEC. 18,
T149N, R95W

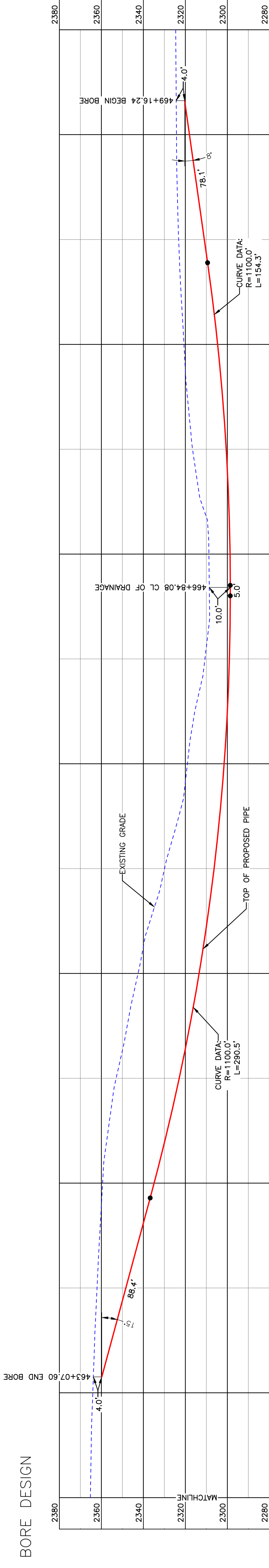


R.96W. R.95W.

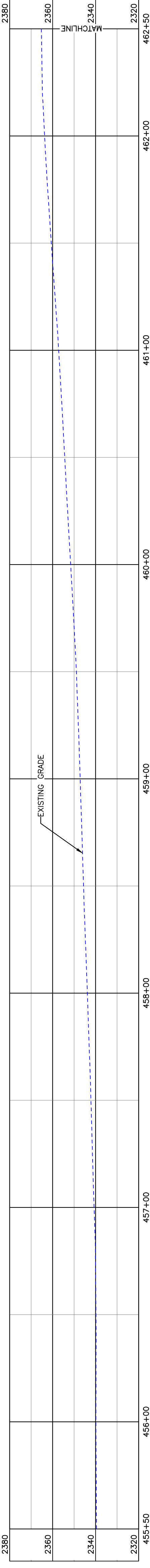
Location Map



Aerial Map



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	469+16.24	47°43'31.80" N	102°52'46.51" W
END BORE	463+07.60	47°43'36.12" N	102°52'52.69" W

PRELIMINARY

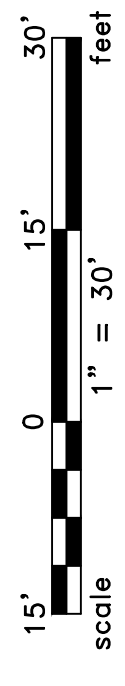
TOTAL HORIZONTAL DISTANCE = 608.64 FT.

TOTAL BORE LENGTH = 616.3 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

PROPOSED PIPE



LEGEND

---	PROPERTY LINE	---	EXISTING FENCE
---	SECTION LINE	---	FIBER OPTIC COM. LINE
---	EASEMENT LINE	---	RAILROAD
---	PIPELINE CENTERLINE	---	OVERHEAD ELECTRIC
---	WATER LINE	---	UTILITY POLE
---	FOREIGN PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	616'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL PIPELINES EXPRESS

BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #16

SECTION 18, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

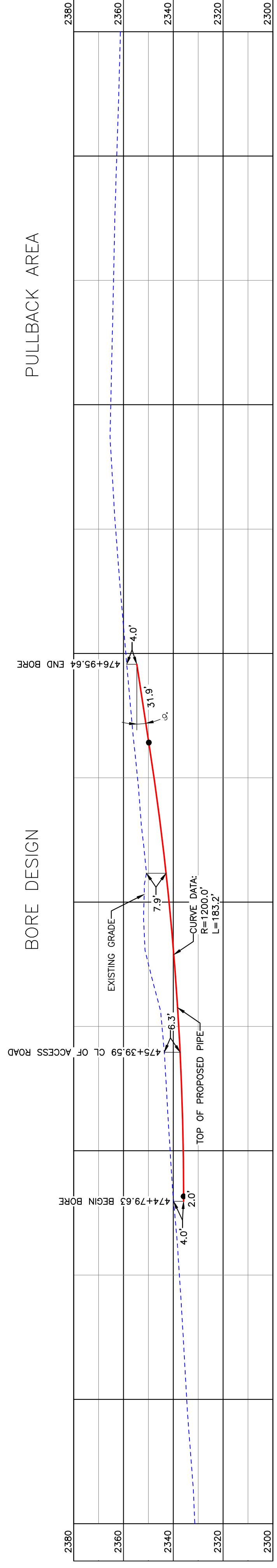
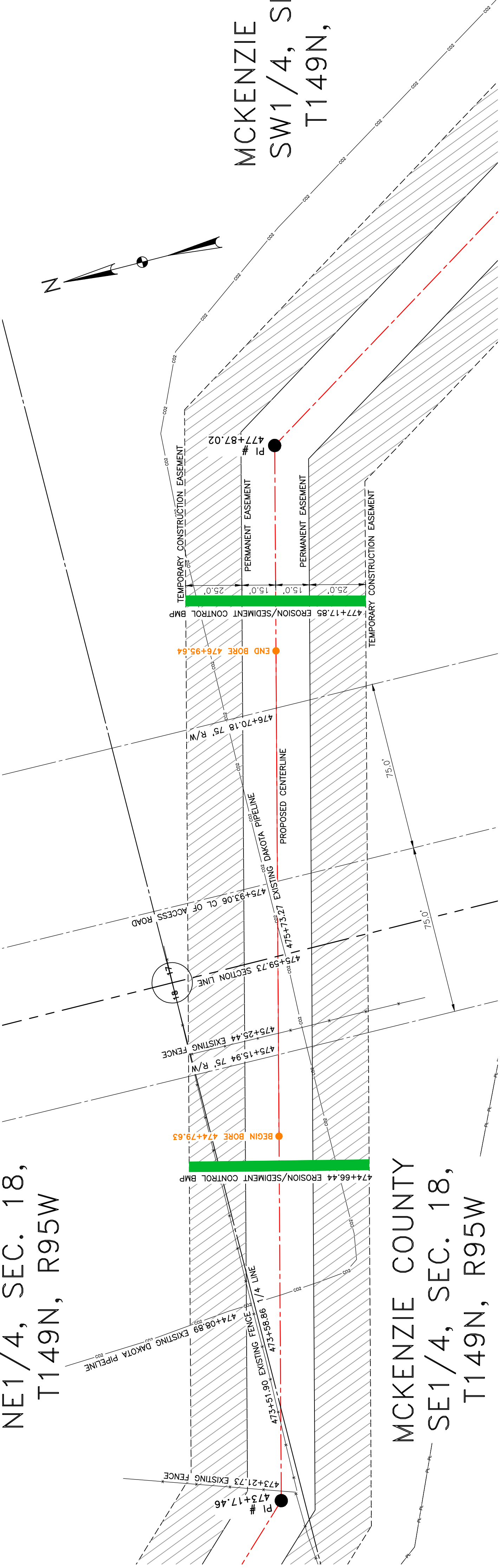
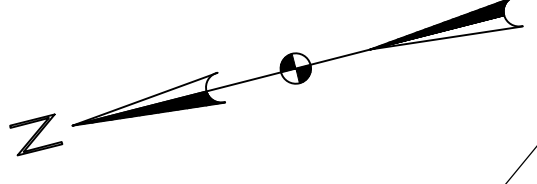


**BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #17**
MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
NE1/4, SEC. 18,
T149N, R95W

MCKENZIE COUNTY
SW1/4, SEC. 17,
T149N, R95W

MCKENZIE COUNTY
SE1/4, SEC. 18,
T149N, R95W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	474+79.63	47°43'28.56" N	102°52'40.14" W
END BORE	476+95.64	47°43'28.05" N	102°52'37.07" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 216.01 FT.

TOTAL BORE LENGTH = 217.1 FT.

LEGEND

PROPERTY LINE	SECTION LINE	EASEMENT LINE	PIPELINE CENTERLINE	WATER LINE	FOREIGN PIPELINE	EXISTING ROAD	UNDERGROUND COM. LINE	AVOIDANCE AREA	RAILROAD	OVERHEAD ELECTRIC	UTILITY POLE	TEST LEAD	VALVE SETTING	EROSION/SEDIMENT CONTROL BMP	MARKER POST
---	- - - - -	- · - · -	- - - - -	W	- - - - -	- - - - -	- - - - -	ZZZZZZ	- - - - -	- · - · -	□	●	⬮	□	●

MATERIAL SUMMARY

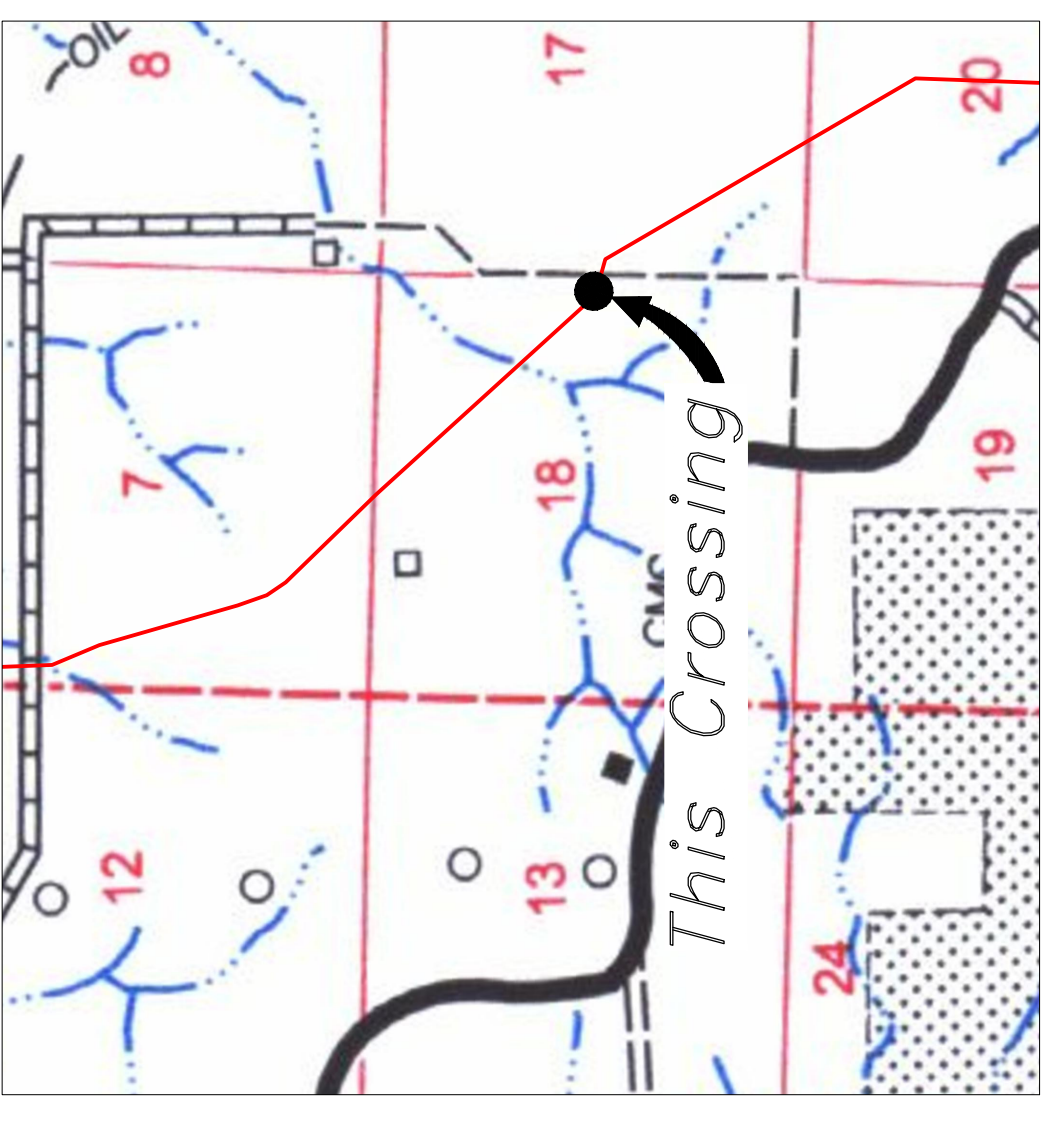
MK.NO.	QTY.	DESCRIPTION
2	217'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL EXPRESS

BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #17

SECTION 17 & 18, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA
4585 Coleman Street
Bismarck, ND 58503



R.96W. | R.95W.

Location Map



Aerial Map

NOTE:

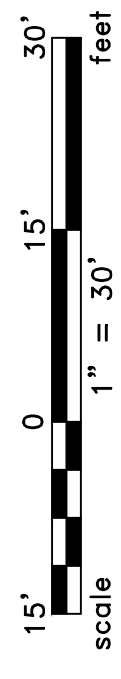
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

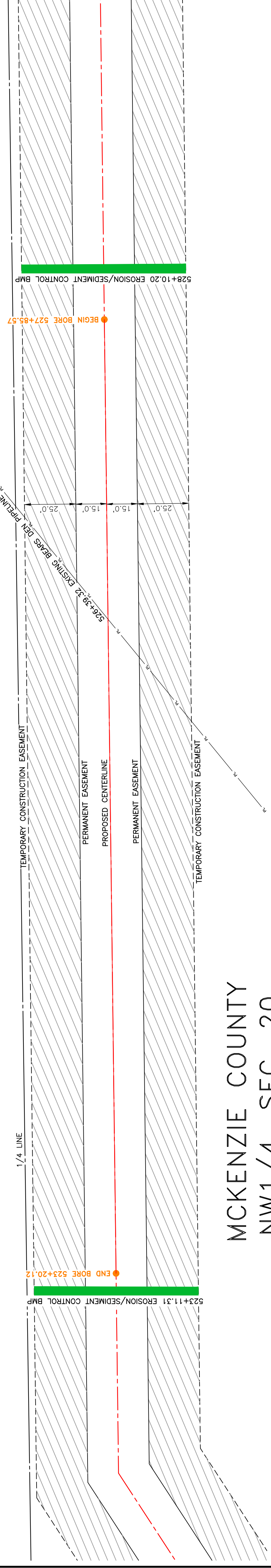
LEGEND

PROPOSED PIPE



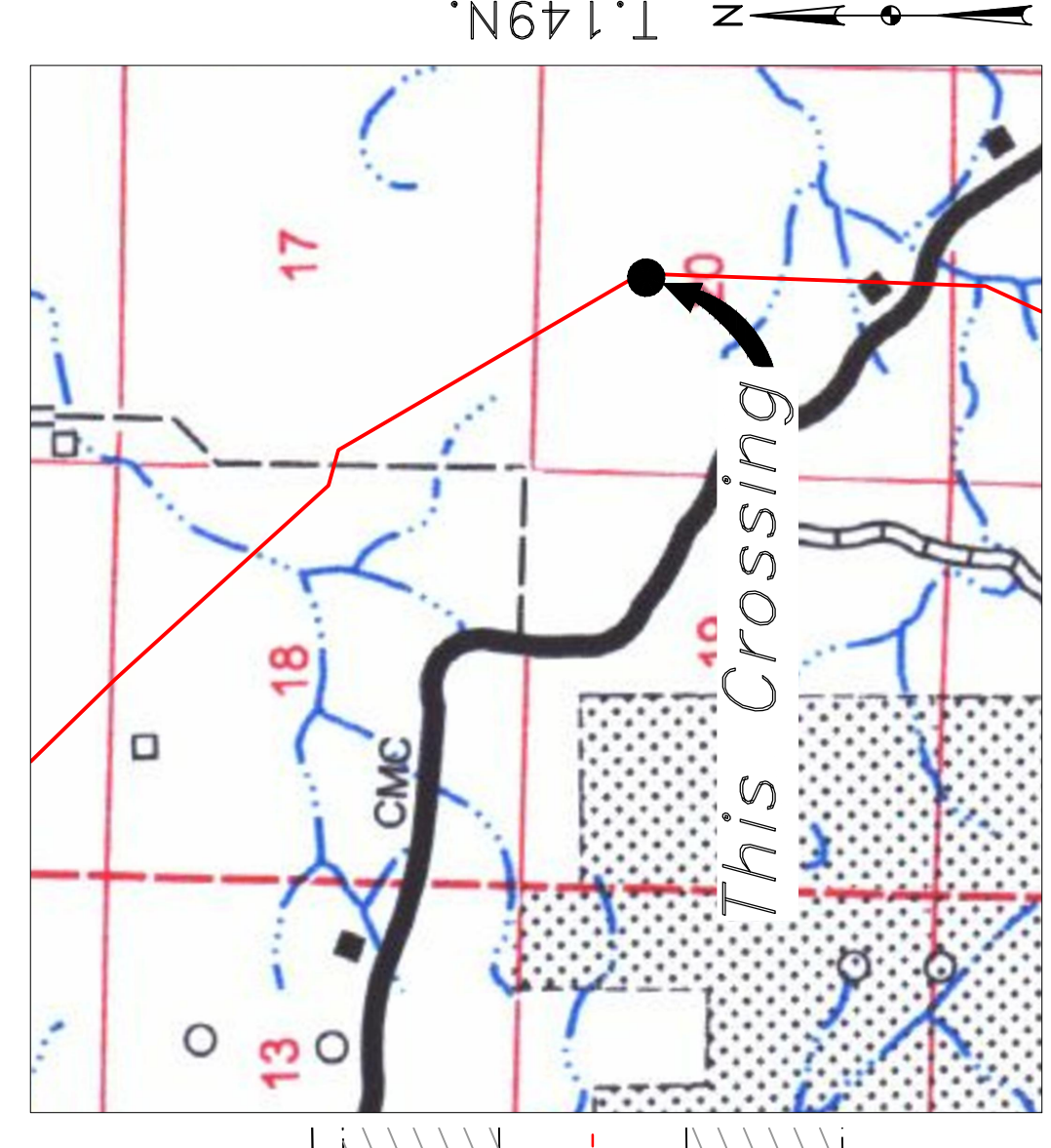
MCKENZIE COUNTY
NE1/4, SEC. 20,
T149N, R95W

BOE PIPELINE PHASE II
TERRAIN BORE #18
MCKENZIE COUNTY, NORTH DAKOTA

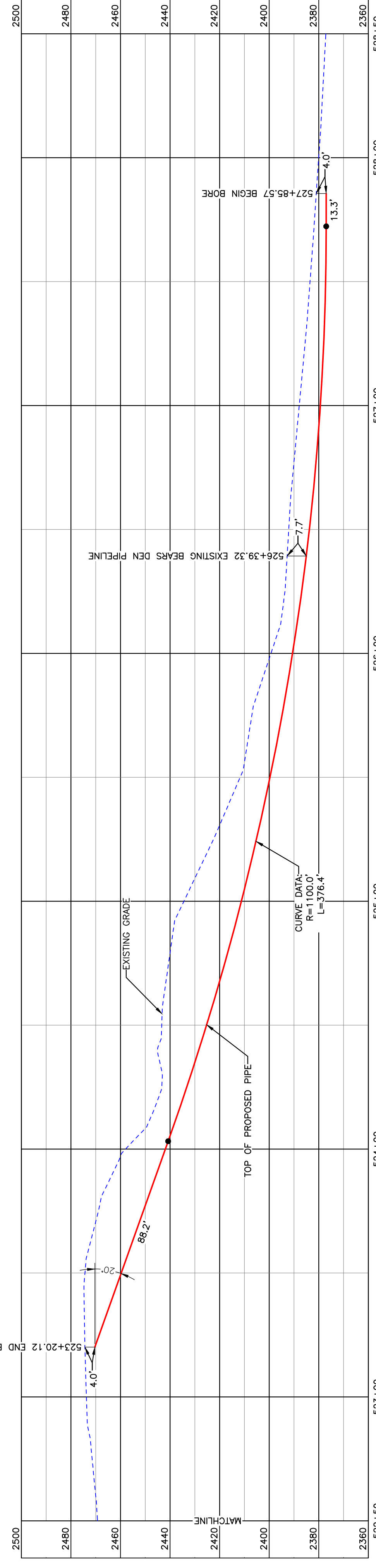


MCKENZIE COUNTY
NW1/4, SEC. 20,
T149N, R95W

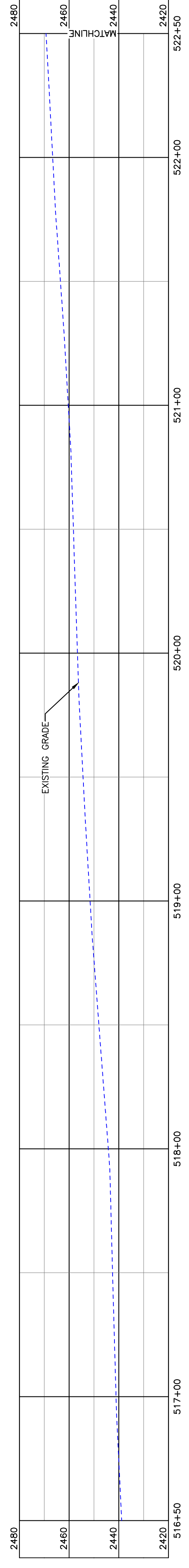
Location Map



BORE DESIGN



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	527+85.57	47°42'45.15" N	102°52'01.45" W
END BORE	523+20.12	47°42'49.74" N	102°52'01.41" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 465.45 FT.
TOTAL BORE LENGTH = 477.9 FT.



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

PROPOSED PIPE

scale 1" = 30'
0 15' 30'
feet

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- TEST LEAD
- VALVE SETTING

MATERIAL SUMMARY

DWG. NO.	DESCRIPTION	MK.NO.	QTY.
	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	2	478'

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL EXPRESS

BOE PIPELINE PHASE II
TERRAIN BORE #18
BORE #18

SECTION 20, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

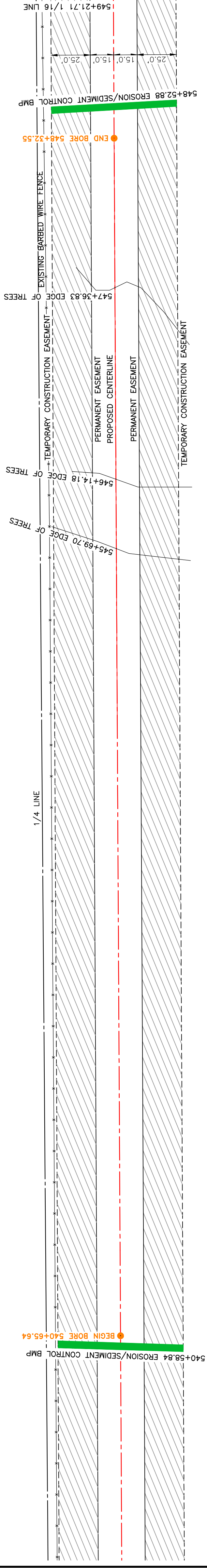
SCALE: 1" = 30'
DRAWN BY: ROMANN
DATE: 7/17/2016
CHECKED BY:
APPROVED BY:
KJL JOB NUMBER: 1713271
REGION: SHEET: 70

KLJ

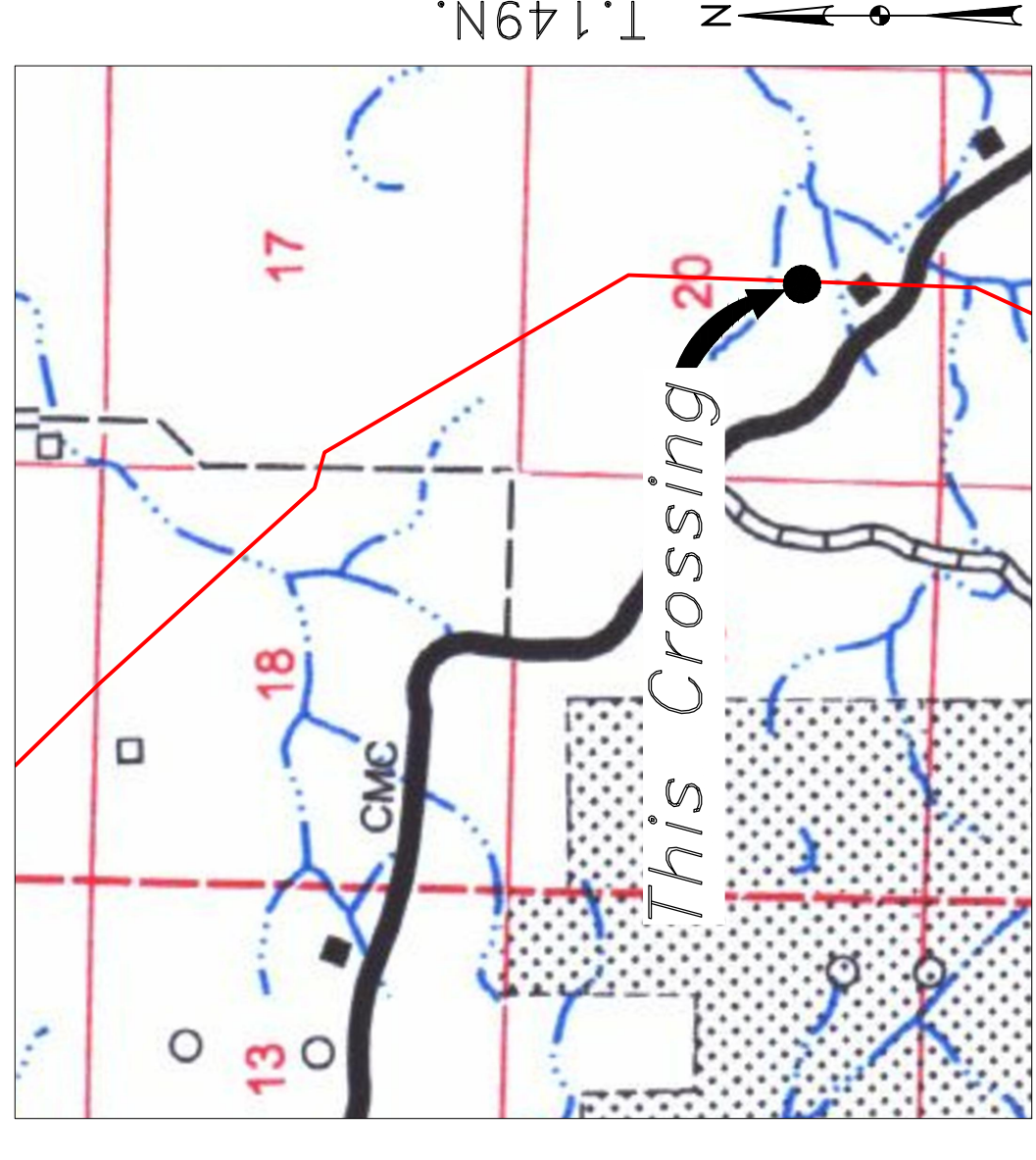
MCKENZIE COUNTY
SE1/4, SEC. 20,
T149N, R95W



BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #19
MCKENZIE COUNTY, NORTH DAKOTA

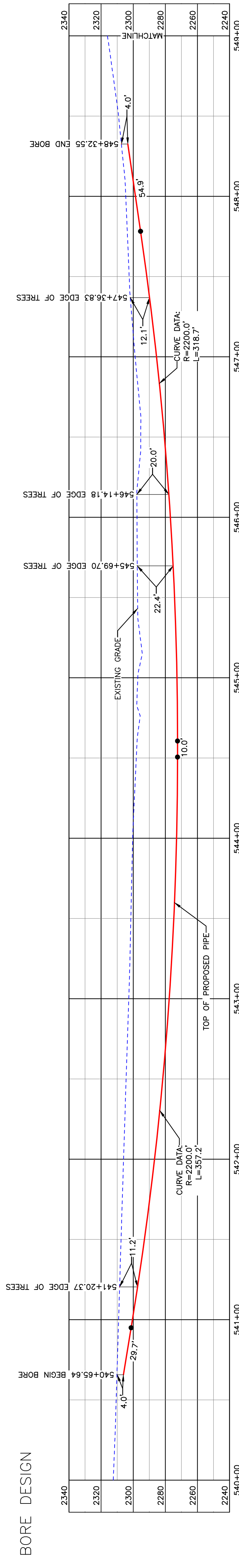


MCKENZIE COUNTY
SW1/4, SEC. 20,
T149N, R95W



R.96W. R.95W.

Location Map



BORE DESIGN

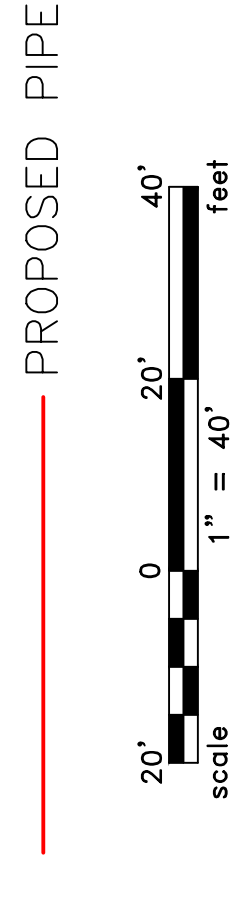
PULLBACK AREA



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	540+65.64	47°42'32.52" N	102°52'01.57" W
END BORE	548+32.55	47°42'24.95" N	102°52'01.63" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 766.91 FT.

TOTAL BORE LENGTH = 770.50 FT.

LEGEND

---	PROPERTY LINE	---	EXISTING FENCE	-----	AVOIDANCE AREA
---	SECTION LINE	---	FIBER OPTIC COM. LINE	-----	WETLAND
---	EASEMENT LINE	---	RAILROAD	-----	EASEMENT
---	PIPELINE CENTERLINE	---	OVERHEAD ELECTRIC	-----	TEST LEAD
---	WATER LINE	---	UTILITY POLE	-----	VALVE SETTING
---	FOREIGN PIPELINE	---	PROPOSED BORE	-----	EROSION/SEDIMENT CONTROL BMP
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP	-----	MARKER POST
---	UNDERGROUND COM. LINE	---	MARKER POST	-----	

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	771'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #19

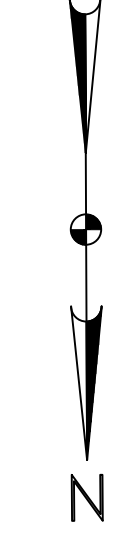
BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #19

SECTION 20, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ

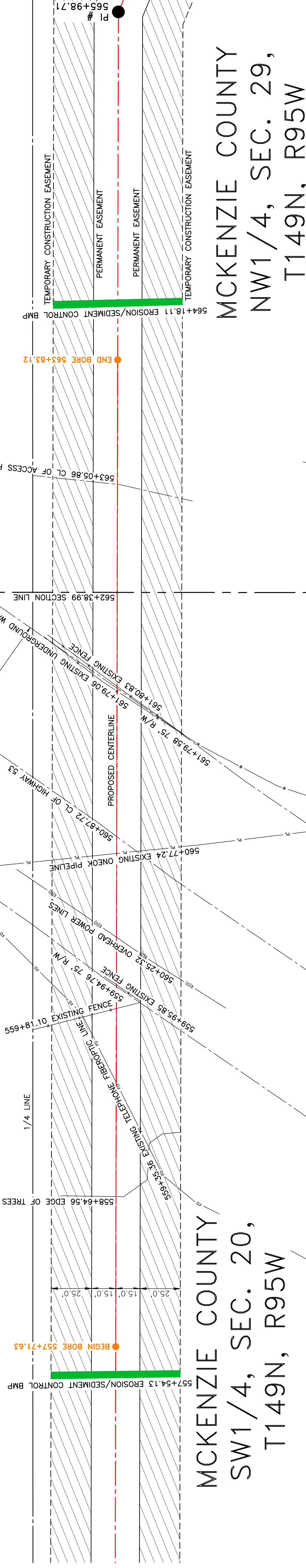
4585 Coleman Street
Bismarck, ND 58503



BOE PIPELINE PHASE II
HIGHWAY 53 & ACCESS ROAD CROSSING BORE #20
 MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
 SE1/4, SEC. 20,
 T149N, R95W

MCKENZIE COUNTY
 NE1/4, SEC. 29,
 T149N, R95W



Location Map



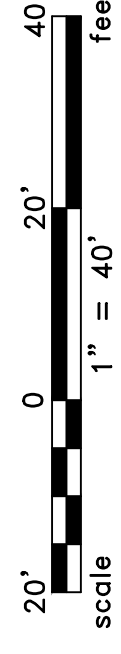
Aerial Map

- NOTE:**
1. EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.
 2. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T., API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

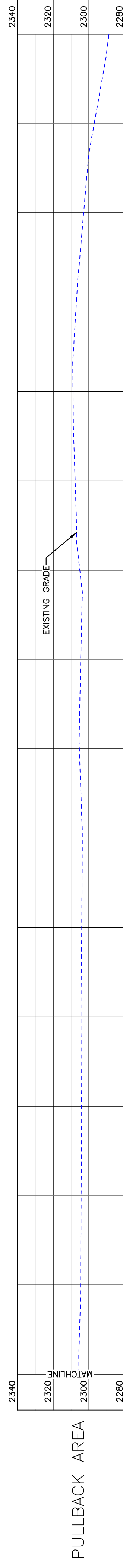
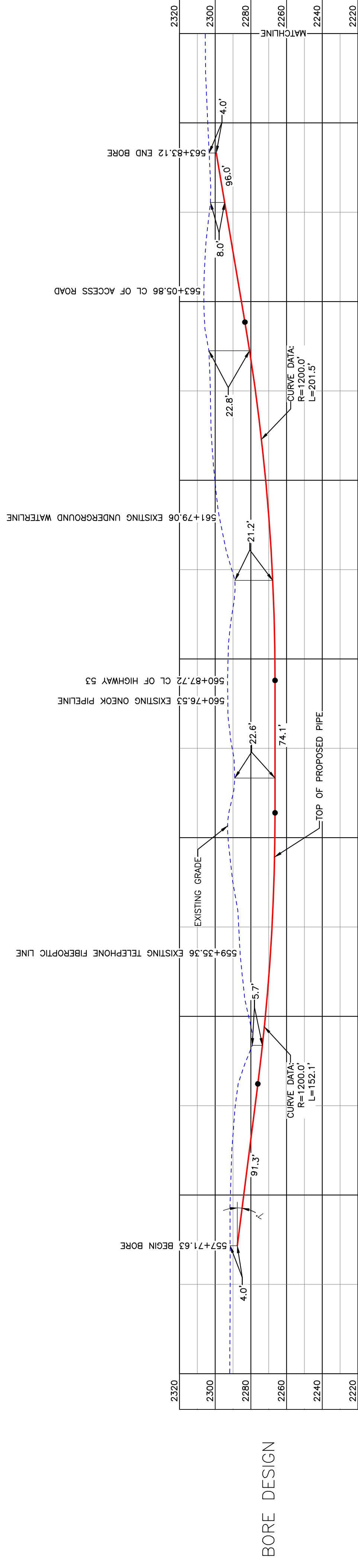
LEGEND
 — PROPOSED PIPE

TOTAL HORIZONTAL DISTANCE = 611.49 FT.
 TOTAL BORE LENGTH = 615.0 FT.



PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	557+71.63	47°42'15.68" N	102°52'01.72" W
END BORE	563+83.12	47°42'09.65" N	102°52'01.77" W



PULLBACK AREA

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE		AVOIDANCE AREA
- - -	SECTION LINE	- - -	FIBER OPTIC COM. LINE		WETLAND
- - -	EASEMENT LINE	- - -	RAILROAD		EASEMENT
- - -	PIPELINE CENTERLINE	- - -	OVERHEAD ELECTRIC		TEST LEAD
- - -	WATER LINE	- - -	UTILITY POLE		VALVE SETTING
- - -	FOREIGN PIPELINE	- - -	PROPOSED BORE		EROSION/SEDIMENT CONTROL BMP
- - -	EXISTING ROAD	- - -	EROSION/SEDIMENT CONTROL BMP		MARKER POST
- - -	UNDERGROUND COM. LINE	- - -	MARKER POST		

MATERIAL SUMMARY

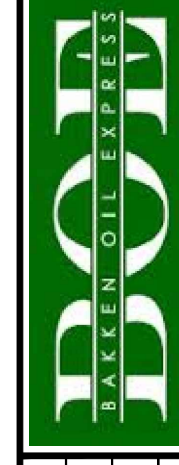
MK. NO.	QTY.	DESCRIPTION
2	615'	12.75" OD x60, 0.375 W.T., 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

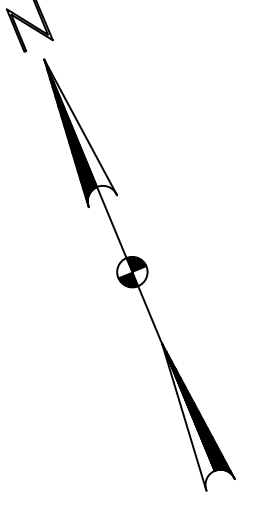


BAKKEN OIL EXPRESS
 BOF PIPELINE PHASE II
 HIGHWAY 53 & ACCESS ROAD CROSSING BORE #20

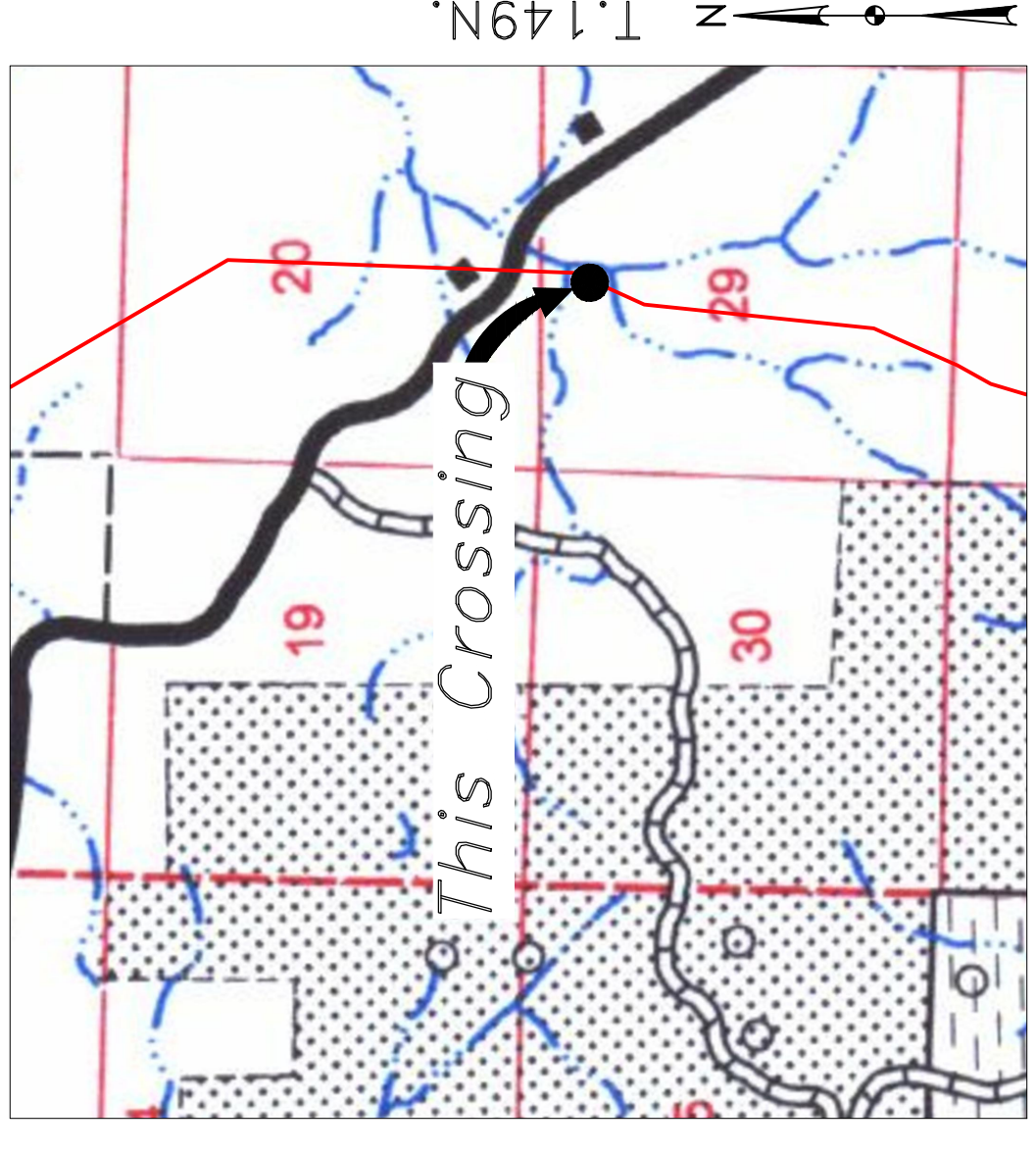
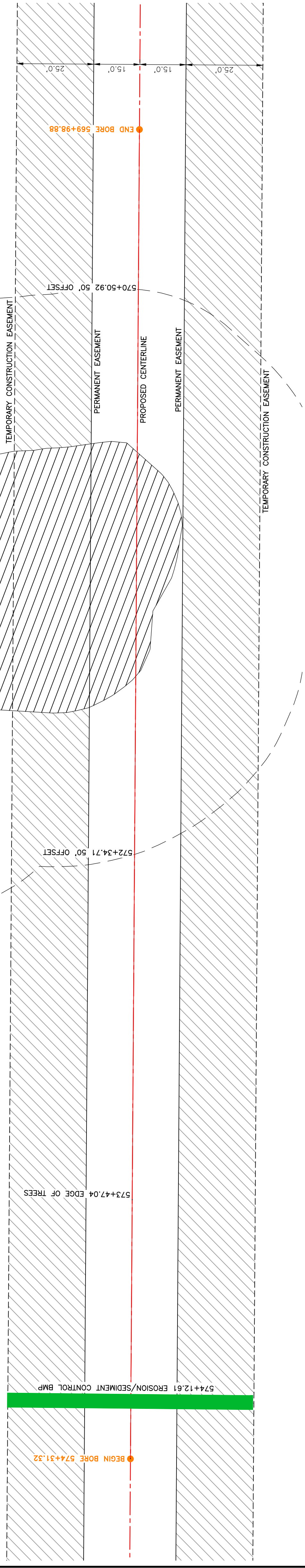


4585 Coleman Street
 Bismarck, ND 58503

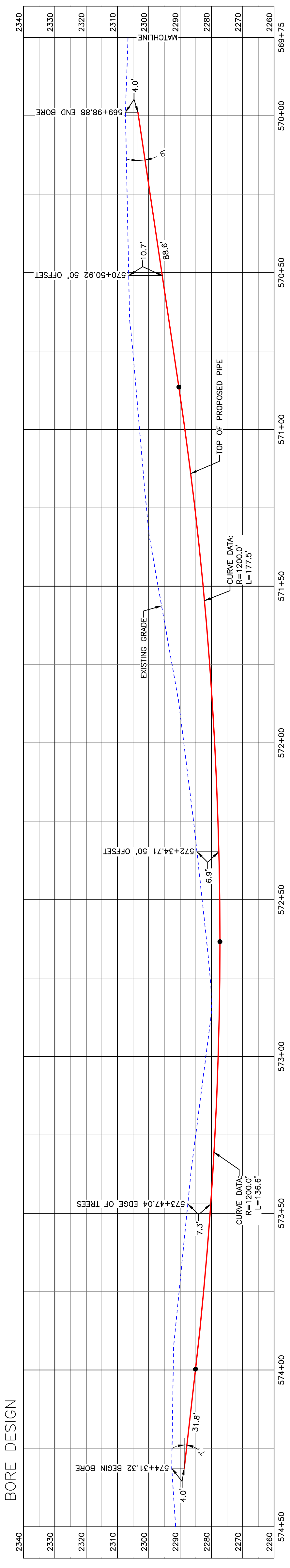
MCKENZIE COUNTY
 NW1/4, SEC. 29,
 T149N, R95W



**BOE PIPELINE PHASE II
 AVOIDANCE AREA CROSSING BORE #21**
 MCKENZIE COUNTY, NORTH DAKOTA



Location Map



PULLBACK AREA



PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Miils FBE, 30-35 Miils ARO

LEGEND
 PROPOSED PIPE

scale
 0 20 40
 1" = 20'

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 432.44 FT.
 TOTAL BORE LENGTH = 434.5 FT.

LEGEND

---	PROPERTY LINE	---	EXISTING FENCE	-----	AVOIDANCE AREA
---	SECTION LINE	---	FIBER OPTIC COM. LINE	-----	WETLAND
---	EASEMENT LINE	---	RAILROAD	-----	EASEMENT
---	PIPELINE CENTERLINE	---	OVERHEAD ELECTRIC	-----	TEST LEAD
---	WATER LINE	---	UTILITY POLE	-----	VALVE SETTING
---	FOREIGN PIPELINE	---	PROPOSED BORE	-----	EROSION/SEDIMENT CONTROL BMP
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP	-----	MARKER POST
---	UNDERGROUND COM. LINE	---	MARKER POST	-----	

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	435'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

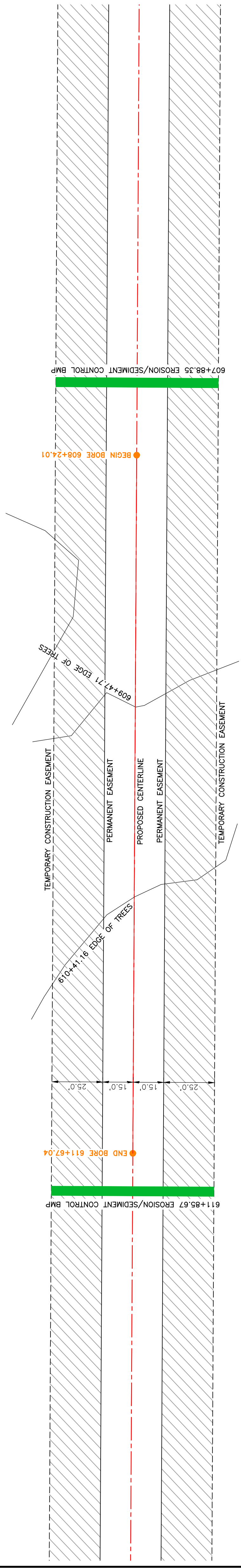
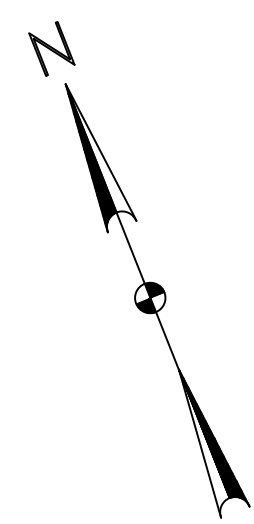


BAKKEN OIL EXPRESS
 BOE PIPELINE PHASE II
 AVOIDANCE AREA CROSSING BORE #21

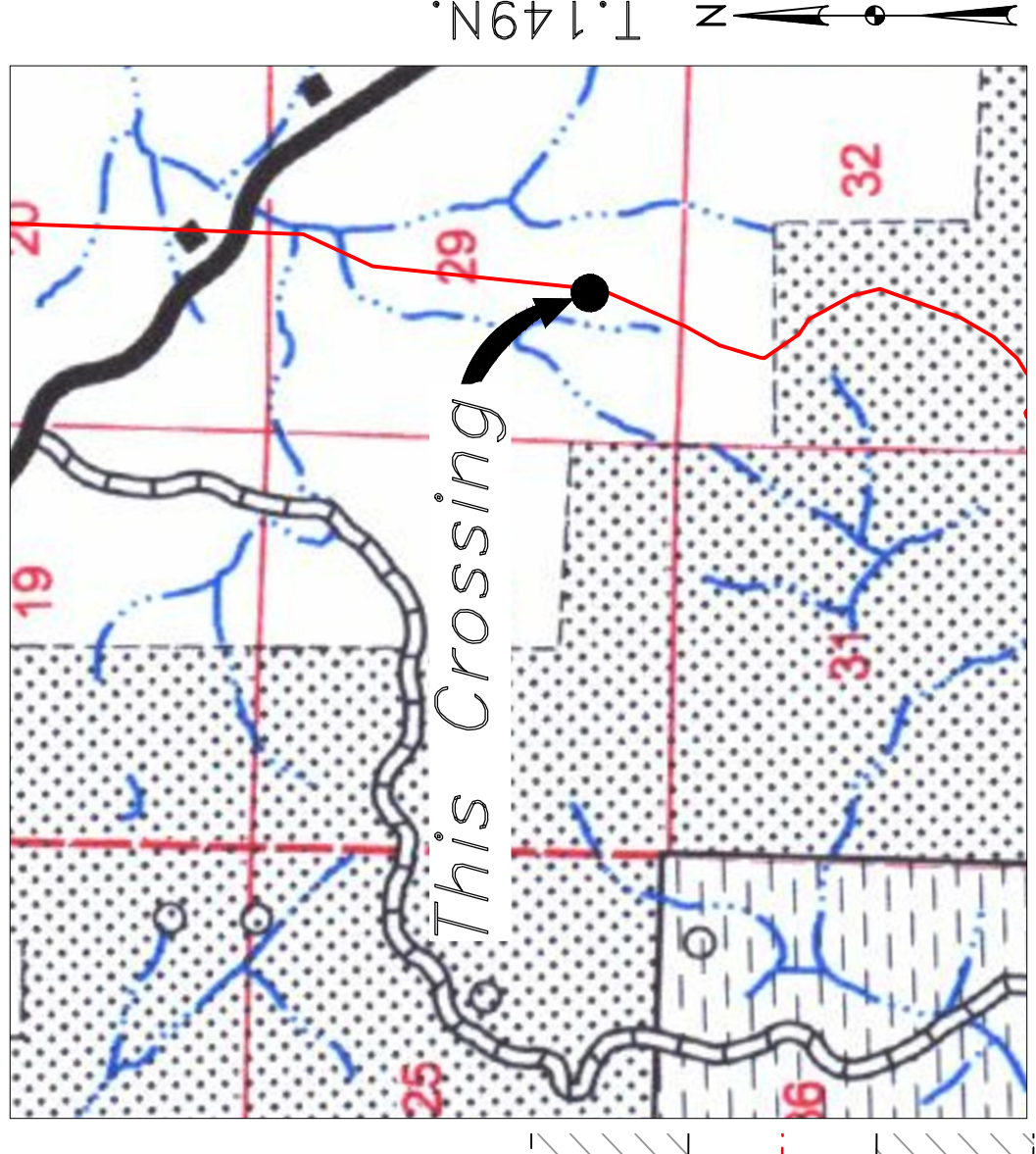


MCKENZIE COUNTY
SW1/4, SEC. 29,
T149N, R95W

BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #22
MCKENZIE COUNTY, NORTH DAKOTA



Location Map



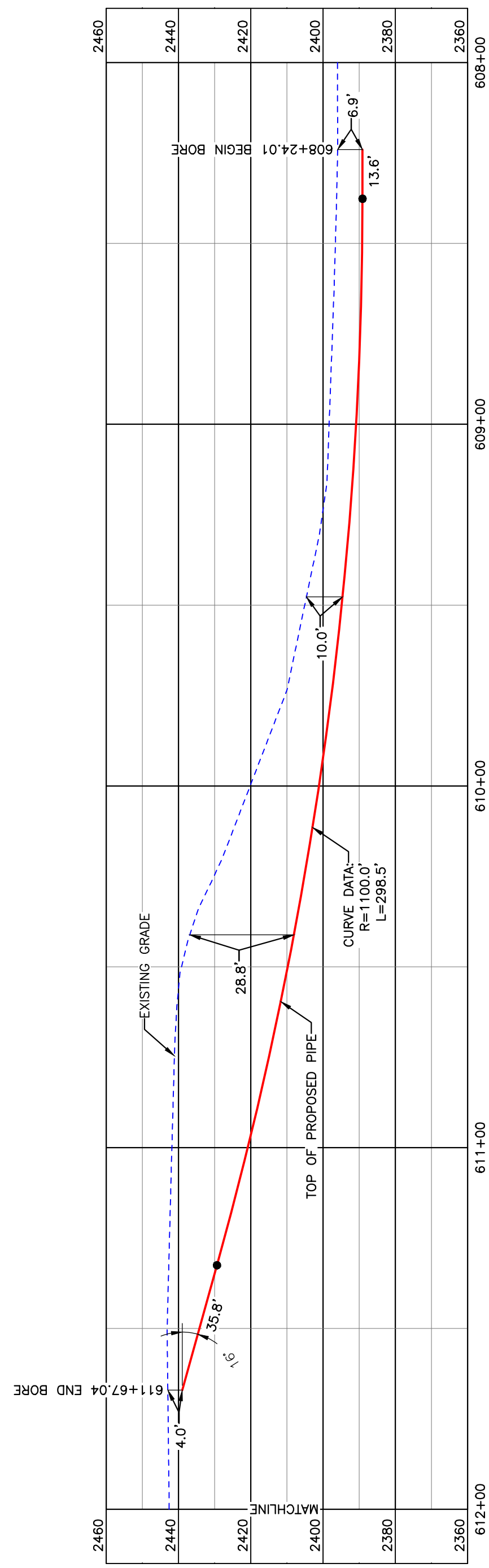
Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

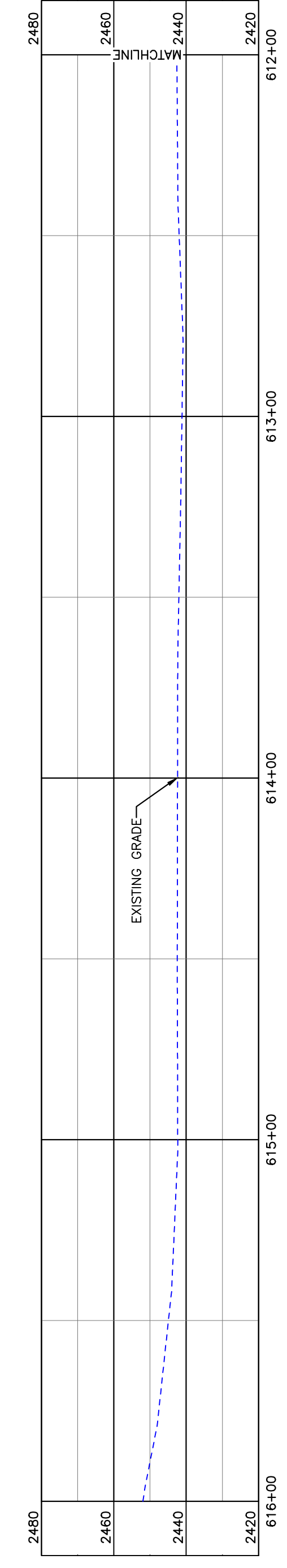
LEGEND

PROPOSED PIPE

scale
15' 0 15' 30'
1" = 30'



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	608+24.01	47°41'26.91" N	102°52'12.33" W
END BORE	611+67.04	47°41'23.76" N	102°52'14.20" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 343.03 FT.
TOTAL BORE LENGTH = 347.9 FT.

LEGEND

- PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- PIPELINE CENTERLINE
- WATER LINE
- FOREIGN ROAD
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- OVERHEAD ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	348'	12.75" OD x60, 0.375 W.T., 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL FIELD EXPRESS

BAKKEN OIL
EXPRESS PIPELINE

BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #22

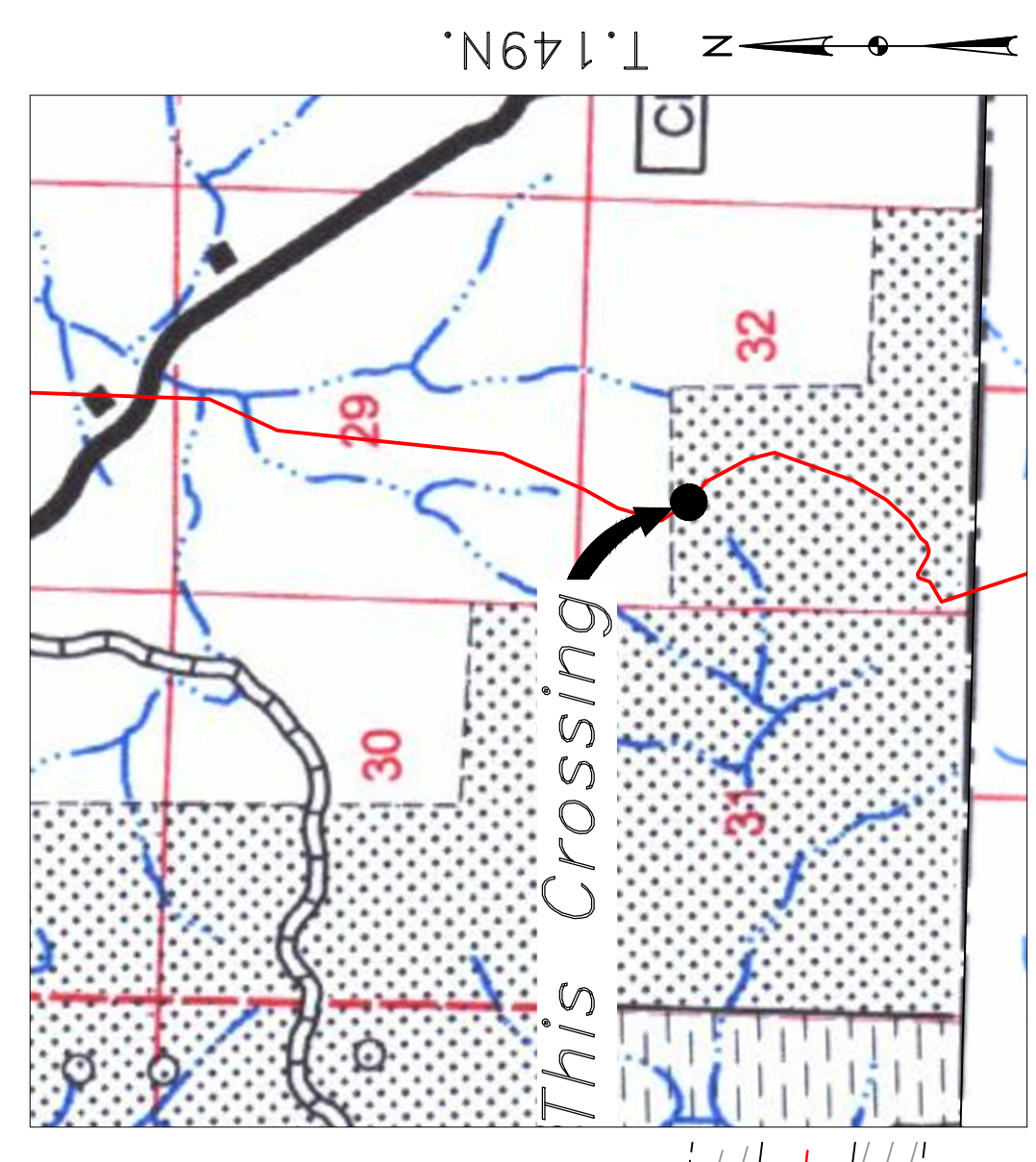
SECTION 29, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA

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Bismarck, ND 58503

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**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #23**
MCKENZIE COUNTY, NORTH DAKOTA

MCKENZIE COUNTY
NW1/4, SEC. 32,
T149N, R95W

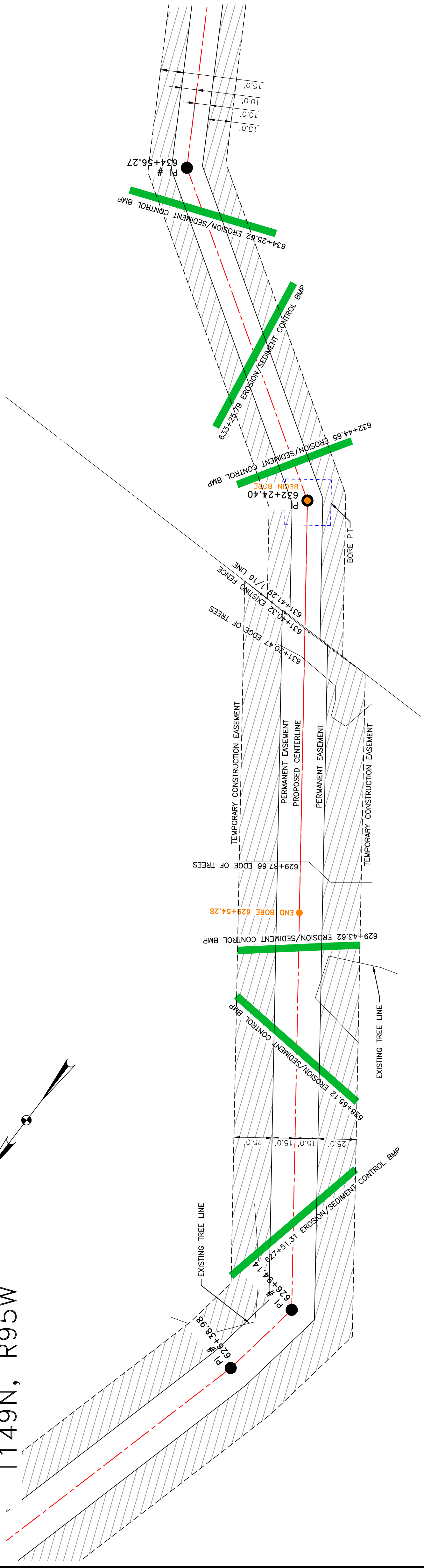
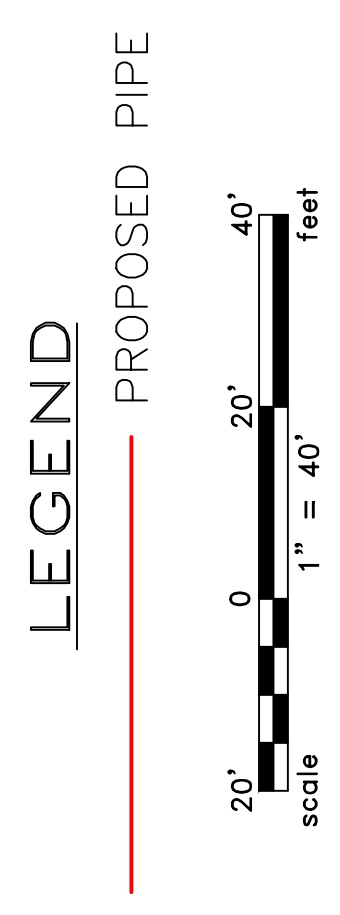


Location Map



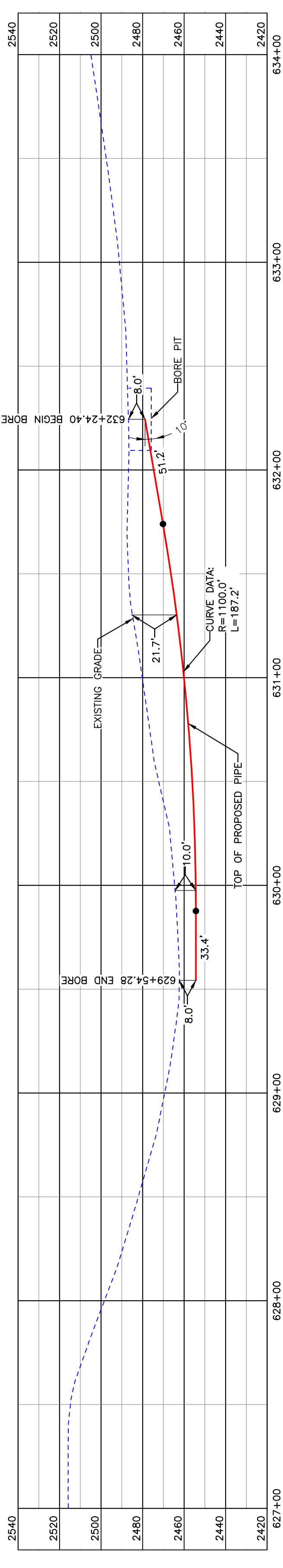
Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO



PULLBACK AREA

BORE DESIGN



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	629+54.28	47°41'07.67" N	102°52'19.79" W
END BORE	632+24.40	47°41'05.52" N	102°52'17.44" W

TOTAL HORIZONTAL DISTANCE = 270.12 FT.
TOTAL BORE LENGTH = 271.8 FT.

PRELIMINARY

LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
—x—x—	EXISTING FENCE	MK.NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
—FO—	FIBER OPTIC COM. LINE	2	272'				
—	RAILROAD						
—E(O)—	OVERHEAD ELECTRIC						
—	UTILITY POLE						
—	PROPOSED BORE						
—	EROSION/SEDIMENT CONTROL BMP						
—	UNDERGROUND COM. LINE						
—	MARKER POST						
—	AVOIDANCE AREA						
—	WETLAND						
—	EASEMENT						
—	TEST LEAD						
—	VALVE SETTING						

MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
DESCRIPTION	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	272'				

NO.	DATE	DESCRIPTION

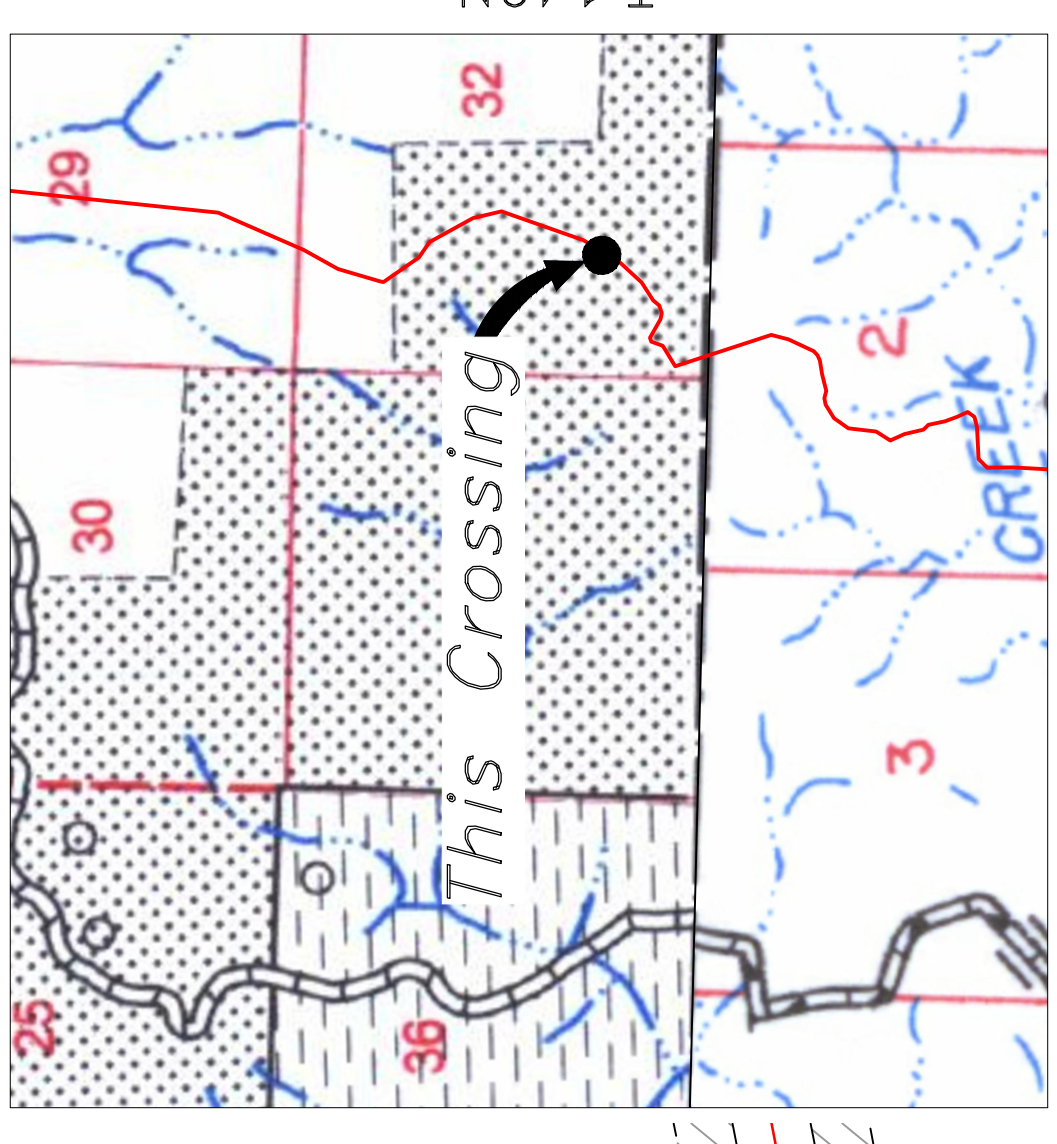
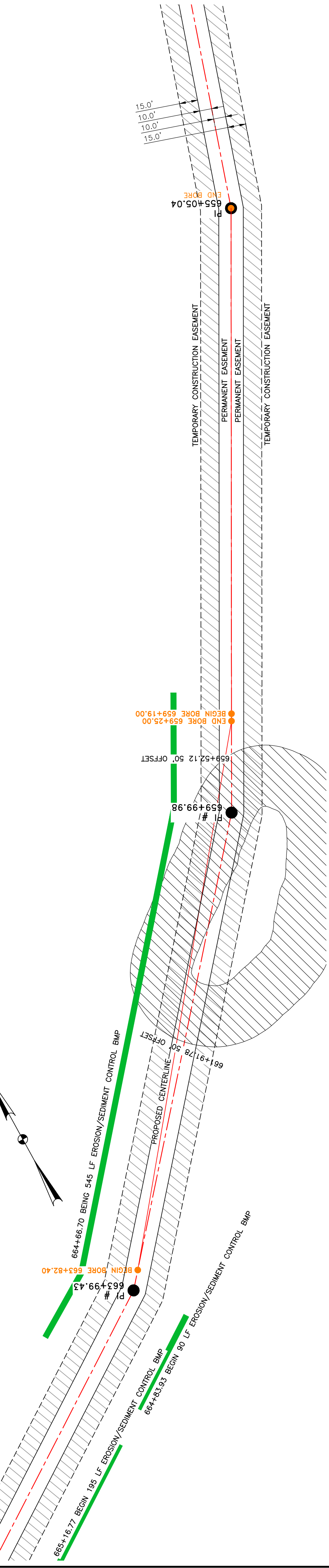
SCALE: 1" = 40'	SHEET: 75
DRAWN BY: ROMANN	REGION: MCKENZIE COUNTY, NORTH DAKOTA
DATE: 2/17/2016	
CHECKED BY:	
APPROVED BY:	
KLJ JOB NUMBER: 1713271	

BOE BAKKEN OIL EXPRESS	BAKKEN OIL EXPRESS PIPELINE
BOE PIPELINE PHASE II	
TREE LINE CROSSING BORE #23	

SECTION 32, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA
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Bismarck, ND 58503
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MCKENZIE COUNTY
SW1/4, SEC. 32,
T149N, R95W

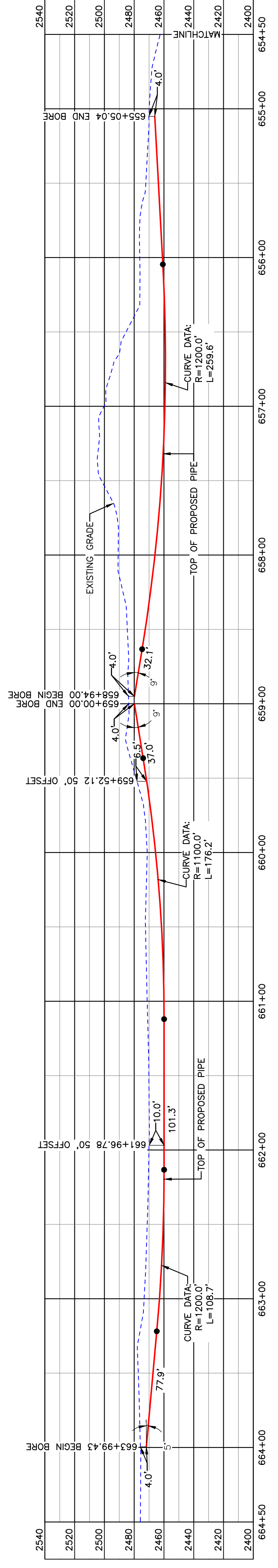
BOE PIPELINE PHASE II
AVOIDANCE AREA CROSSING BORE #24 & #25
MCKENZIE COUNTY, NORTH DAKOTA



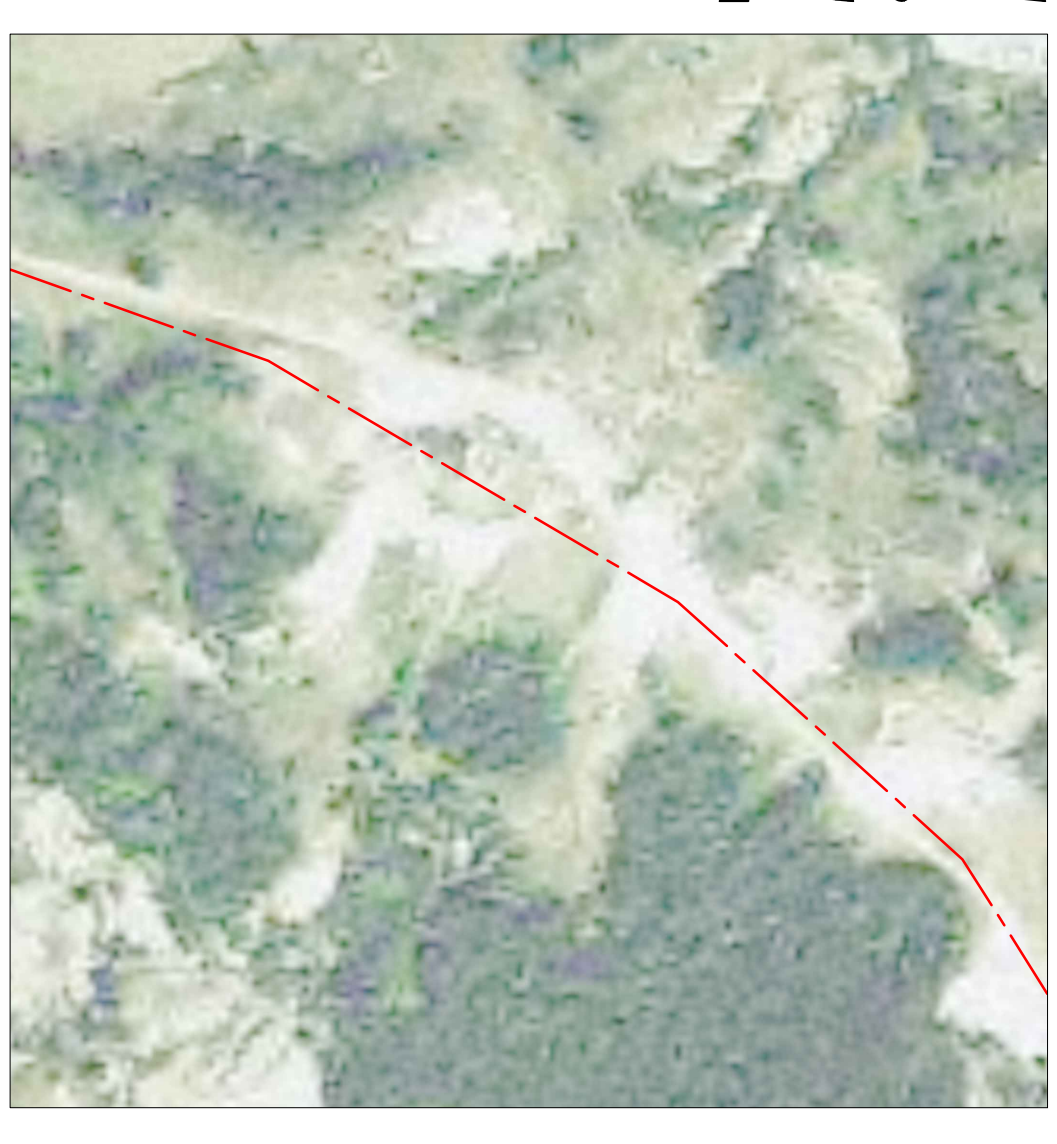
R.96W. | R.95W.

Location Map

BORE DESIGN



PULLBACK AREA



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

scale 1" = 50'

25' 0' 25' 50'

TOTAL HORIZONTAL DISTANCE = 877.36 FT.
TOTAL BORE LENGTH = 878.0 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	663+82.40	47°40'38.39" N	102°52'20.53" W
END BORE	655+05.04	47°40'45.54" N	102°52'13.43" W

LEGEND		MATERIAL SUMMARY	
—	PROPERTY LINE	MK.NO.	QTY.
—	SECTION LINE	2	878'
—	EASEMENT LINE	DESCRIPTION	
—	RAILROAD	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO	
—	PIPELINE CENTERLINE	DESCRIPTION	
—	WATER LINE	EASEMENT	
—	FOREIGN PIPELINE	UTILITY POLE	
—	UNDERGROUND COM. LINE	TEST LEAD	
—		VALVE SETTING	
—		EROSION/SEDIMENT CONTROL BMP	
—		MARKER POST	

REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	DESCRIPTION	NO.	DATE

BOE PIPELINE PHASE II	
DATE	2/17/2016
CHECKED BY	
APPROVED BY	
KLJ JOB NUMBER	1713271
REGION	SHEET: 76

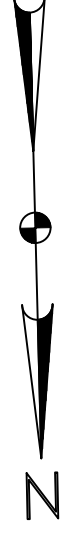
BOE PIPELINE PHASE II
BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
AVOIDANCE AREA CROSSING BORE
BORES #24 & #25

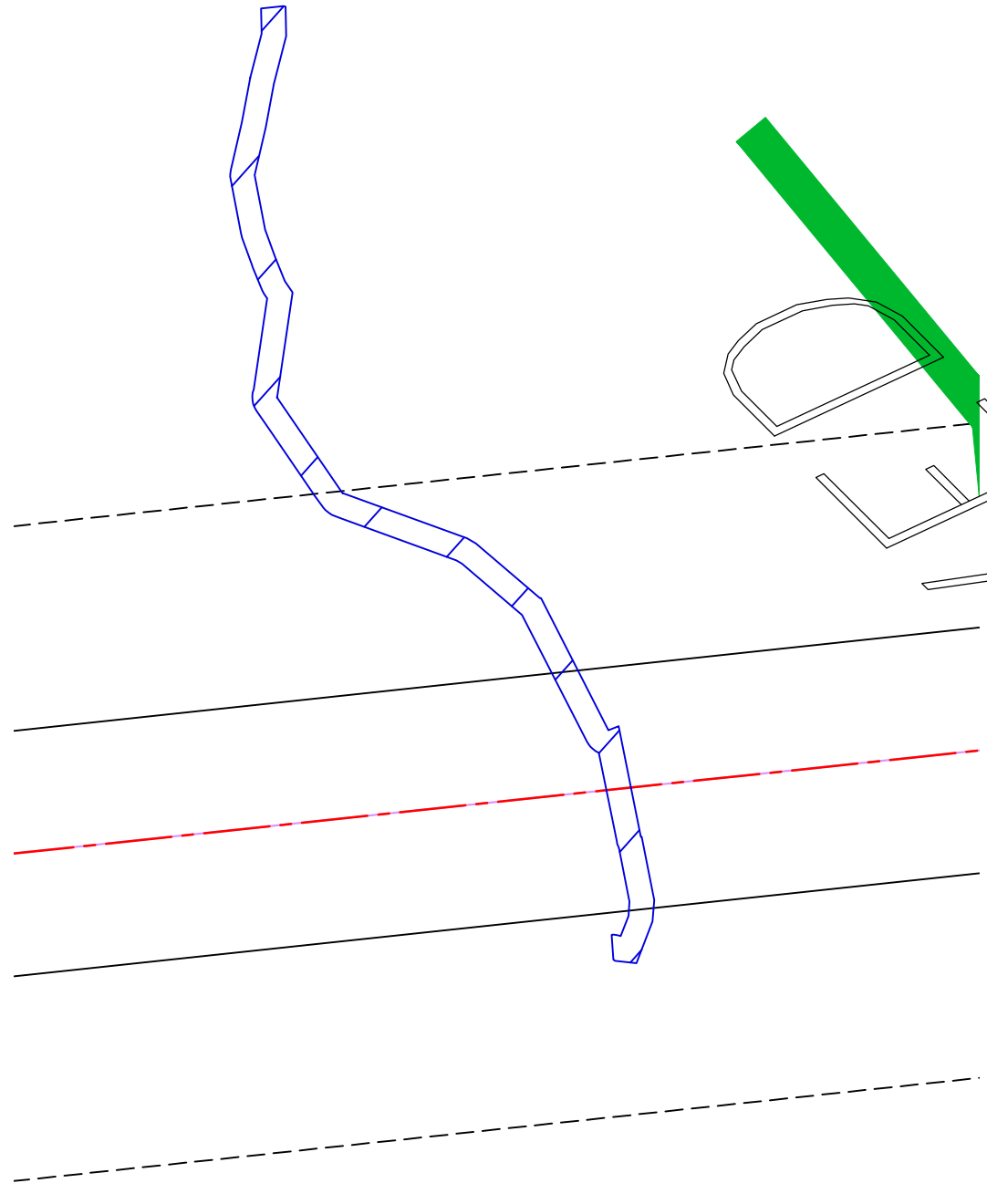
SECTION 32, T.149N., R.95W., MCKENZIE COUNTY, NORTH DAKOTA



DUNN COUNTY
SW1/4, SEC. 2,
T148N, R96W

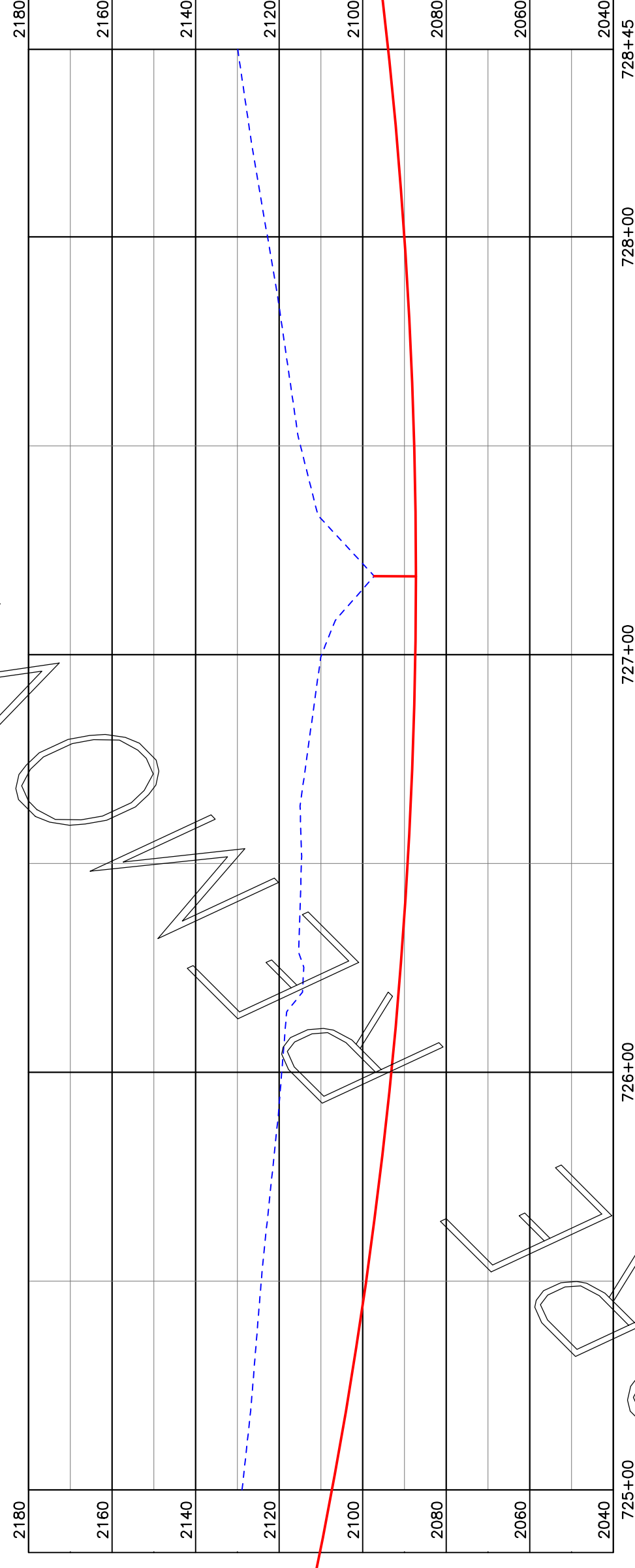


**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #26**
DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
SW1/4, SEC. 2,
T148N, R96W

BORE DESIGN



PROFILE VIEW: BORE #26

PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	---	---	---
END BORE	---	---	---

PRELIMINARY

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	EASEMENT		WETLAND
	WATER LINE		ELECTRIC
	EXISTING ROAD		UTILITY POLE
	UNDERGROUND COM. LINE		PROPOSED BORE
			EROSION CONTROL BMP
			MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2		16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

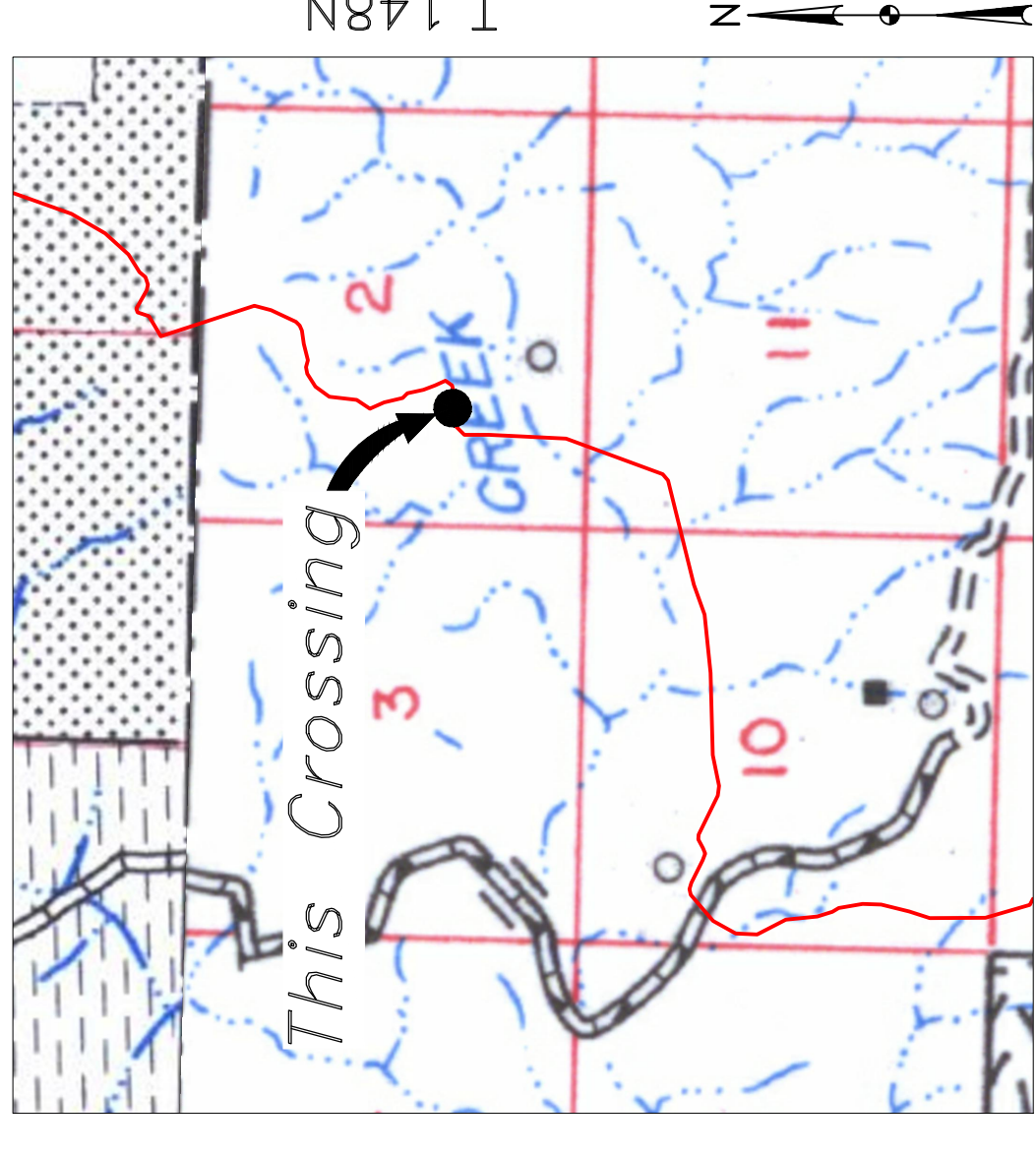
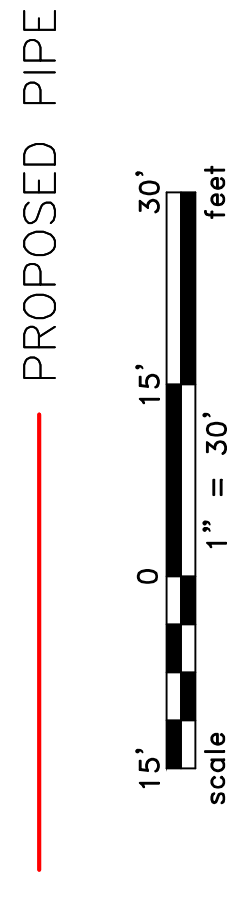
NO.	DATE	DESCRIPTION

SCALE: 1" = 30'
DRAWN BY: A. ROMANN
DATE: 5/10/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY: KJL JKL
REVISION: 1713271
SHEET: 77

TOTAL HORIZONTAL DISTANCE = ____ FT.
TOTAL BORE LENGTH = ____ FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

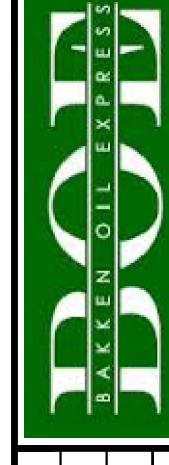
LEGEND



Location Map



Aerial Map



BAKKEN OIL
EXPRESS PIPELINE

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #26
SECTION 2, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA

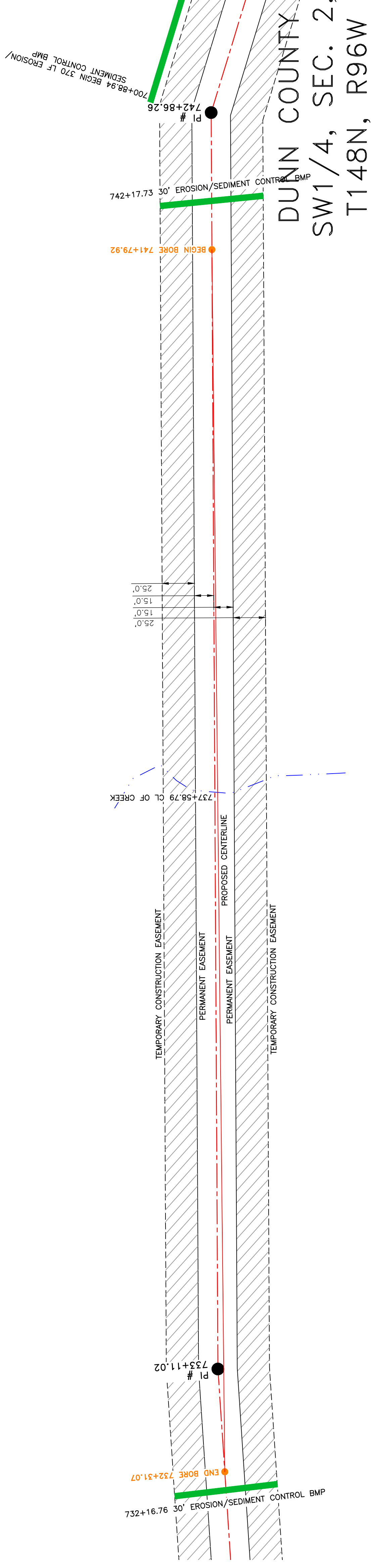


1555 Columbia Street
Bismarck, ND 58503

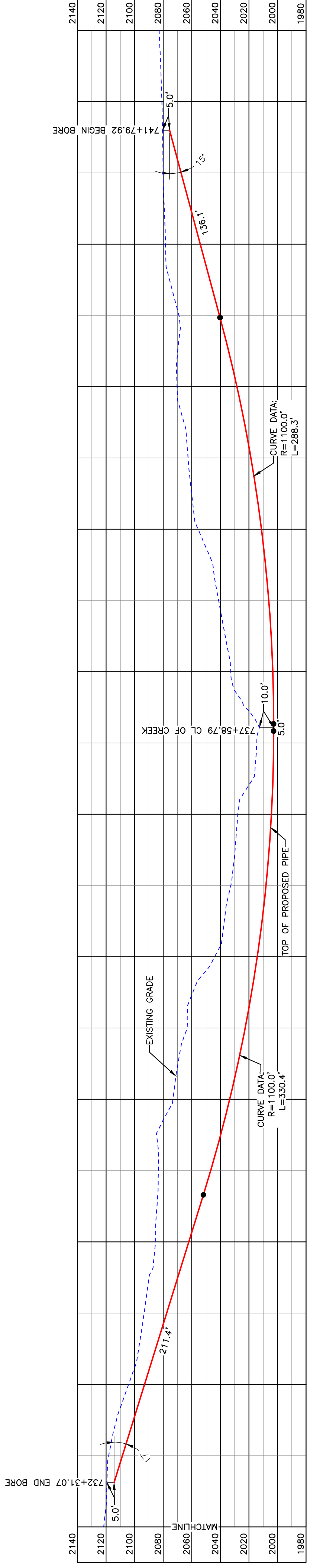
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**DUNN COUNTY
SW1/4, SEC. 2,
T148N, R96W**

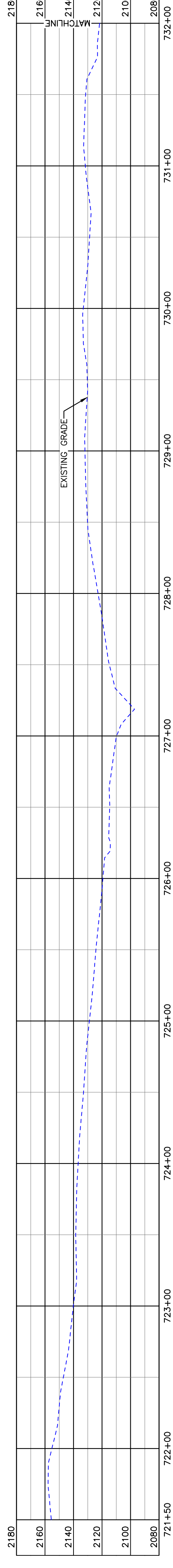
**BOE PIPELINE PHASE II
CREEK CROSSING BORE #27
DUNN COUNTY, NORTH DAKOTA**



BORE DESIGN



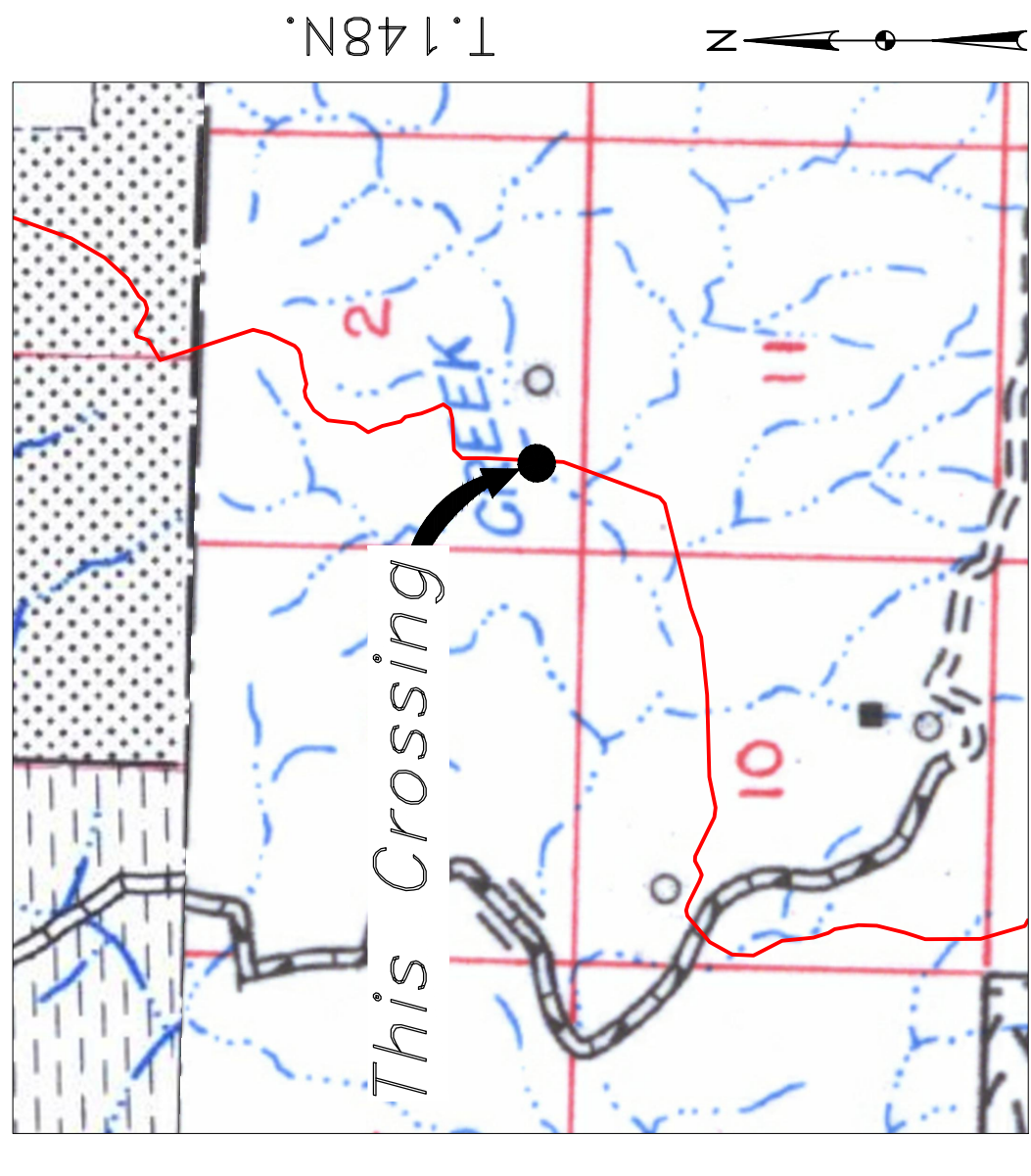
PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	741+79.92	47°39'43.80" N	102°52'52.33" W
END BORE	732+31.07	47°39'53.16" N	102°52'52.12" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 948.85 FT.
TOTAL BORE LENGTH = 971.2 FT.



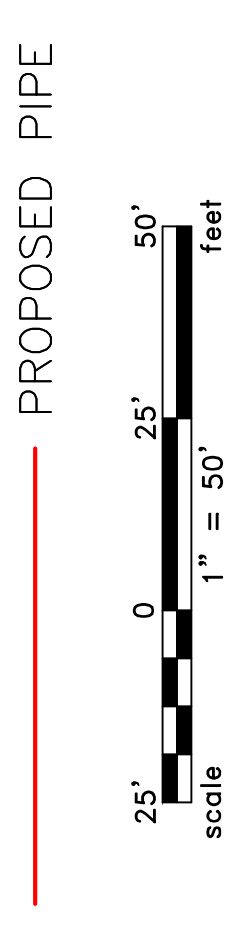
Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



LEGEND

	PROPERTY LINE		EXISTING FENCE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE		WETLAND
	EASEMENT		ROAD		ELECTRIC
	WATER LINE		UTILITY POLE		PROPOSED BORE
	FOREIGN PIPELINE		EROSION CONTROL BMP		VALVE SETTING
	EXISTING ROAD		UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	971'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

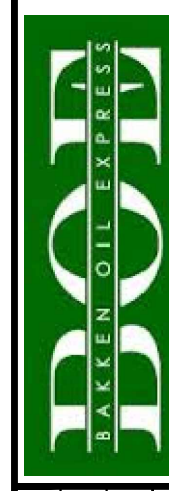
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 50'
 DRAWN BY: A. ROMANN
 DATE: 5/10/16
 CHECKED BY:
 APPROVED BY:
 BORE APPROVED BY:
 KJL JLR
 REVISION:
 SHEET: 78

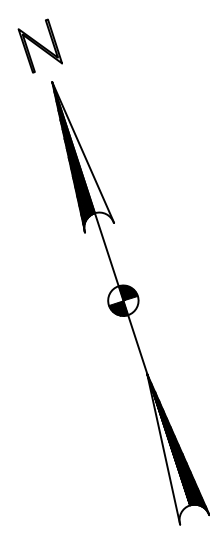


**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**



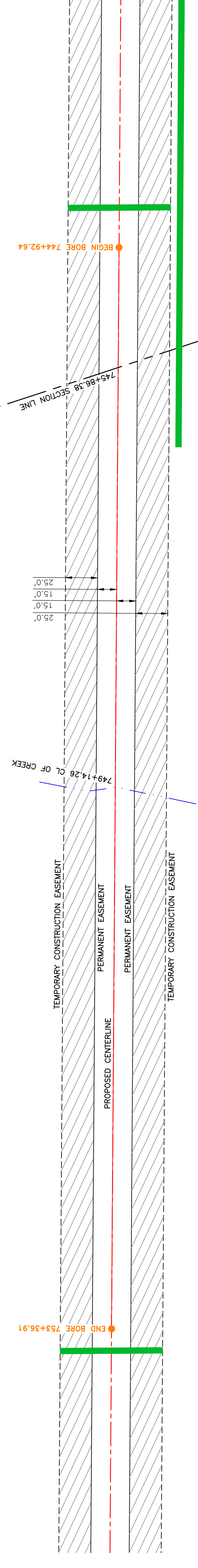
BOE PIPELINE PHASE II
CREEK CROSSING BORE #27
SECTION 2, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA

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Bismarck, ND 58503
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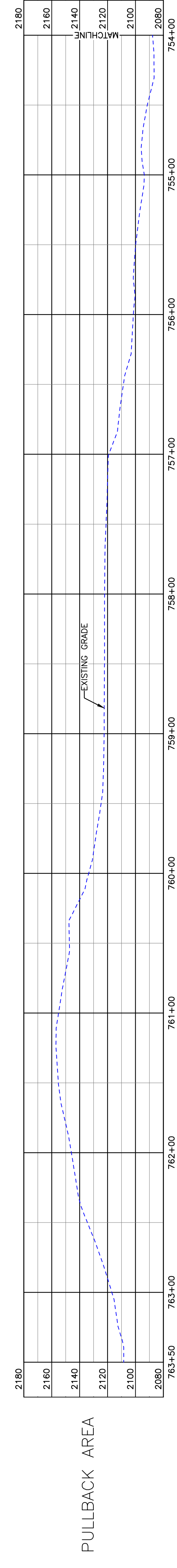
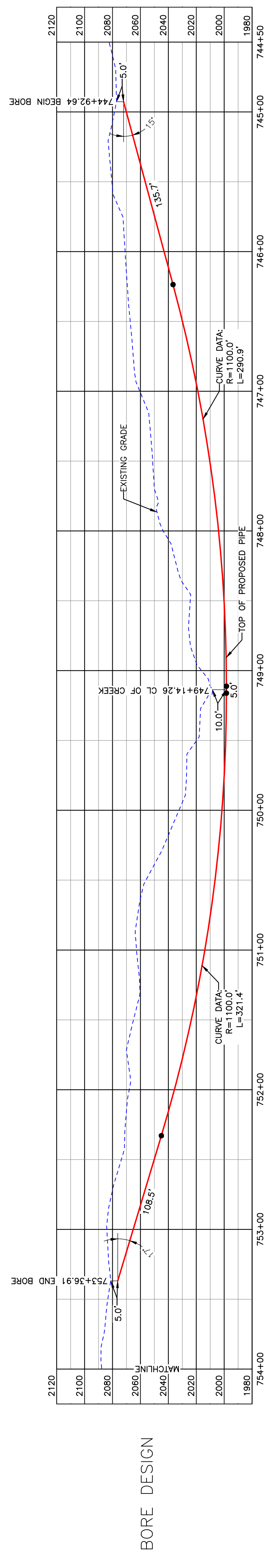


**DUNN COUNTY
NW1/4, SEC. 11,
T148N, R96W**

**BOE PIPELINE PHASE II
CREEK CROSSING BORE #28
DUNN COUNTY, NORTH DAKOTA**



**DUNN COUNTY
SW1/4, SEC. 2,
T148N, R96W**

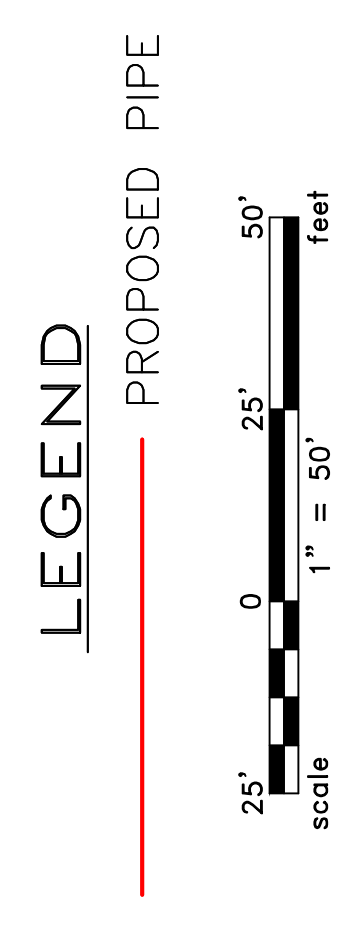


BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	744+92.64	47°39'40.82" N	102°52'53.32" W
END BORE	753+36.91	47°39'32.92" N	102°52'57.22" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 844.27 FT.
TOTAL BORE LENGTH = 861.5 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-16 MILS FBE, 30-35 MILS ARO



LEGEND

- PROPERTY LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- ROAD
- WATER LINE
- FOREIGN PIPELINE
- EXISTING ROAD
- UNDERGROUND COM. LINE
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- UTILITY POLE
- PROPOSED BORE
- FROSDENMENT CONTROL BMP
- MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	862'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 50'

DRAWN BY: A. ROMANN
DATE: 5/10/16
CHECKED BY:
APPROVED BY:
BOE APPROVED BY:
KJL JUDICIAL: 1713271
REVISION:
SHEET: 79

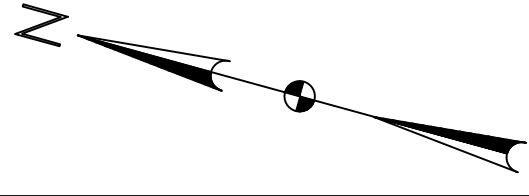
**BOE PIPELINE PHASE II
CREEK CROSSING BORE #28**

SECTIONS 2 & 11, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA

**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**

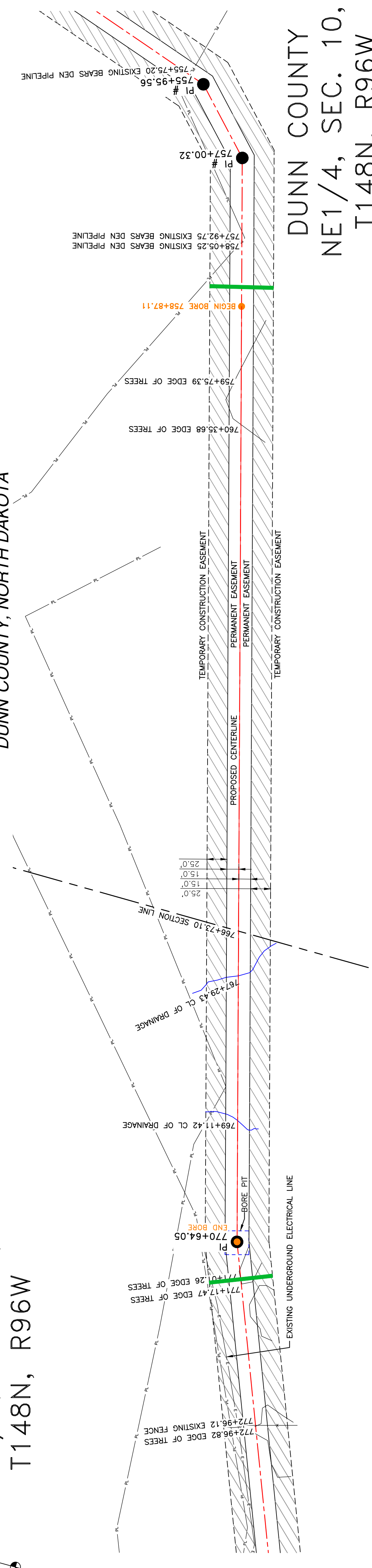
1555 Columbia Street
Bismarck, ND 58503

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DUNN COUNTY
NW1/4, SEC. 11,
T148N, R96W

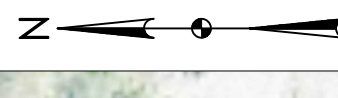
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #29
DUNN COUNTY, NORTH DAKOTA



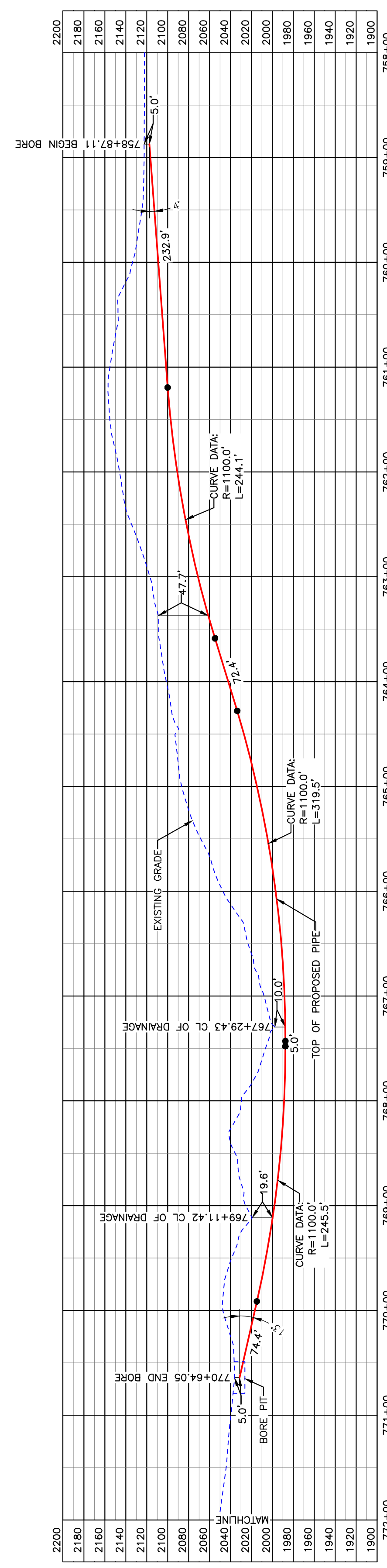
DUNN COUNTY
NE1/4, SEC. 10,
T148N, R96W



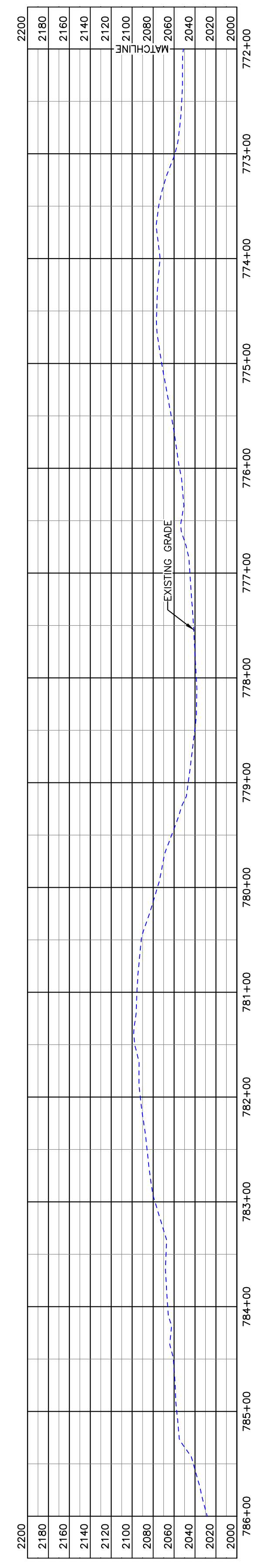
Location Map



Aerial Map



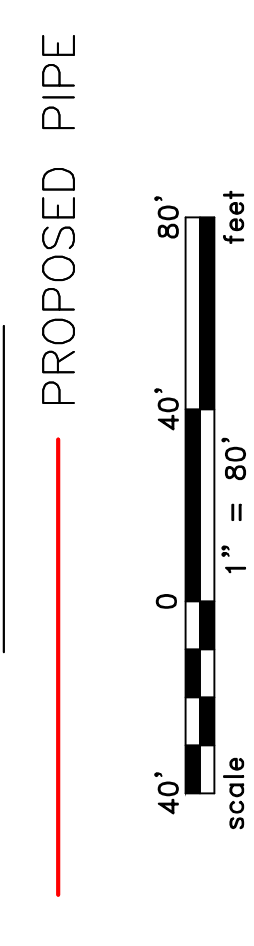
BORE DESIGN



PULLBACK AREA

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



TOTAL HORIZONTAL DISTANCE = 1,176.94 FT.

TOTAL BORE LENGTH = 1,193.80 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	758+87.11	47°39'29.29" N	102°53'02.16" W
END BORE	770+64.05	47°39'26.17" N	102°53'18.71" W

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	WATER LINE	—	EASEMENT
—	FOREIGN PIPELINE	—	UTILITY POLE
—	EXISTING ROAD	—	PROPOSED BORE
—	UNDERGROUND COM. LINE	—	EROSIONMENT CONTROL BMP
		—	VALVE SETTING
		—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	1,194'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 80'
DRAWN BY: R. HENDRICKSON
DATE: 5/10/16
CHECKED BY: []
APPROVED BY: []
BORE APPROVED BY: []
KLJ JOB #1713271
REVISION:
SHEET: 80

BOE
BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

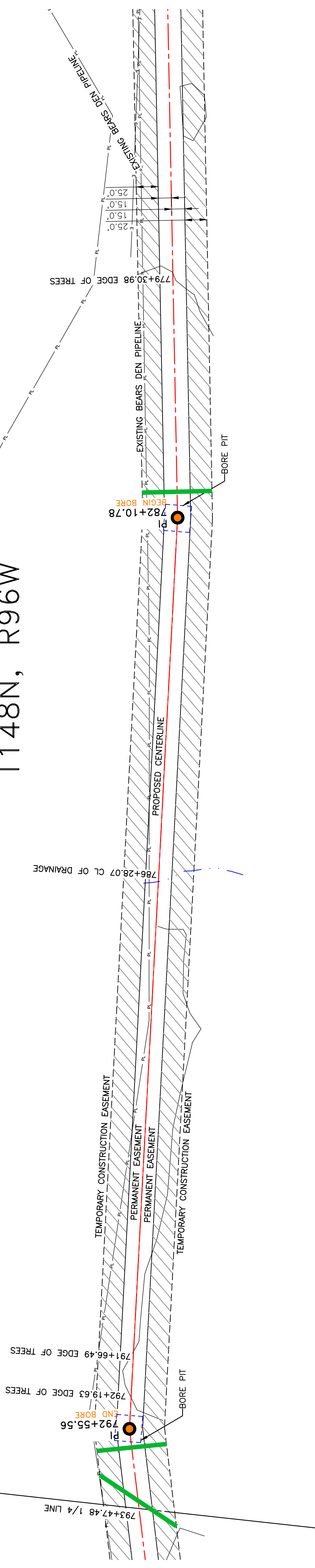
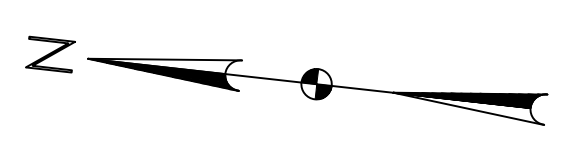
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #29

SECTIONS 10 & 11, T.148N., R.95W., DUNN COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503

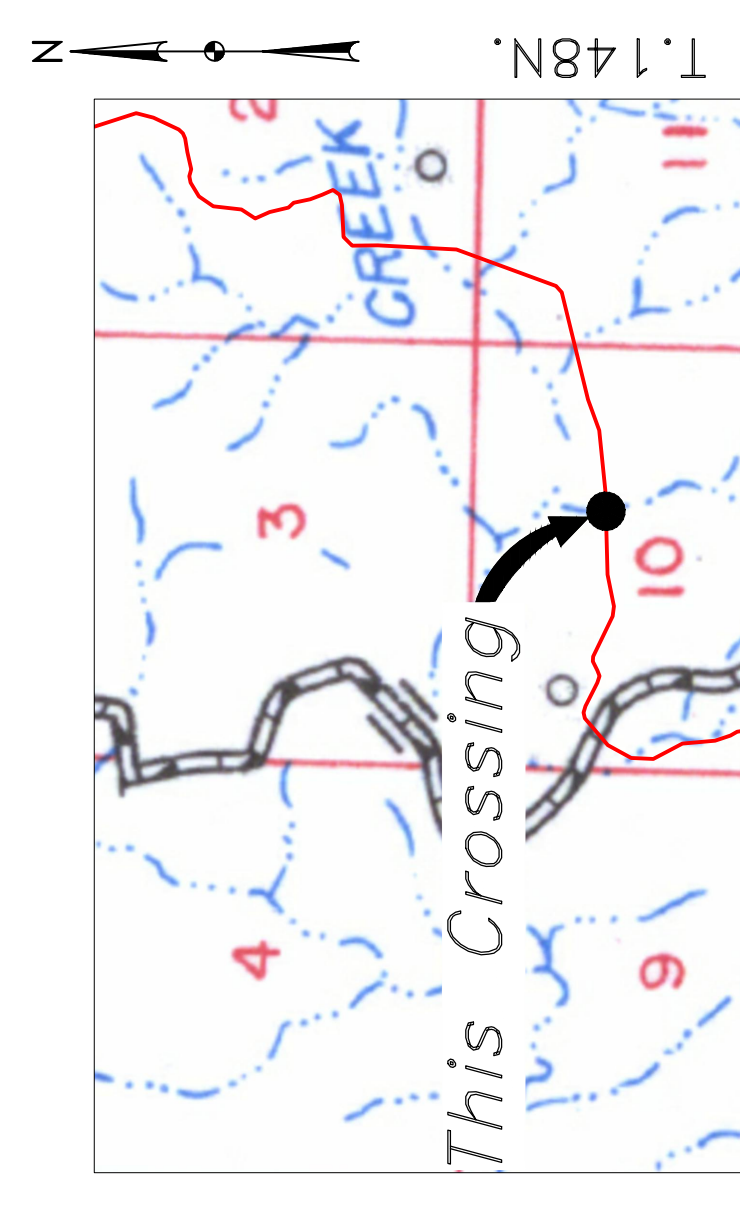


DUNN COUNTY
NW1/4, SEC. 10,
T148N, R96W

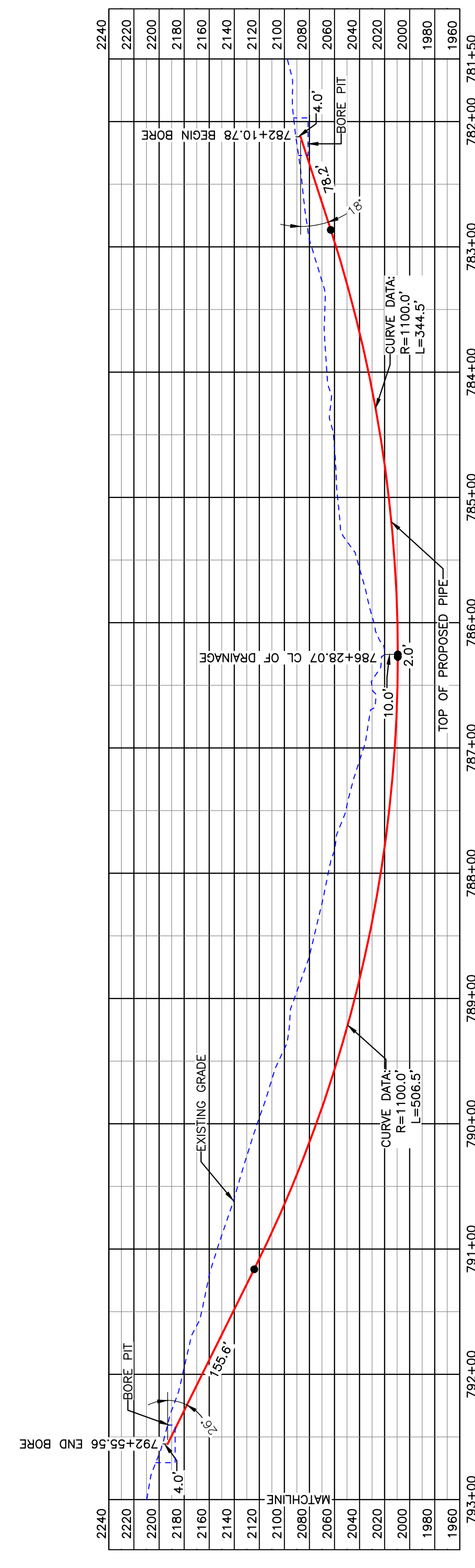


**BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #30**
DUNN COUNTY, NORTH DAKOTA

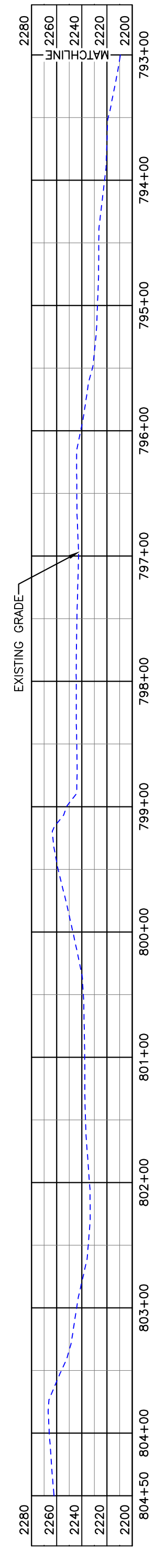
DUNN COUNTY
NE1/4, SEC. 10,
T148N, R96W



R.96W.
Location Map



BORE DESIGN



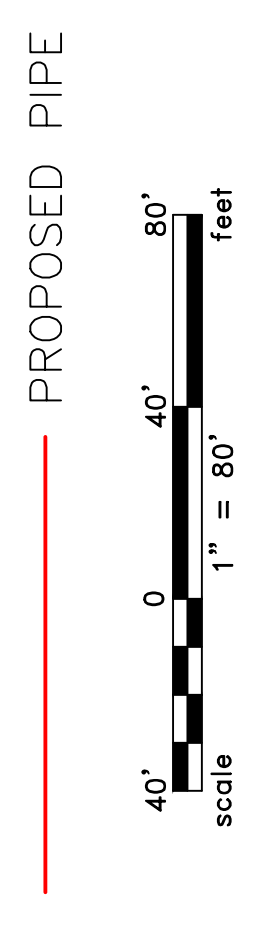
PULLBACK AREA



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



TOTAL HORIZONTAL DISTANCE = 1044.78 FT.
TOTAL BORE LENGTH = 1086.8 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	782+10.78	47°39'23.74" N	102°53'34.96" W
END BORE	792+55.56	47°39'23.14" N	102°53'50.19" W

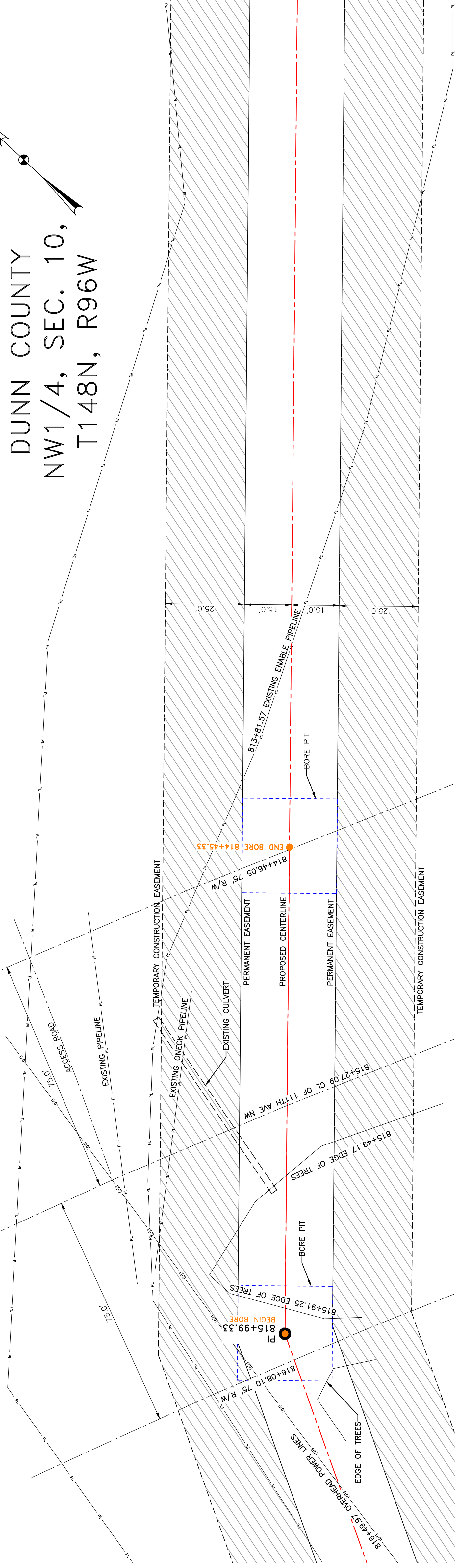
MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	NO.	DATE
16"	OD, 0.344" W.T. API 5L X70, FBE, ARO				
2	1087'				

LEGEND	BOE PIPELINE PHASE II
PROPERTY LINE	BOE PIPELINE PHASE II
SECTION LINE	BORE #30
EASEMENT LINE	SECTION 10, T.148N., R.96W., MCKENZIE COUNTY, NORTH DAKOTA
PIPELINE CENTERLINE	4585 Coleman Street
WATER LINE	Bismarck, ND 58503
FOREIGN PIPELINE	
EXISTING ROAD	
UNDERGROUND COM. LINE	
MARKER POST	

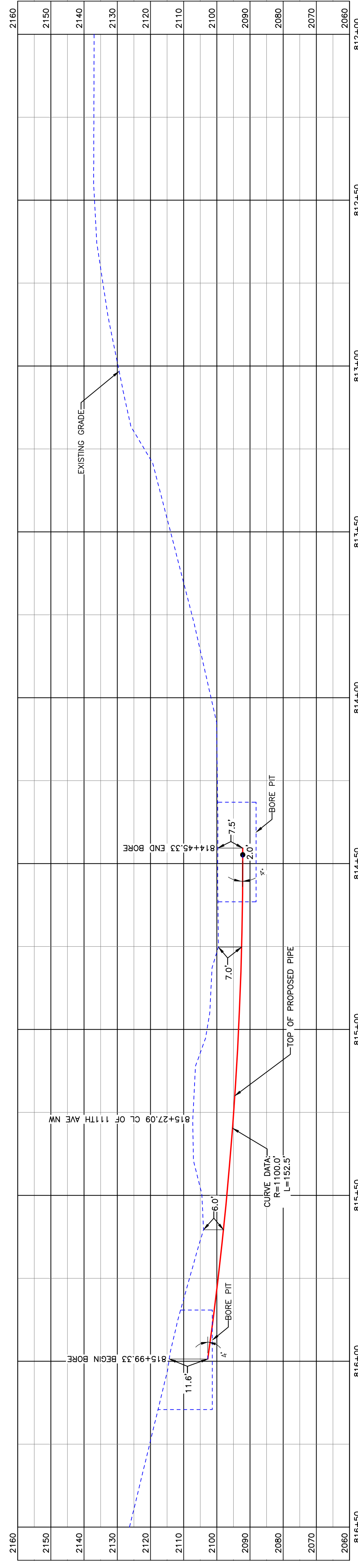
SCALE:	1" = 80'
DRAWN BY:	ROMANN
DATE:	5/10/2016
CHECKED BY:	BOE
APPROVED BY:	BOE
KLJ JOB NUMBER:	1713271
REGION:	SHEET: 81

BOE PIPELINE PHASE II 111TH AVE NW CROSSING BORE #31 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW 1/4, SEC. 10,
T148N, R96W



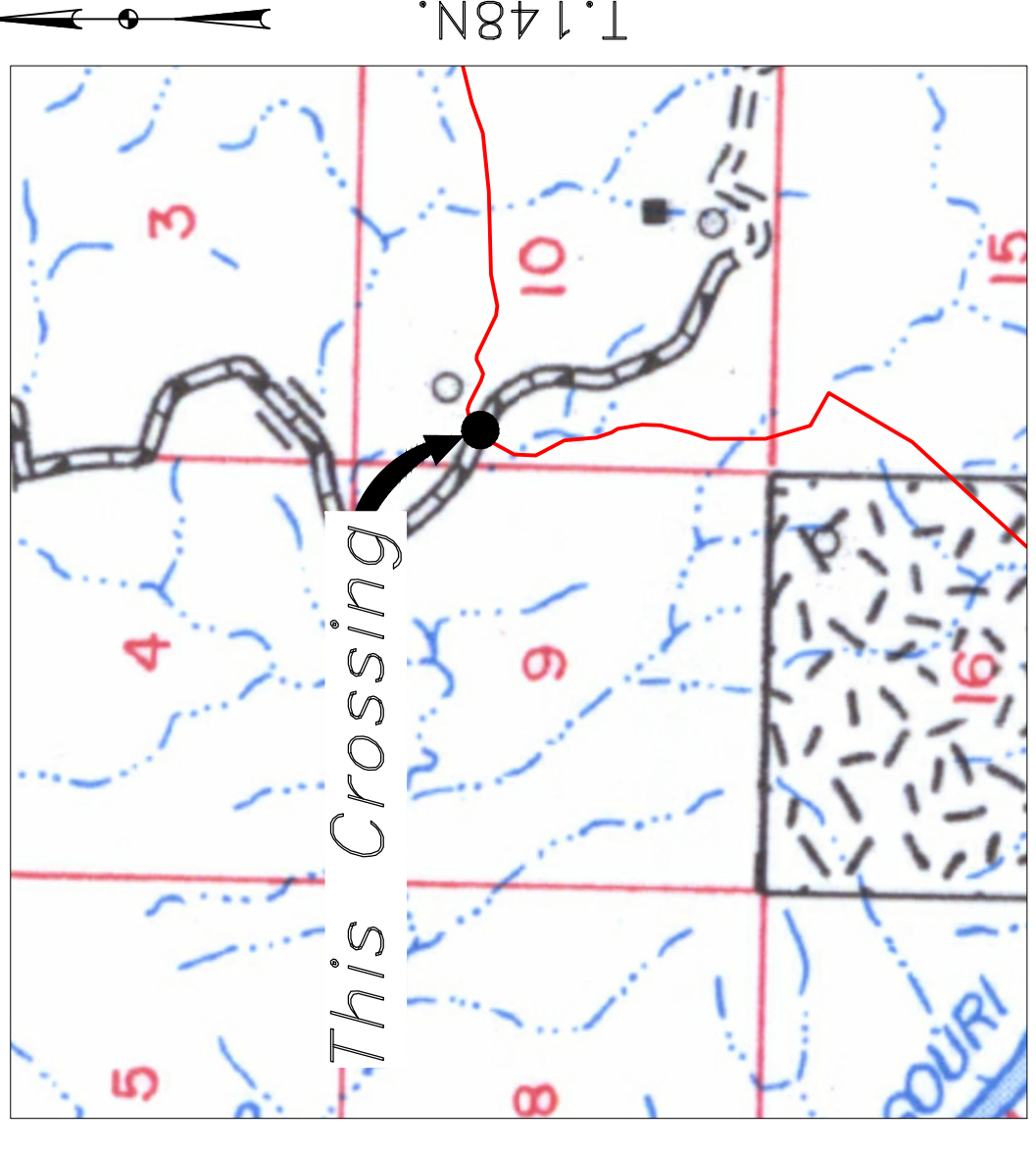
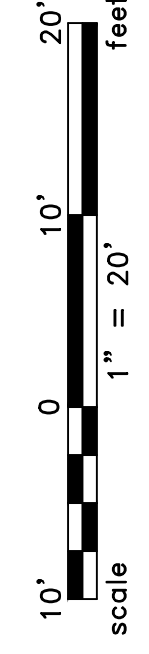
BORE DESIGN



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	815+99.33	47°39'22.46" N	102°54'20.96" W
END BORE	814+45.33	47°39'23.48" N	102°54'19.30" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 154.00 FT.
TOTAL BORE LENGTH = 154.5 FT.



R.96W.

Location Map



Aerial Map

- NOTE:**
- EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.
 - INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND
— PROPOSED PIPE

LEGEND

— x —	EXISTING FENCE
— F0 —	FIBER OPTIC COM. LINE
—	RAILROAD
—	PIPELINE CENTERLINE
— W —	WATER LINE
—	FOREIGN PIPELINE
—	UNDERGROUND COM. LINE
—	AVOIDANCE AREA
—	WETLAND
—	OVERHEAD ELECTRIC EASEMENT
—	UTILITY POLE
—	TEST LEAD
—	VALVE SETTING
—	PROPOSED BORE
—	EROSION/SEEDMENT CONTROL BMP
—	MARKER POST

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	155'	16" OD, 0.344" W.T. API 5L X70, FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II

111TH AVE NW CROSSING BORE #31

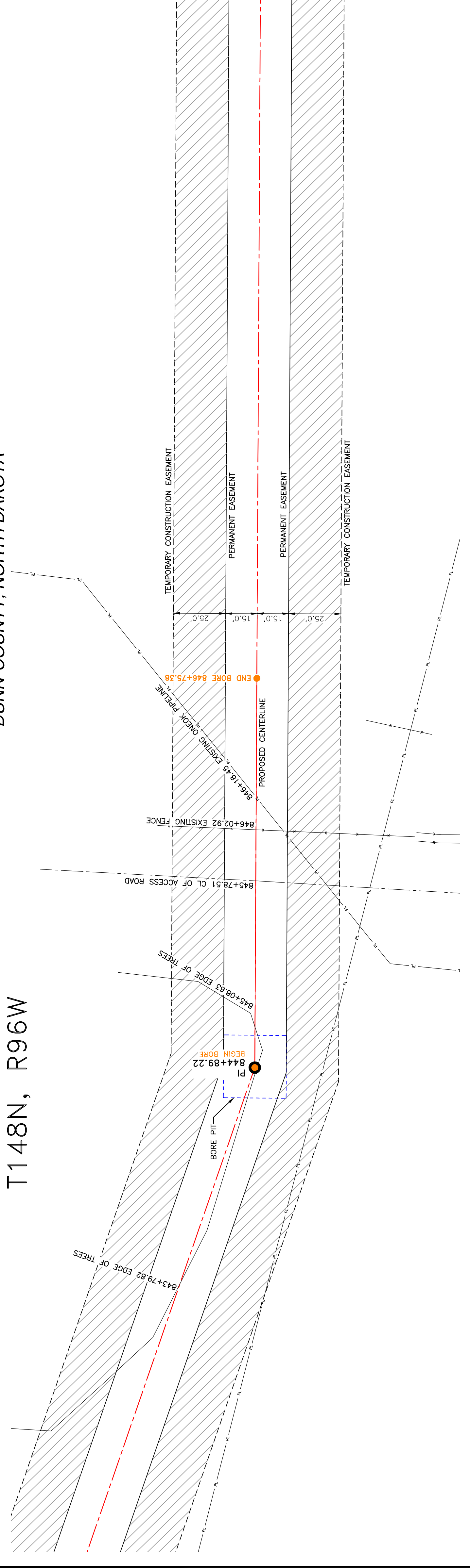


4585 Coleman Street
Bismarck, ND 58503

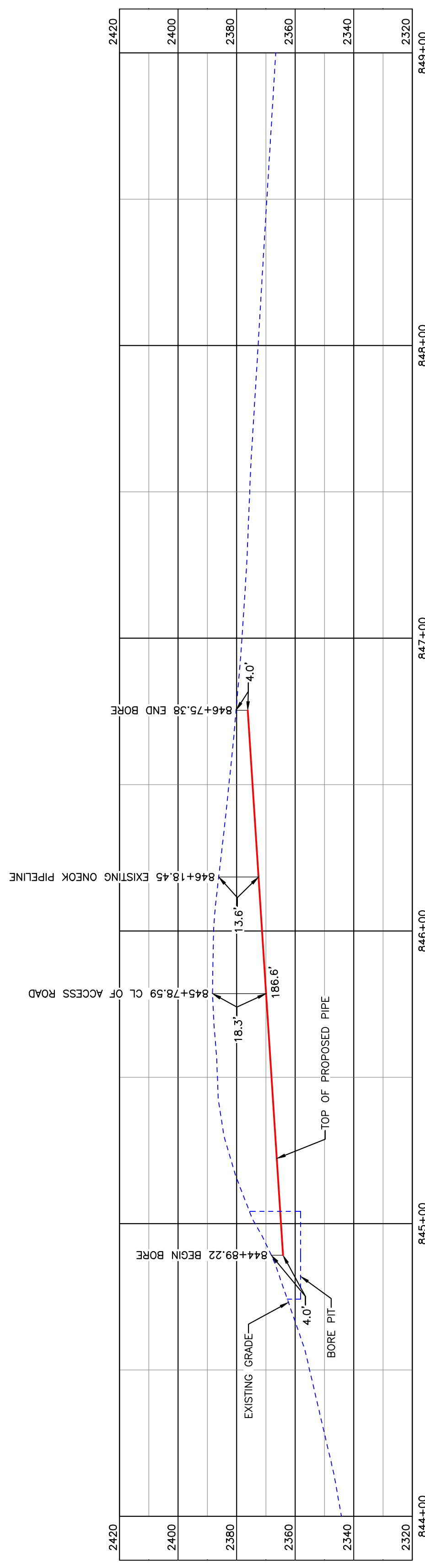


DUNN COUNTY
SW1/4, SEC. 10,
T148N, R96W

**BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #32**
DUNN COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA



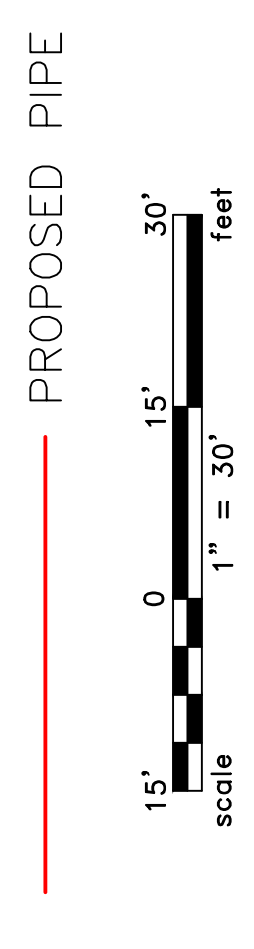
Aerial Map

NOTE:

- INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 186.16 FT.
TOTAL BORE LENGTH = 186.6 FT.

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	844+89.22	47°38'55.36" N	102°54'19.21" W
END BORE	846+75.38	47°38'53.53" N	102°54'19.12" W

LEGEND



MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	187'	16" OD, 0.344" W.T. API 5L X70, FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION



BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #32



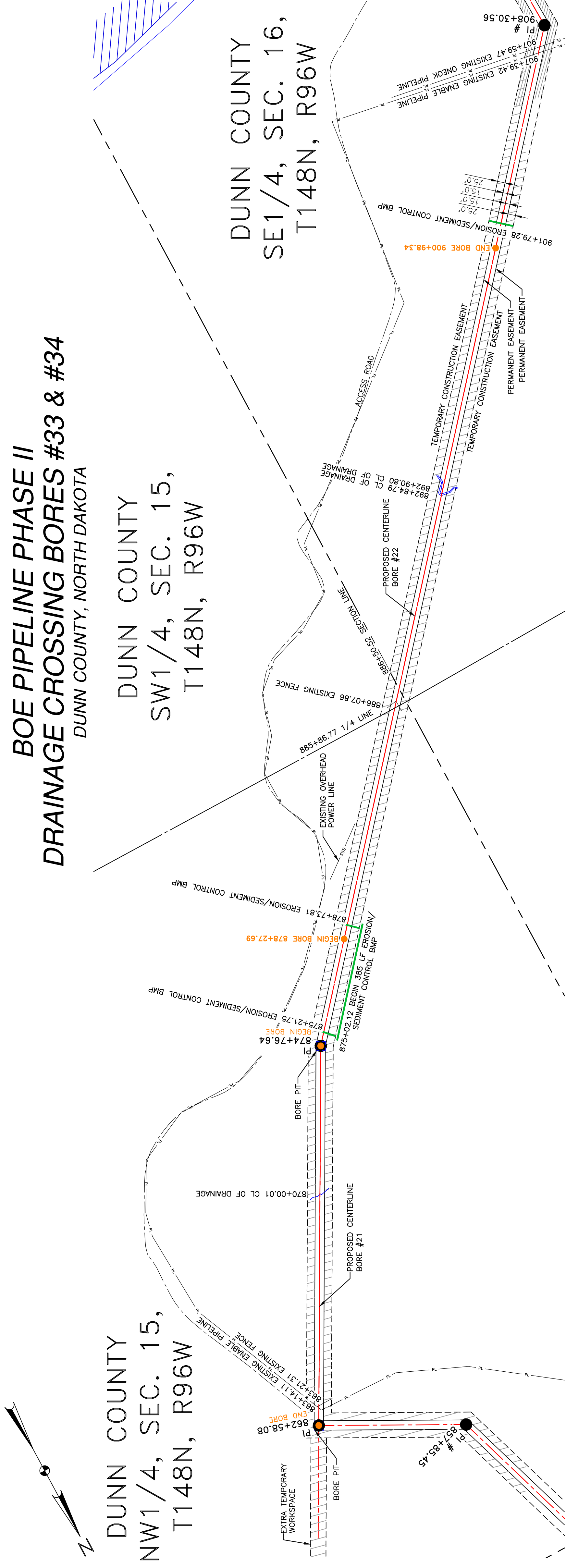
4585 Coleman Street
Bismarck, ND 58503

BOE PIPELINE PHASE II DRAINAGE CROSSING BORES #33 & #34 DUNN COUNTY, NORTH DAKOTA

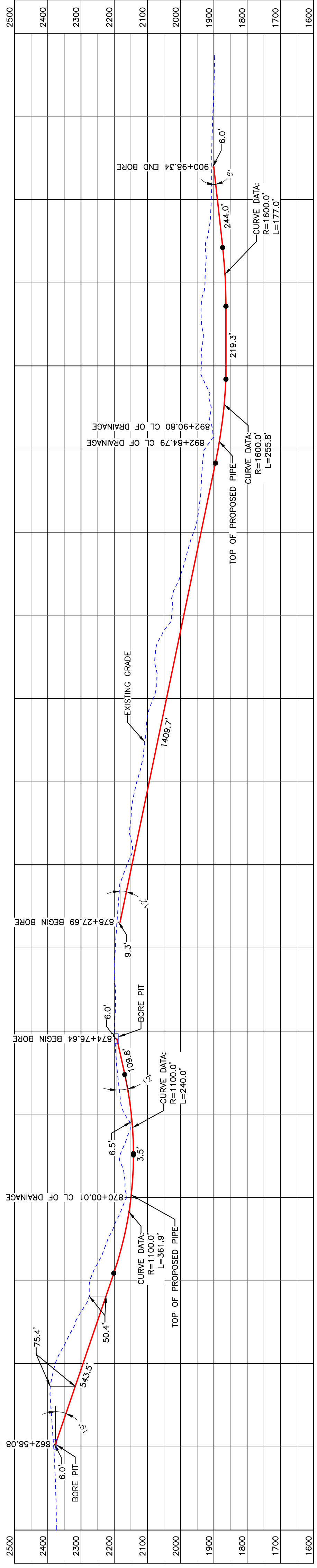
DUNN COUNTY
NW1/4, SEC. 15,
T148N, R96W

DUNN COUNTY
SW1/4, SEC. 15,
T148N, R96W

DUNN COUNTY
SE1/4, SEC. 16,
T148N, R96W



PRELIMINARY



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	875+42.32	47°38'30.12" N	102°54'18.60" W
END BORE	863+23.76	47°38'40.68" N	102°54'10.08" W

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	878+27.69	47°38'27.49" N	102°54'21.94" W
END BORE	900+98.34	47°38'10.48" N	102°54'43.54" W

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	901+79.28	47°38'10.48" N	102°54'43.54" W
END BORE	908+30.56	47°38'10.48" N	102°54'43.54" W


TOTAL HORIZONTAL DISTANCE = 1218.56 FT.
TOTAL BORE LENGTH = 1258.7 FT.

TOTAL HORIZONTAL DISTANCE = 2270.64 FT.
TOTAL BORE LENGTH = 2305.8 FT.

LEGEND	MK.NO.	QTY.	DESCRIPTION
PROPERTY LINE			
SECTION LINE			
EASEMENT LINE			
PIPELINE CENTERLINE			
WATER LINE			
FOREIGN PIPELINE			
EXISTING ROAD			
UNDERGROUND COM. LINE			
MARKER POST			
AVOIDANCE AREA			
WETLAND			
EASEMENT			
TEST LEAD			
VALVE SETTING			
EROSION/SEDIMENT CONTROL BMP			
MARKER POST			

REFERENCE DRAWINGS	DWG. NO.	DESCRIPTION

REVISIONS	NO.	DATE	DESCRIPTION



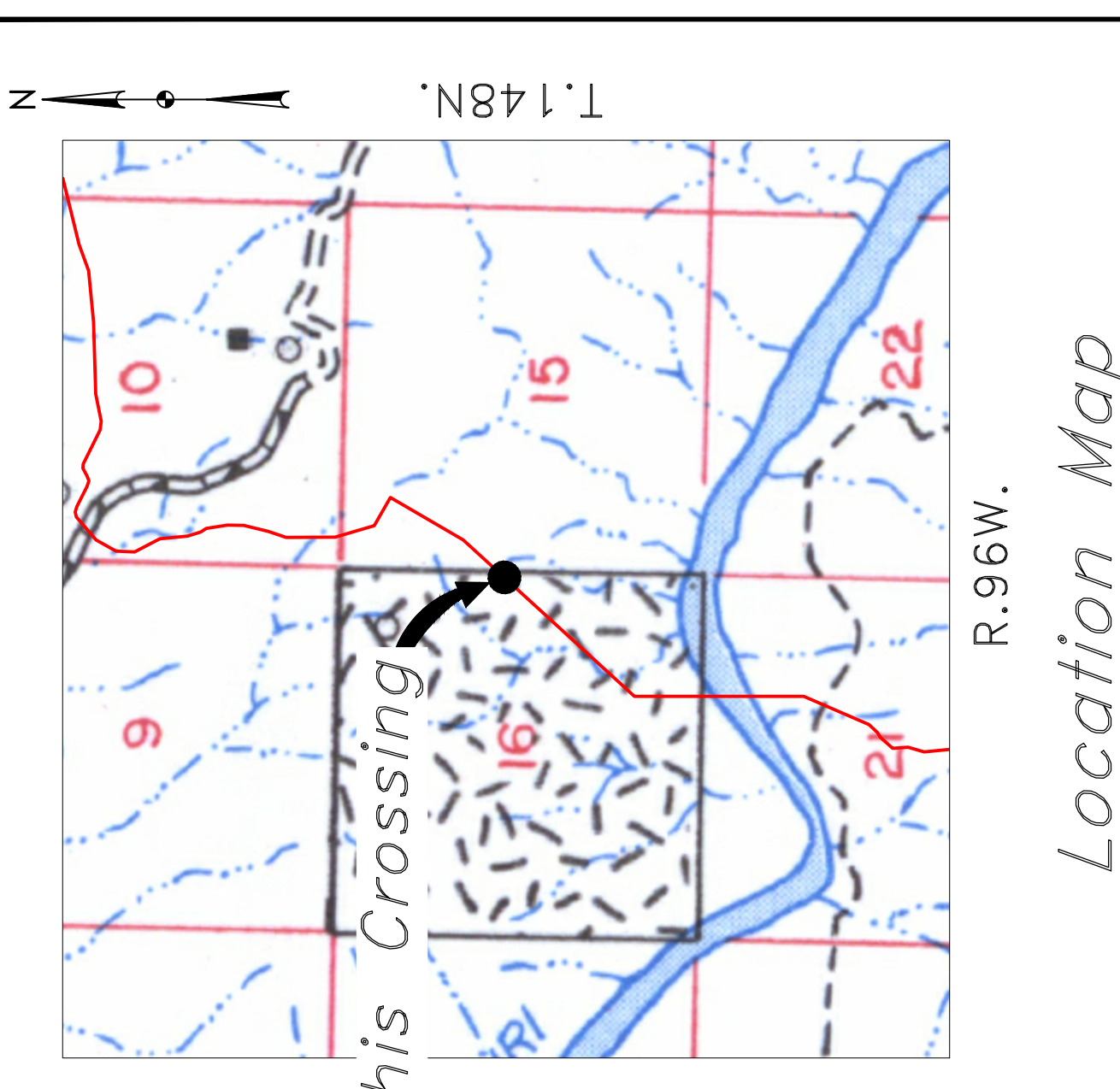
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORES #33 & #34

BAKKEN OIL EXPRESS PIPELINE



KLJ

585 Coleman Street
Bismarck, ND 58503



PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T., API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

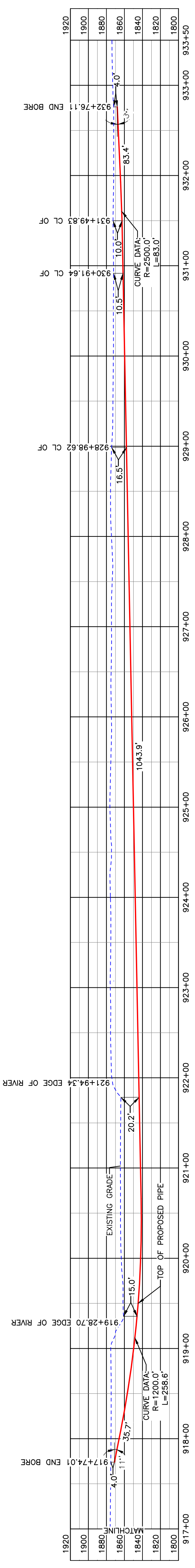
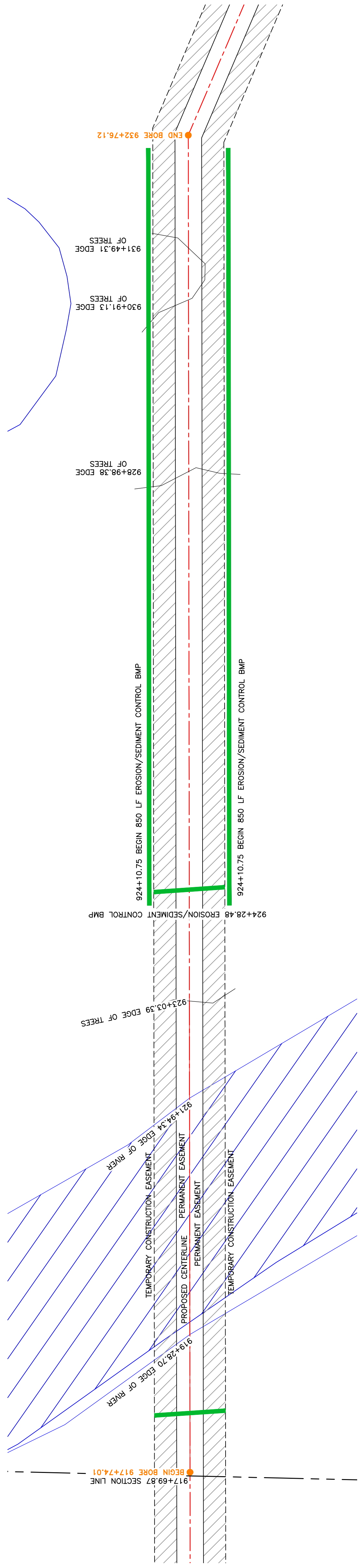
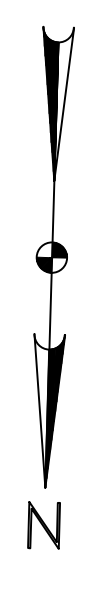
LEGEND

— PROPOSED PIPE

scale
1" = 200'
100' 0 100' 200'
feet

DUNN COUNTY
NE1/4, SEC. 21,
T148N, R96W

BOE PIPELINE PHASE II
LITTLE MISSOURI RIVER CROSSING BORE #35
DUNN COUNTY, NORTH DAKOTA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	917+74.01	47°37'55.70" N	102°54'50.09" W
END BORE	923+07.36	47°37'50.44" N	102°54'49.85" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 1502.12 FT.
TOTAL BORE LENGTH = 1504.6 FT.

LEGEND

— x —	EXISTING FENCE	▨	AVOIDANCE AREA
— F0 —	FIBER OPTIC COM. LINE	▨	RAILROAD
— E0 —	EASEMENT CENTERLINE	▨	OVERHEAD ELECTRIC
— W —	WATER LINE	▨	UTILITY POLE
—	FOREIGN PIPELINE	▨	PROPOSED BORE
—	EXISTING ROAD	▨	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	▨	MARKER POST

MATERIAL SUMMARY

DWG. NO.	DESCRIPTION	MK. NO.	QTY.
	16" OD, 0.344" W.T. API 5L X70, FBE, ARO	1505	2

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

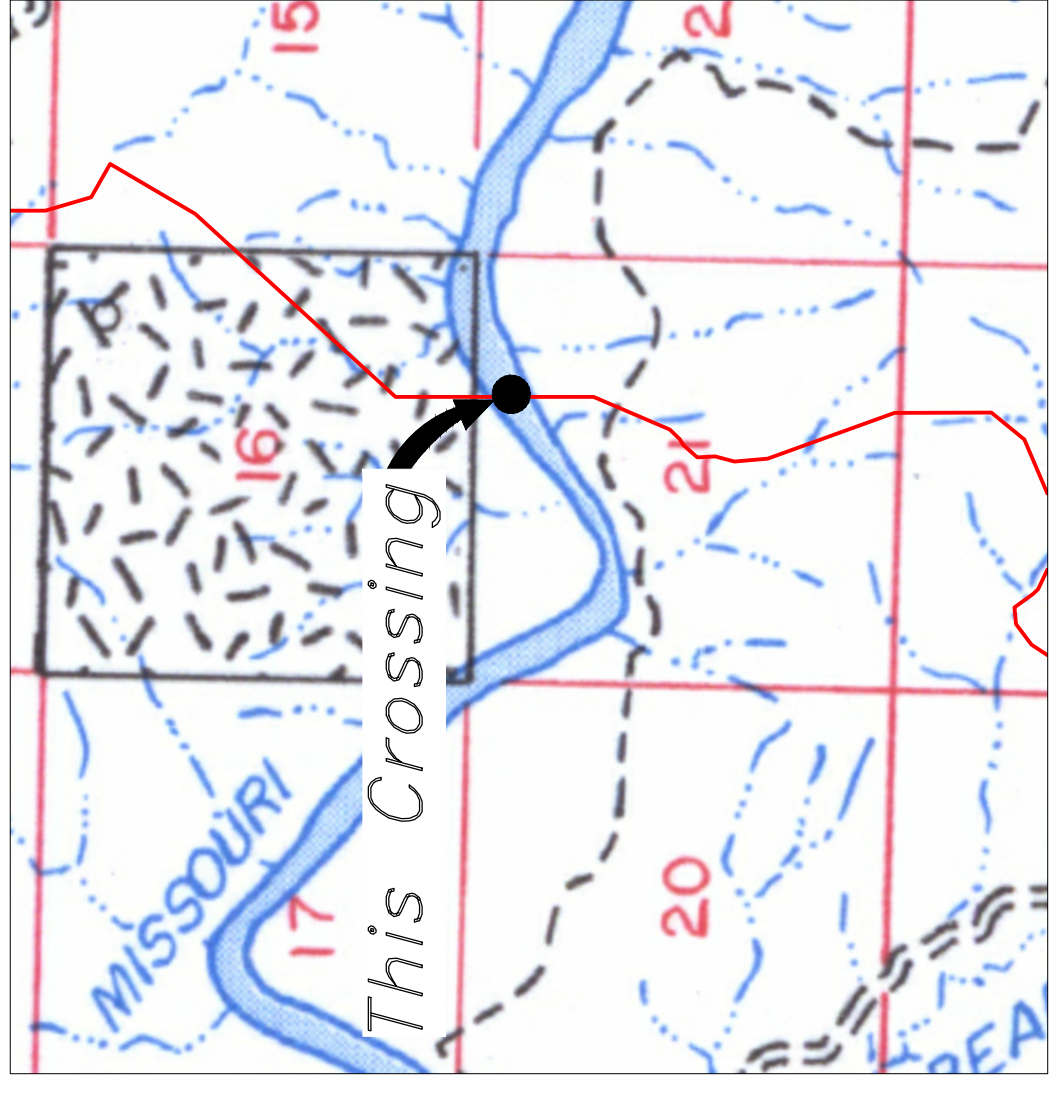
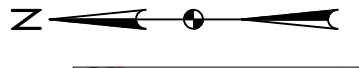
REVISIONS

NO.	DATE	DESCRIPTION

BOE
BOE PIPELINE PHASE II
LITTLE MISSOURI RIVER CROSSING BORE #35

SCALE: 1" = 70'
DRAWN BY: ROMANN
DATE: 5/10/2016
CHECKED BY:
APPROVED BY:
KLJ JOB NUMBER: 1713271
REGION: SHEET: 85

BAKKEN OIL EXPRESS PIPELINE



Location Map

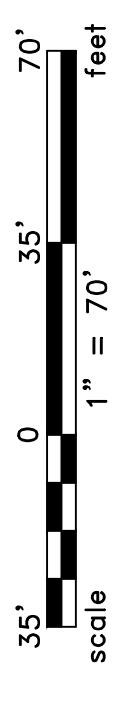


Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

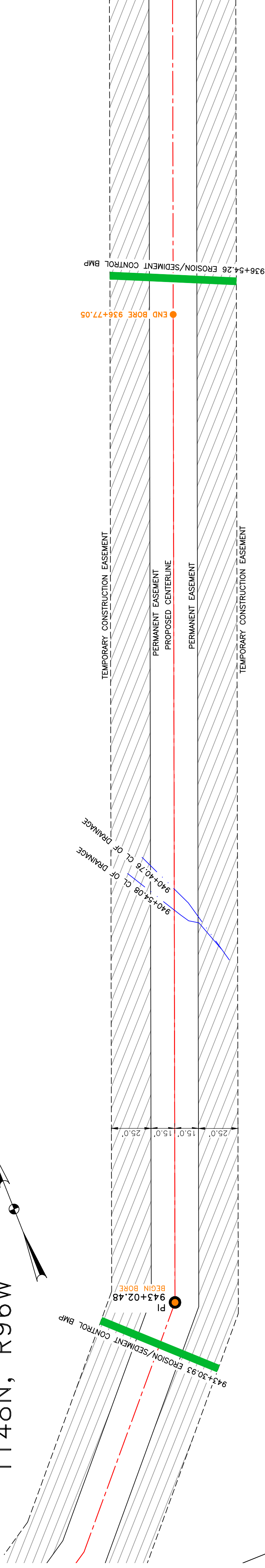
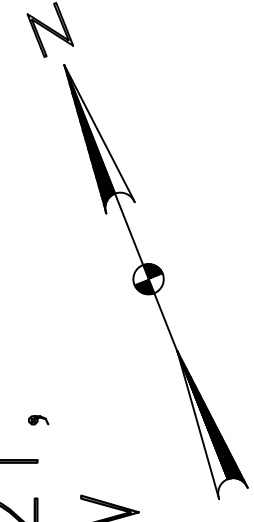


KLJ
4585 Coleman Street
Bismarck, ND 58503

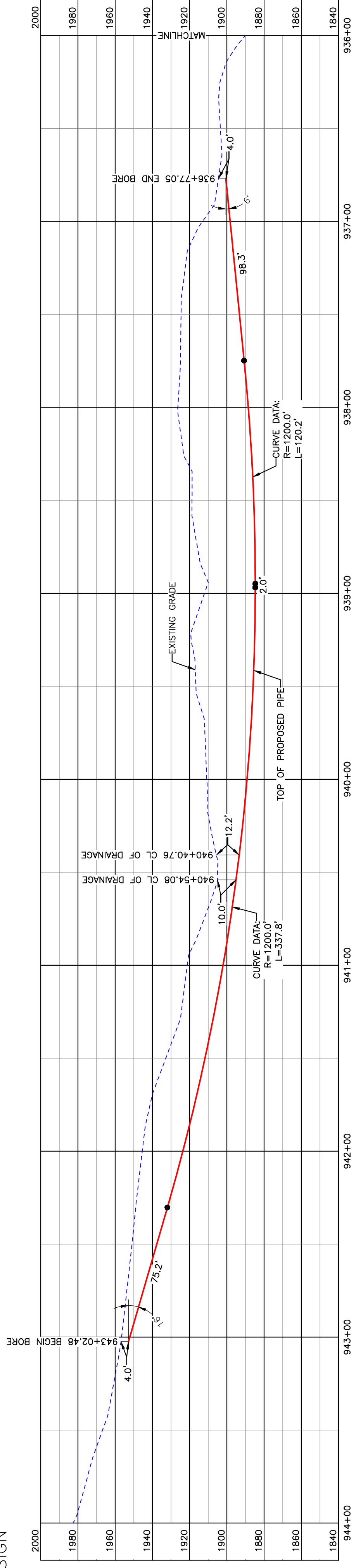
SECTION 21, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA

BOE PIPELINE PHASE II DRAINAGE CROSSING BORE #36 DUNN COUNTY, NORTH DAKOTA

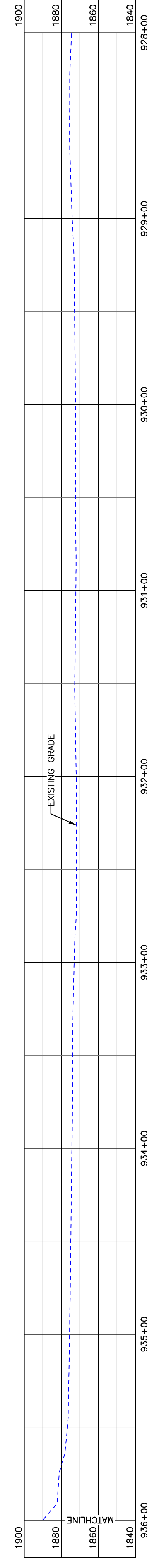
DUNN COUNTY
NE1/4, SEC. 21,
T148N, R96W



BORE DESIGN



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	936+77.05	47°37'37.20" N	102°54'51.55" W
END BORE	943+02.48	47°37'31.46" N	102°54'54.89" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 625.43 FT.

TOTAL BORE LENGTH = 633.5 FT.

LEGEND

— x —	EXISTING FENCE	—	AVOIDANCE AREA
— F0 —	FIBER OPTIC COM. LINE	—	WETLAND
—	RAILROAD	—	EASEMENT
—	PIPELINE CENTERLINE	—	TEST LEAD
— W —	WATER LINE	—	VALVE SETTING
—	UTILITY POLE	—	EROSION/SEDIMENT CONTROL BMP
—	FOREIGN PIPELINE	—	MARKER POST
—	EXISTING ROAD	—	
—	UNDERGROUND COM. LINE	—	

MATERIAL SUMMARY

DWG. NO.	DESCRIPTION	MK. NO.	QTY.
	16" OD, 0.344" W.T. API 5L X70, FBE, ARO	2	634'

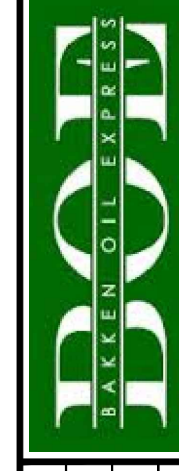
REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION

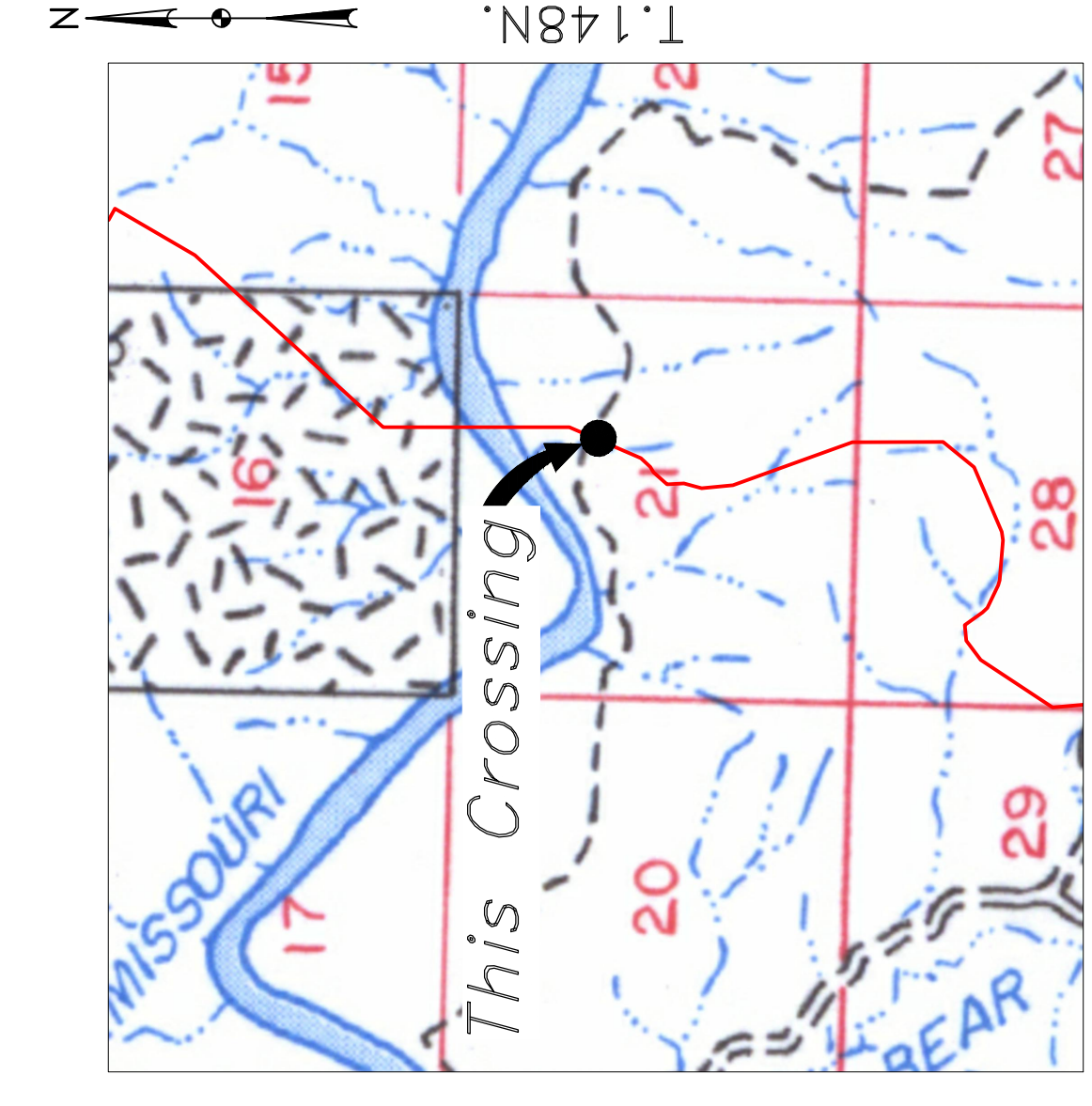
REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 40'	SHEET: 86
DRAWN BY: ROMANN	
DATE: 5/10/2016	
CHECKED BY: [Signature]	
APPROVED BY: [Signature]	
KUJ JOB NUMBER: 1713271	
REGION: [Blank]	



BAKKEN OIL EXPRESS
BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #36



R.96W.

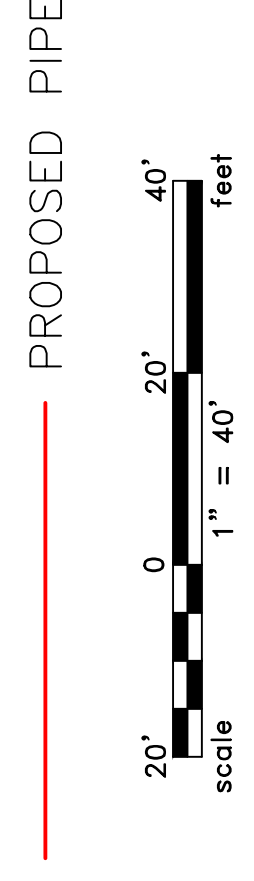
Location Map

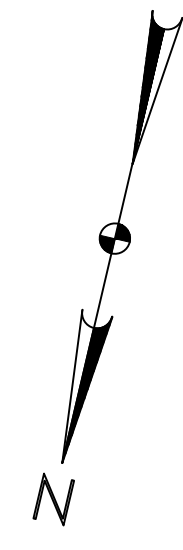


Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

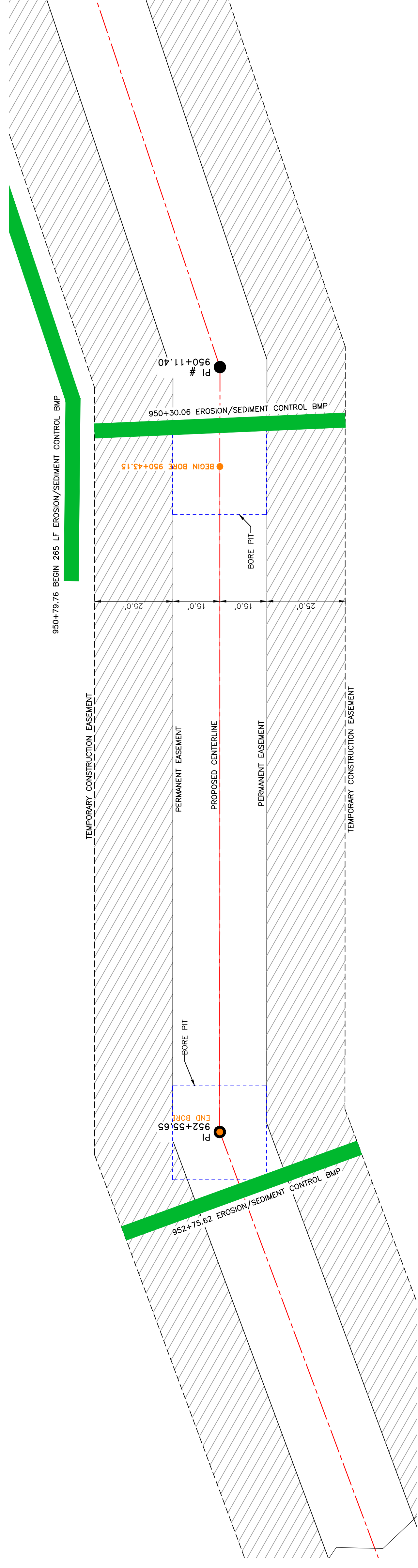
LEGEND





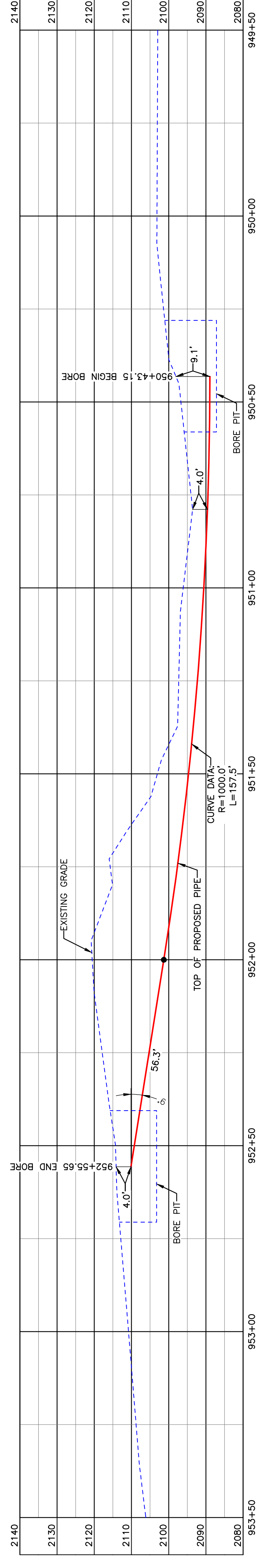
DUNN COUNTY
SW1/4, SEC. 21,
T148N, R96W

BOE PIPELINE PHASE II
TERRAIN BORE #37
DUNN COUNTY, NORTH DAKOTA



PULLBACK AREA

BORE DESIGN



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	950+43.15	47°37'25.51" N	102°54'59.58" W
END BORE	952+55.65	47°37'23.47" N	102°55'00.30" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 212.50 FT.
TOTAL BORE LENGTH = 213.8 FT.

LEGEND

—x—x—	EXISTING FENCE	—x—x—	AVOIDANCE AREA
—FO—	FIBER OPTIC COM. LINE	—w—w—	WETLAND
—R—R—	RAILROAD	—E—E—	EASEMENT
—E—E—	OVERHEAD ELECTRIC	—T—T—	TEST LEAD
—U—U—	UTILITY POLE	—V—V—	VALVE SETTING
—W—W—	WATER LINE	—C—C—	CONSTRUCTION CONTROL BMP
—P—P—	PROPOSED PIPE	—M—M—	MARKER POST
—F—F—	FOREIGN PIPELINE		
—G—G—	EXISTING ROAD		
—U—U—	UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	214'	16" OD, 0.344" W.T. API 5L X70, FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

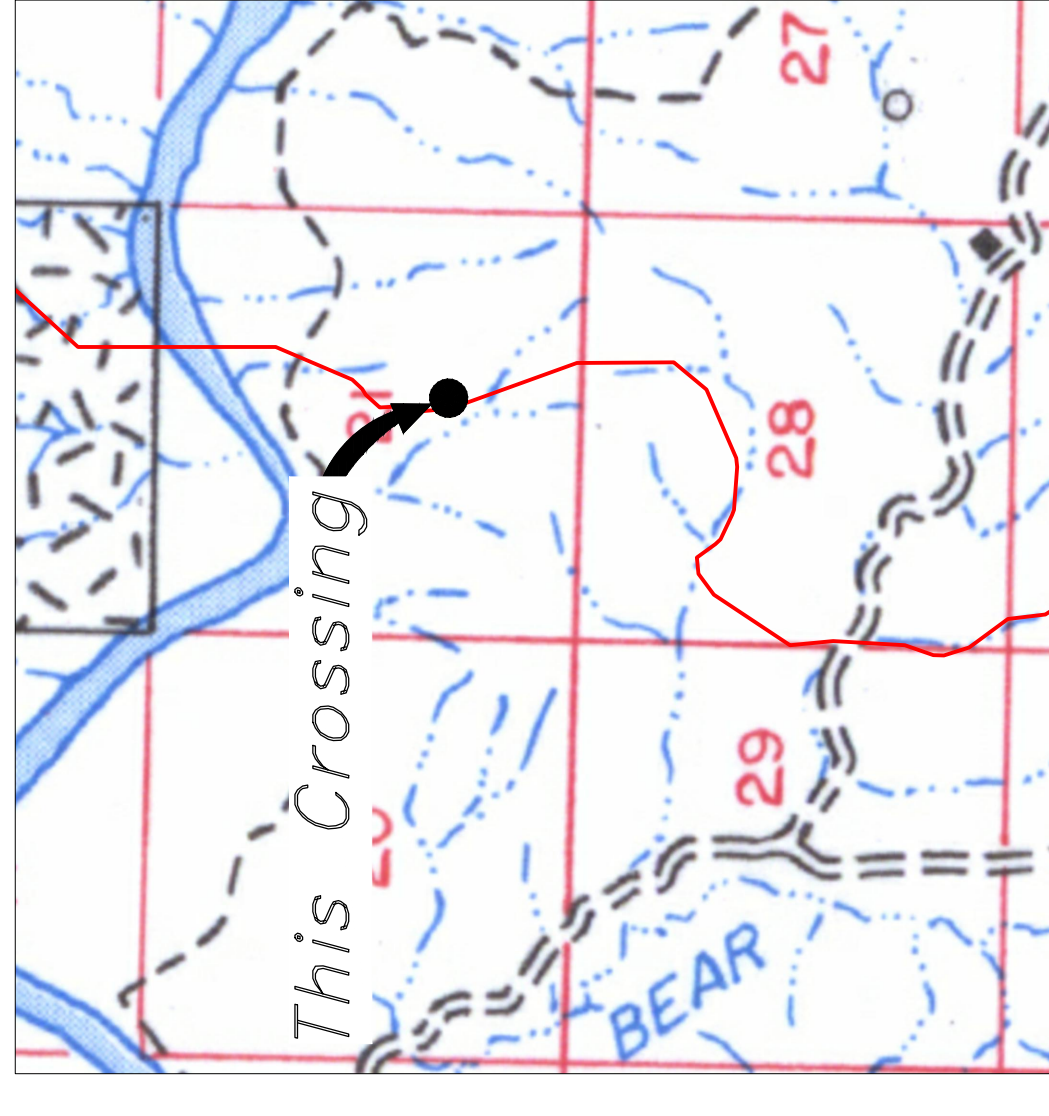
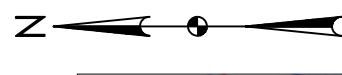
REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
TERRAIN BORE #37

BOE PIPELINE PHASE II
TERRAIN BORE #37

BAKKEN OIL EXPRESS PIPELINE



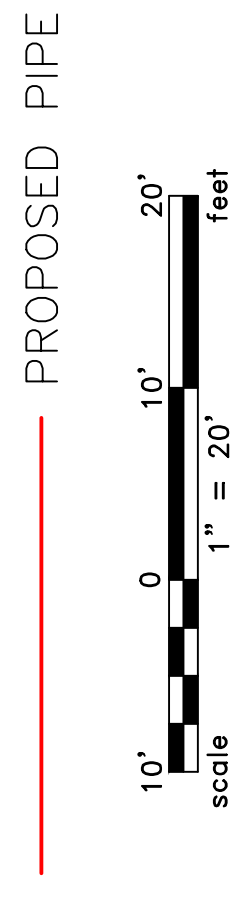
Location Map

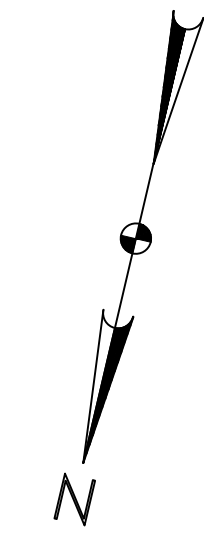


Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

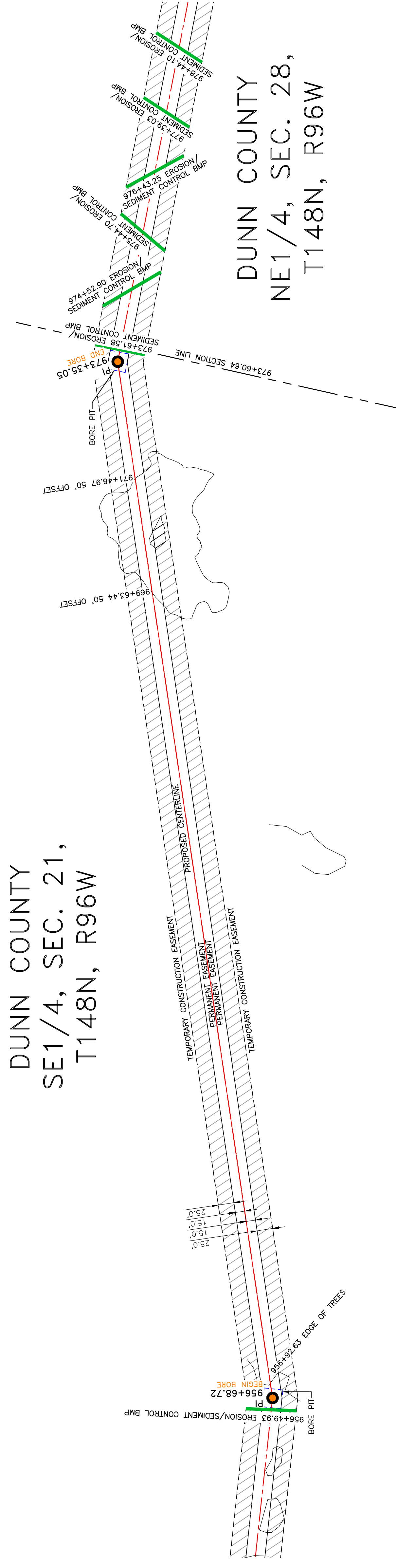
LEGEND



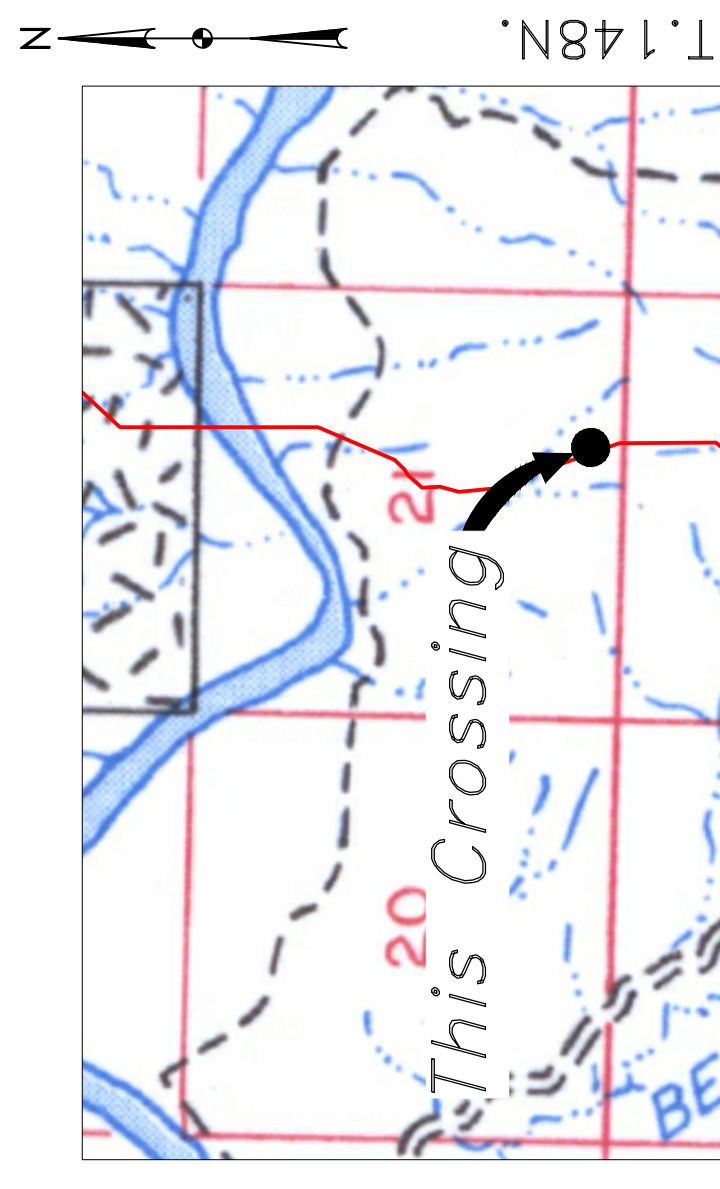


**BOE PIPELINE PHASE II
TERRAIN & AVOIDANCE AREA CROSSING BORE #38**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 21,
T148N, R96W



DUNN COUNTY
NE1/4, SEC. 28,
T148N, R96W



Location Map



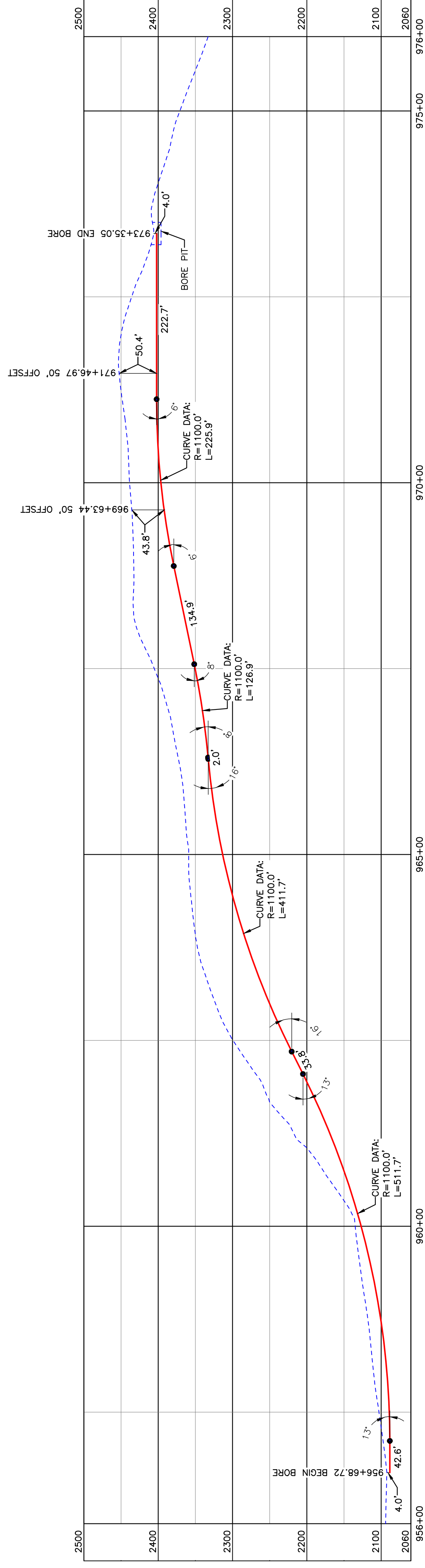
Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

scale
50' 0 50' 100'
1" = 100'



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	956+68.72	47°37'19.42" N	102°54'59.58" W
END BORE	973+35.05	47°37'04.13" N	102°54'50.63" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 1666.33 FT.
TOTAL BORE LENGTH = 1712.2 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	EASEMENT LINE	—	RAILROAD
—	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC
—	WATER LINE	—	UTILITY POLE
—	FOREIGN PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	1712'	16" OD, 0.344" W.T. API 5L X70, FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
TERRAIN & AVOIDANCE AREA CROSSING BORE #38

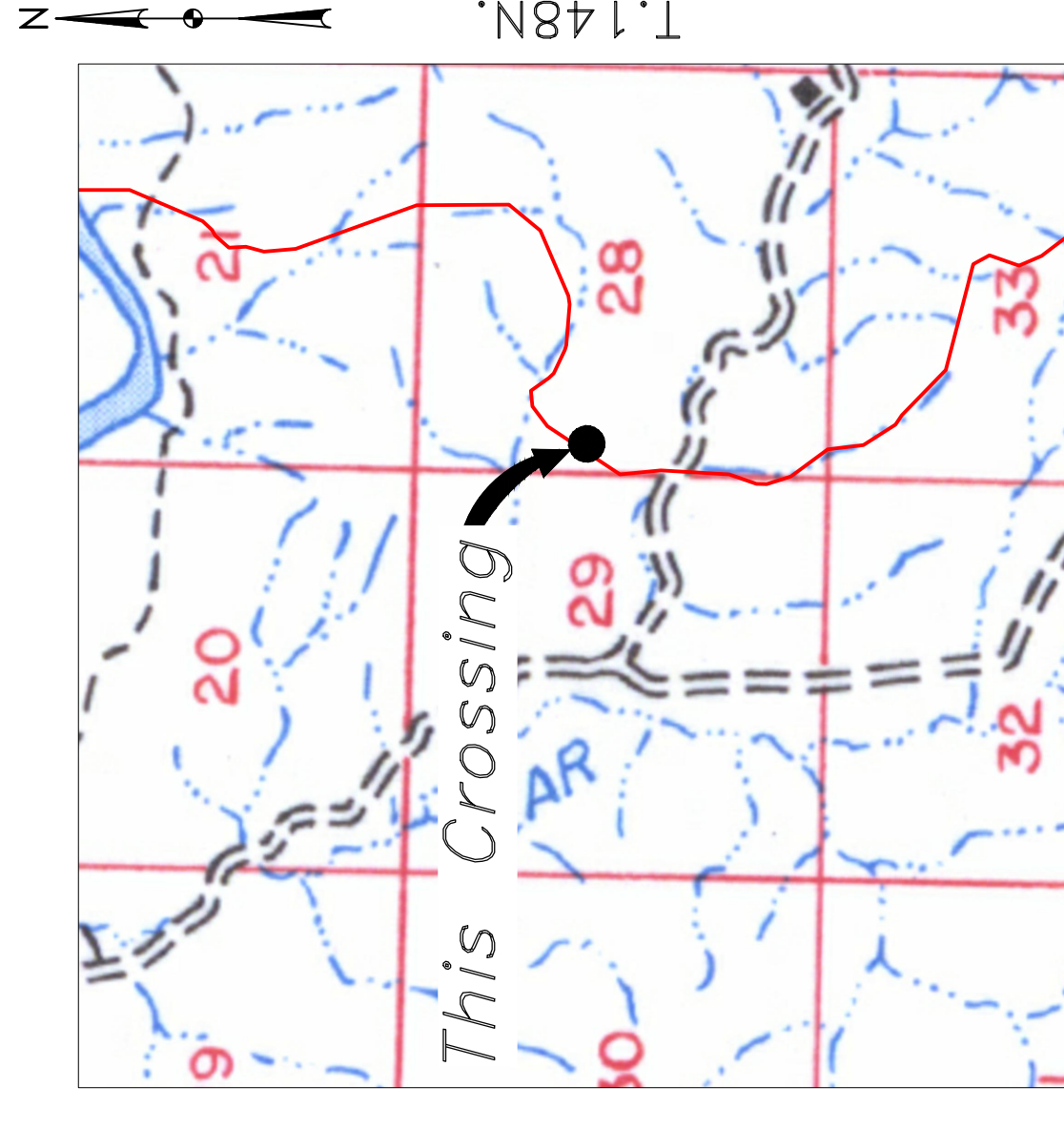
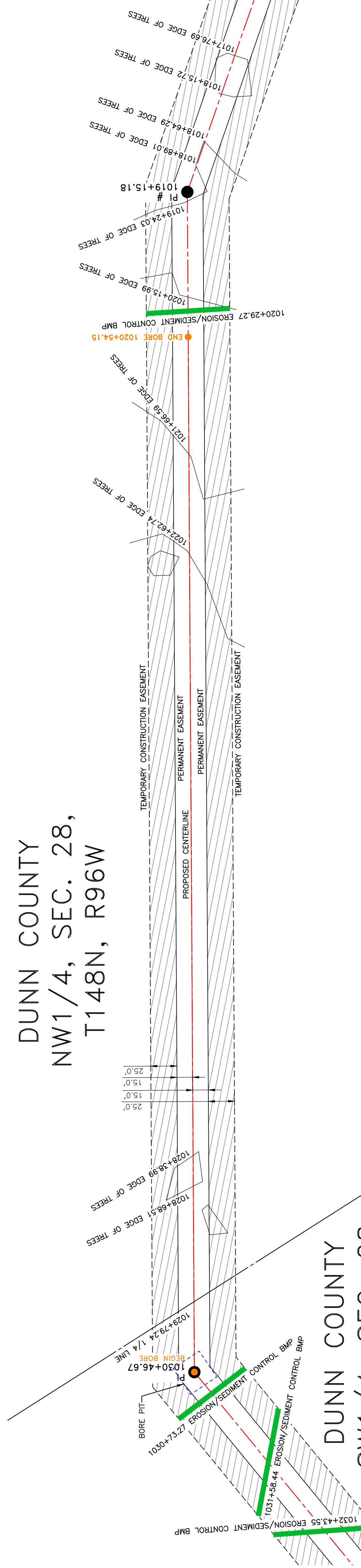
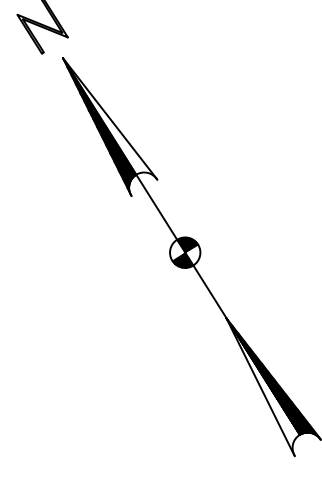
SECTIONS 21 & 28, T.148N., R.96W., MCKENZIE COUNTY, NORTH DAKOTA

4585 Coleman Street
Bismarck, ND 58503

**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #39**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 28,
T148N, R96W

DUNN COUNTY
SW1/4, SEC. 28,
T148N, R96W



R.96W.

Location Map



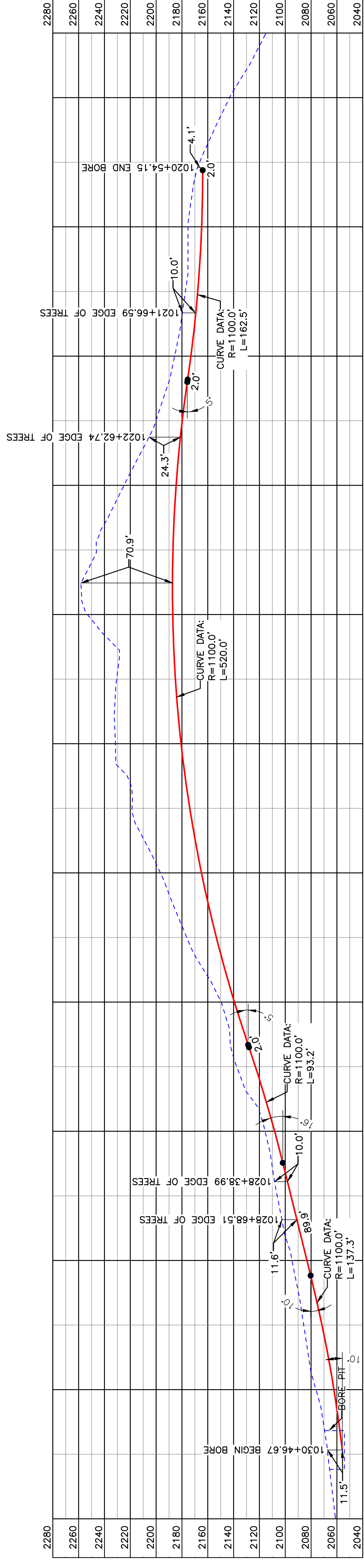
Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

scale
0 30' 60'
1" = 60'
feet



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1030+46.67	47°36'37.09" N	102°55'40.32" W
END BORE	1020+54.15	47°36'45.41" N	102°55'32.69" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 992.52 FT.
TOTAL BORE LENGTH = 1008.90 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE	—	FIBER OPTIC COM. LINE
---	EASEMENT LINE	—	RAILROAD
---	PIPELINE CENTERLINE	—	OVERHEAD ELECTRIC
---	FOREIGN PIPELINE	—	UTILITY POLE
---	UNDERGROUND COM. LINE	—	PROPOSED BORE
---		—	EROSION/SEDIMENT CONTROL BMP
---		—	MARKER POST
---		—	AVOIDANCE AREA
---		—	WETLAND
---		—	EASEMENT
---		—	TEST LEAD
---		—	VALVE SETTING

MATERIAL SUMMARY

MK.NO.	QTY.	DESCRIPTION
2	1009'	16" OD, 0.344" W.T. API 5L X70, FBE, ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
BAKKEN OIL EXPRESS PIPELINE

BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #39

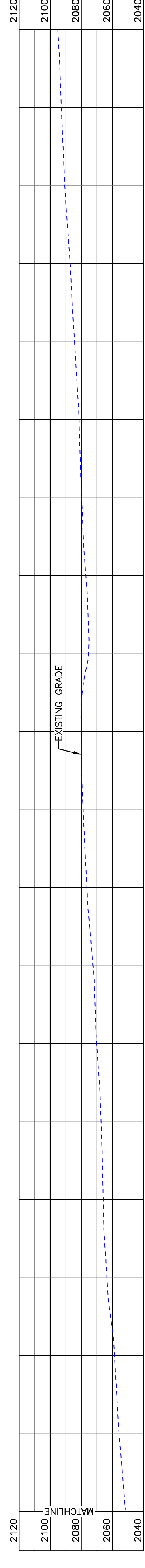
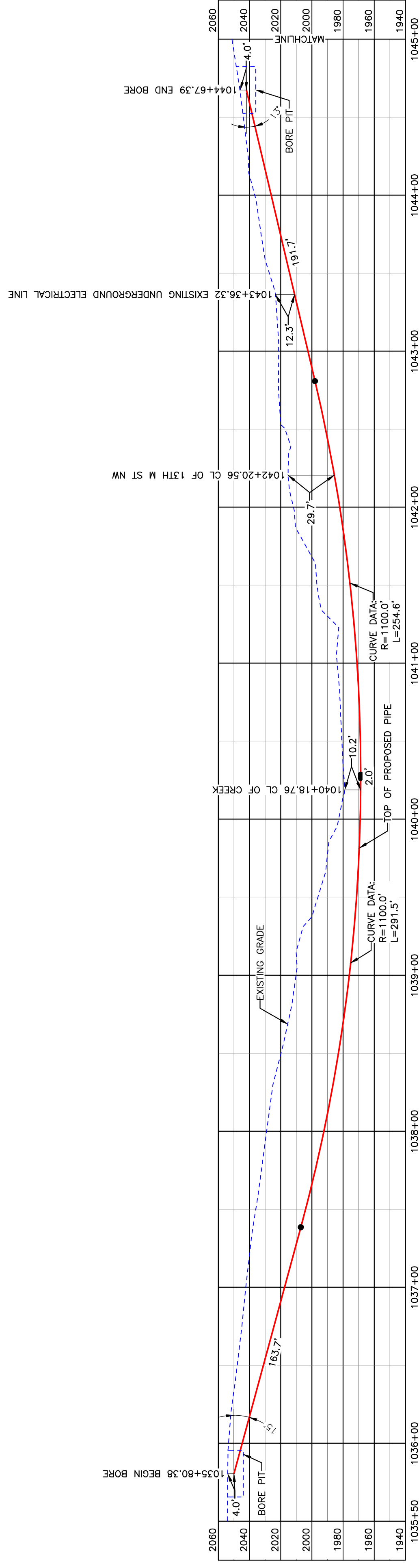
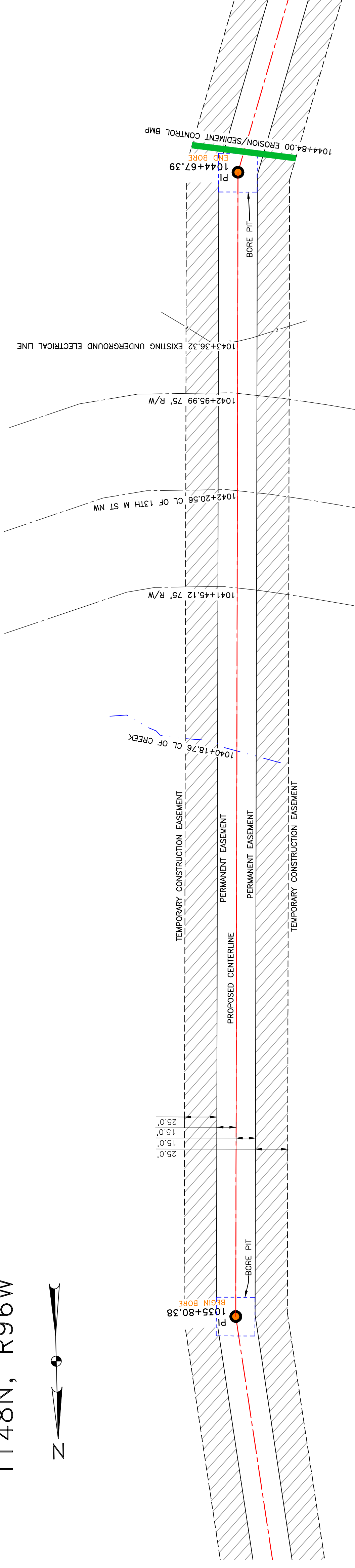
SECTION 28, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
SW1/4, SEC. 28,
T148N, R96W



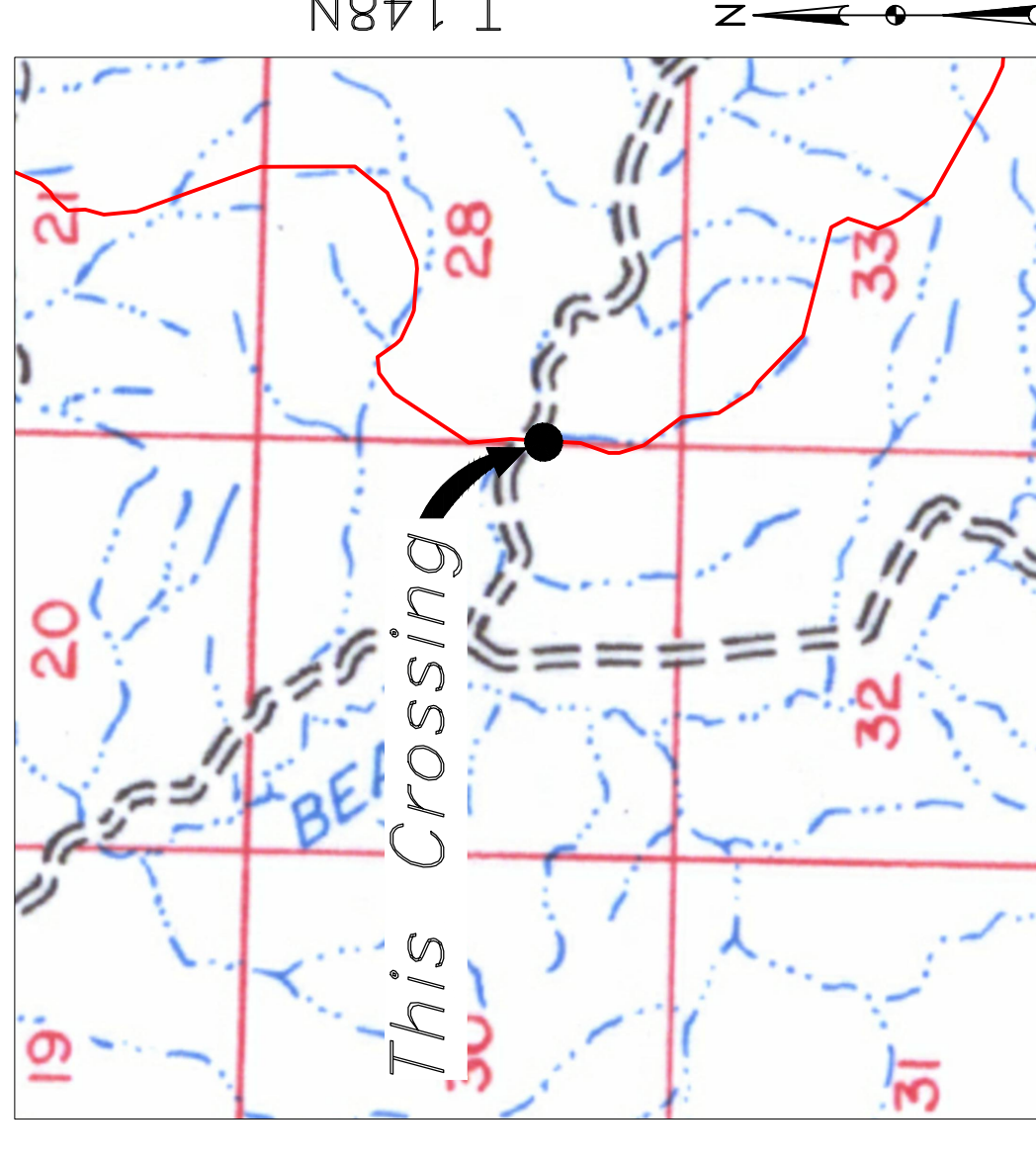
**BOE PIPELINE PHASE II
13TH M ST NW & CREEK CROSSING BORE #40**
DUNN COUNTY, NORTH DAKOTA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1035+80.38	47°36'31.86" N	102°55'39.35" W
END BORE	1044+67.39	47°36'23.11" N	102°55'39.70" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 887.01 FT.
TOTAL BORE LENGTH = 902.8 FT.



Location Map



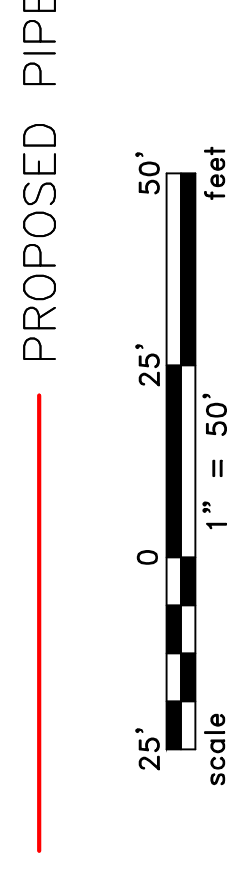
Aerial Map

NOTE:

1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	WATER LINE	—	UTILITY POLE
—	EXISTING PIPELINE	—	PROPOSED BORE
—	UNDERGROUND COM. LINE	—	PROPOSED ROAD
—		—	EROSION/SEDIMENT CONTROL BMP
—		—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	903'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

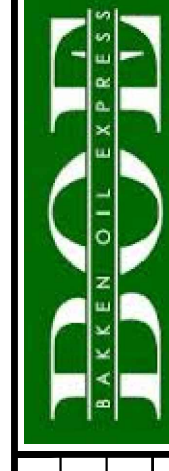
DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 50'

DRAWN BY:	A. ROMANN
DATE:	5/10/16
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	KLJ 1713271
REVISION:	
SHEET:	30



BAKKEN OIL EXPRESS
EXPRESS PIPELINE
BOE PIPELINE PHASE II
13TH M ST NW CROSSING BORE #40
SECTION 28, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA

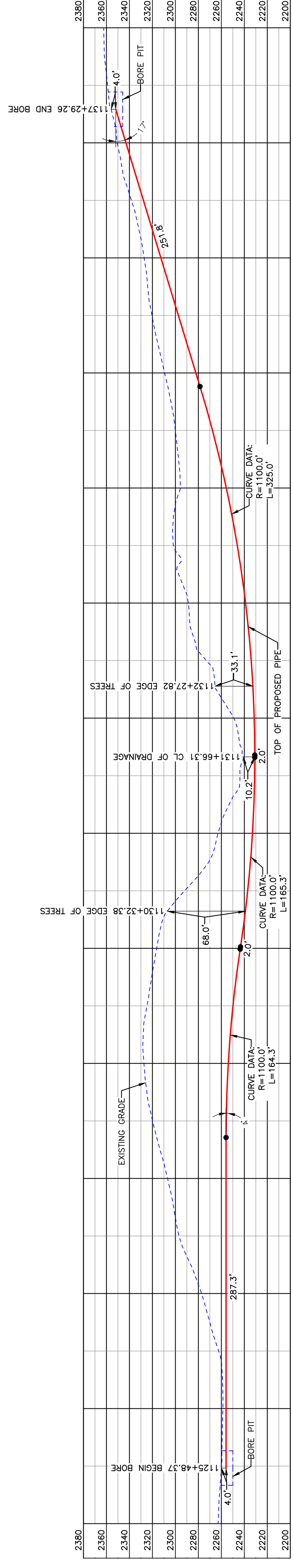
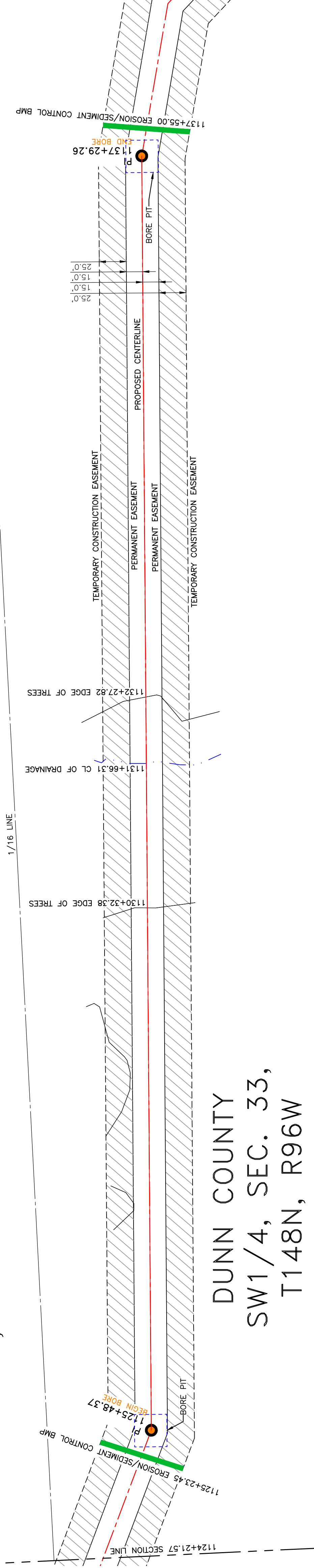


1555 Columbia Street
Bismarck, ND 58503
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BOE PIPELINE PHASE II DRAINAGE CROSSING BORE #41 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY NW1/4, SEC. 33, T148N, R96W

DUNN COUNTY SW1/4, SEC. 33, T148N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1125+48.37	47°35'31.98" N	102°54'27.88" W
END BORE	1137+29.26	47°35'31.57" N	102°54'10.66" W

LEGEND

---*	PROPERTY LINE	---	EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	GRADE CENTERLINE	-----	PAVED ROAD
---	WATER LINE	---	ELECTRIC
---	EXISTING PIPELINE	---	UTILITY POLE
---	UNDERGROUND COM. LINE	---	PROPOSED BORE
		---	EROSION/SEDIMENT CONTROL BMP
		---	MARKER POST
		---	WETLAND
		---	EASEMENT
		---	LEAS
		---	VALVE SETTING

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	1198'	16" OD, 0.344" W.T. API 5L X70, 14'-16" MIL FBE, 30'-35" MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

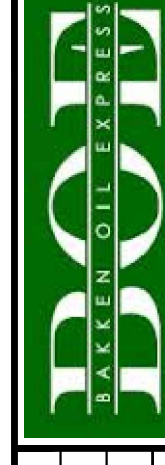
REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 60'

DRAWN BY:	A. ROMANN
DATE:	5/10/16
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	KLJ JUL 17, 2016
REVISION:	
SHEET:	9/1

BOE PIPELINE PHASE II DRAINAGE CROSSING BORE #41 SECTION 11, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA



BAKKEN OIL EXPRESS PIPELINE



1555 Columbia Street
Bismarck, ND 58503

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Location Map



Aerial Map

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 MILs FBE; 30-35 MILs ARO

LEGEND

--- PROPOSED PIPE



TOTAL HORIZONTAL DISTANCE = 1180.89 FT.

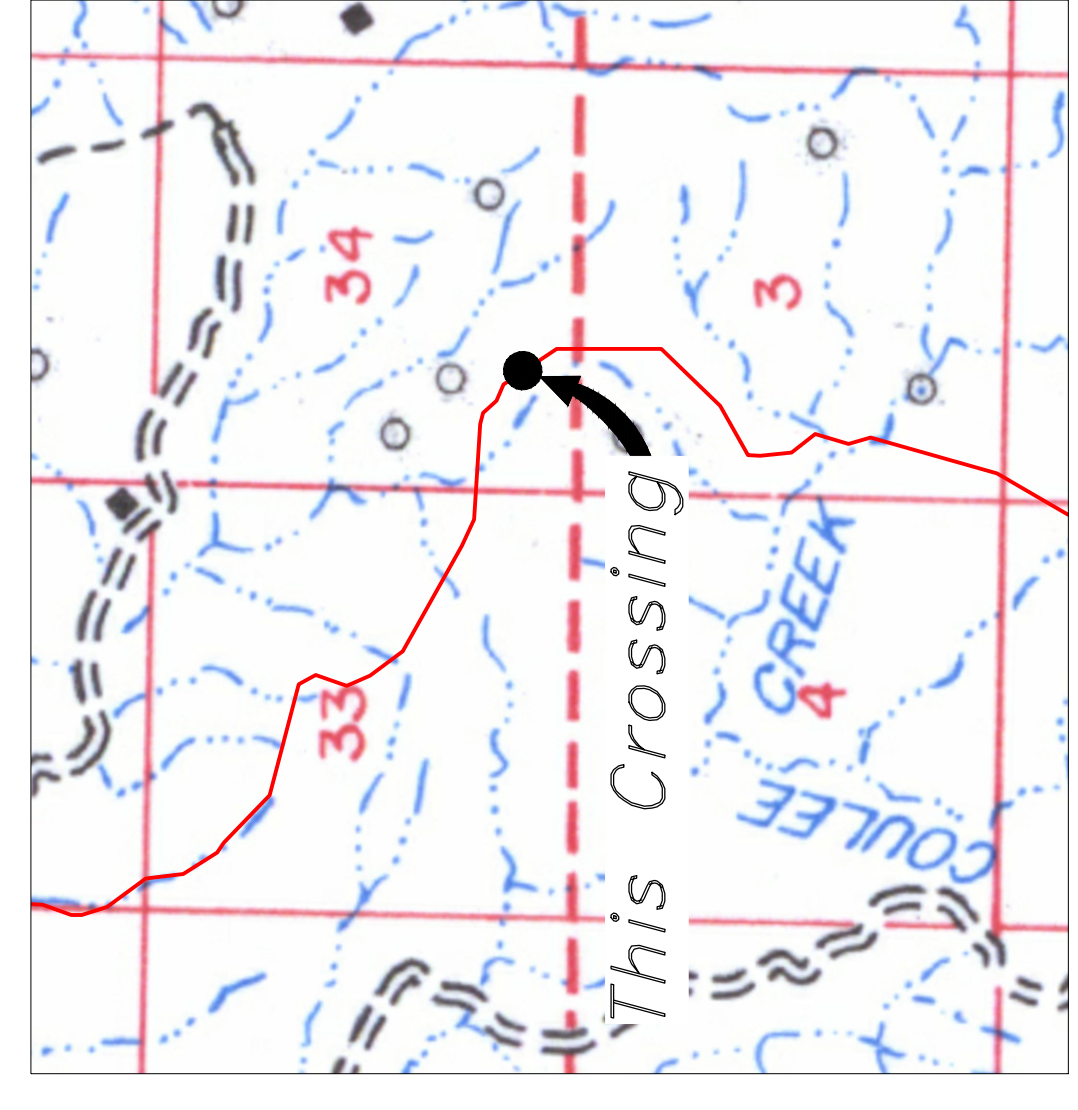
TOTAL BORE LENGTH = 1197.70 FT.

PRELIMINARY

DUNN COUNTY
SW1/4, SEC. 34,
T148N, R96W

BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #42
DUNN COUNTY, NORTH DAKOTA

T.147N. | T.148N. | N



R.96W.

Location Map



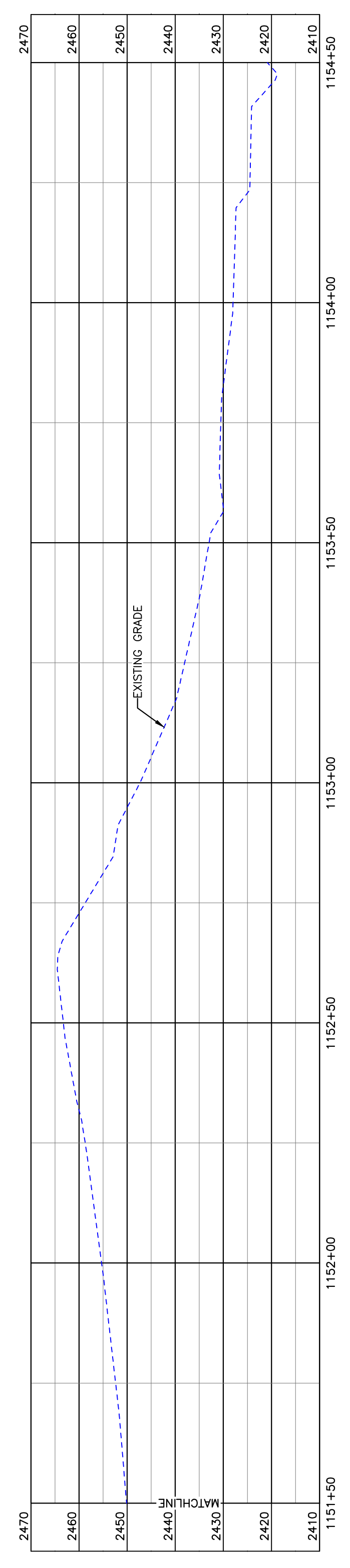
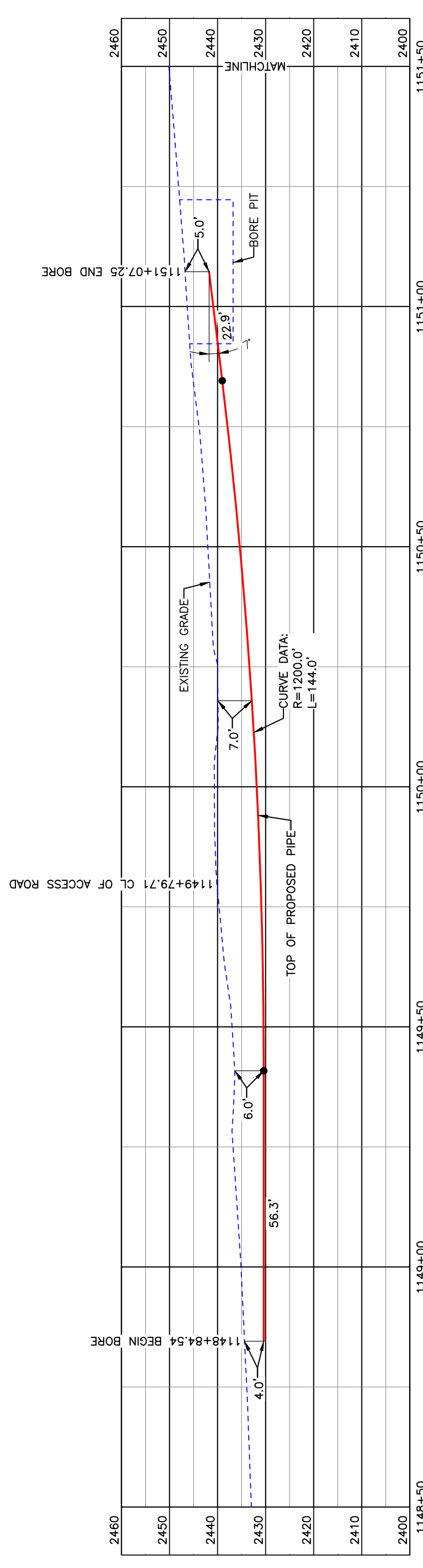
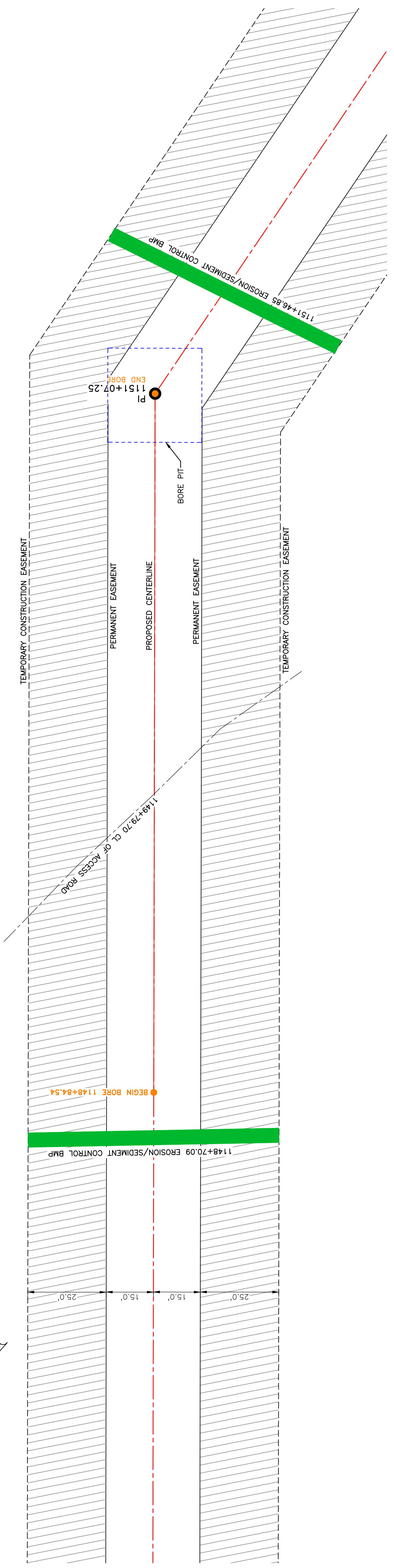
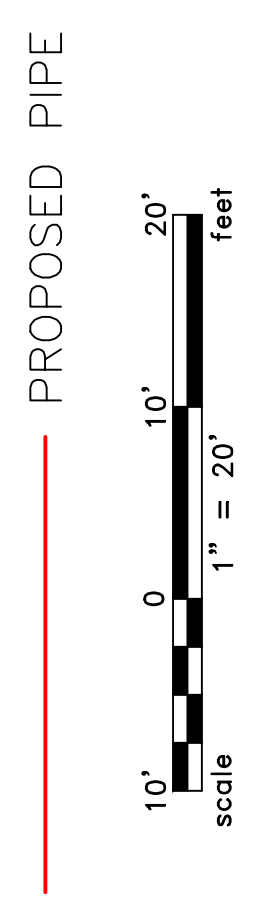
Aerial Map

NOTE:

- 1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1148+84.54	47°35'24.33" N	102°53'58.53" W
END BORE	1151+07.25	47°35'22.54" N	102°53'56.64" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 222.71 FT.
TOTAL BORE LENGTH = 223.2 FT.

LEGEND

---	PROPERTY LINE	-x-x-	EXISTING FENCE
---	SECTION LINE	-F0-	FIBER OPTIC COM. LINE
---	EASEMENT LINE	---	RAILROAD
---	PIPELINE CENTERLINE	-E0-	OVERHEAD ELECTRIC
---	WATER LINE	---	UTILITY POLE
---	FOREIGN PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

DWG. NO.	REFERENCE DRAWINGS	NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

SCALE:	1" = 20'
DRAWN BY:	ROMANN
DATE:	5/10/2016
CHECKED BY:	
APPROVED BY:	
KLJ JOB NUMBER:	1713271
REGION:	SHEET: 9/2



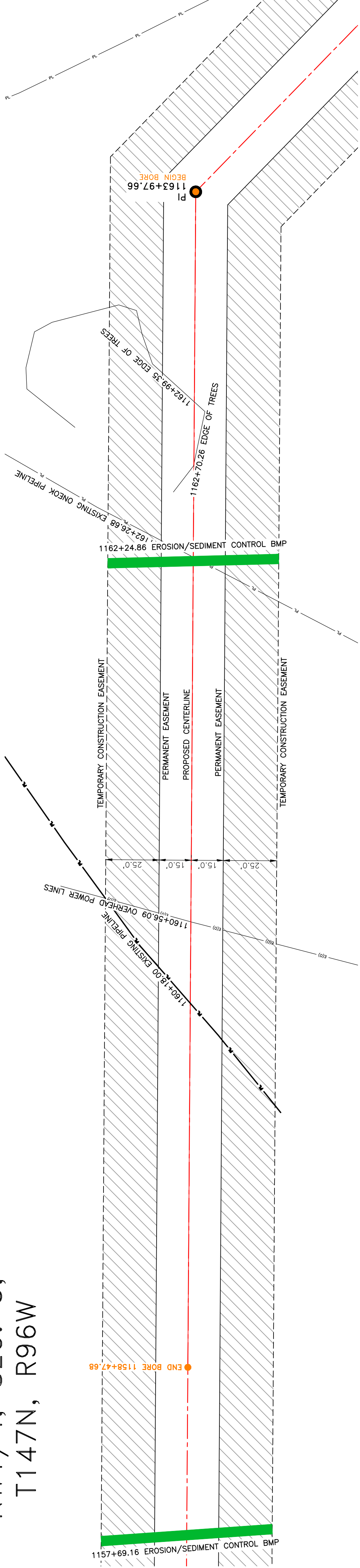
BAKKEN OIL EXPRESS PIPELINE



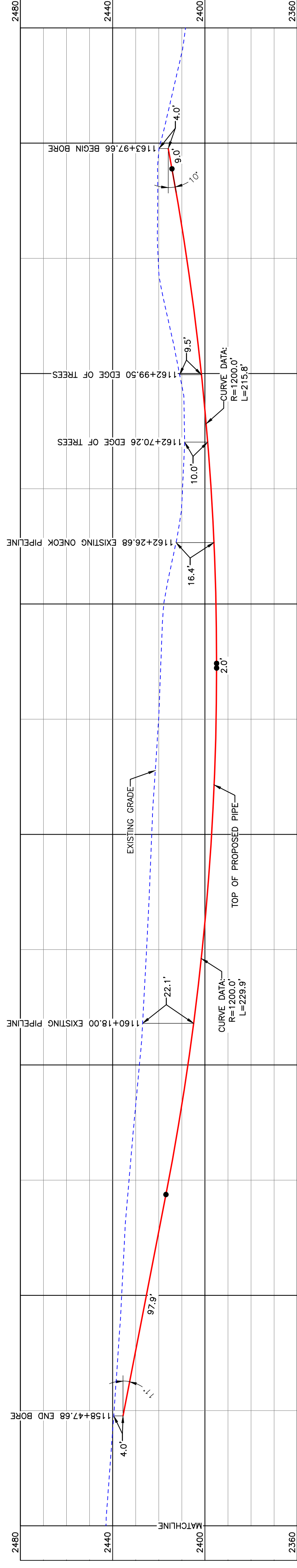
SECTION 34, T.148N., R.96W., DUNN COUNTY, NORTH DAKOTA
4585 Coleman Street
Bismarck, ND 58503

DUNN COUNTY
NW1/4, SEC. 3,
T147N, R96W

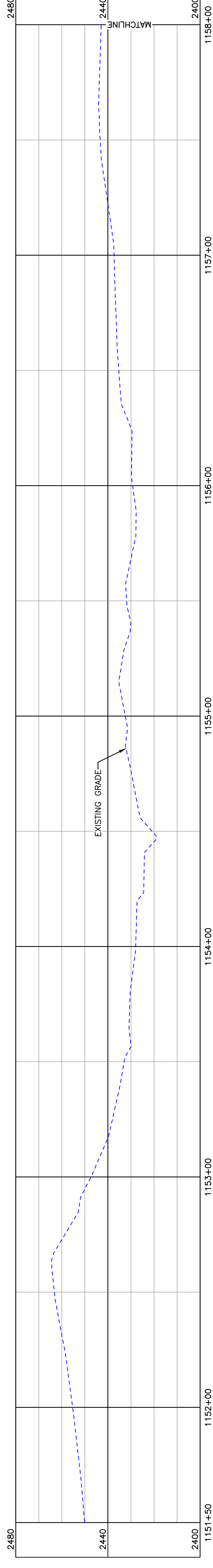
**BOE PIPELINE PHASE II
PIPELINE CROSSING BORE #43**
DUNN COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA



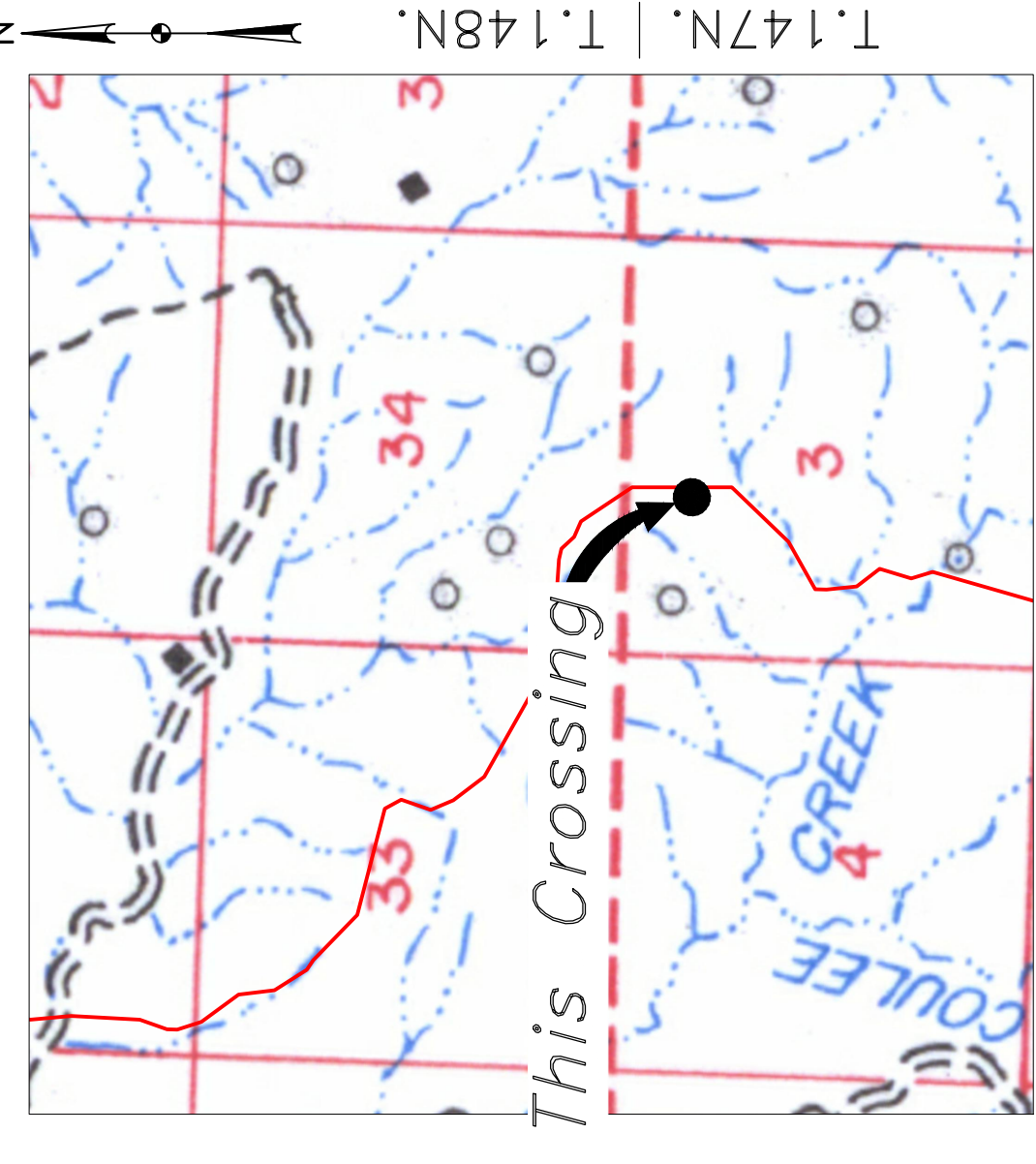
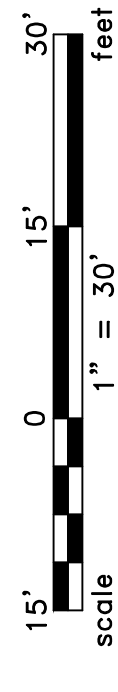
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1163+97.66	47°35'09.81" N	102°53'56.10" W
END BORE	1158+47.68	47°35'15.23" N	102°53'56.33" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 549.98 FT.
TOTAL BORE LENGTH = 554.6 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND
— PROPOSED PIPE



Location Map



Aerial Map

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	RAILROAD	-----	WETLAND
---	GRAPE CENTERLINE	-----	EASEMENT
---	WATER LINE	-----	UTILITY POLE
---	FOREIGN PIPELINE	-----	PROPOSED BORE
---	EXISTING ROAD	-----	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	-----	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	555'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

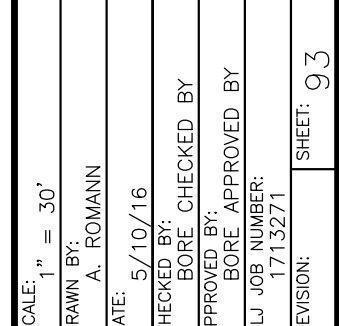
REVISIONS

NO.	DATE	DESCRIPTION

APPROVALS

DRAWN BY: A. ROMANN	DATE: 5/10/16
CHECKED BY:	
APPROVED BY:	
DATE APPROVED:	
REVISION:	

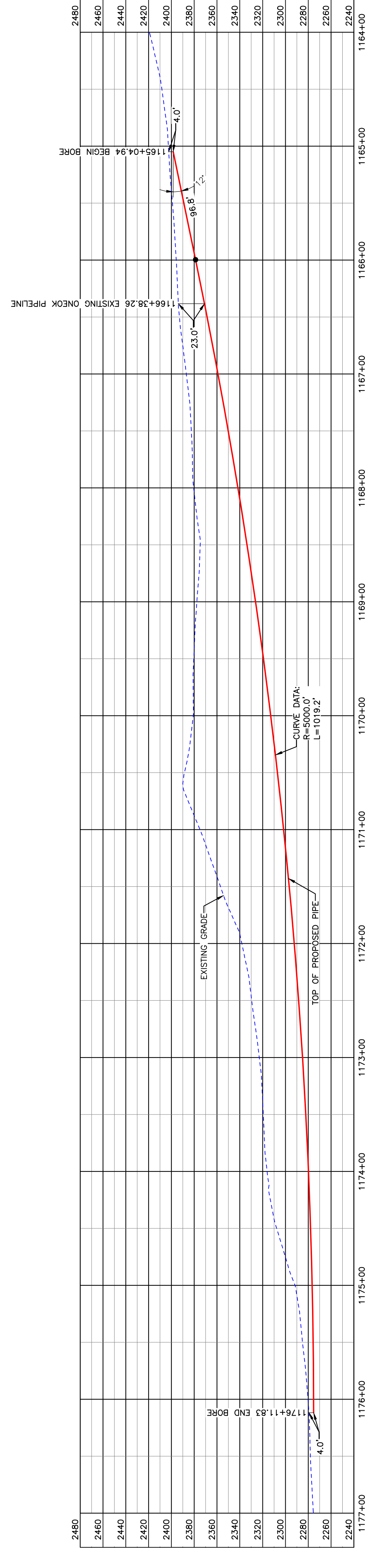
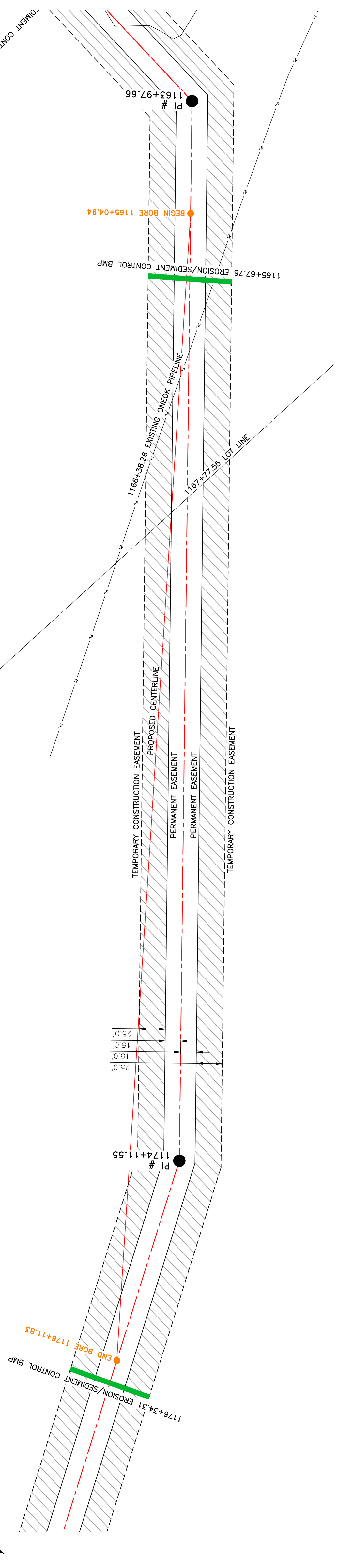
BOE PIPELINE PHASE II
PIPELINE CROSSING BORE #43
SECTION 3, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA



BAKKEN OIL EXPRESS PIPELINE
1555 Columbia Street
Bismarck, ND 58503
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DUNN COUNTY
NW1/4, SEC. 3,
T147N, R96W

**BOE PIPELINE PHASE II
TERRAIN BORE #44**
DUNN COUNTY, NORTH DAKOTA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1165+04.94	47°35'09.02" N	102°53'57.15" W
END BORE	1176+11.83	47°35'01.37" N	102°54'08.53" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 1106.89 FT.
TOTAL BORE LENGTH = 1116.0 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE		AVOIDANCE AREA
---	ROAD		FIBER OPTIC COM. LINE
---	WATER LINE		WETLAND
---	EXISTING PIPELINE	---	EASEMENT
---	UNDERGROUND COM. LINE	---	UTILITY POLE
---		---	PROPOSED BORE
---		---	EROSION/SEDIMENT CONTROL BMP
---		---	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	1116'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

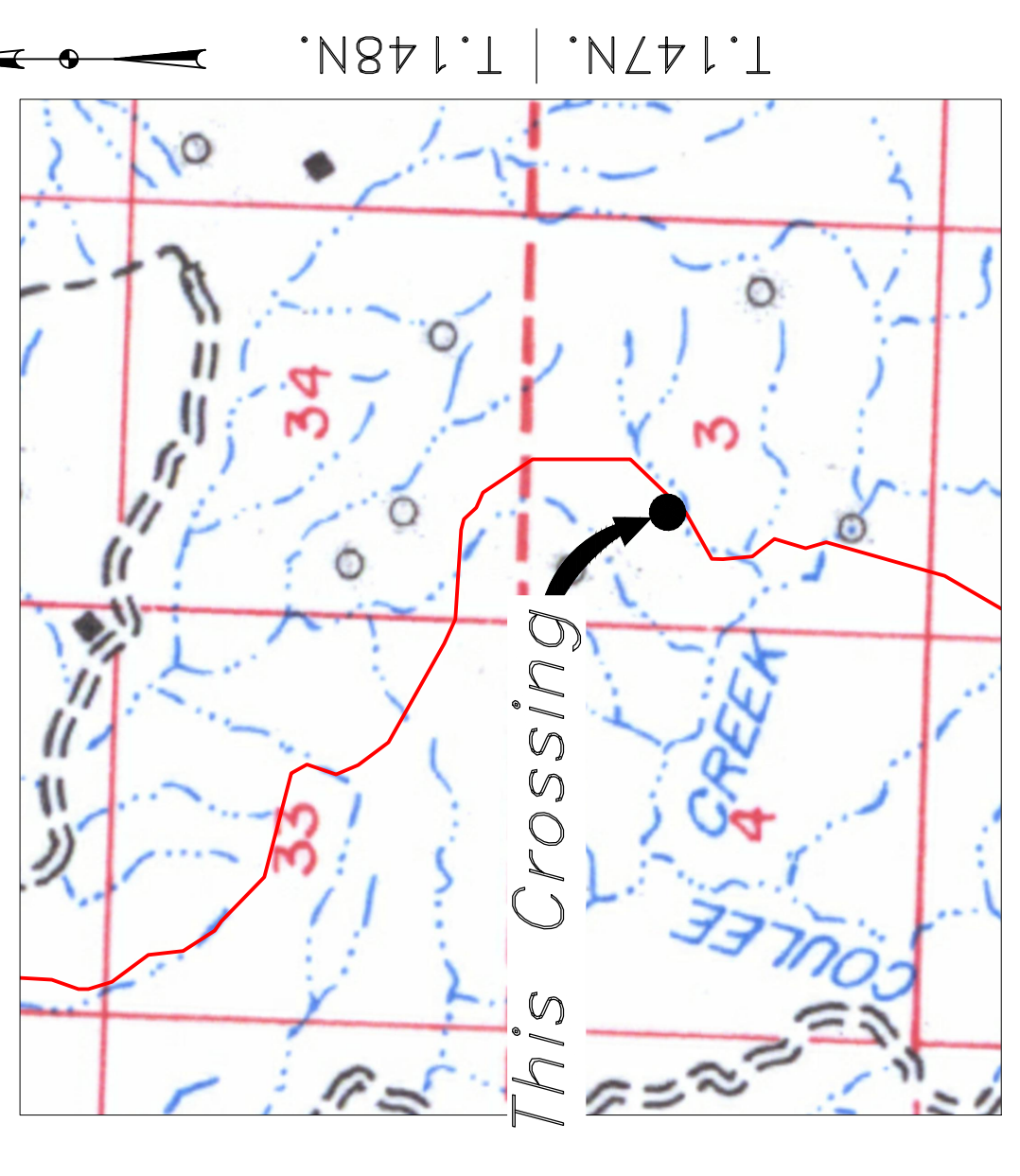
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

BOE PIPELINE PHASE II
TERRAIN BORE #44
SECTION 3, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS
BAKKEN OIL EXPRESS PIPELINE

KLJ
1555 Columbia Street
Bismarck, ND 58503



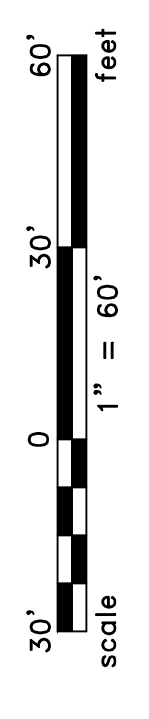
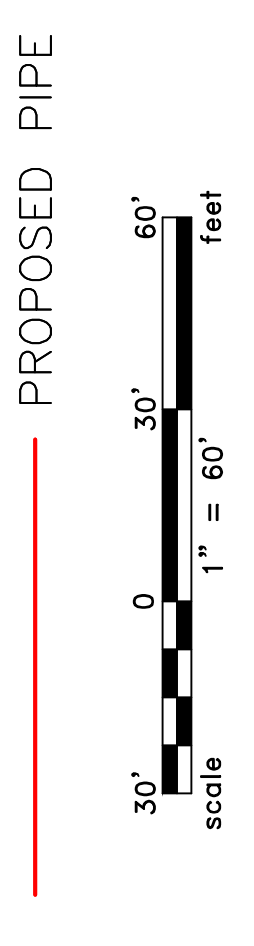
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MIL FBE, 30-35 MIL ARO

LEGEND

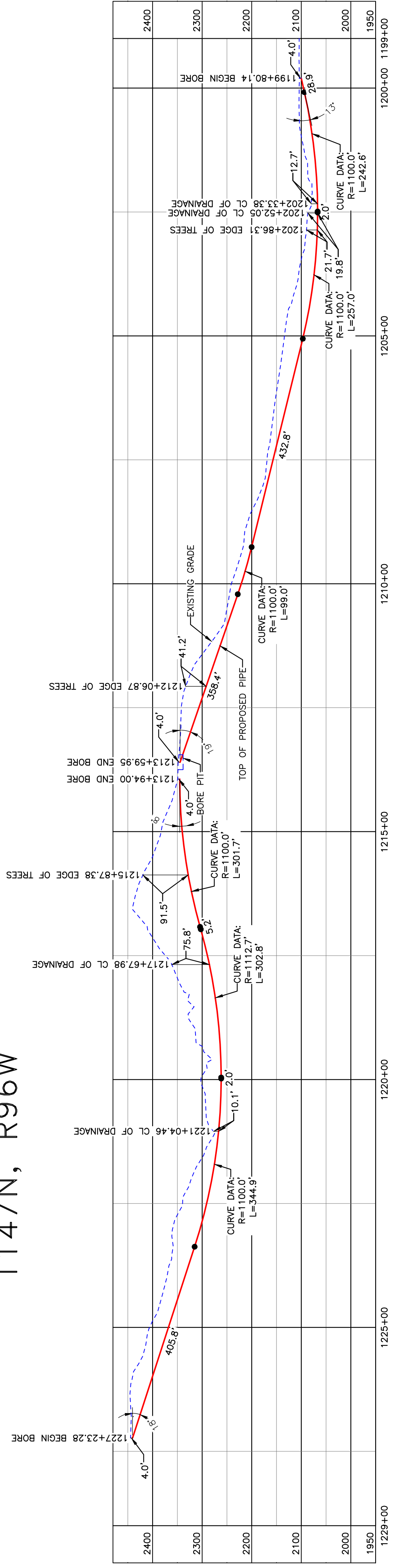
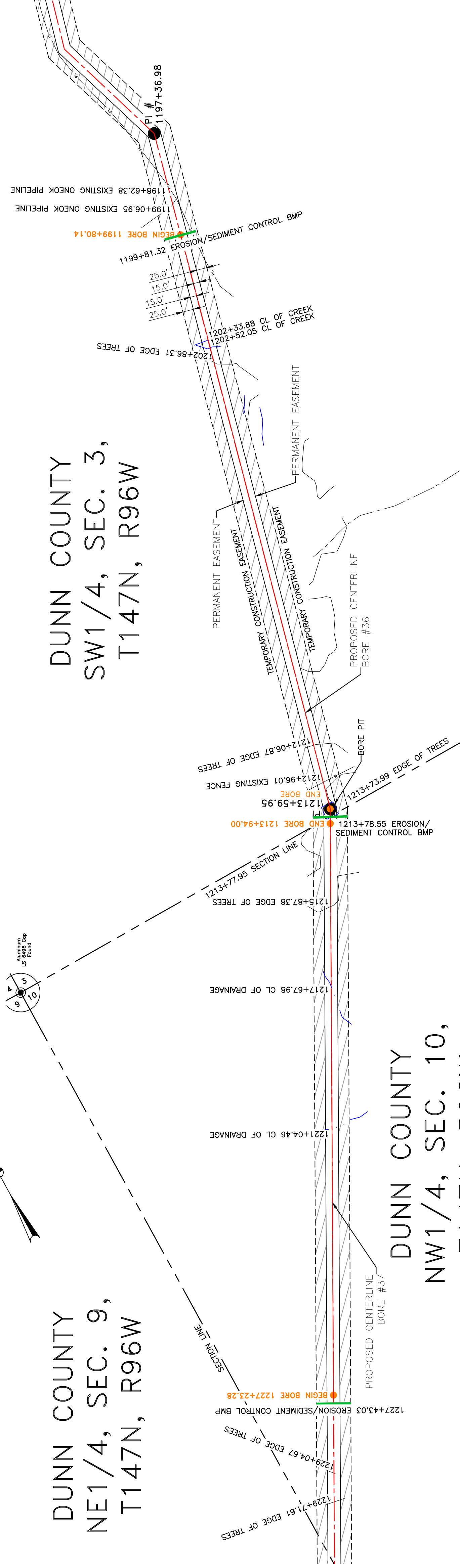
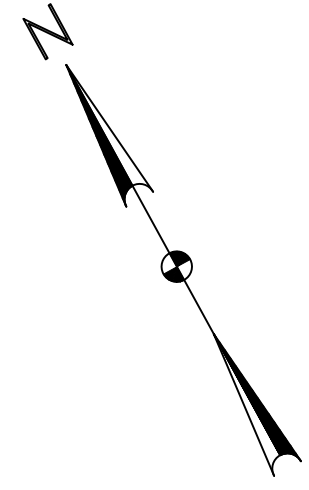


BOE PIPELINE PHASE II CREEK & TERRAIN CROSSING BORES #45 & #46 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 9,
T147N, R96W

DUNN COUNTY
SW1/4, SEC. 3,
T147N, R96W

DUNN COUNTY
NW1/4, SEC. 10,
T147N, R96W



PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1227+23.28	47°31'00.50" N	102°54'25.68" W
END BORE	1213+94.00	47°30'59.61" N	102°54'25.67" W

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1199+80.14	47°34'43.95" N	102°54'10.88" W
END BORE	1213+59.95	47°34'28.32" N	102°54'16.66" W

TOTAL HORIZONTAL DISTANCE = 1329.28 FT.
TOTAL BORE LENGTH = 1362.40 FT.

TOTAL HORIZONTAL DISTANCE = 1379.81 FT.
TOTAL BORE LENGTH = 1420.7 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
- - -	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	WATER LINE	—	EASEMENT
—	EXISTING PIPELINE	—	UTILITY POLE
—	EXISTING ROAD	—	PROPOSED BORE
—	UNDERGROUND COM. LINE	—	EROSION/SEDIMENT CONTROL BMP
—		—	VALVE SETTING
—		—	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	2783'	16" OD, 0.344" W.T. API 5L X70, 14'-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

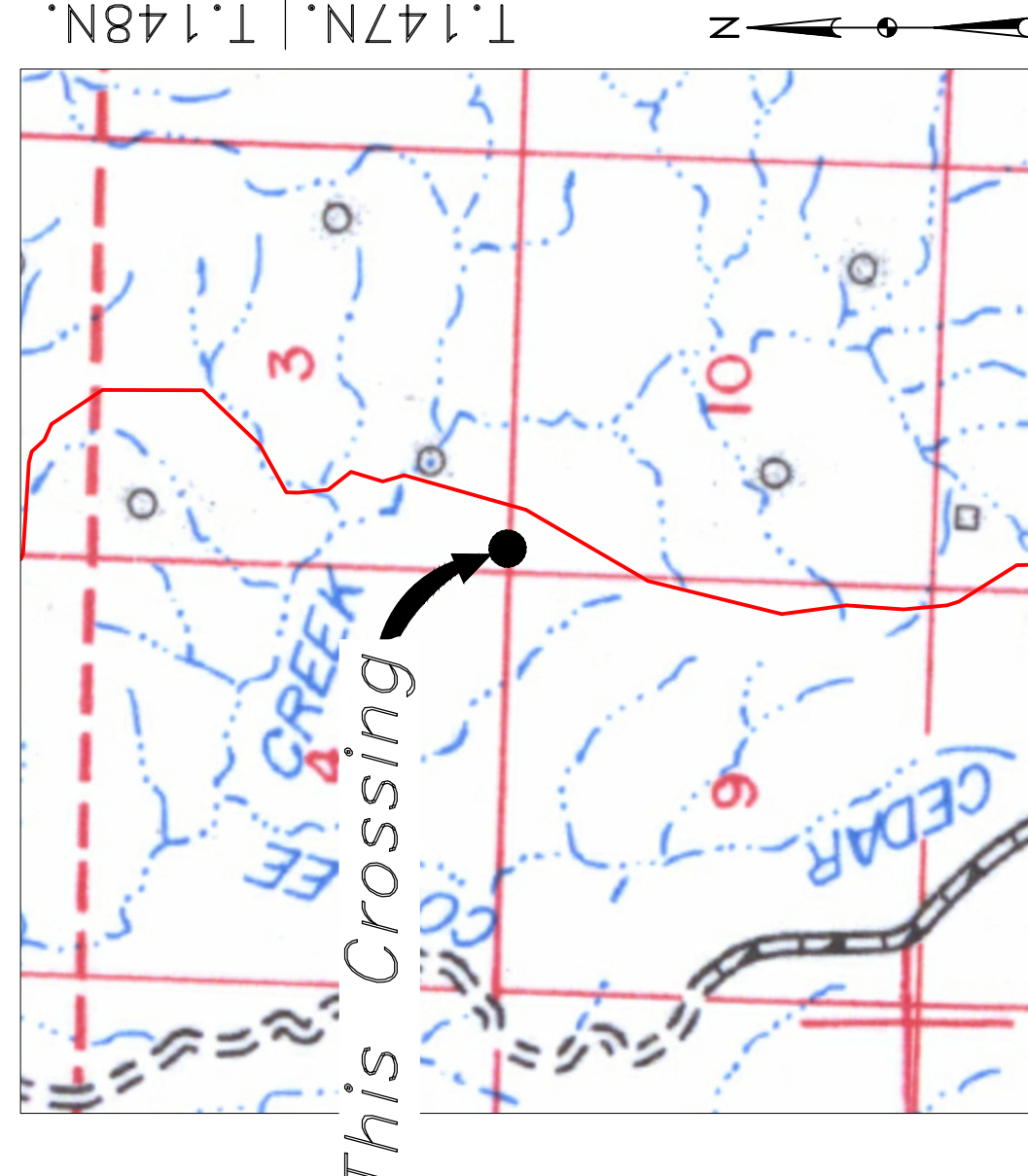
REVISIONS

NO.	DESCRIPTION

BOE PIPELINE PHASE II
CREEK & TERRAIN CROSSING BORES #45 & #46
SECTIONS 3 & 10, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS
BAKKEN OIL EXPRESS PIPELINE

KLJ
1555 Columbia Street
Bismarck, ND 58503
© KLJ 2016



Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

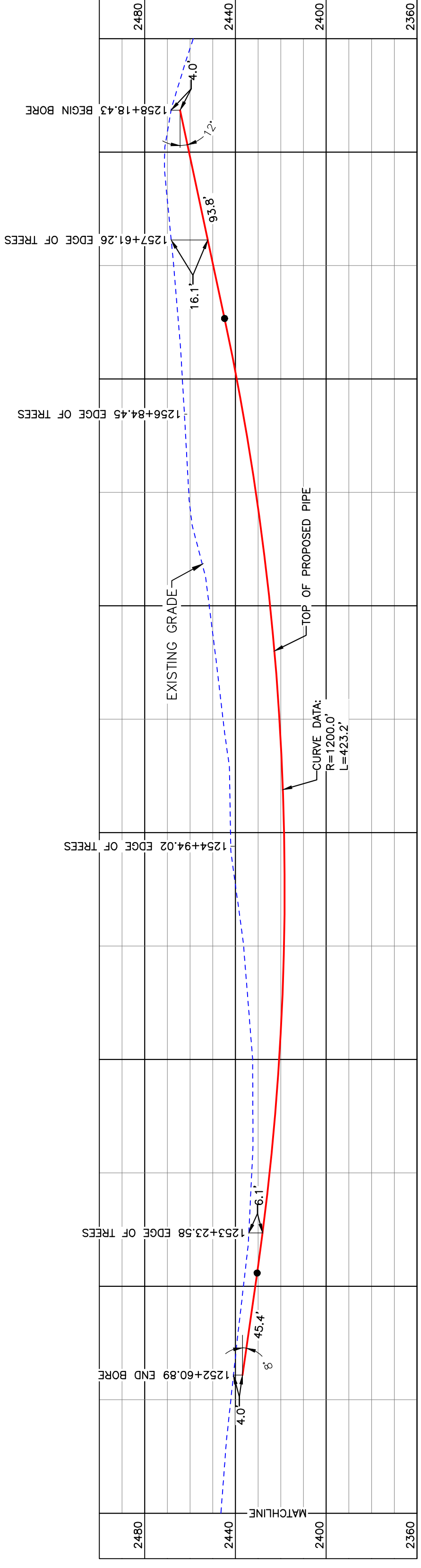
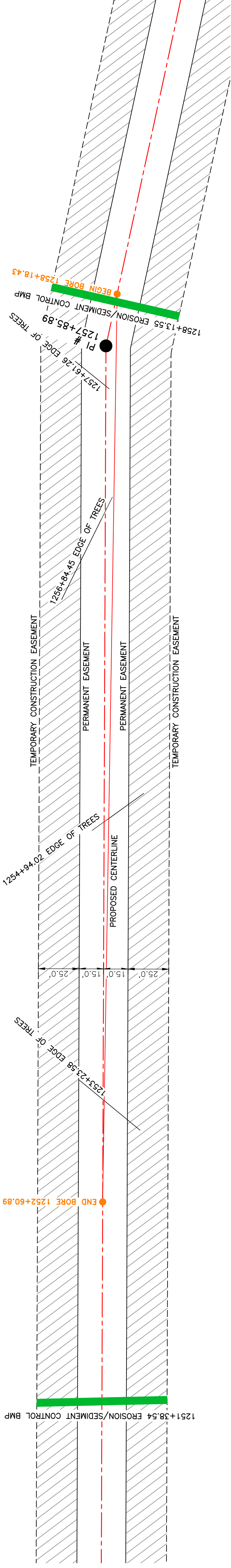
LEGEND

— PROPOSED PIPE

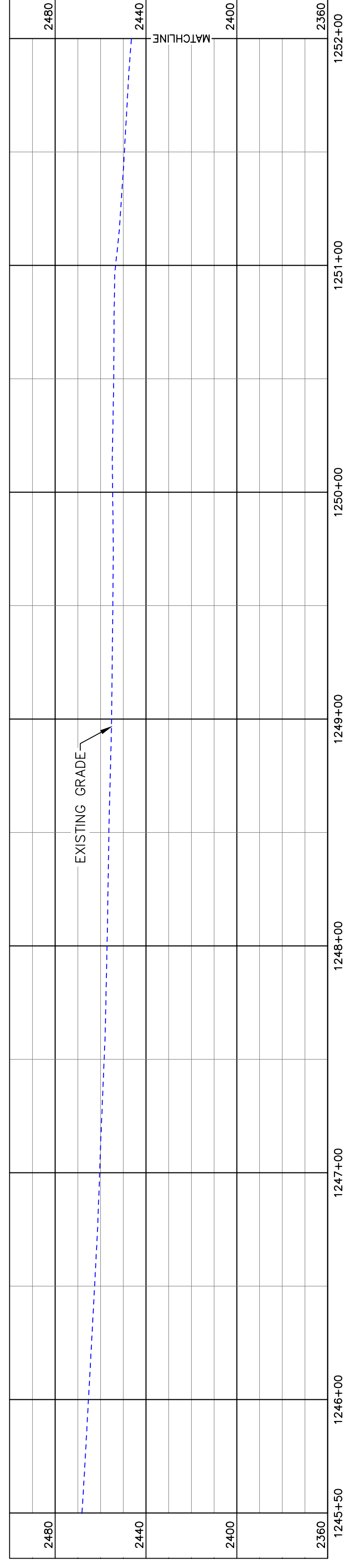
Scale: 1" = 150'
0 75' 150'
feet

BOE PIPELINE PHASE II TREE LINE CROSSING BORE #47 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 9,
T147N, R96W



BORE DESIGN

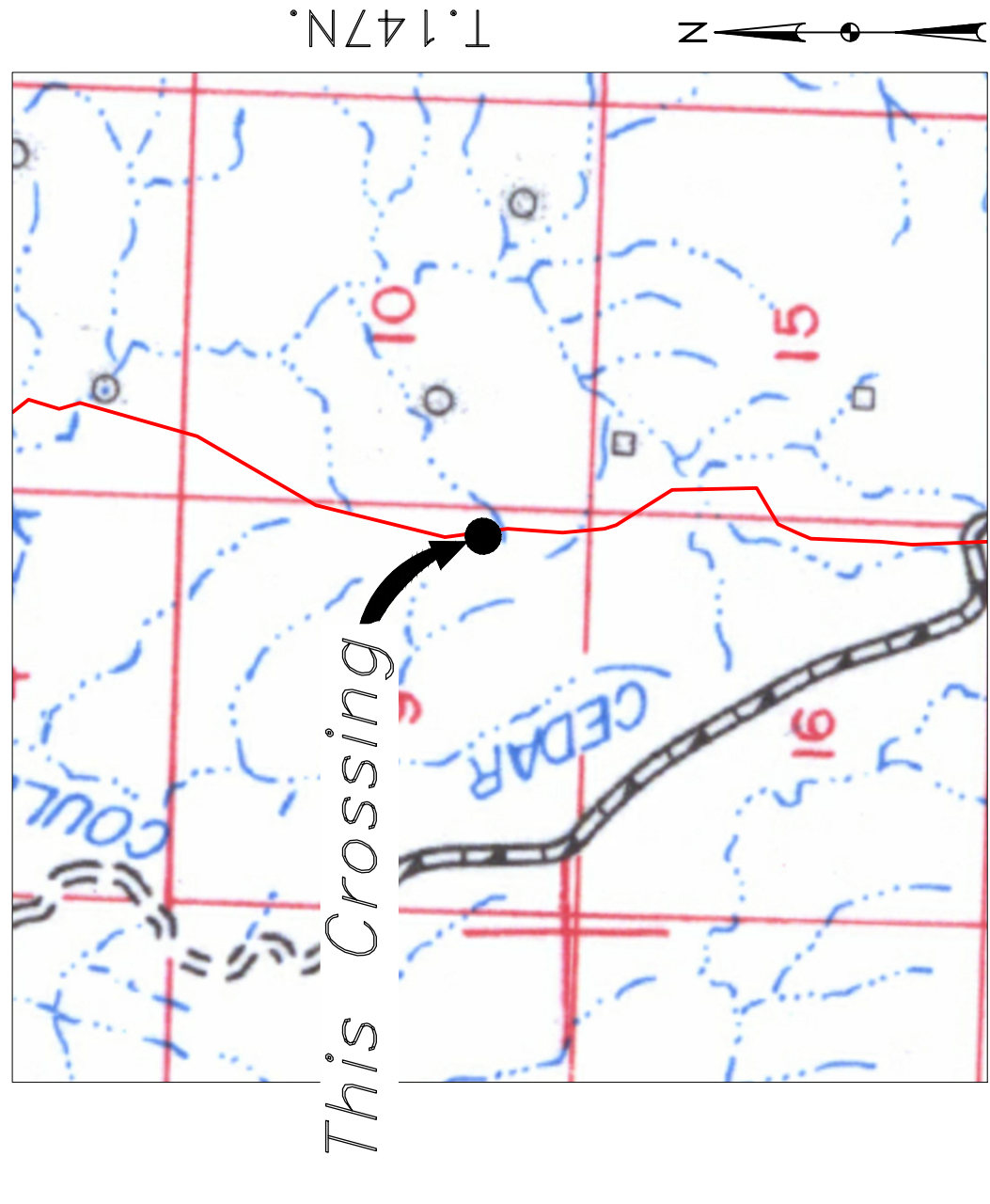


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
END BORE	1252+60.89	47°33'52.52" N	102°54'33.96" W
BEGIN BORE	1258+18.43	47°33'47.09" N	102°54'32.71" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 557.54 FT.
TOTAL BORE LENGTH = 562.4 FT.



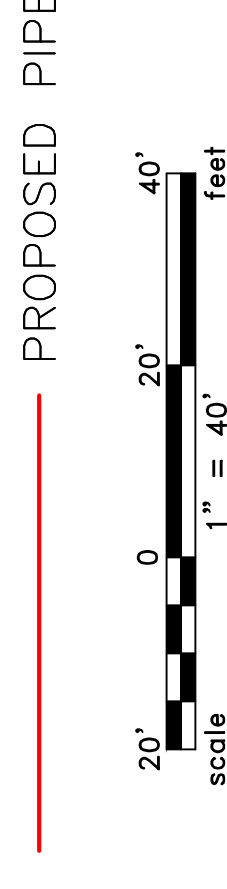
Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	GRADE LINE	—	RAILROAD
—	WATER LINE	—	UTILITY POLE
—	EXISTING PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	563'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE
BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

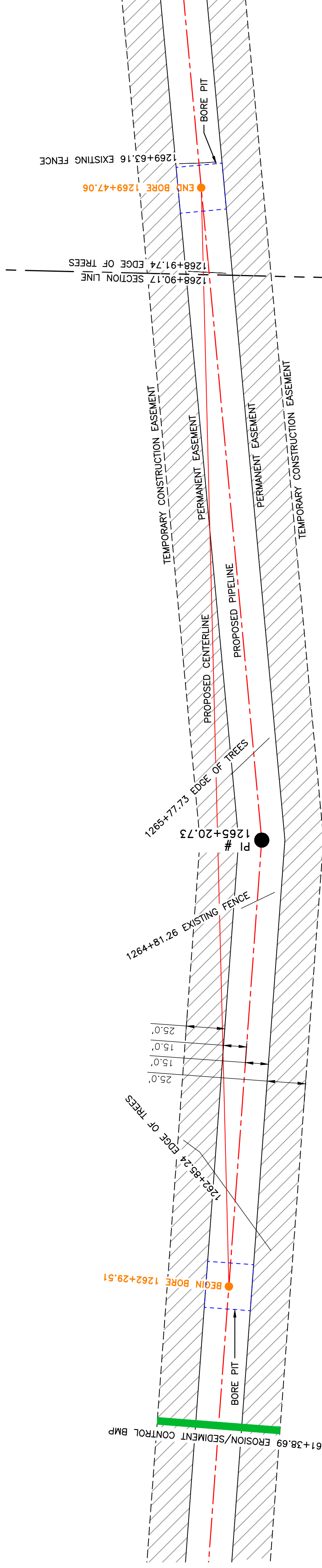
BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #47

SECTIONS 9 & 16, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503

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BOE PIPELINE PHASE II TREE LINE CROSSING BORE #48 DUNN COUNTY, NORTH DAKOTA

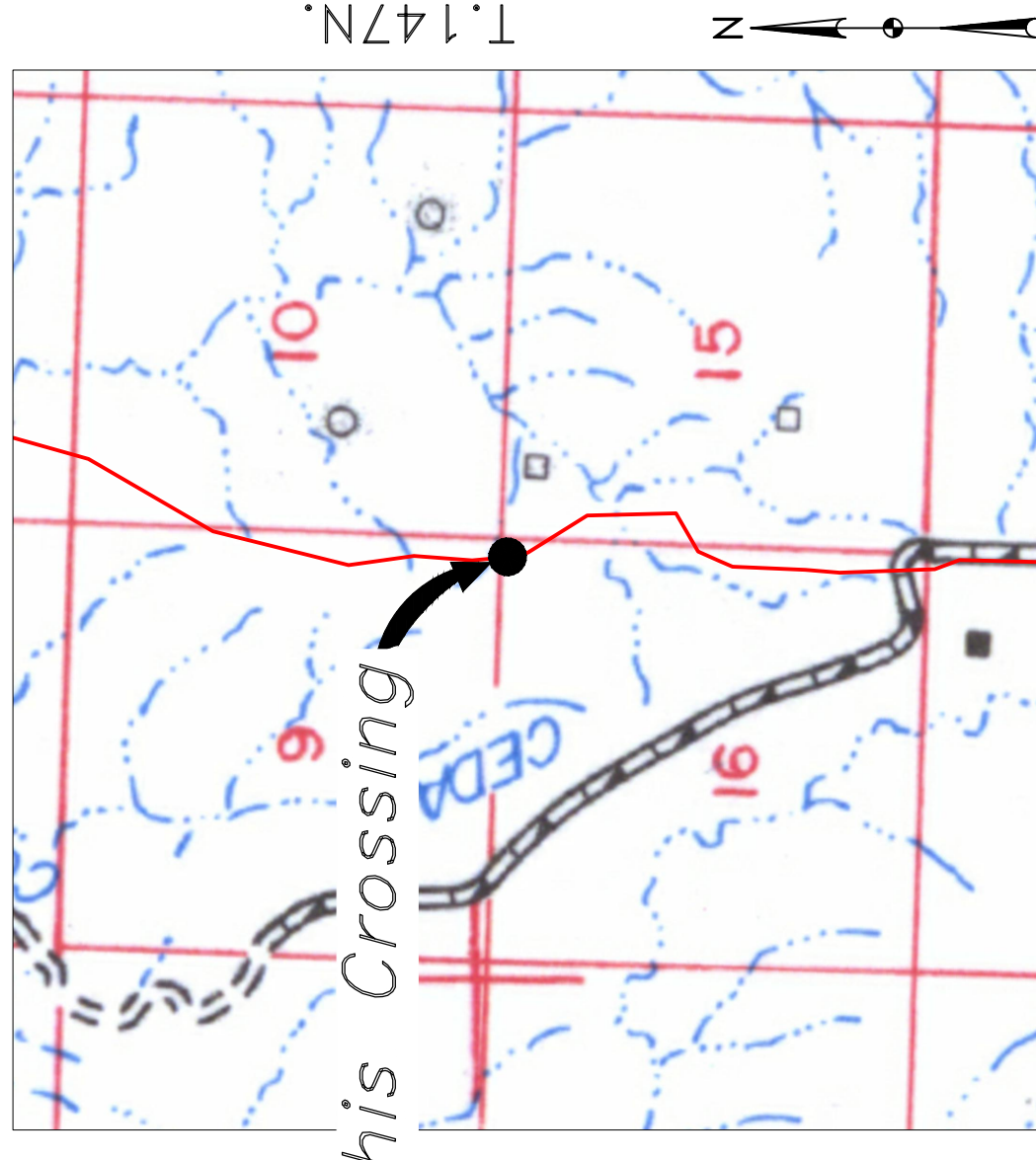


DUNN COUNTY
NE1/4, SEC. 16,
T147N, R96W

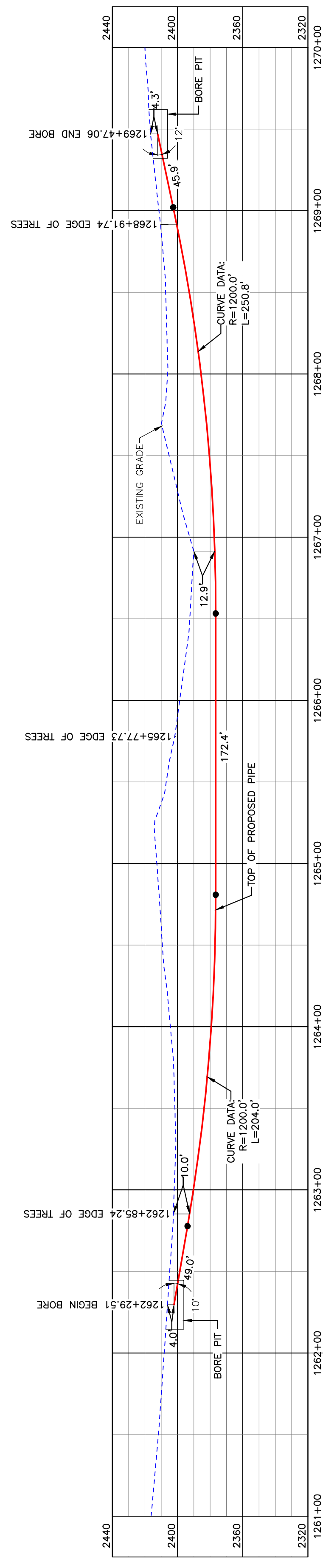
DUNN COUNTY
SE1/4, SEC. 9,
T147N, R96W

R.96W.

Location Map



Aerial Map

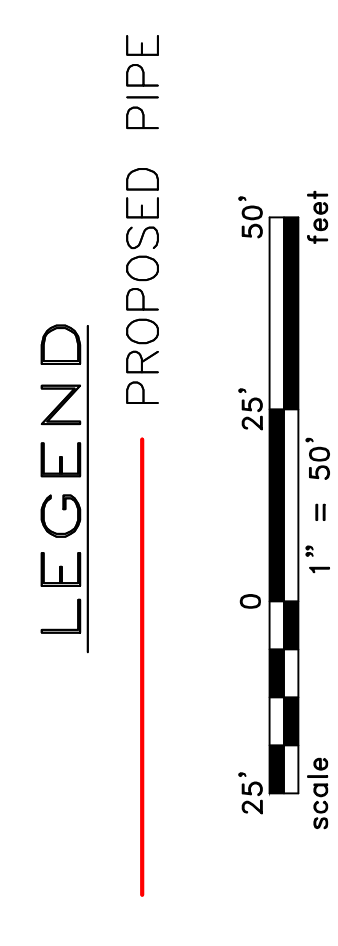


BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1262+29.51	47°33'43.03" N	102°54'32.97" W
END BORE	1269+47.06	47°33'35.99" N	102°54'32.39" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 717.55 FT.
TOTAL BORE LENGTH = 722.1 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	PIPELINE CENTERLINE	—	ROAD
—	WATER LINE	—	ELECTRIC
—	EXISTING ROAD	—	UTILITY POLE
—	UNDERGROUND COM. LINE	—	PROPOSED BORE
—		—	EROSION/SEDIMENT CONTROL BMP
—		—	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	723'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 50'

SCALE: 1" = 50'

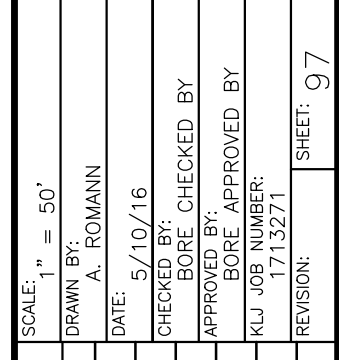
SCALE: 1" = 50'

APPROVALS

DRAWN BY: A. ROMANN	DATE: 5/10/16
CHECKED BY:	
APPROVED BY:	
BOE APPROVED BY:	
KLJ JOB NO.:	1713271
REVISION:	
SHEET:	97

**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE
#48**

SECTIONS 9 & 16, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

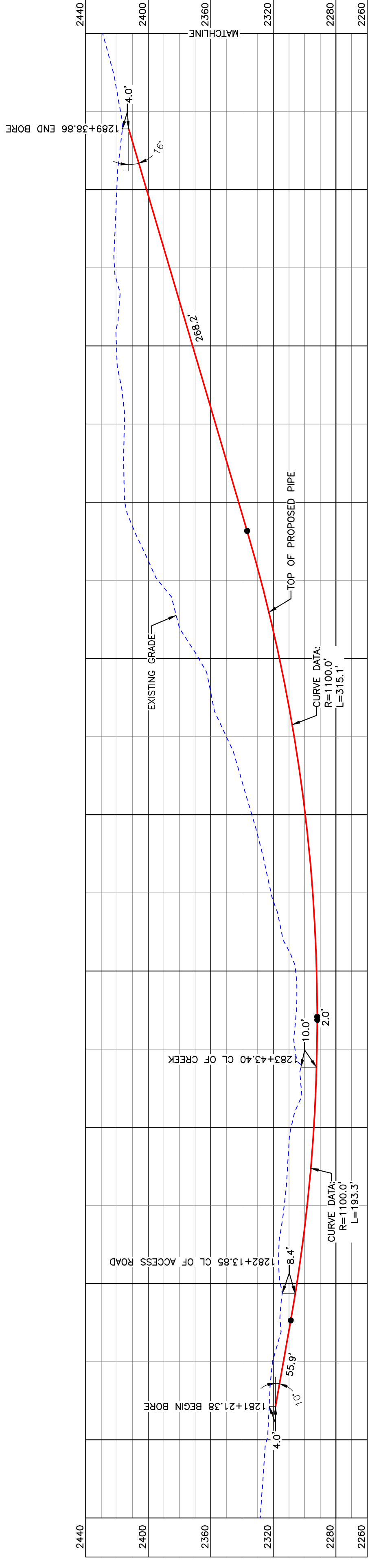
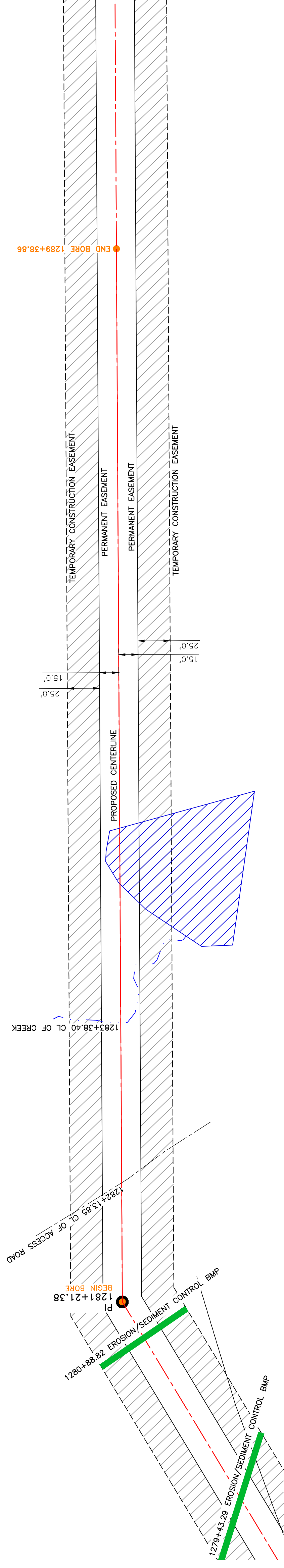
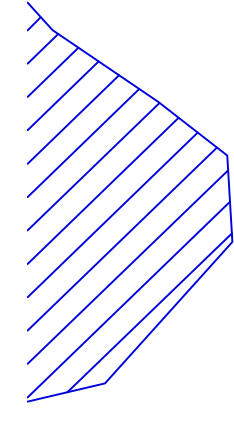


BAKKEN OIL EXPRESS
EXPRESS PIPELINE

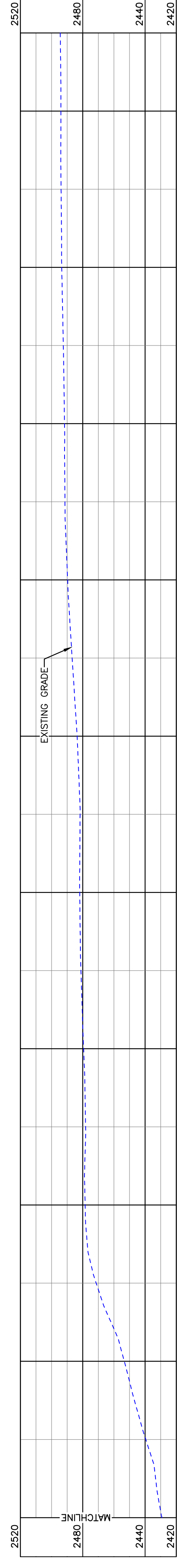
1555 Columbia Street
Bismarck, ND 58503

BOE PIPELINE PHASE II ACCESS ROAD & CREEK CROSSING BORE #49 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 15,
T147N, R96W



BORE DESIGN

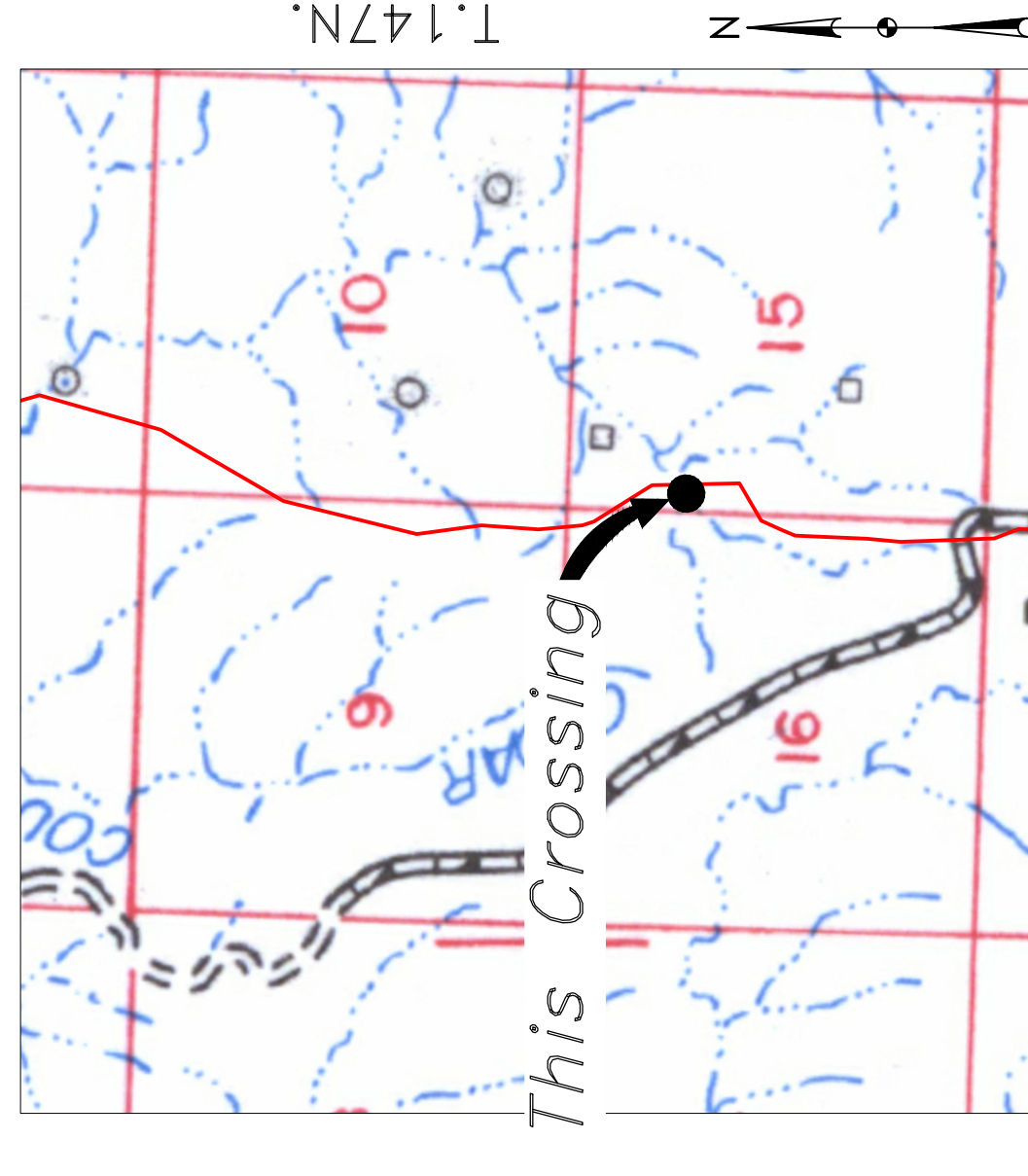


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1281+21.38	47°30'56.10" N	102°54'25.65" W
END BORE	1289+38.86	47°30'52.42" N	102°54'26.27" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 817.48 FT.
TOTAL BORE LENGTH = 834.5 FT.



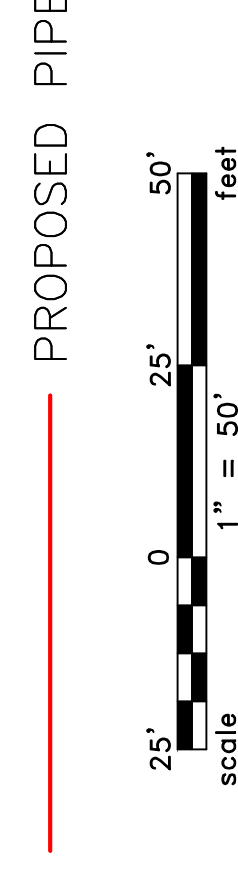
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	RIGHT OF WAY		ROAD
	EASEMENT		ELECTRIC UTILITY POLE
	WATER LINE		PROPOSED BORE
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	835'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 50'

DRAWN BY: A. ROMANN
DATE: 5/10/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
REVISION:
SHEET: 08

**BOE PIPELINE PHASE II
ACCESS ROAD BORE #49**

SECTION 15, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

KLJ
BAKKEN OIL EXPRESS
PIPELINE

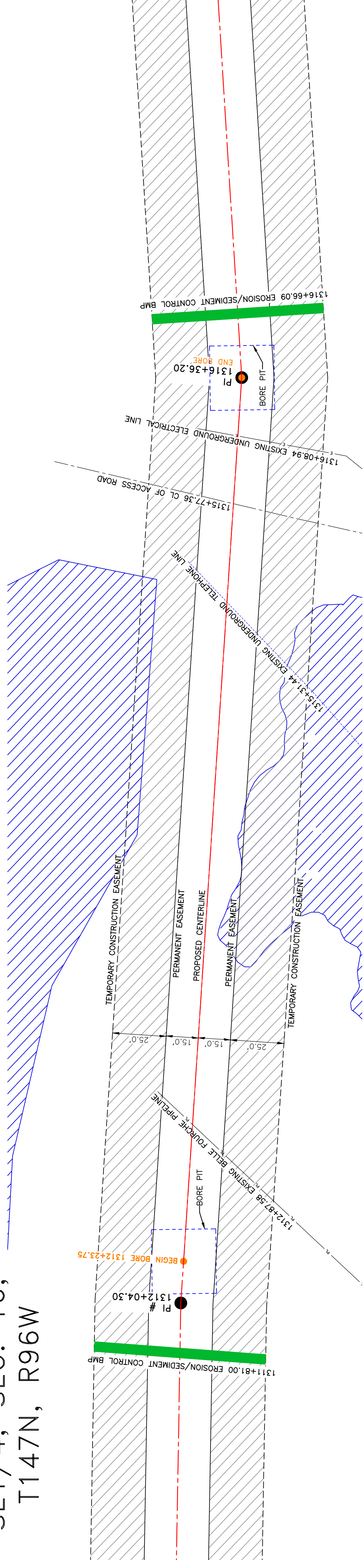
1555 Columbia Street
Bismarck, ND 58503

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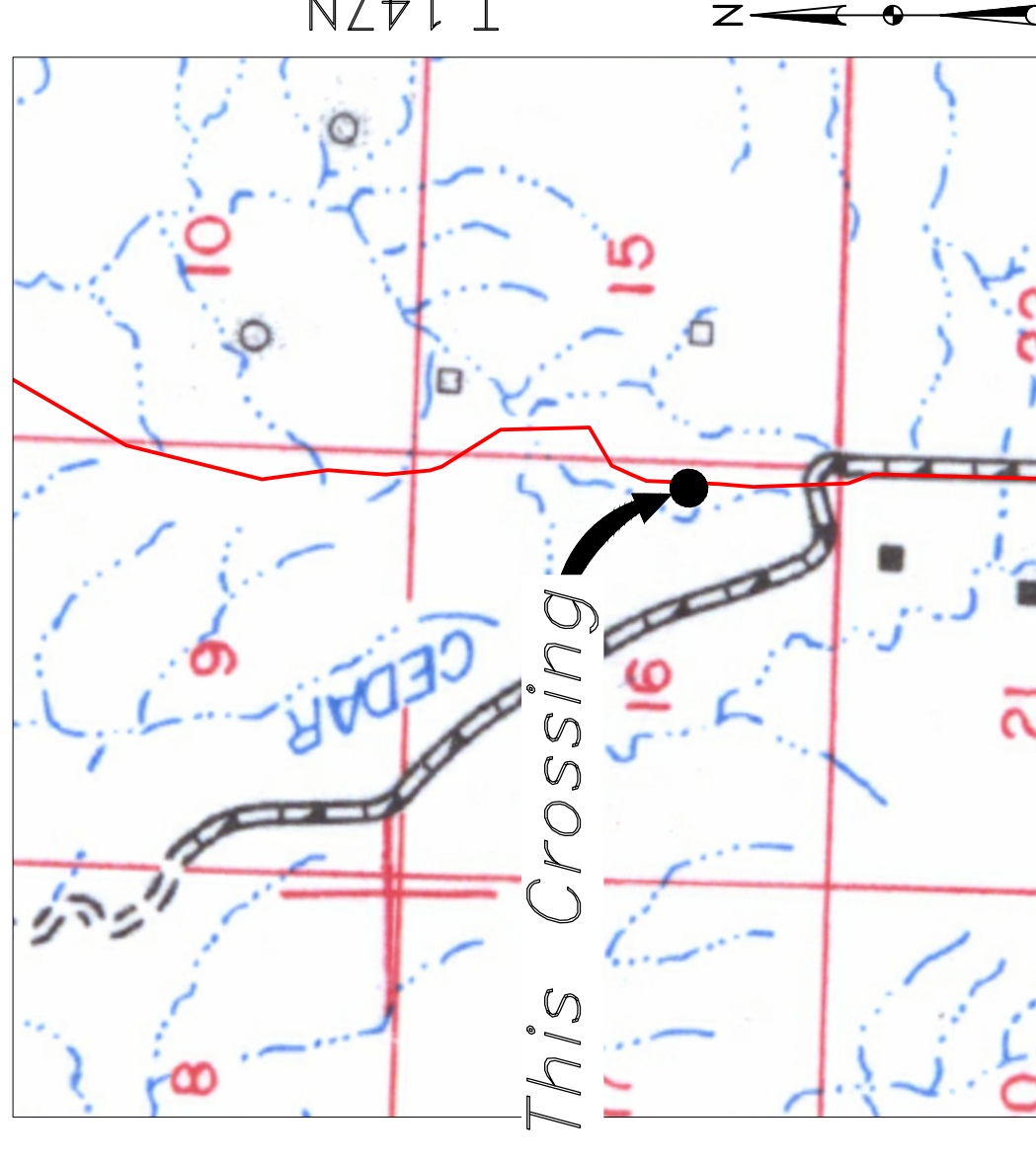
BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #50

DUNN COUNTY, NORTH DAKOTA

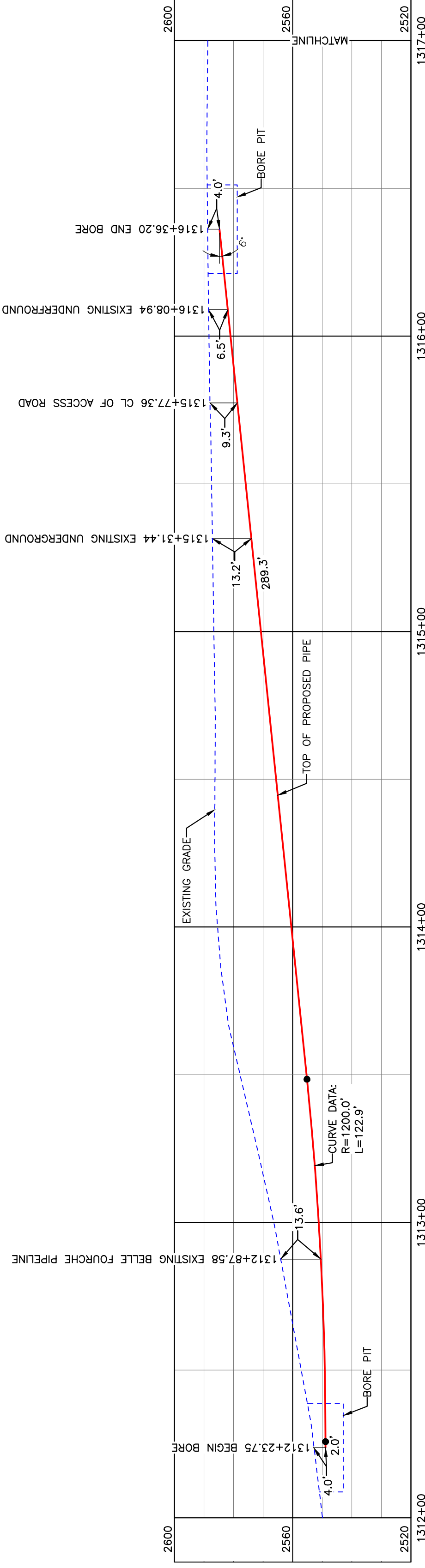
DUNN COUNTY
SE1/4, SEC. 16,
T147N, R96W



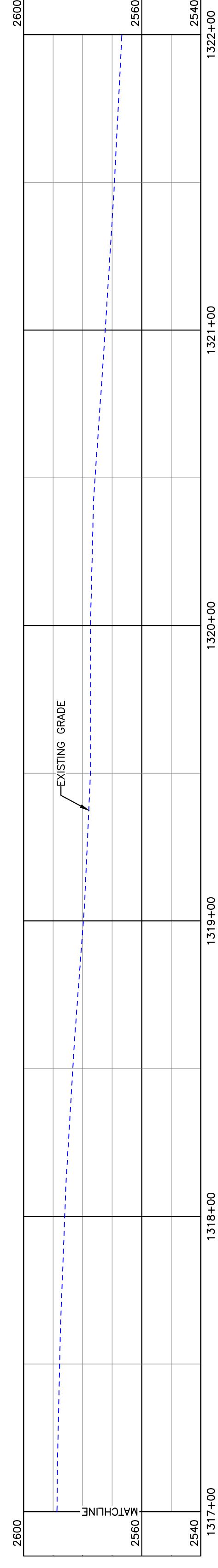
Location Map



Aerial Map



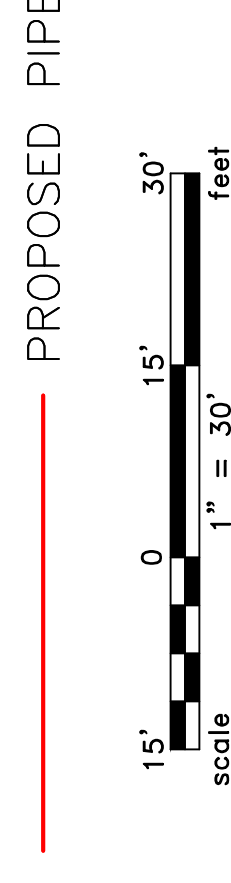
BORE DESIGN



PULLBACK AREA

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



TOTAL HORIZONTAL DISTANCE = 412.45 FT.

TOTAL BORE LENGTH = 414.2 FT.

PRELIMINARY

PROPERTY LINE	SECTION LINE	GRASSLINE	WATER LINE	FOREIGN PIPELINE	EXISTING ROAD	UNDERGROUND COM. LINE	AVOIDANCE AREA	FIBER OPTIC COM. LINE	RAILROAD	ELECTRIC UTILITY POLE	PROPOSED BORE	EROSION/SEDIMENT CONTROL BMP	MARKER POST
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	XXXXXX	---	---	---	---	---	---

MATERIAL SUMMARY	DESCRIPTION	QTY.
16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO		414'

REFERENCE DRAWINGS	DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #50

SECTION 16, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

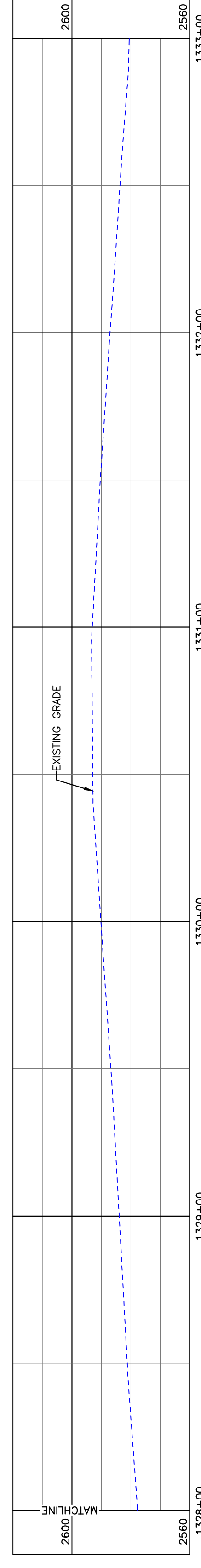
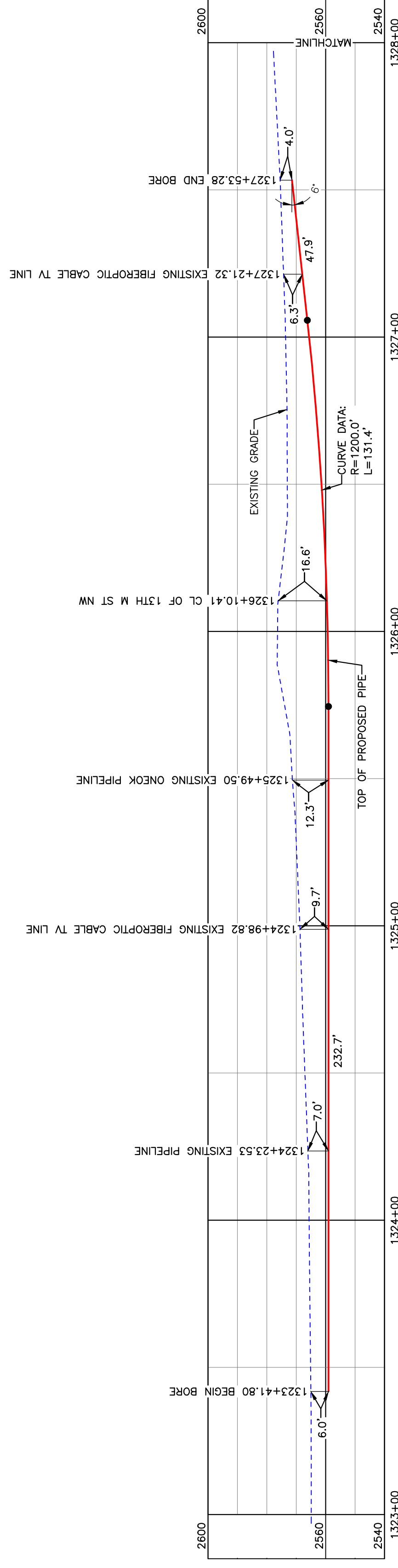
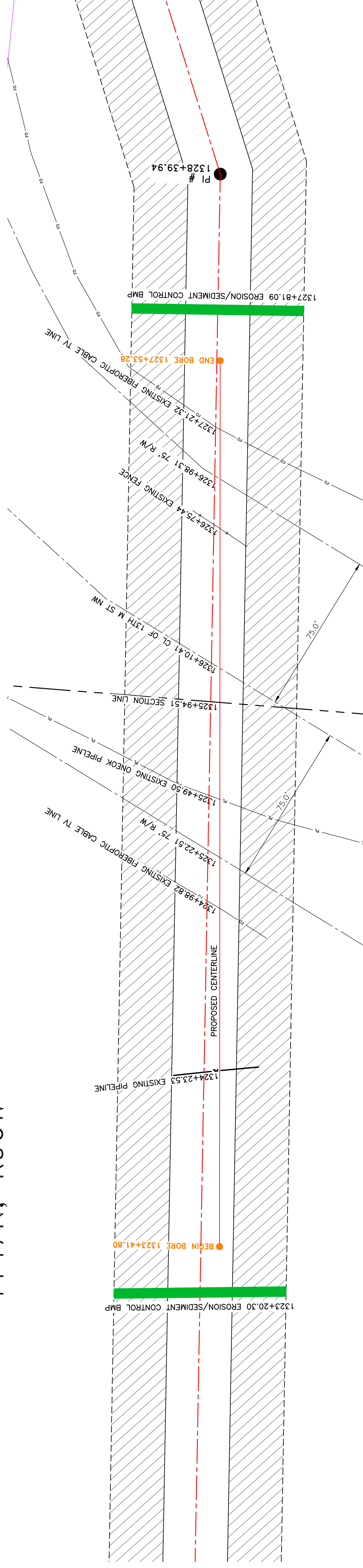
BAKKEN OIL EXPRESS
EXPRESS PIPELINE

KLJ
1555 Columbia Street
Bismarck, ND 58503

BOE PIPELINE PHASE II
13TH M ST NW CROSSING BORE #51
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 NE1/4, SEC. 21,
 T147N, R96W

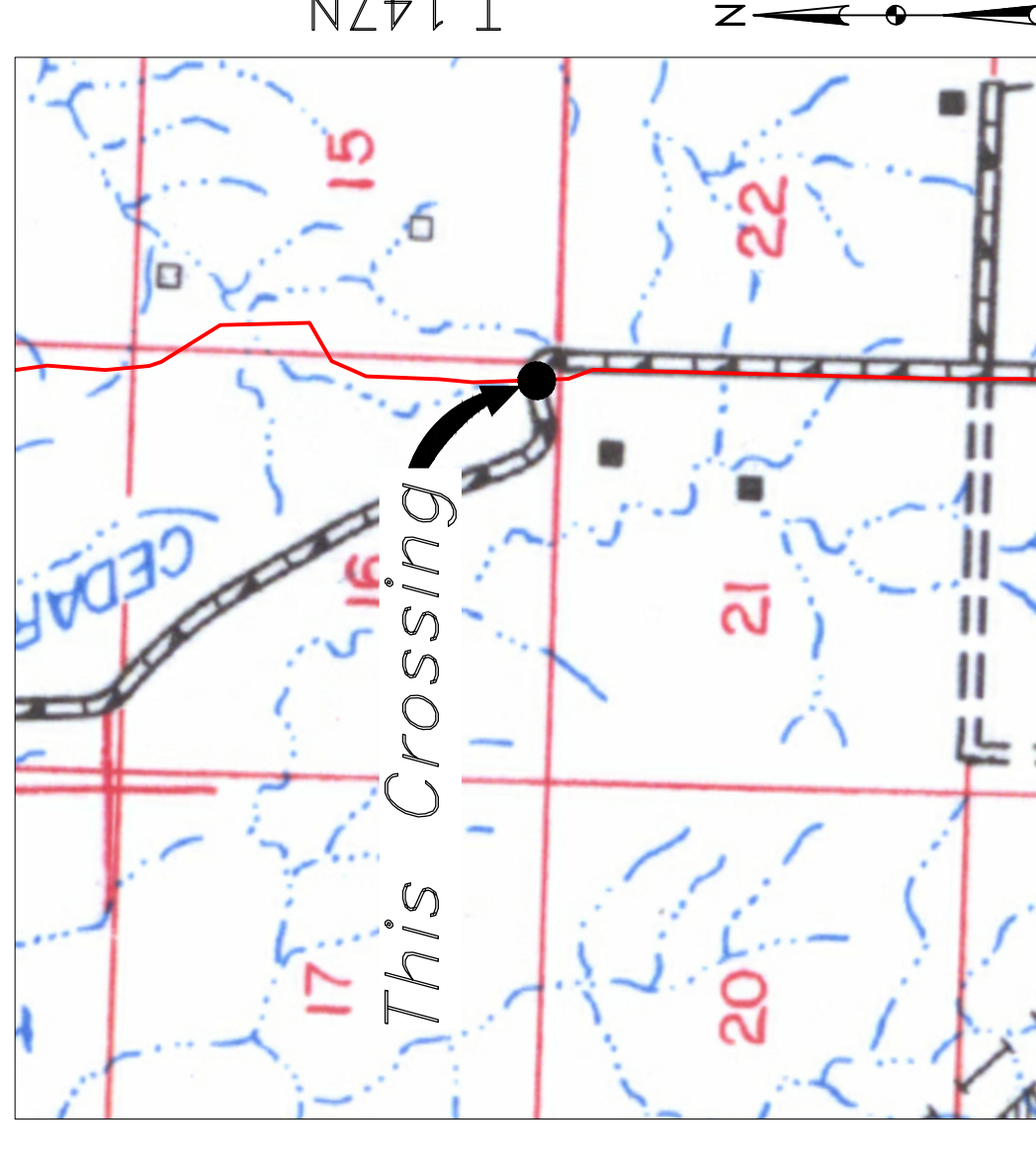
DUNN COUNTY
 SE1/4, SEC. 16,
 T147N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1323+41.80	47°32'47.28" N	102°54'32.81" W
END BORE	1327+53.28	47°32'43.23" N	102°54'32.30" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 411.54 FT.
 TOTAL BORE LENGTH = 412.0 FT.



Location Map



Aerial Map

NOTE:

1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424

Contents: Oil

Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70

Coating: 1.4-1.6 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	RAILROAD CENTERLINE	—	EASEMENT
—	WATER LINE	—	UTILITY POLE
—	FOREGO PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	412'	16" OD, 0.344" W.T. API 5L X70, 1.4-1.6 MIL FBE, 30-35 MIL ARO

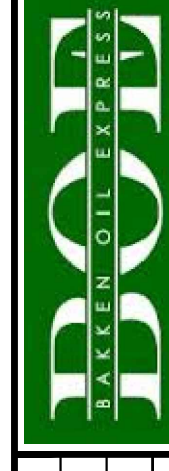
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'
 DRAWN BY: A. ROMANN
 DATE: 5/10/16
 CHECKED BY:
 APPROVED BY:
 BOE APPROVED BY:
 KJL JOB #:
 REVISION:
 SHEET: 100



BAKKEN OIL EXPRESS
 EXPRESS PIPELINE



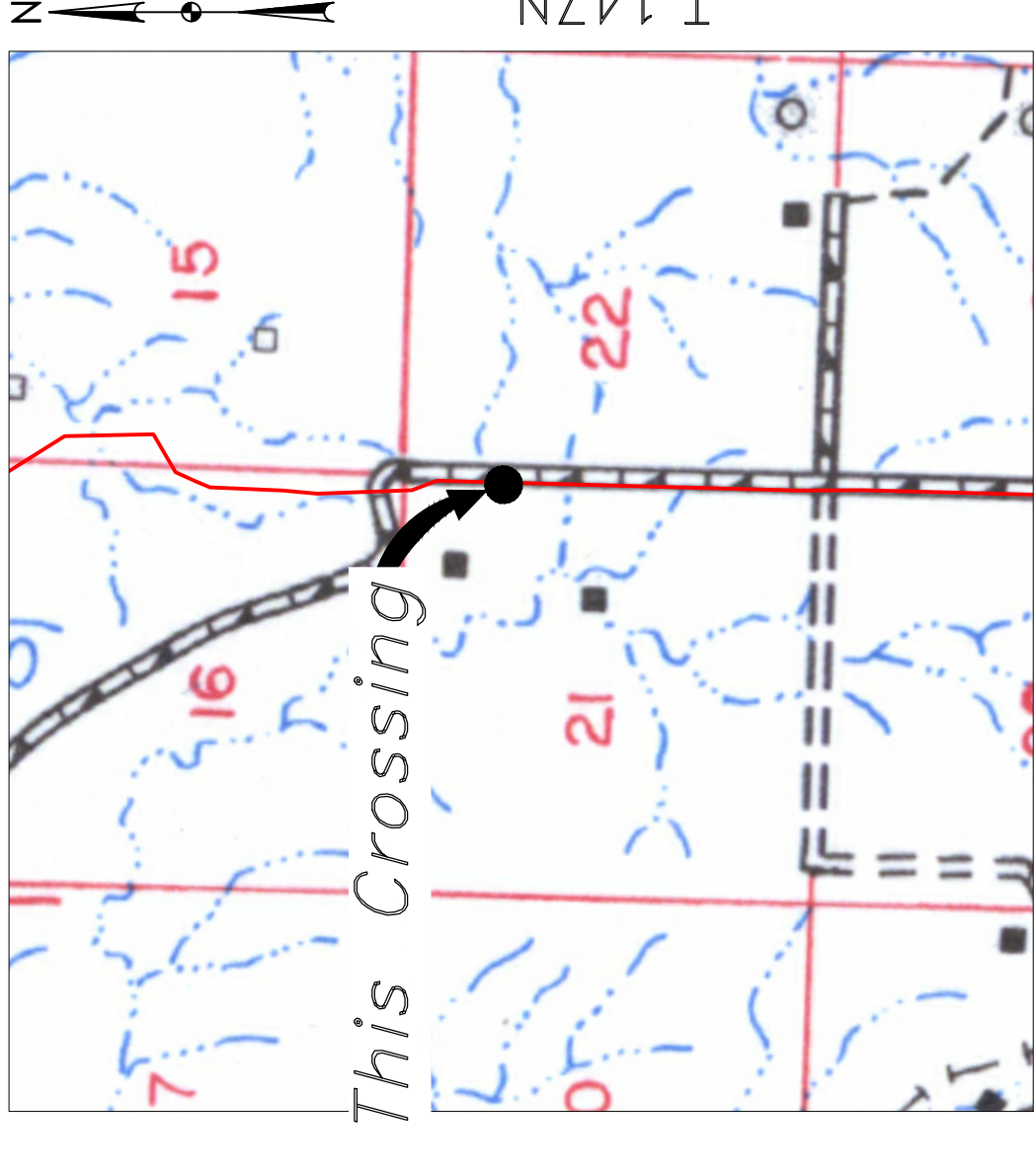
BOE PIPELINE PHASE II
 15TH M ST NW CROSSING BORE #51
 SECTIONS 16 & 21, T147N., R.96W., DUNN COUNTY, NORTH DAKOTA

1555 Columbia Street
 Bismarck, ND 58503

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BOE PIPELINE PHASE II DRIVEWAY CROSSING BORE #52 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 21,
T147N, R96W



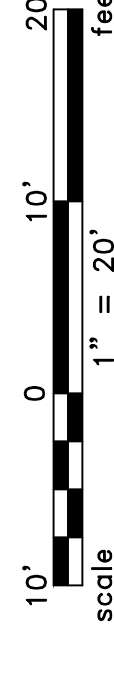
Location Map



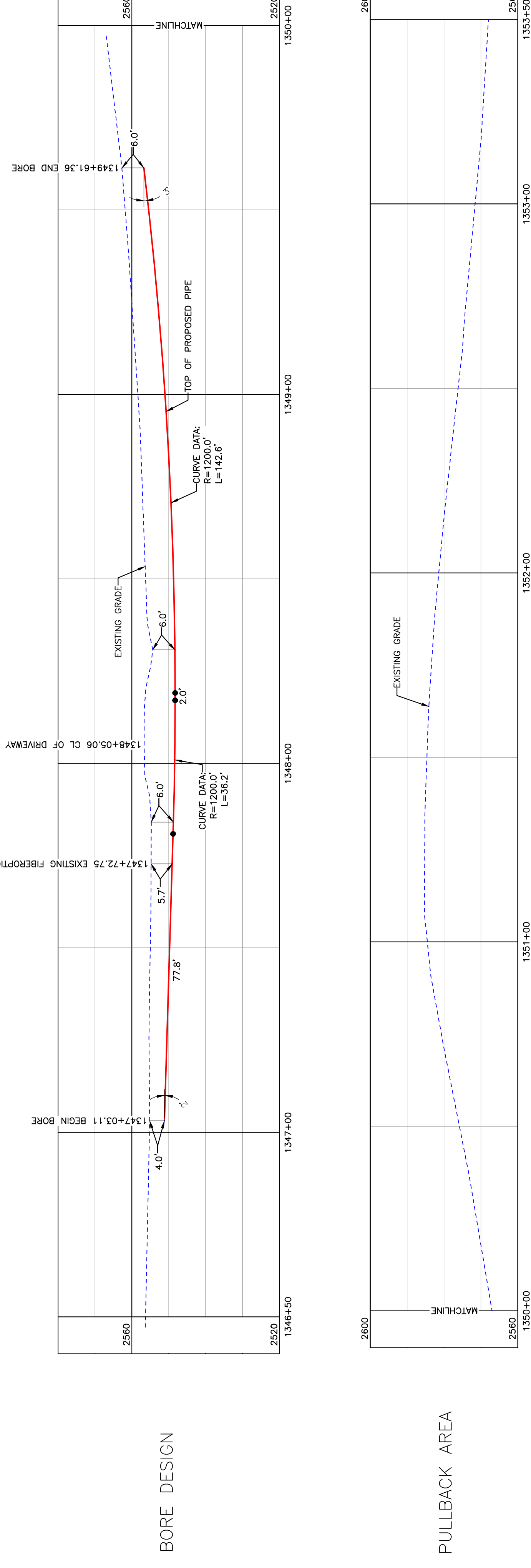
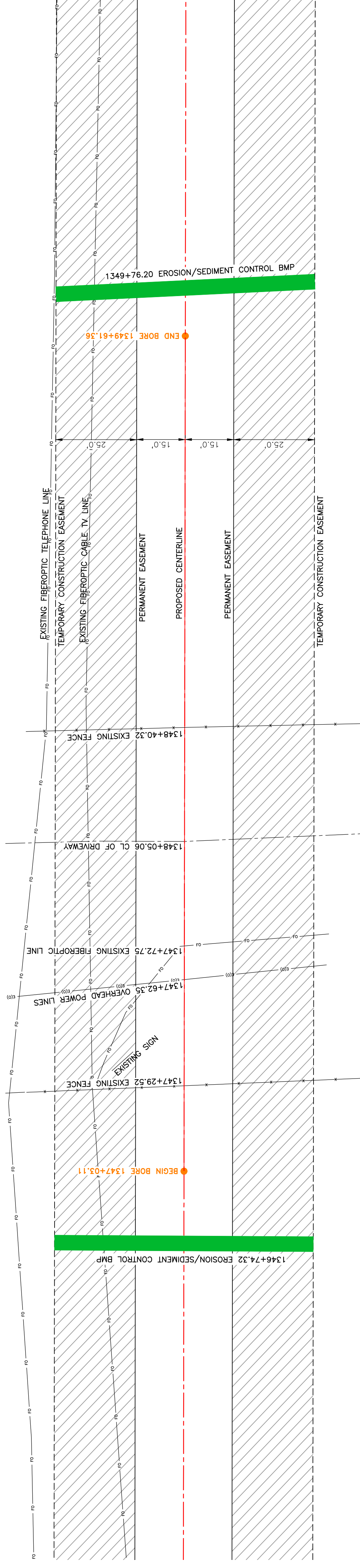
Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND
 PROPOSED PIPE



TOTAL HORIZONTAL DISTANCE = 258.24 FT.
 TOTAL BORE LENGTH = 258.6 FT.



PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1347+03.11	47°32'24.24" N	102°54'30.26" W
END BORE	1349+61.36	47°32'21.69" N	102°54'30.24" W

LEGEND

	PROPERTY LINE		EXISTING FENCE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE		WETLAND
	RAILROAD		ELECTRIC		EASEMENT
	GRADE CENTERLINE		UTILITY POLE		ELEVATION
	WATER LINE		PROPOSED BORE		VALVE SETTING
	EXISTING PIPELINE		EROSION/SEDIMENT CONTROL BMP		MARKER POST
	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	259'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

**BOE PIPELINE PHASE II
DRIVEWAY CROSSING BORE #52**

SECTION 21, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

KLJ
 BAKKEN OIL EXPRESS
 PIPELINE

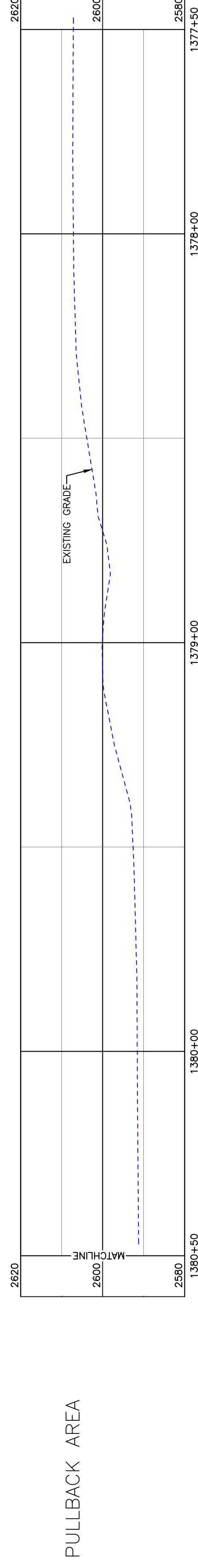
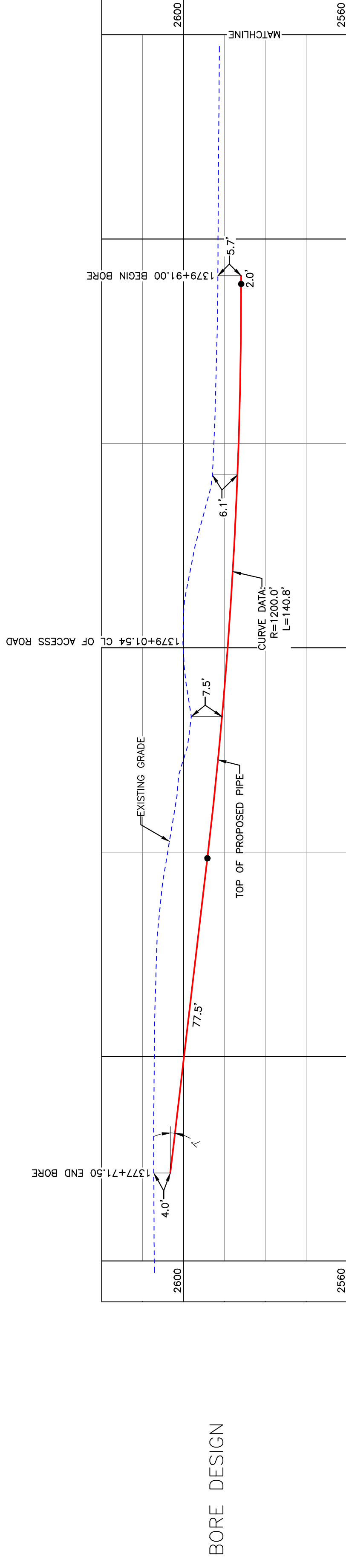
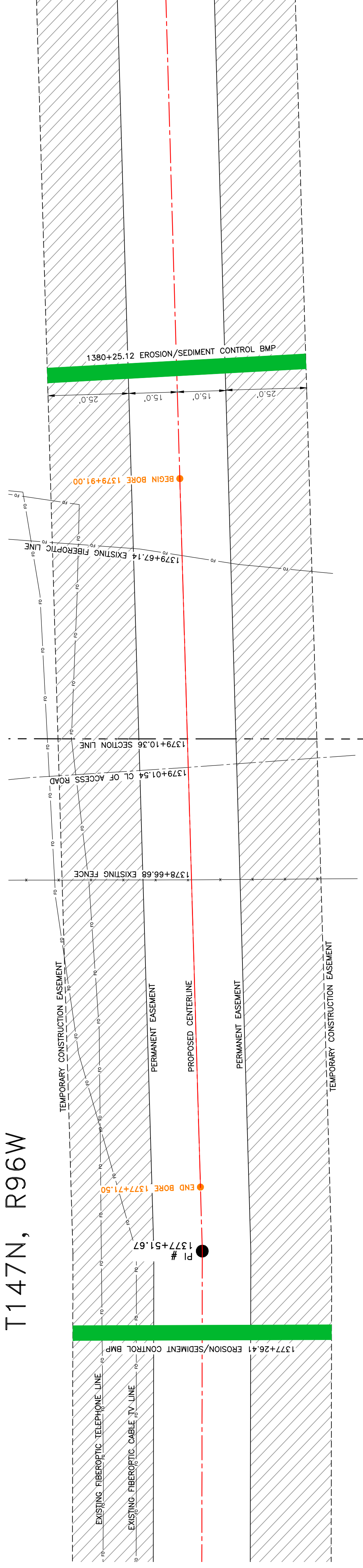
BAKKEN OIL EXPRESS
 PIPELINE

1555 Columbia Street
 Bismarck, ND 58503

SCALE: 1" = 20'
 DRAWN BY: A. ROMANN
 DATE: 5/10/16
 CHECKED BY: []
 APPROVED BY: []
 BOE APPROVED BY: []
 KLU JOB NO.: 1713271
 REVISION: []
 SHEET: 101

BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #53 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 21,
T147N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1379+91.00	47°30'34.86" N	102°54'26.02" W
END BORE	1377+71.50	47°30'31.33" N	102°54'25.97" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 219.50 FT.
TOTAL BORE LENGTH = 220.3 FT.

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	EASEMENT CENTERLINE		WETLAND
	WATER LINE		ELECTRIC EASEMENT
	EXISTING PIPELINE		UTILITY POLE
	EXISTING ROAD		PROPOSED BORE
	UNDERGROUND COM. LINE		EROSION/SEDIMENT CONTROL BMP
			MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	220'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DESCRIPTION

BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #53
SECTION 34, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

1555 Columbia Street
Bismarck, ND 58503

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Location Map
R.96W.



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO

LEGEND

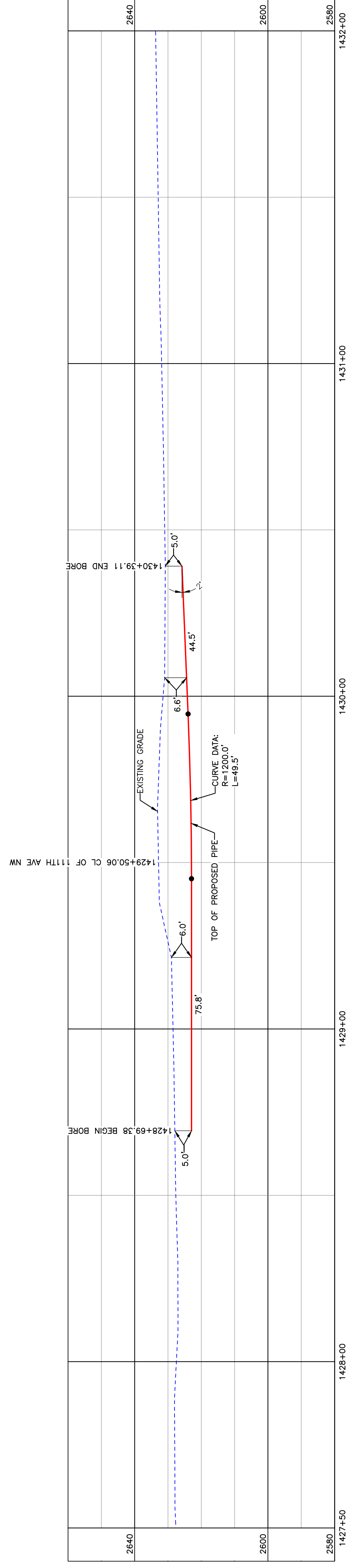
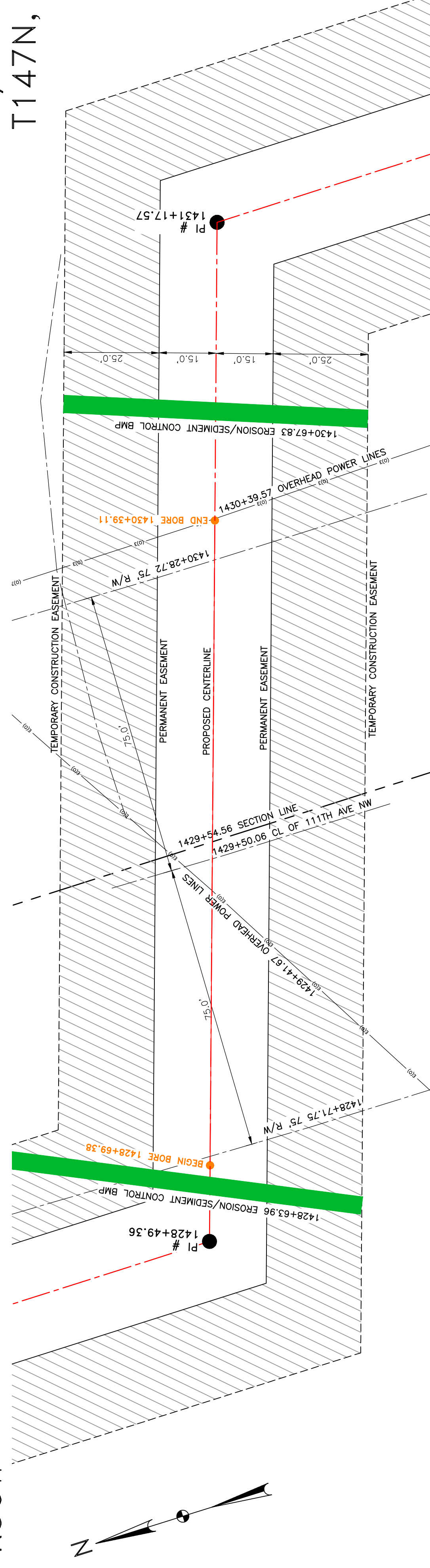
— PROPOSED PIPE

1" = 20'
0 10' 20'
feet

BOE PIPELINE PHASE II
111TH AVE NW CROSSING BORE #54
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 SE1/4, SEC. 28,
 T147N, R96W

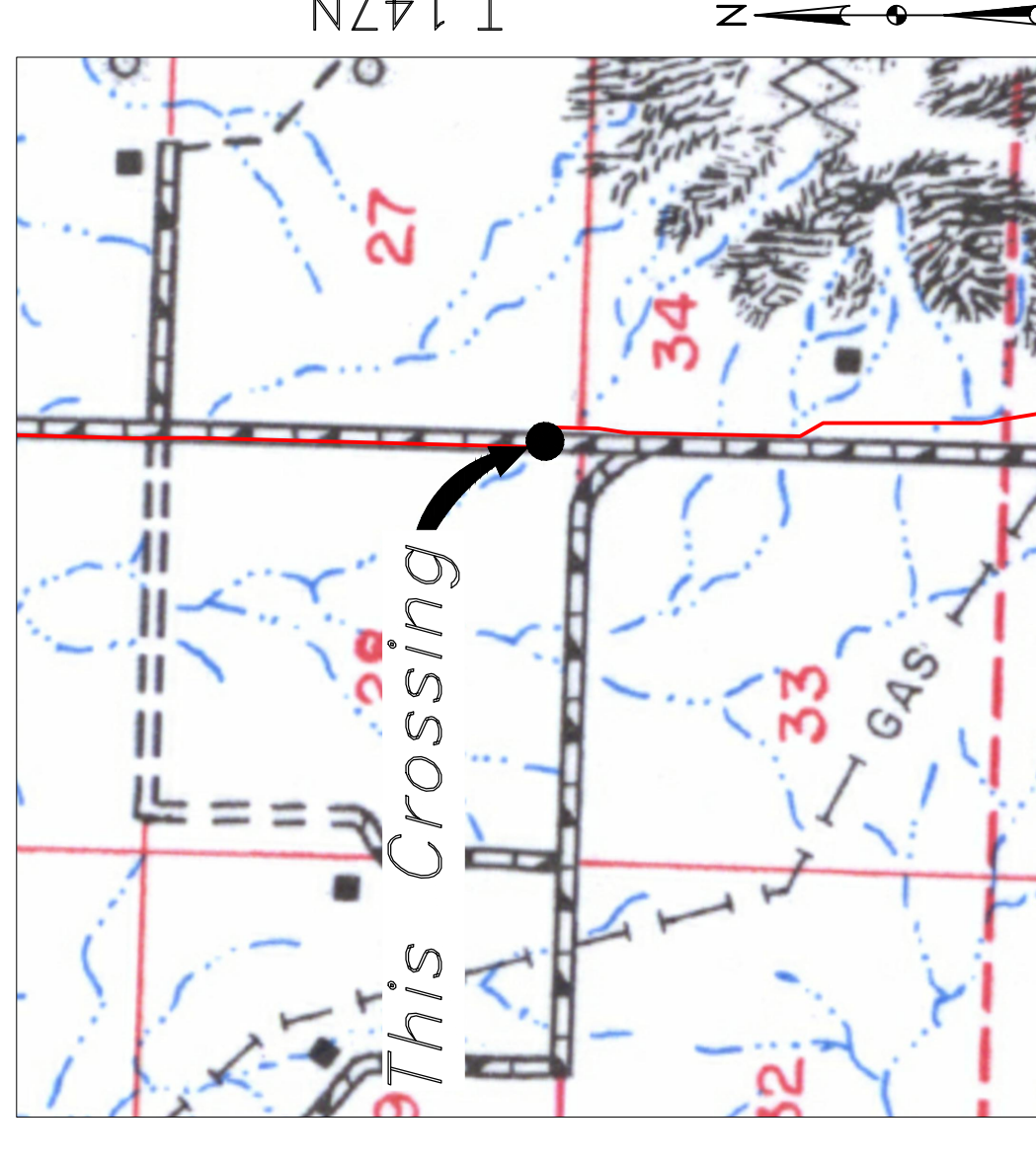
DUNN COUNTY
 SW1/4, SEC. 27,
 T147N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1428+69.38	47°31'03.79" N	102°54'29.14" W
END BORE	1430+39.11	47°31'03.03" N	102°54'25.70" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 169.73 FT.
 TOTAL BORE LENGTH = 169.8 FT.



Location Map

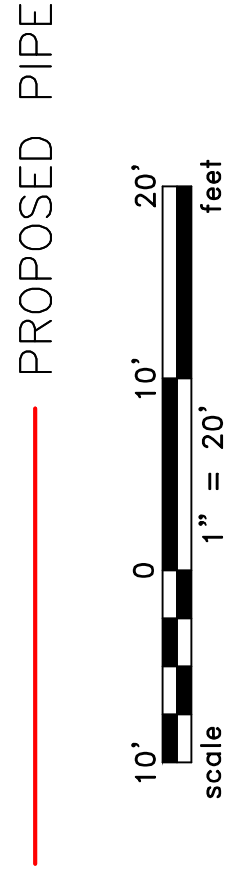


Aerial Map

NOTE:
 1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

—	PROPERTY LINE	—	* EXISTING FENCE
---	SECTION LINE		AVOIDANCE AREA
---	RIGHT OF WAY		FIBER OPTIC COM. LINE
---	WATER LINE		ROAD
---	EXISTING PIPELINE		ELECTRIC
---	UNDERGROUND COM. LINE		UTILITY POLE
			PROPOSED BORE
			EROSION/SEDIMENT CONTROL BMP
			MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	170'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

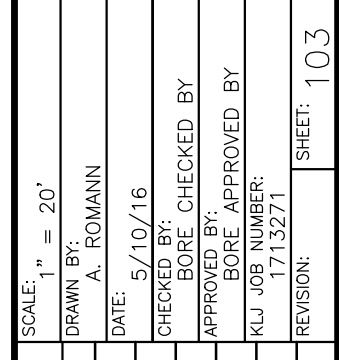
REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'

DRAWN BY: A. ROMANN
 DATE: 5/10/16
 CHECKED BY:
 APPROVED BY:
 BORE APPROVED BY:
 REVISION: 103

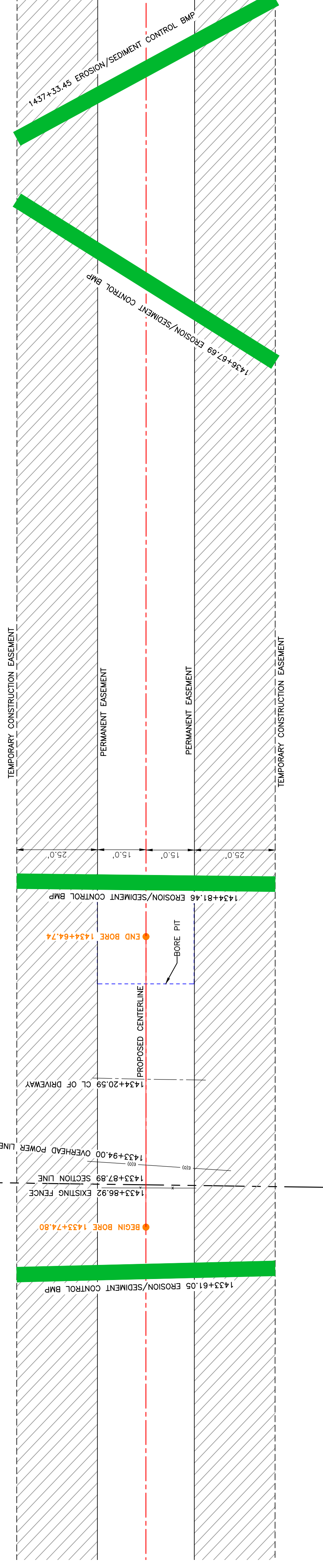
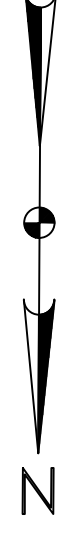
BOE PIPELINE PHASE II
 111TH AVE NW CROSSING BORE #54
 SECTIONS 27 & 28, T147N, R96W, DUNN COUNTY, NORTH DAKOTA



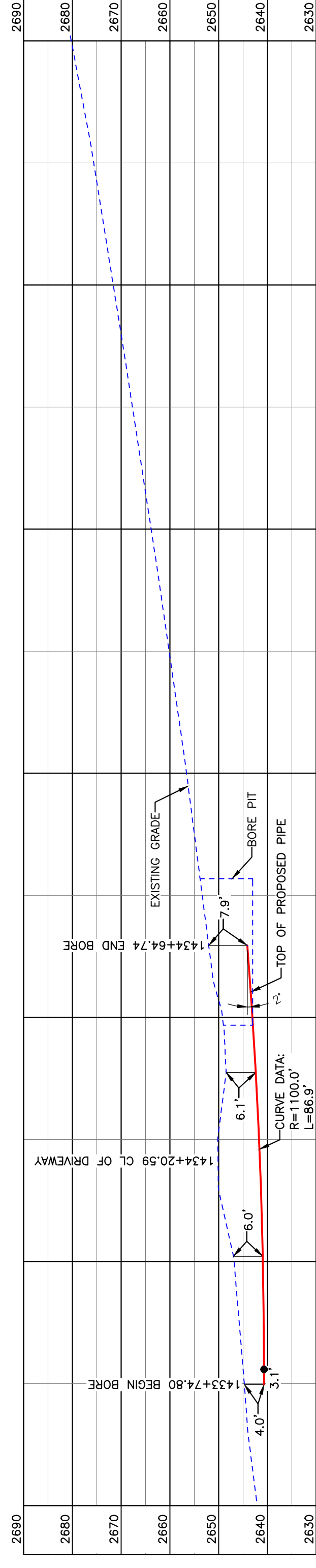
BOE PIPELINE PHASE II DRIVEWAY CROSSING BORE #55 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 33,
T147N, R96W

DUNN COUNTY
NW1/4, SEC. 34,
T147N, R96W



BORE DESIGN



PULLBACK AREA

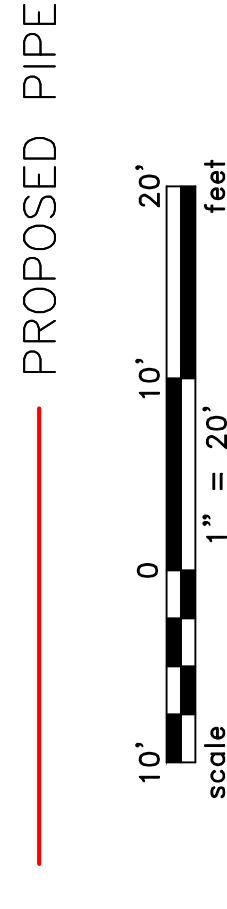
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1433+74.80	47°31'00.50" N	102°54'25.68" W
END BORE	1434+64.74	47°30'59.61" N	102°54'25.67" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 89.94 FT.
TOTAL BORE LENGTH = 90.0 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

	PROPERTY LINE		EXISTING FENCE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE		WETLAND
	GRADE CENTERLINE		UTILITY POLE		EASEMENT
	WATER LINE		PROPOSED BORE		VALVE SETTING
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP		MARKER POST
	UNDERGROUND COM. LINE				

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	90'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

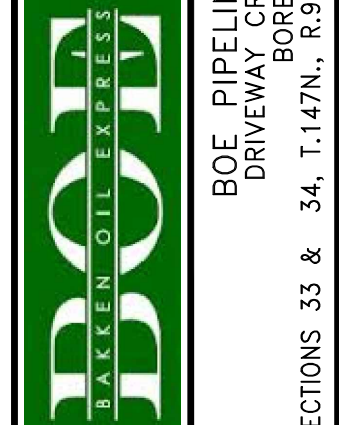
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

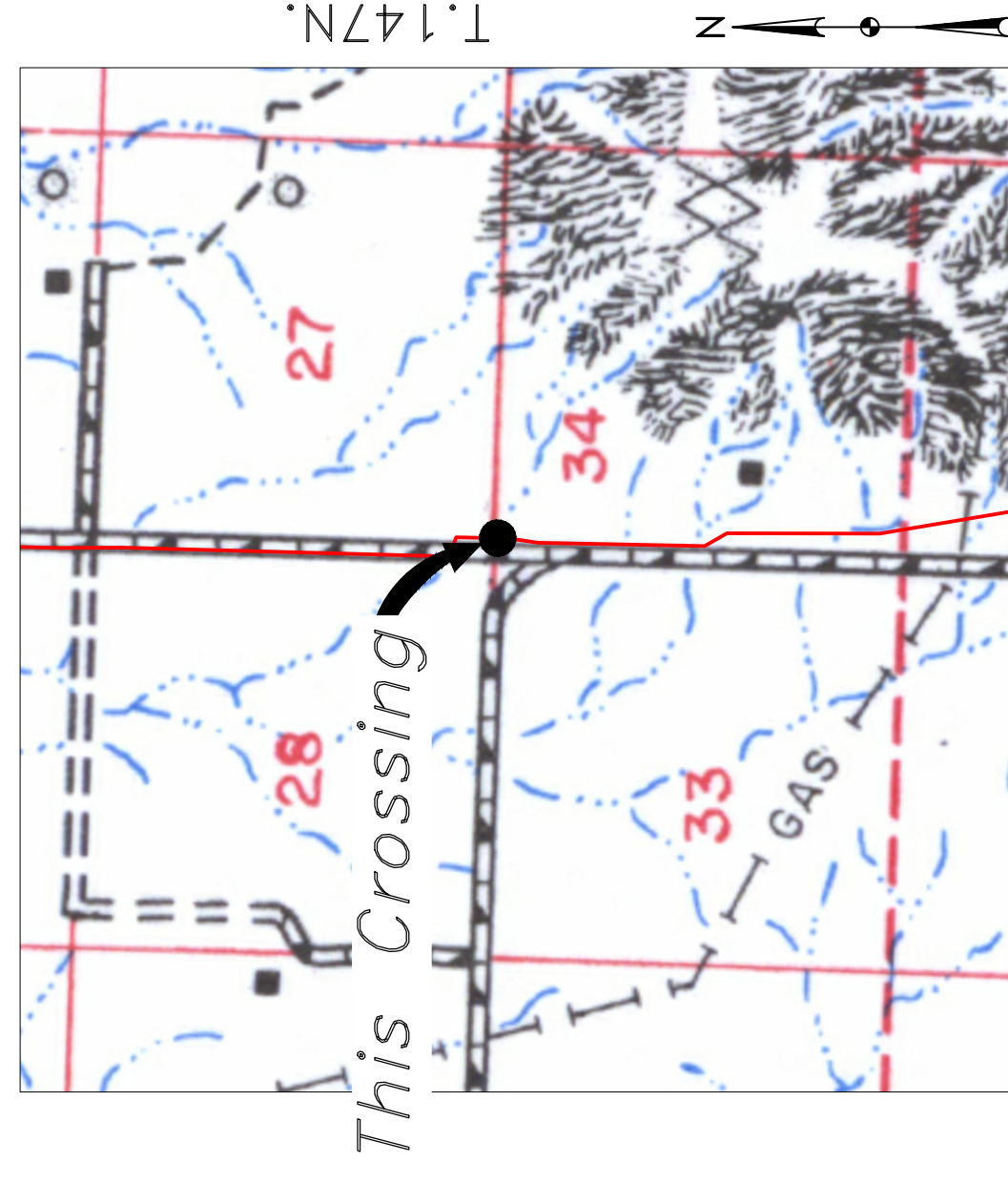
REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'
DRAWN BY: A. ROMANN
DATE: 5/10/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
REVISION:
SHEET: 104



BAKKEN OIL EXPRESS
EXPRESS PIPELINE
BOE PIPELINE PHASE II
DRIVEWAY CROSSING BORE #55
SECTIONS 33 & 34, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA



Location Map

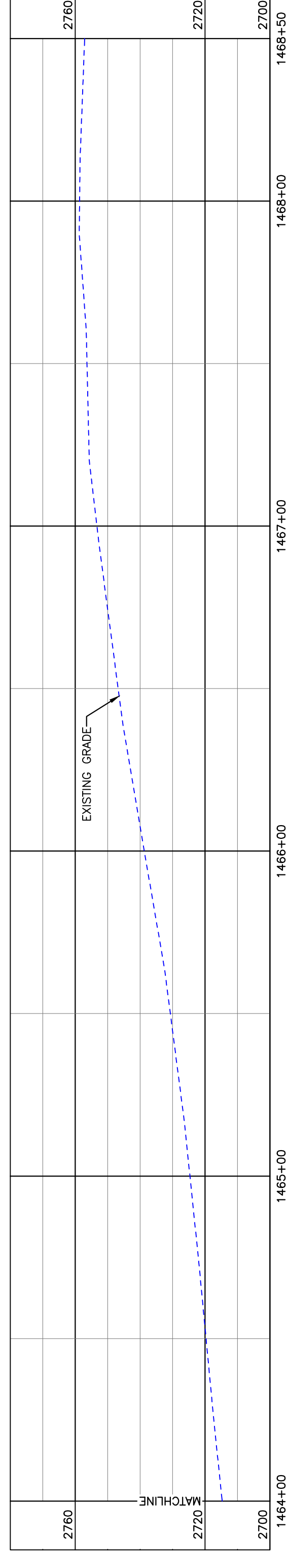
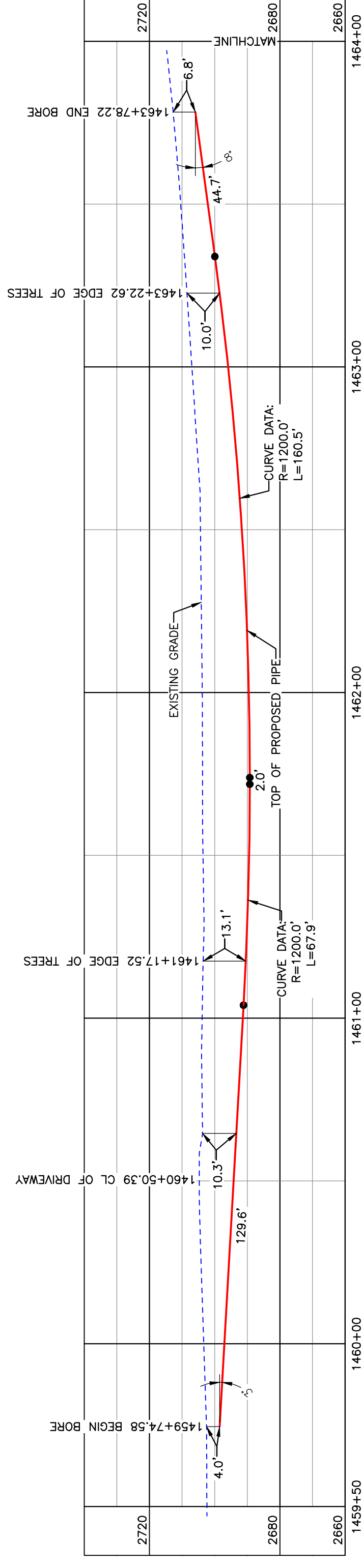
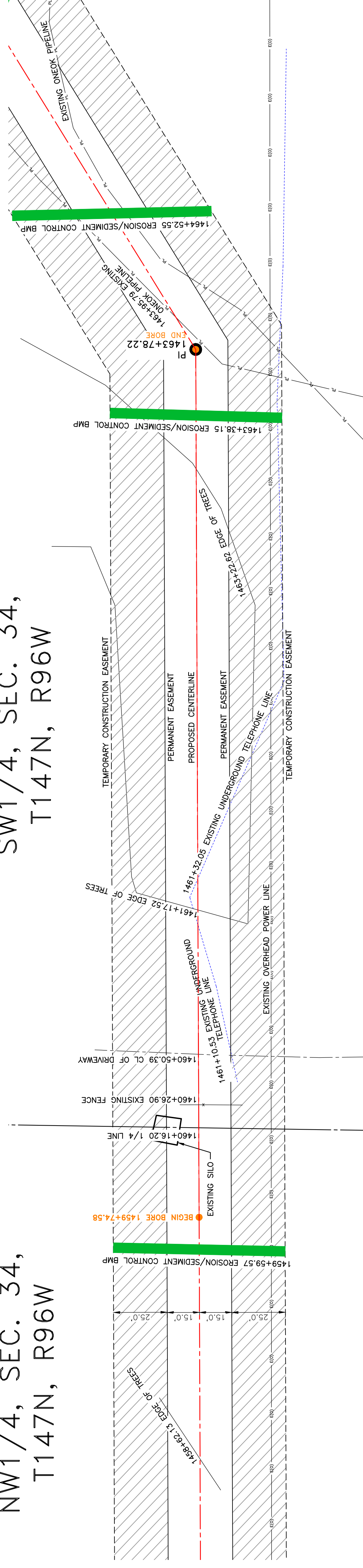


Aerial Map

BOE PIPELINE PHASE II DRIVEWAY CROSSING BORE #57 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 34,
T147N, R96W

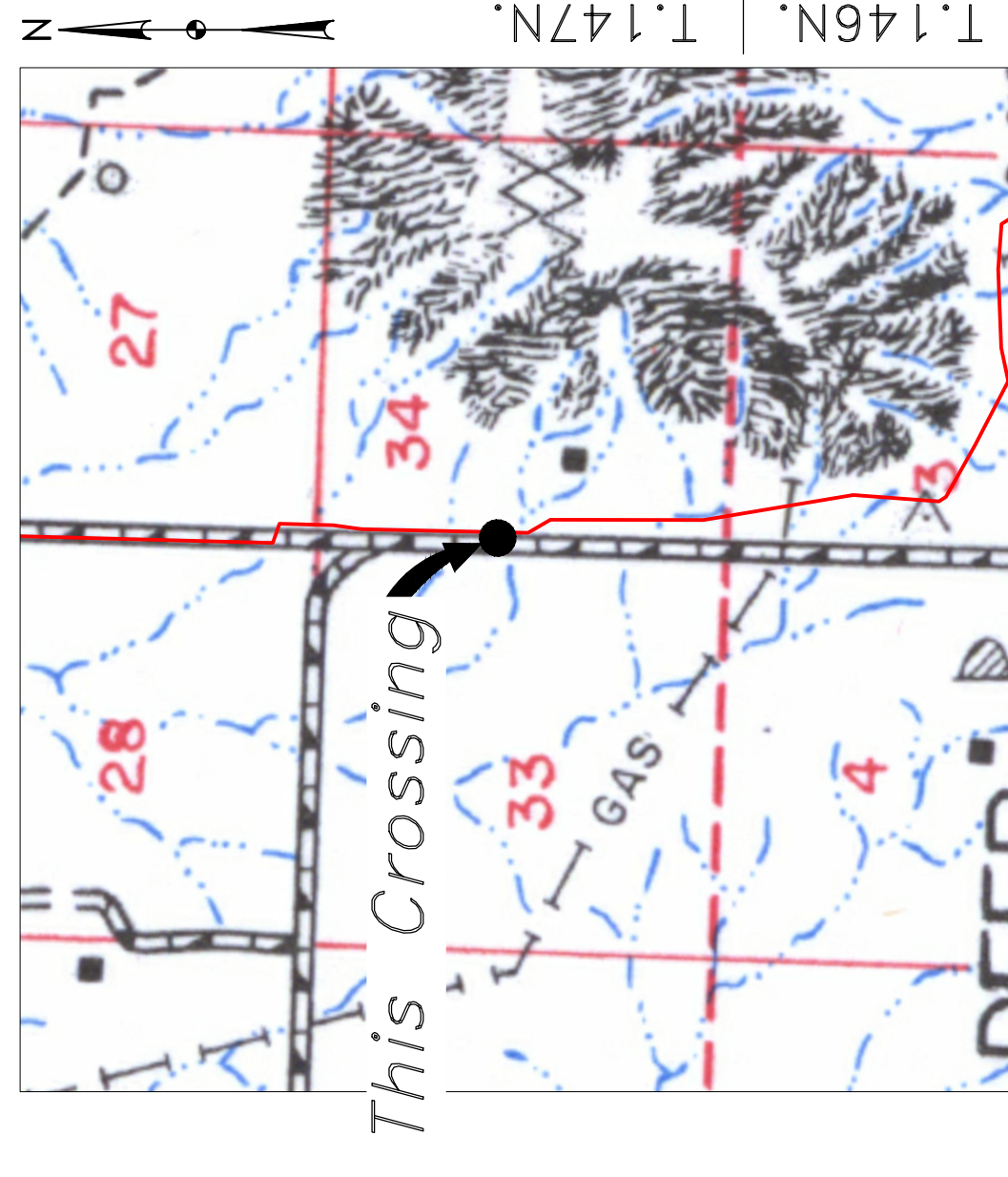
DUNN COUNTY
SW1/4, SEC. 34,
T147N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1459+74.58	47°30'34.86" N	102°54'26.02" W
END BORE	1463+78.22	47°30'30.88" N	102°54'25.97" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 358.04 FT.
TOTAL BORE LENGTH = 358.4 FT.



Location Map

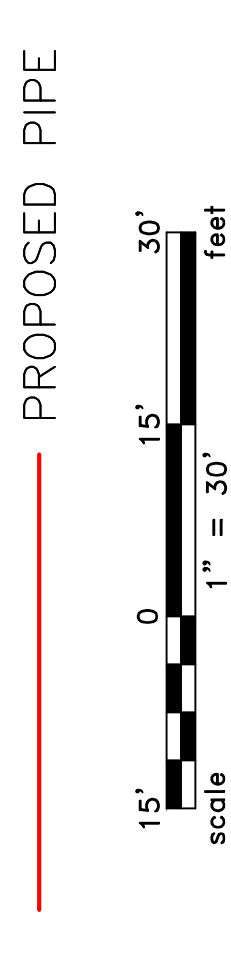


Aerial Map

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND	
	PROPERTY LINE
	SECTION LINE
	FIBER OPTIC COM. LINE
	ROAD
	EASEMENT
	WATER LINE
	UTILITY POLE
	PROPOSED BORE
	EROSION CONTROL BMP
	UNDERGROUND COM. LINE
	MARKER POST
	AVOIDANCE AREA
	WETLAND
	ELECTRIC EASEMENT
	VALVE SETTING

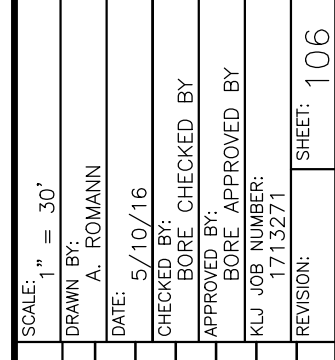
MATERIAL SUMMARY	
MK. NO.	2
QTY.	358'
DESCRIPTION	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS	
DWG. NO.	
DESCRIPTION	

REVISIONS	
NO.	
DATE	
DESCRIPTION	

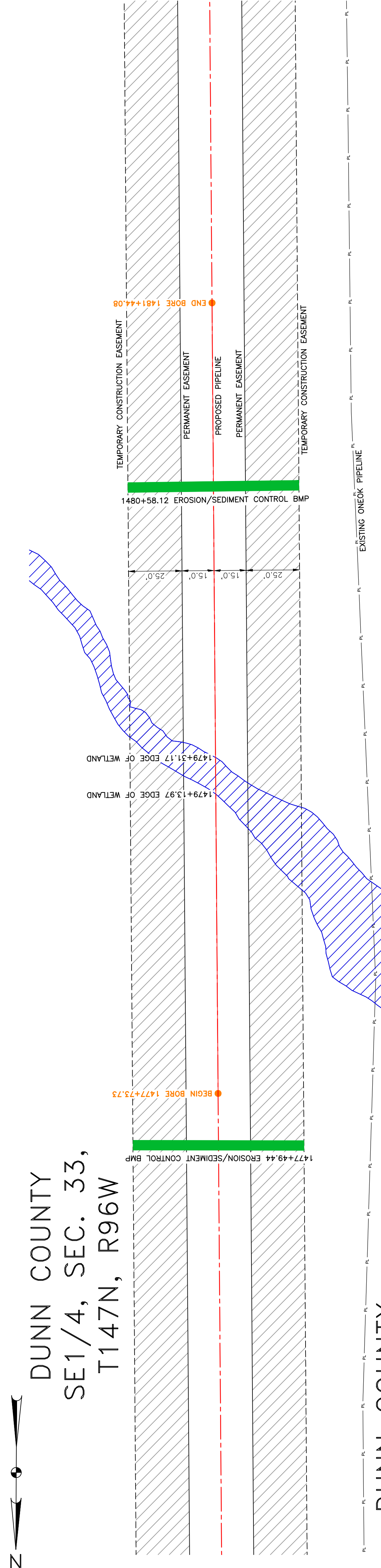
SCALE: 1" = 30'	
DRAWN BY: A. ROMANN	
DATE: 5/10/16	
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	
KLJ JUL 17, 2017	
REVISION:	
SHEET: 106	

BOE PIPELINE PHASE II	
DRIVEWAY CROSSING BORE #57	
SECTION 34, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA	

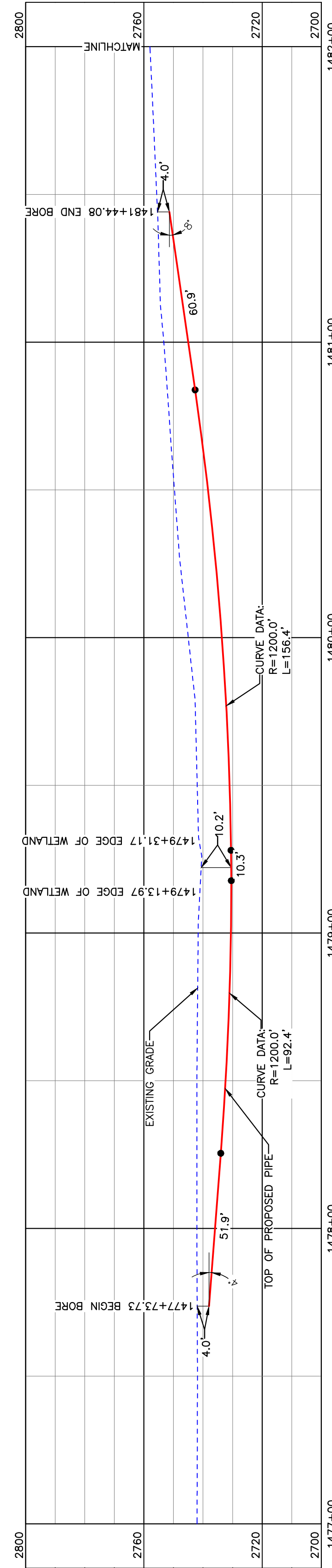


BAKKEN OIL EXPRESS
BAKKEN OIL EXPRESS PIPELINE

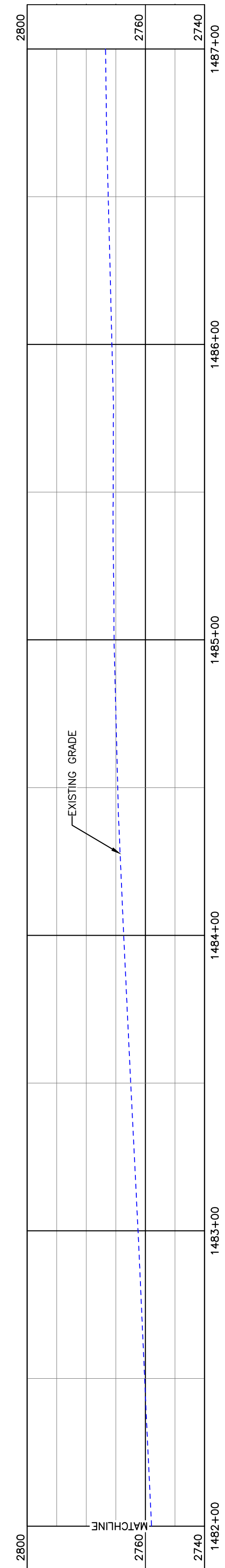
BOE PIPELINE PHASE II WETLAND CROSSING BORE #58 DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
SW1/4, SEC. 34,
T147N, R96W



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1477+73.73	47°30'17.62" N	102°54'22.91" W
END BORE	1481+44.08	47°30'13.97" N	102°54'22.75" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 370.35 FT.
TOTAL BORE LENGTH = 371.9 FT.

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	EASEMENT		ROAD
	WETLAND		ELECTRIC UTILITY POLE
	WATER LINE		PROPOSED BORE
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	372'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

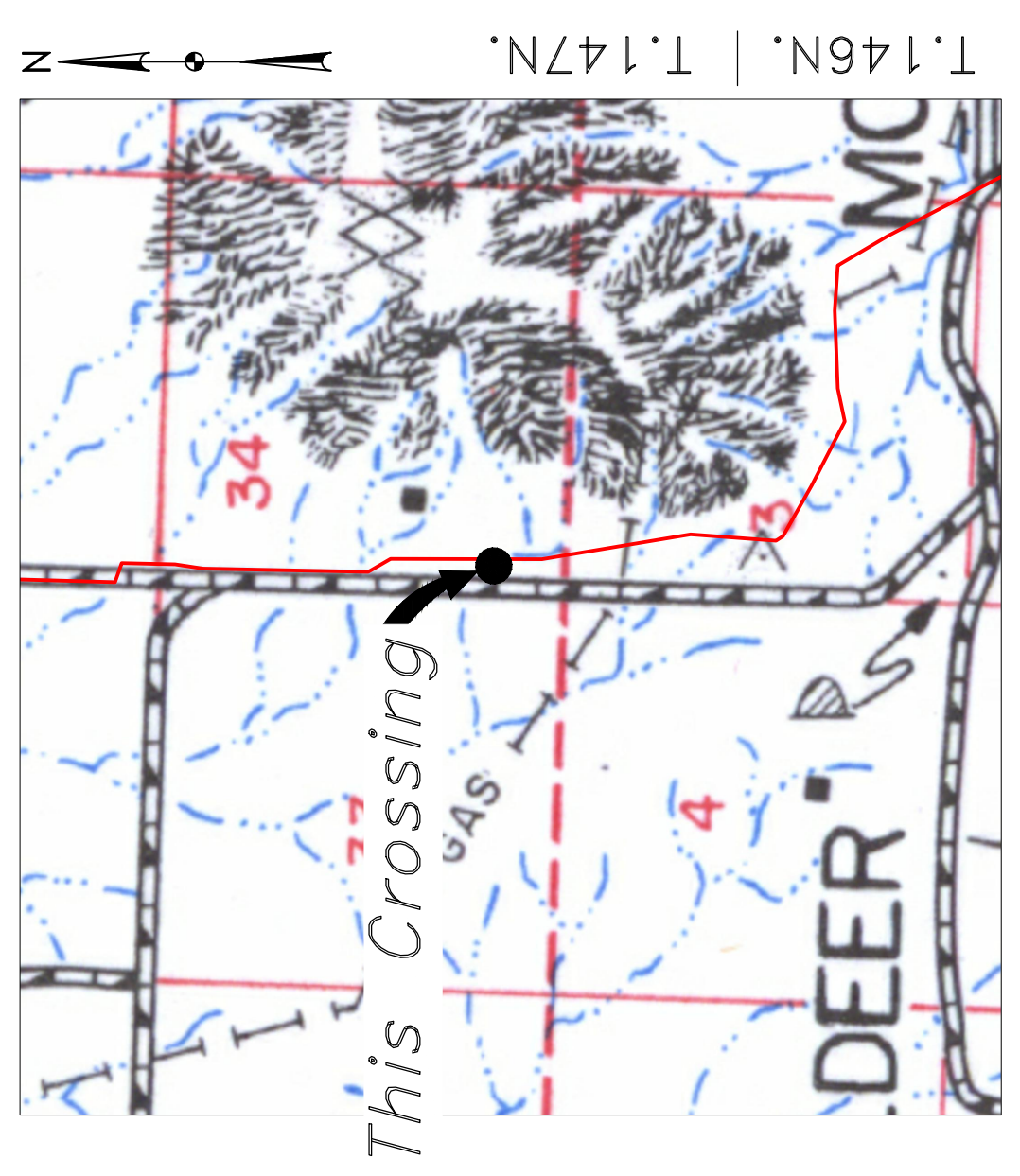
REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #58
SECTION 34, T.147N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS PIPELINE

KLJ
1855 Columbia Street
Bismarck, ND 58503
© KLJ 2016



Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

— PROPOSED PIPE

15'

0

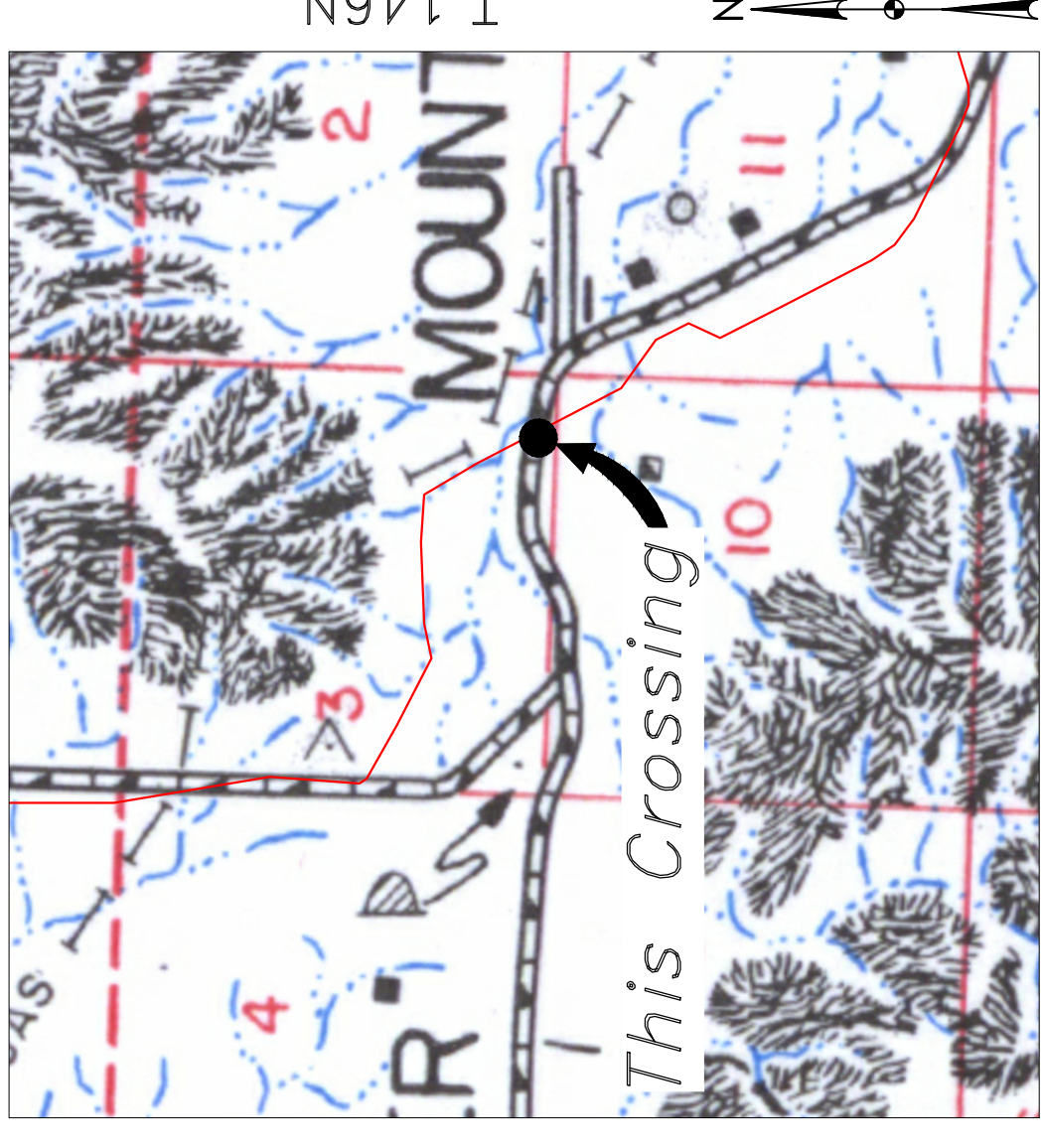
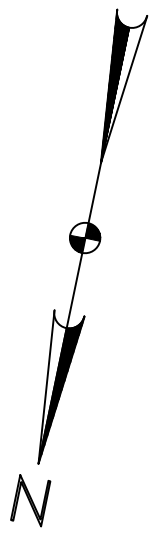
15'

30'

Scale
1" = 30'
feet

BOE PIPELINE PHASE II NORTHERN BORDER PIPELINE CROSSING BORE #59 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 3,
T146N, R96W



Location Map



PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 1.4-16 MILs FBE, 30-35 MILs ARO

LEGEND

— PROPOSED PIPE

10' 0' 10' 20'
 scale
 1" = 20' feet

BOE
 BAKKEN OIL EXPRESS

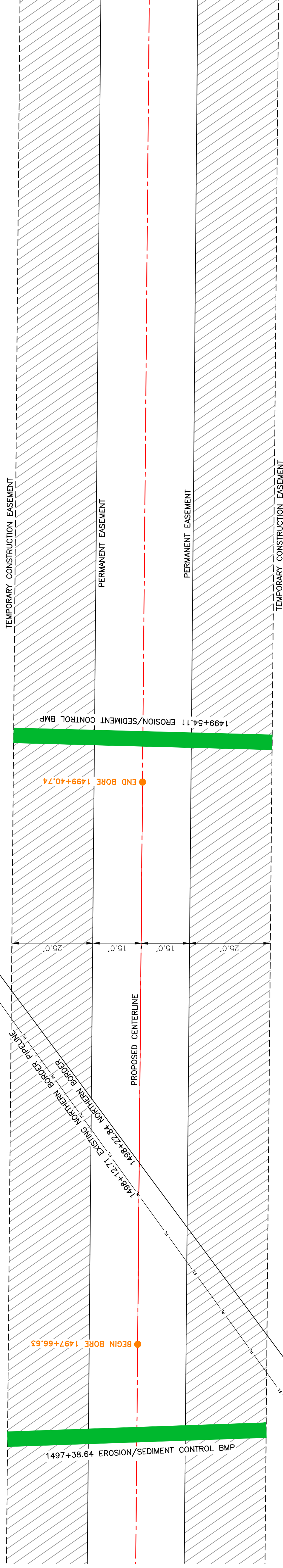
BAKKEN OIL EXPRESS PIPELINE

KLJ

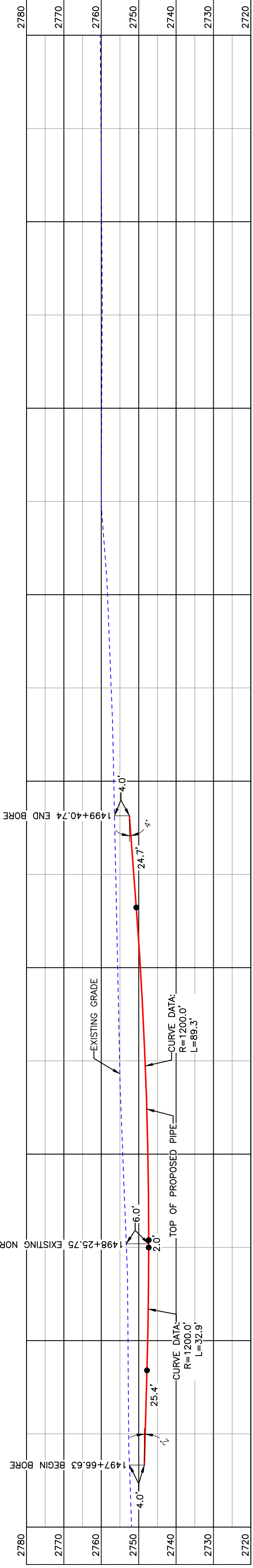
1555 Columbia Street
 Bismarck, ND 58503

BOE PIPELINE PHASE II
 EXISTING BORE #59
 CROSSING

SECTION 3, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA



BORE DESIGN



TOTAL HORIZONTAL DISTANCE = 174.11 FT.
 TOTAL BORE LENGTH = 174.3 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1497+66.63	47°29'58.15" N	102°54'19.54" W
END BORE	1499+40.74	47°29'56.47" N	102°54'19.04" W

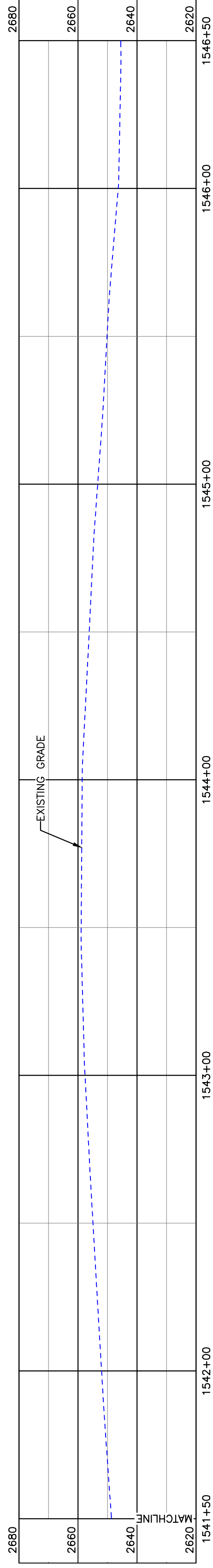
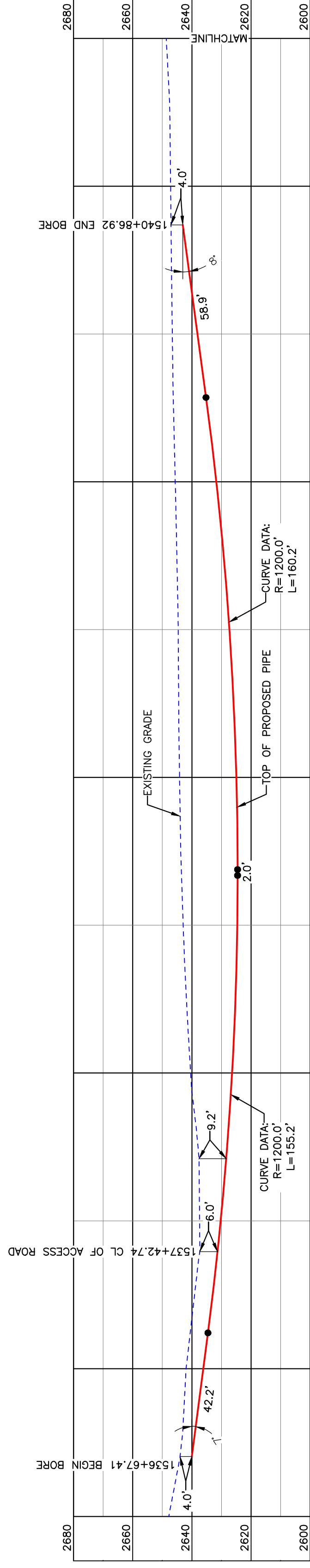
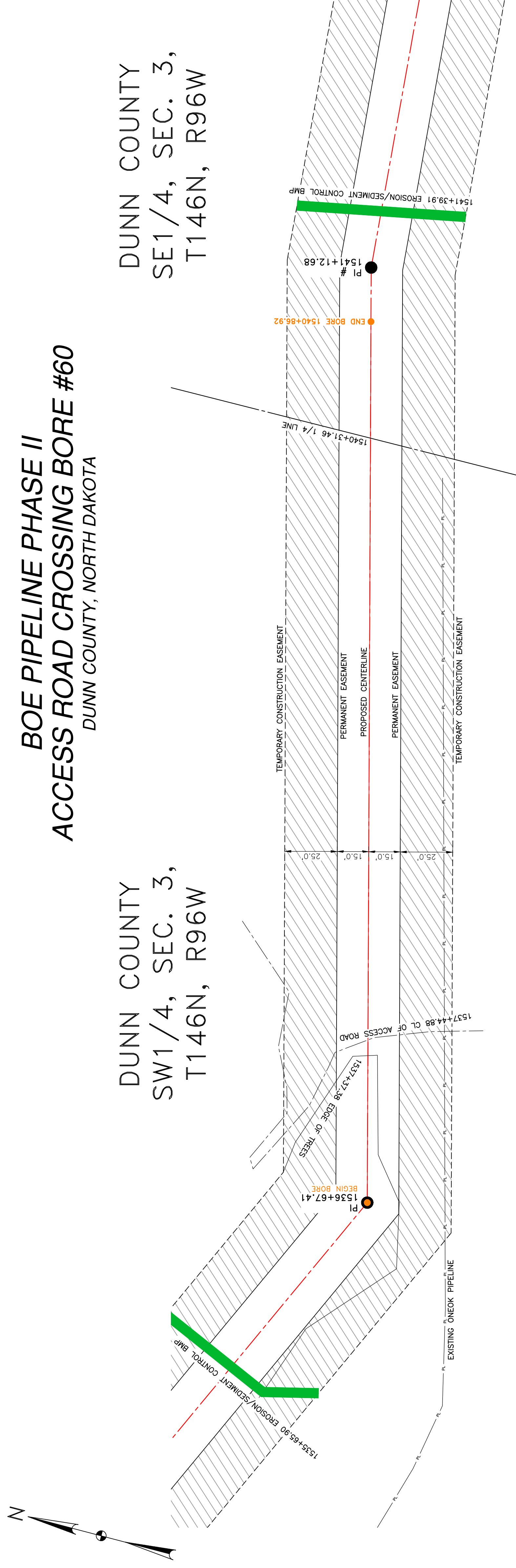
LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
—	PROPERTY LINE	—	EXISTING FENCE	DWG. NO.	DESCRIPTION	NO.	DATE
- - -	SECTION LINE		FIBER OPTIC COM. LINE				
---	RAILROAD		WETLAND EASEMENT				
---	RAILROAD CENTERLINE		UTILITY POLE EASEMENT				
---	WATER LINE		PROPOSED BORE EROSION/SEDIMENT CONTROL BMP				
---	WATER LINE CENTERLINE		MARKER POST				
---	EXISTING PIPELINE						
---	EXISTING ROAD						
---	UNDERGROUND COM. LINE						

BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #60

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 3,
T146N, R96W

DUNN COUNTY
SE1/4, SEC. 3,
T146N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1536+67.41	47°29'29.42" N	102°53'54.26" W
END BORE	1540+86.92	47°29'30.40" N	102°53'48.32" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 416.65 FT.
TOTAL BORE LENGTH = 418.5 FT.

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	EASEMENT		WETLAND
	RIGHT OF WAY		ELECTRIC EASEMENT
	WATER LINE		UTILITY POLE
	PROPOSED PIPELINE		PROPOSED BORE
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	419'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'
DRAWN BY: A. ROMANN
DATE: 2/17/16
CHECKED BY: []
APPROVED BY: []
BOE APPROVED BY: []
KLJ JOB # 1713271
REVISION: []
SHEET: 109

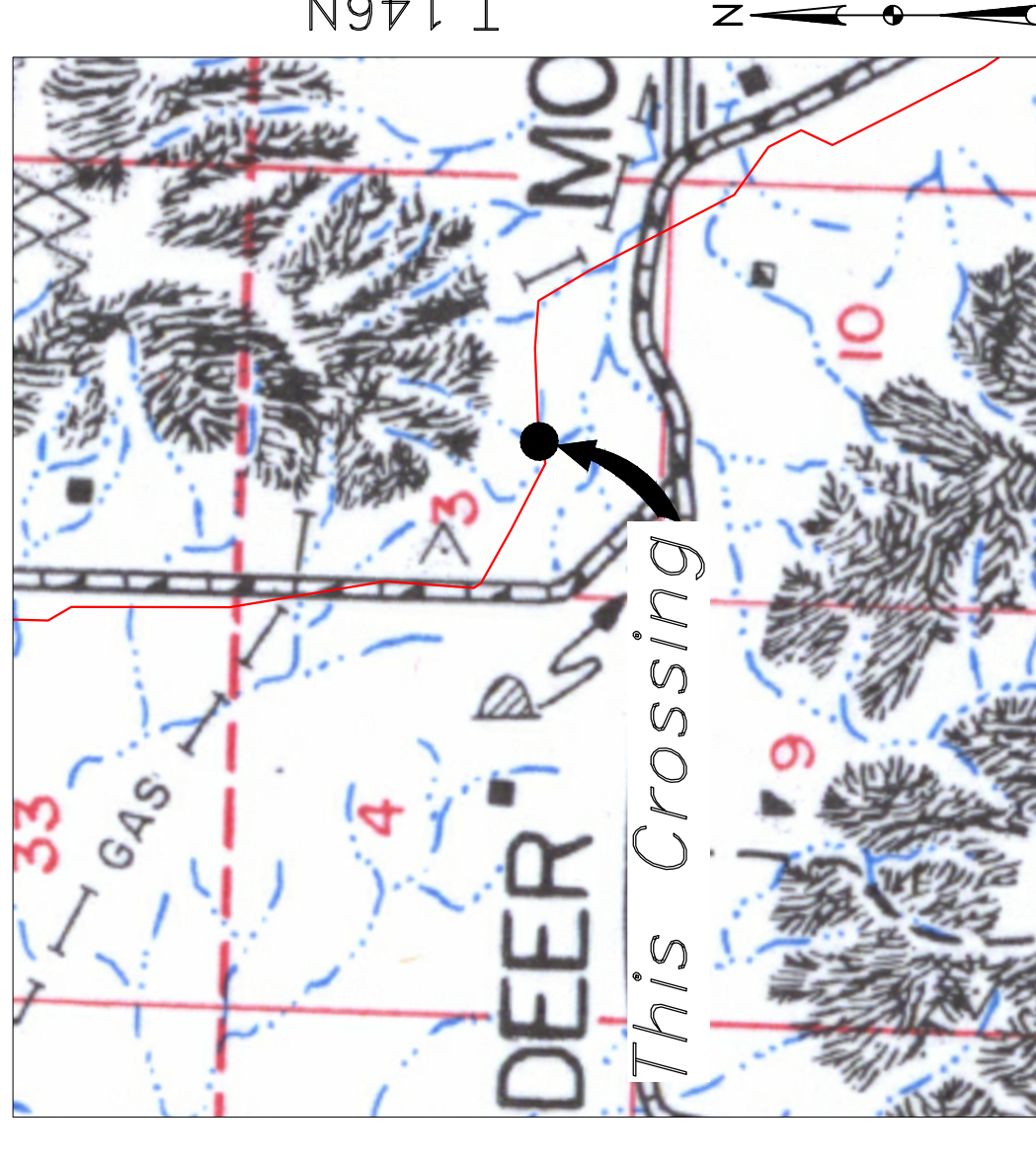
BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #60
SECTION 3, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS EXPRESS PIPELINE
--

KLJ

1555 Columbia Street Bismarck, ND 58503
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Location Map

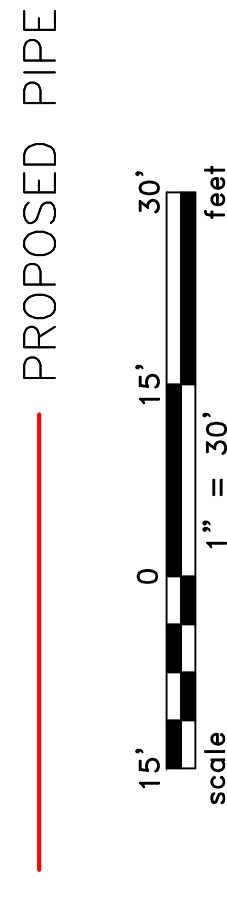


Aerial Map

PULLBACK AREA

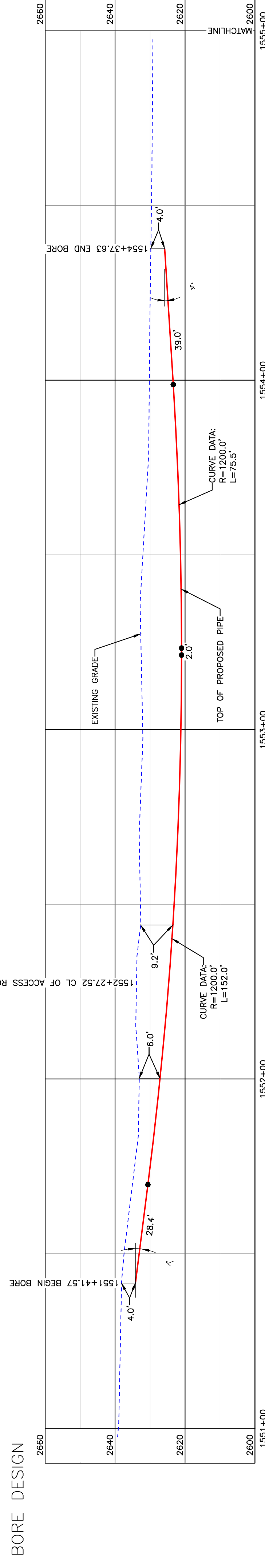
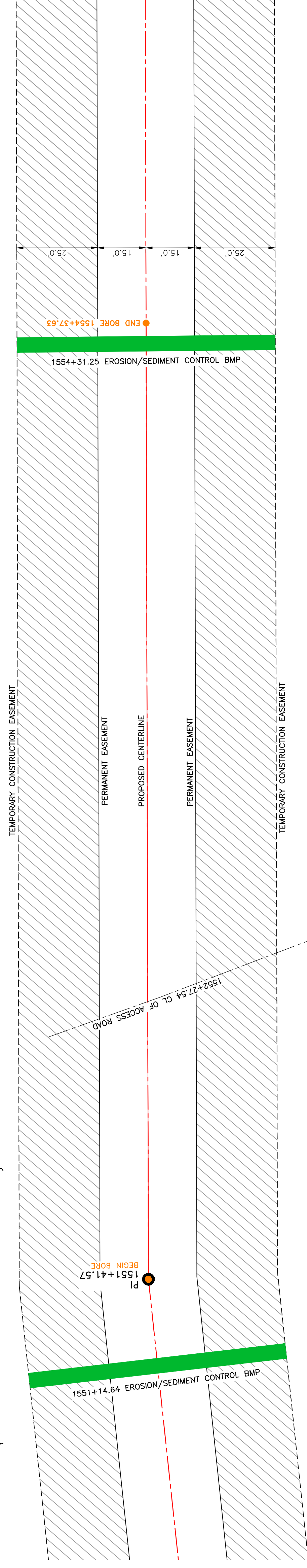
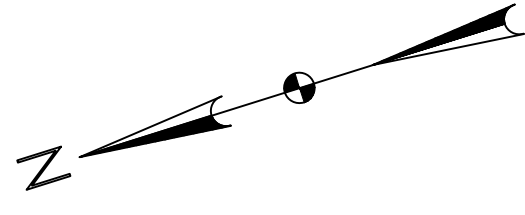
PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

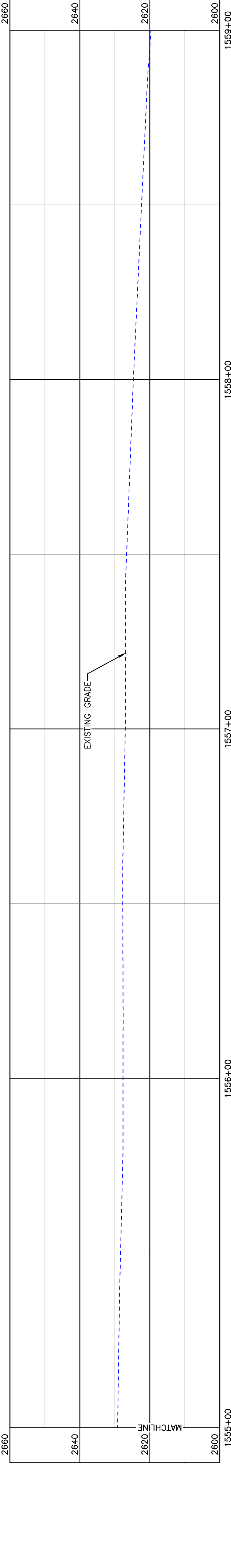


BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #61 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 3,
T146N, R96W



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1551+41.57	47°29'31.14" N	102°53'33.01" W
END BORE	1554+37.63	47°29'31.03" N	102°53'28.70" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 296.06 FT.
TOTAL BORE LENGTH = 296.9 FT.



R.96W.

Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE

10' = 20' feet

MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
2	297'		16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO		

PROPERTY LINE	EXISTING FENCE	AVOIDANCE AREA	LEGEND
---	-*		EXISTING PIPELINE
---	-*		WETLAND EASEMENT
---	-*		PROPOSED BORE
---	-*		EROSION/SEDIMENT CONTROL BMP
---	-*		MARKER POST

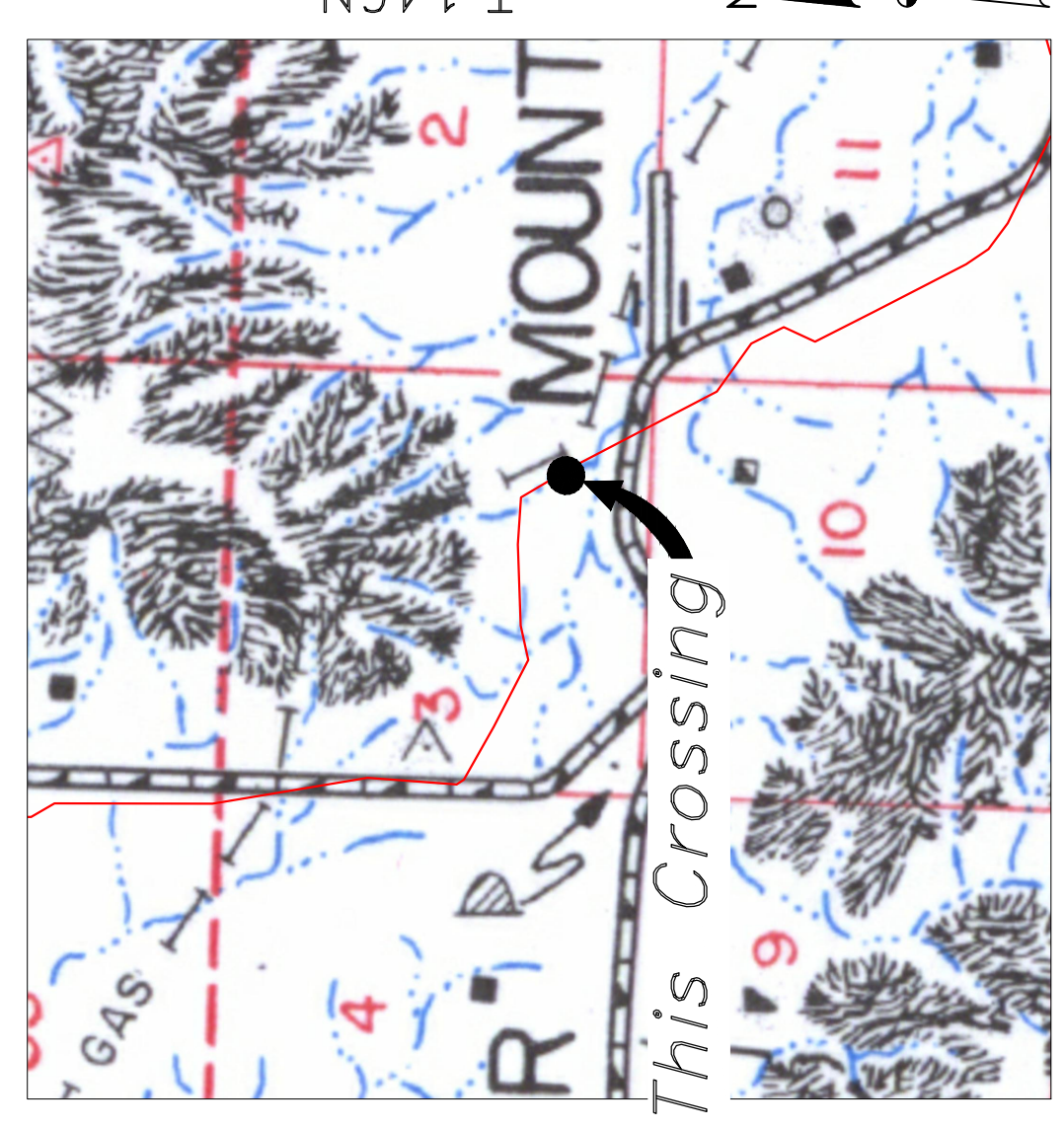
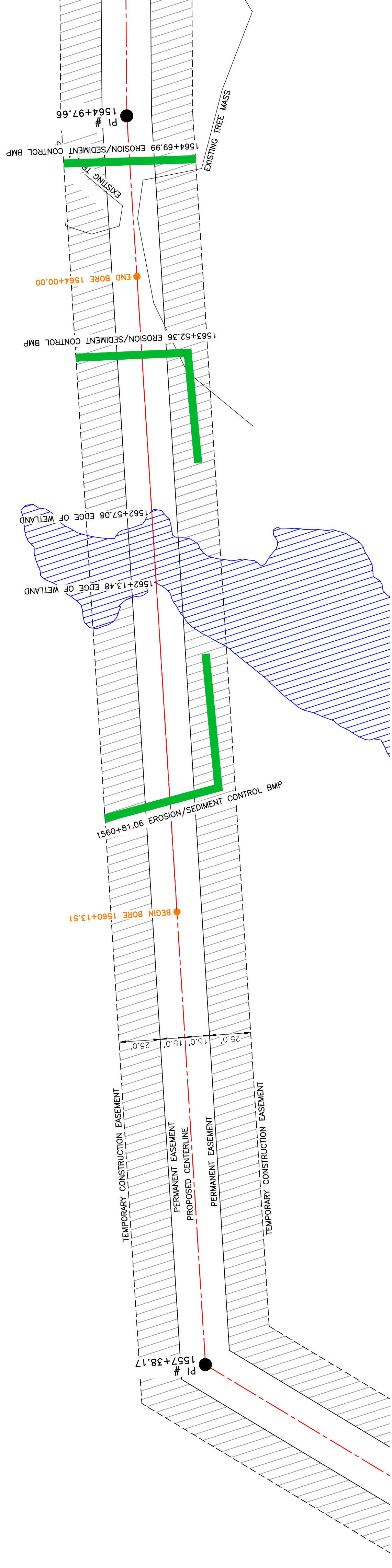
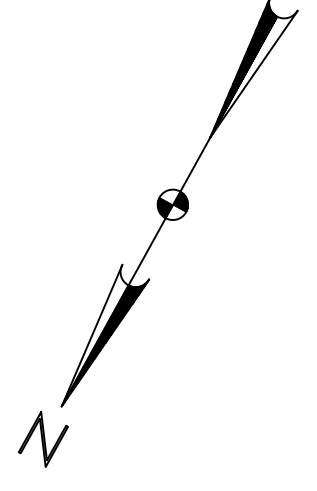
SCALE:	1" = 20'
DRAWN BY:	A. ROMANN
DATE:	2/17/16
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	
KLJ JOB NO.:	1713271
REVISION:	
SHEET:	110

BOE PIPELINE PHASE II	BAKKEN OIL EXPRESS	BAKKEN OIL EXPRESS PIPELINE
ACCESS ROAD CROSSING BORE #61		
SECTION 3, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA		

1555 Columbia Street
Bismarck, ND 58503

DUNN COUNTY
SE1/4, SEC. 3,
T146N, R96W

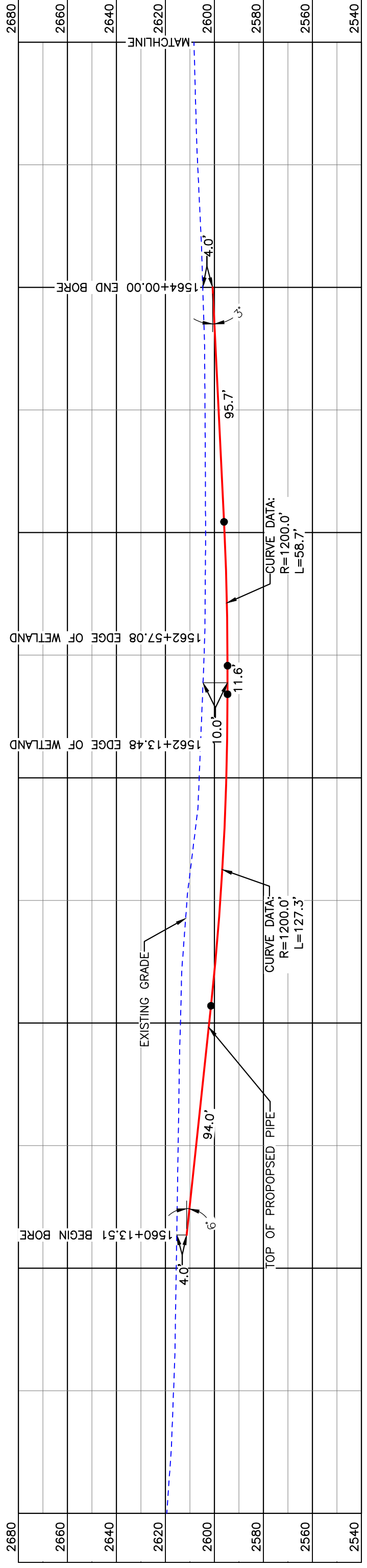
**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #62**
DUNN COUNTY, NORTH DAKOTA



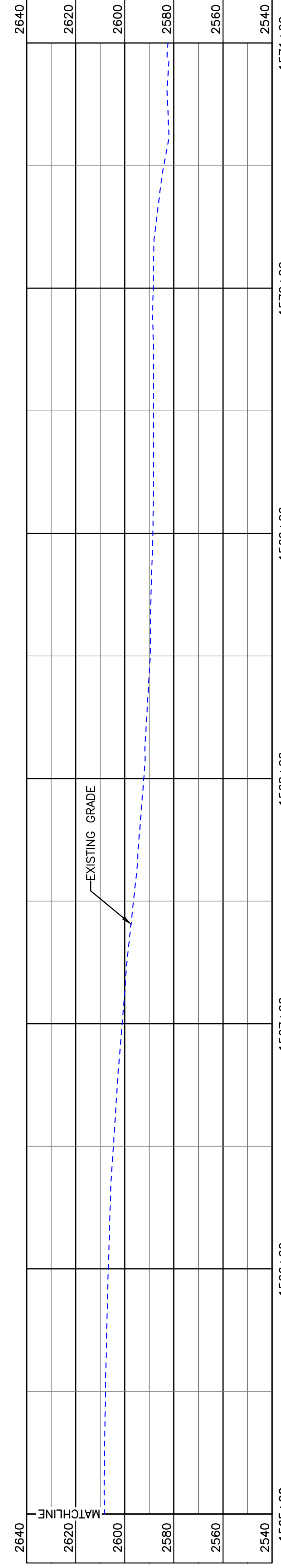
Location Map



Aerial Map



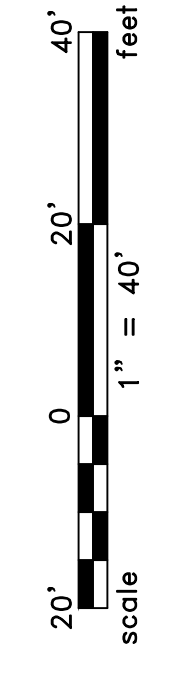
BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1560+13.51	47°29'28.63" N	102°53'22.18" W
END BORE	1564+00.00	47°29'25.41" N	102°53'19.15" W

PRELIMINARY



TOTAL HORIZONTAL DISTANCE = 386.49 FT.
TOTAL BORE LENGTH = 387.30 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND
— PROPOSED PIPE

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	GRADE LINE	—	RAILROAD
—	WATER LINE	—	UTILITY POLE
—	FOREIGN PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST
—	AVOIDANCE AREA	—	WETLAND EASEMENT
—	PERMANENT EASEMENT	—	UTILITY POLE
—	PROPOSED CENTERLINE	—	EROSION/SEDIMENT CONTROL BMP
—	TEMPORARY CONSTRUCTION EASEMENT	—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	388'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #62**
SECTIONS 3 T146N, R96W, DUNN COUNTY, NORTH DAKOTA

BOE
B A K K E N O I L E X P R E S S

KLJ
K L J
1555 Columbia Street
Bismarck, ND 58503
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REVISIONS

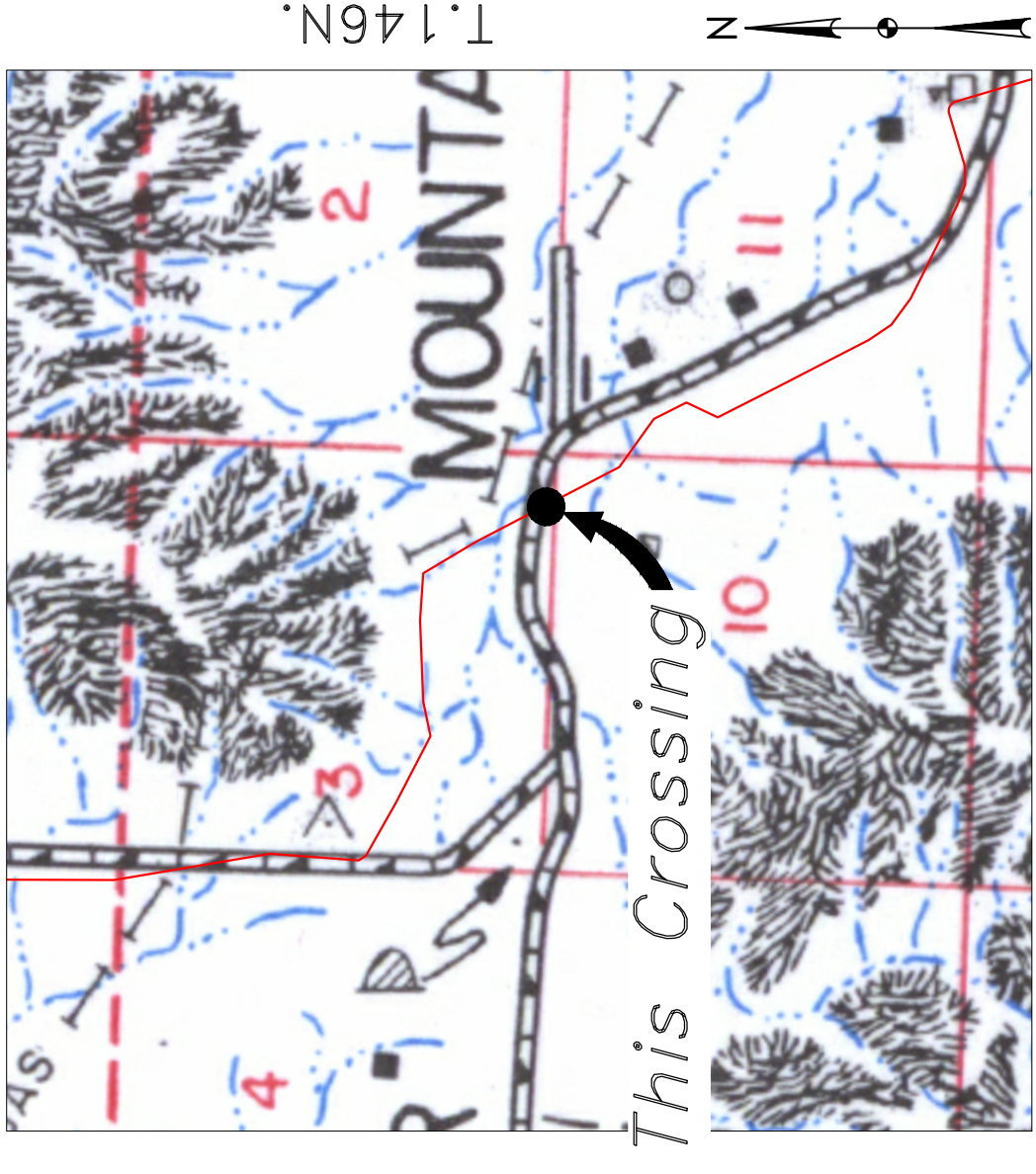
NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
5TH ST NW CROSSING BORE #63
 DUNN COUNTY, NORTH DAKOTA

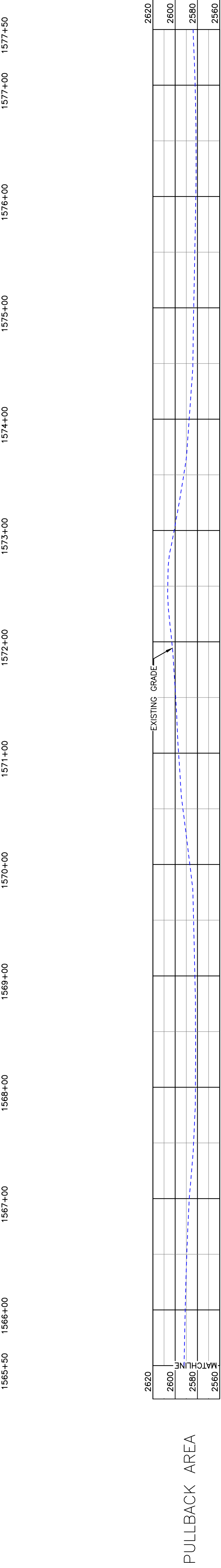
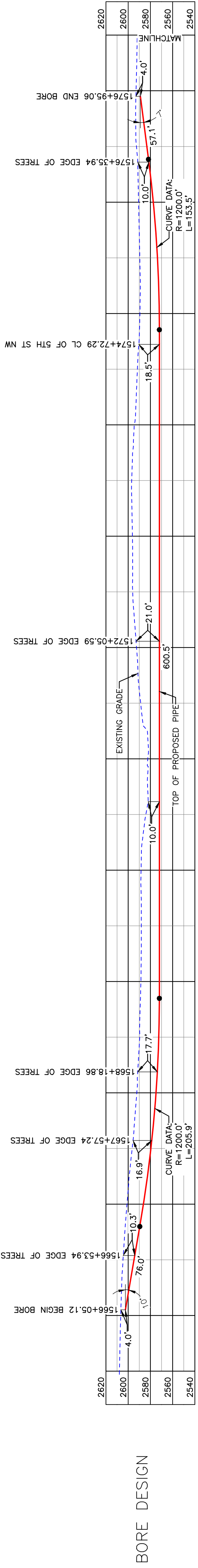
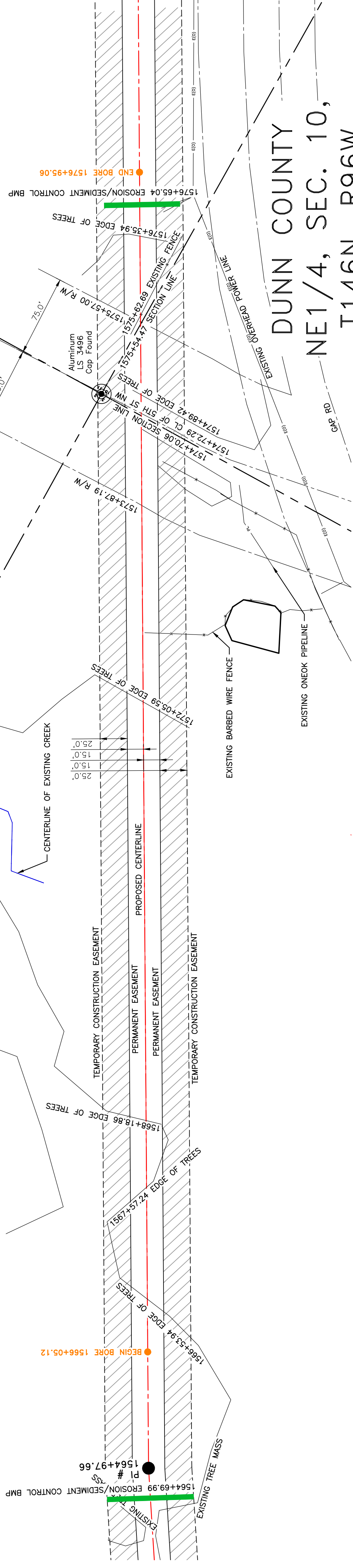
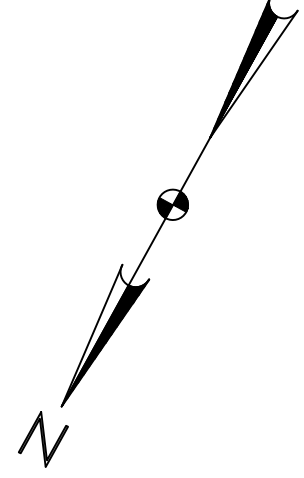
DUNN COUNTY
 SE1/4, SEC. 3,
 T146N, R96W

DUNN COUNTY
 SW1/4, SEC. 12,
 T146N, R96W

DUNN COUNTY
 NW1/4, SEC. 11,
 T146N, R96W

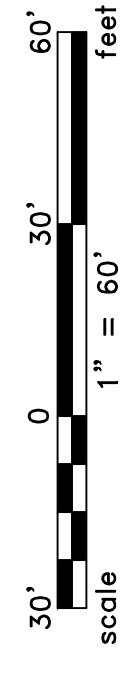


R.96W.
 Location Map



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1566+05.12	47°29'23.67" N	102°53'17.62" W
END BORE	1576+95.06	47°29'14.29" N	102°53'09.85" W

PRELIMINARY



TOTAL HORIZONTAL DISTANCE = 1089.94 FT.
 TOTAL BORE LENGTH = 1093.0 FT.

NOTE:
 1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

 PROPOSED PIPE

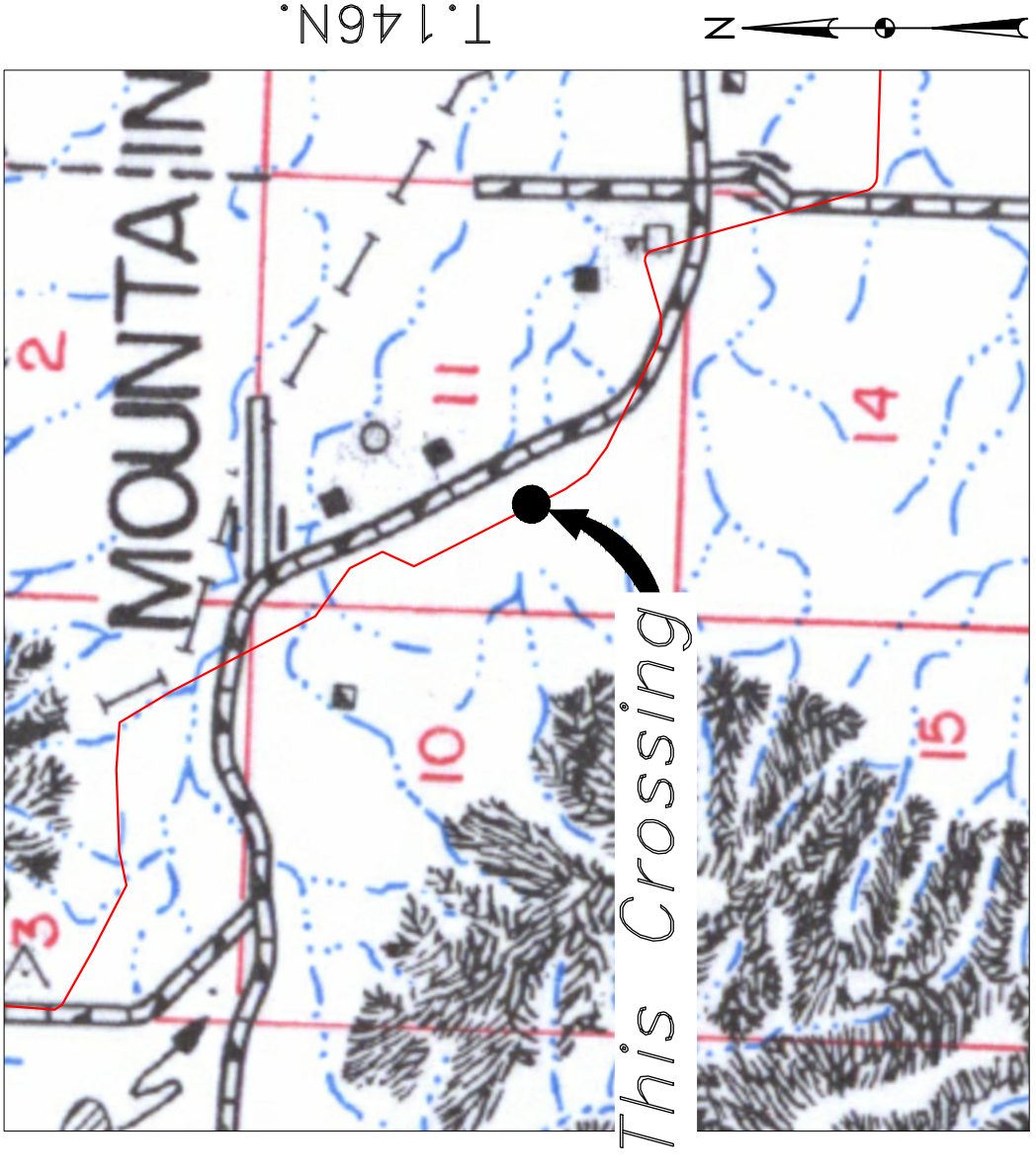
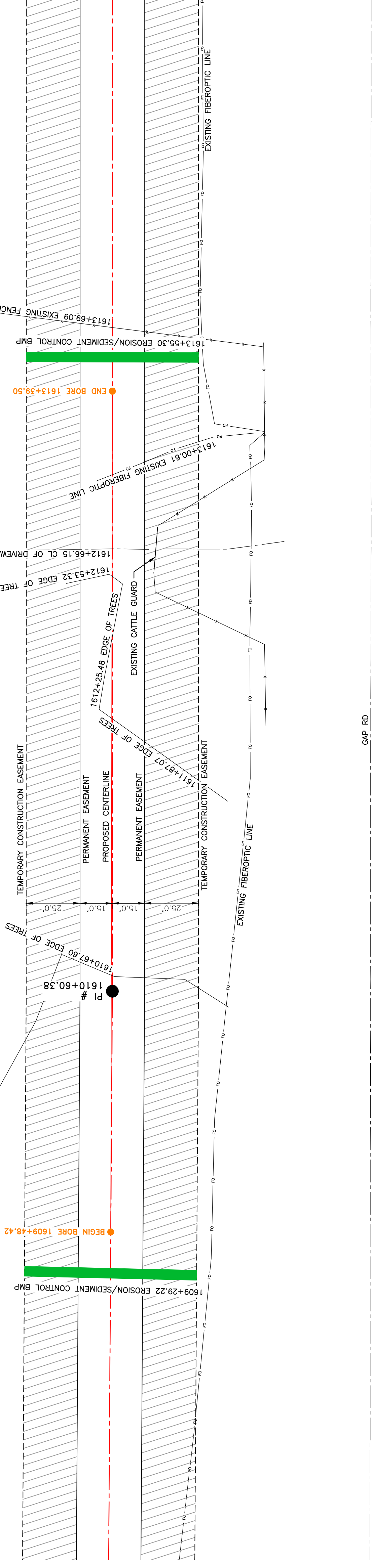
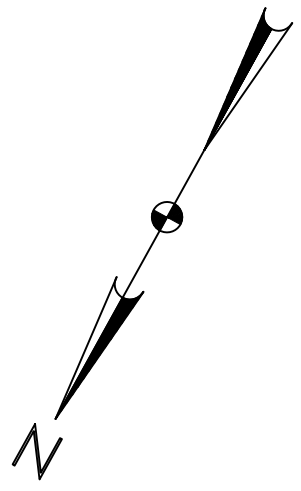
MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
2	1093'		16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO		

BOE PIPELINE PHASE II
 5TH ST NW CROSSING BORE
 SECTIONS 3, 10 & 11, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

KLJ
 1555 Columbia Street
 Bismarck, ND 58503

DUNN COUNTY
SW1/4, SEC. 11,
T146N, R96W

**BOE PIPELINE PHASE II
TREE LINE & DRIVEWAY CROSSING BORE #64**
DUNN COUNTY, NORTH DAKOTA

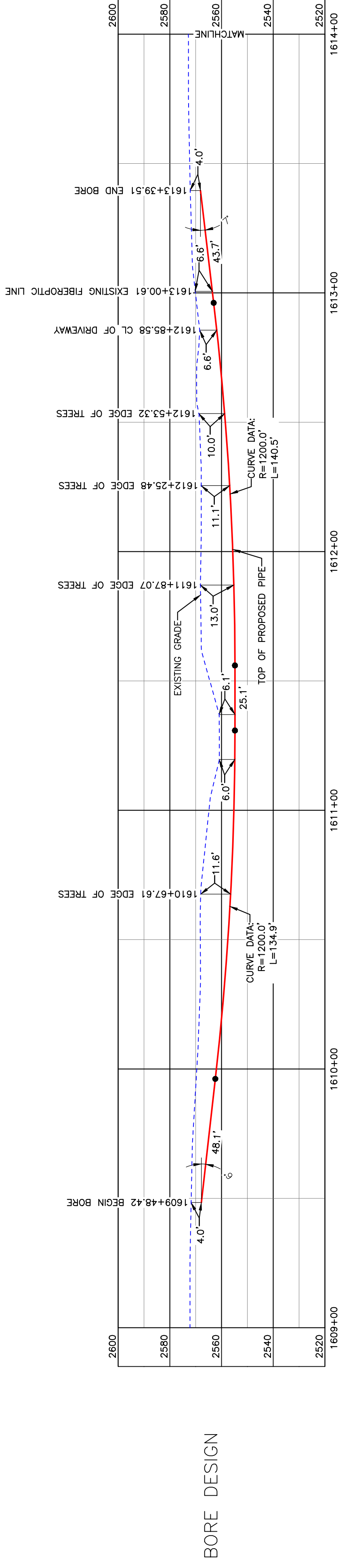


R.96W.

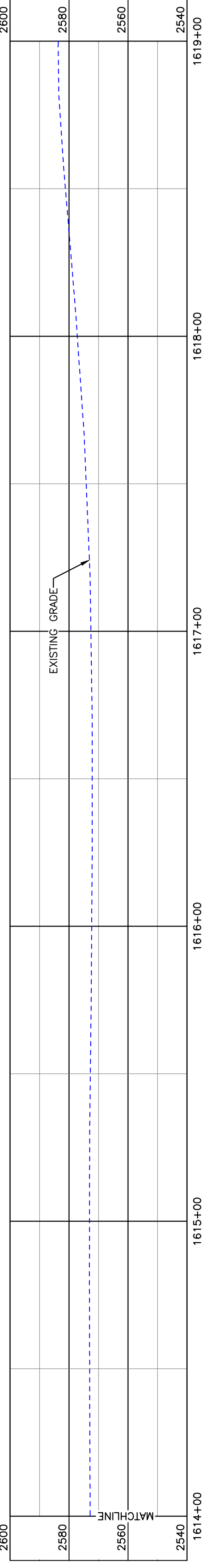
Location Map



Aerial Map



BORE DESIGN



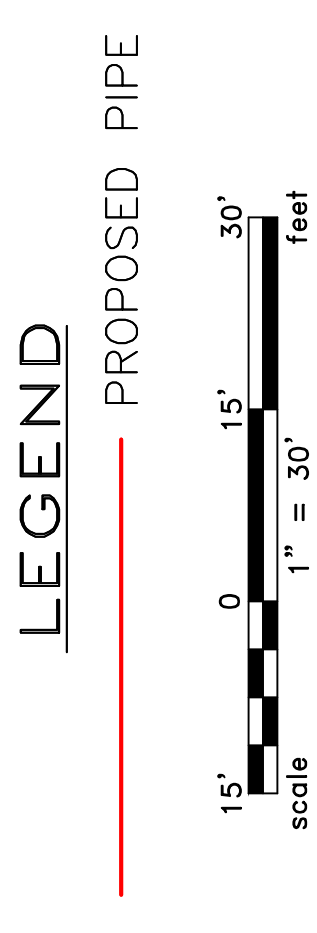
PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1609+48.42	47°28'48.34" N	102°52'48.80" W
END BORE	1613+39.50	47°28'44.96" N	102°52'46.05" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 391.08 FT.
TOTAL BORE LENGTH = 392.3 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
- - -	SECTION LINE		FIBER OPTIC COM. LINE
- · - · -	GRADE CENTERLINE		WETLAND
- · - · -	WATER LINE		EASEMENT
- · - · -	EXISTING PIPELINE		UTILITY POLE
- · - · -	EXISTING ROAD		PROPOSED BORE
- · - · -	UNDERGROUND COM. LINE		EROSION/SEDIMENT CONTROL BMP
			VALVE SETTING
			MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	392'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

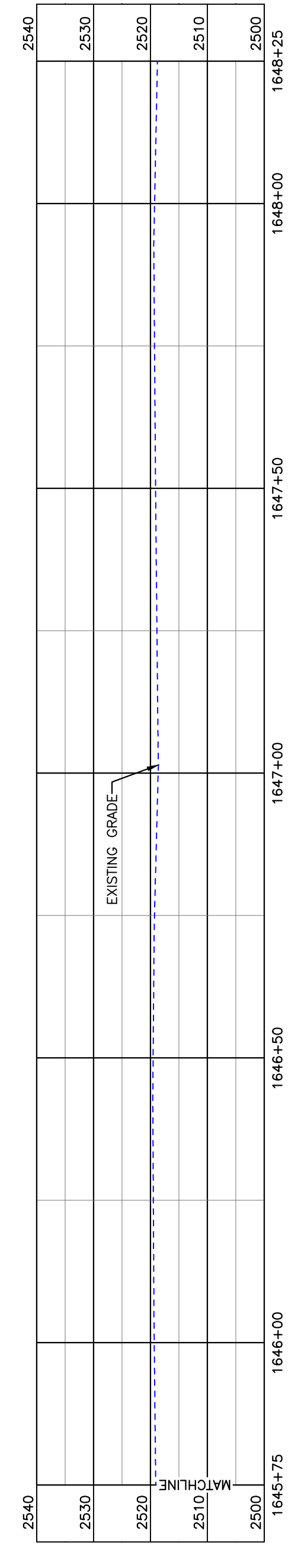
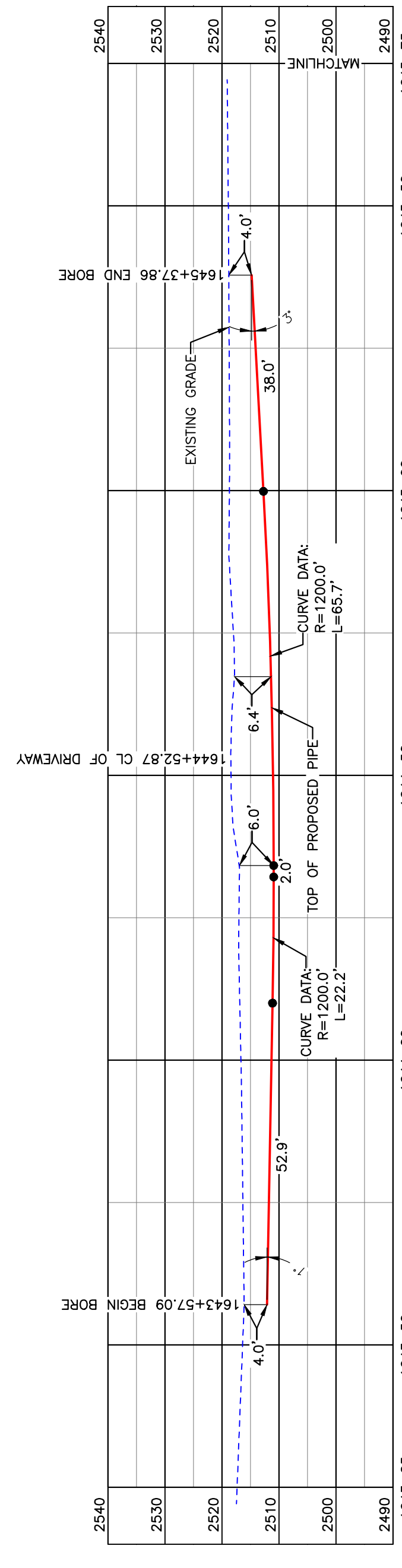
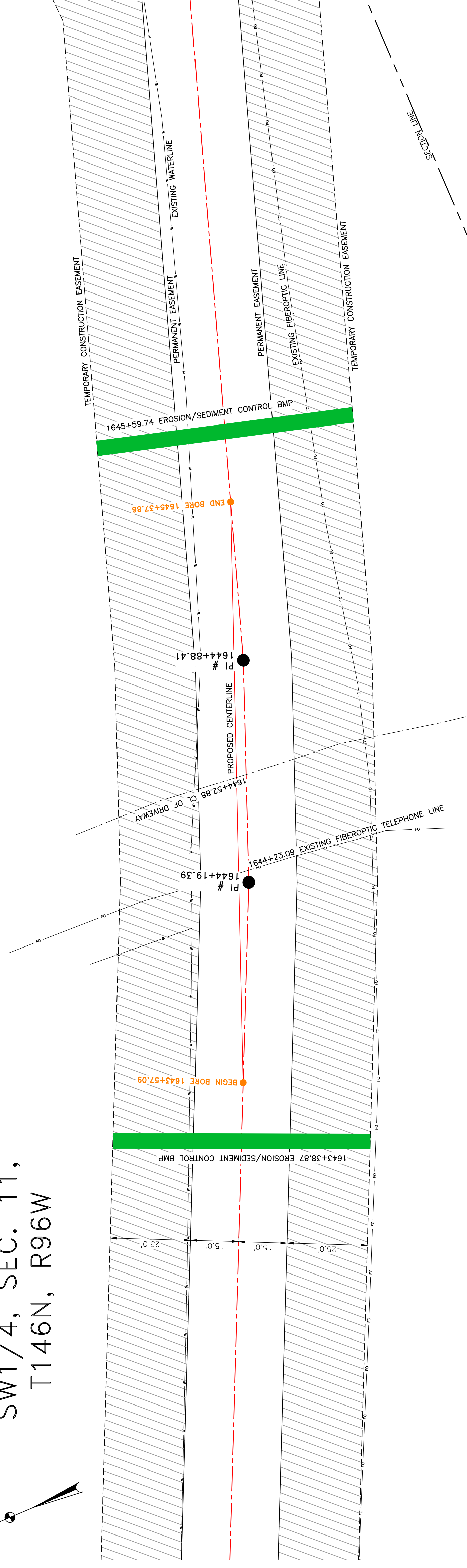
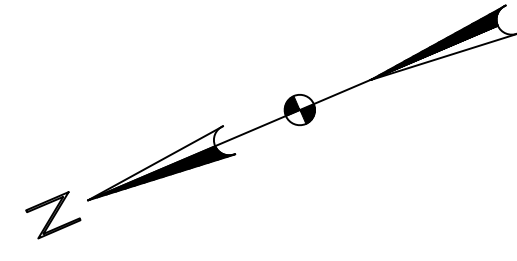
NO.	DATE	DESCRIPTION

**BOE PIPELINE PHASE II
TREE LINE & DRIVEWAY CROSSING BORE #64**
SECTION 11, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

KLJ
Bakken Oil Express
1555 Columbia Street
Bismarck, ND 58503

BOE PIPELINE PHASE II DRIVEWAY CROSSING BORE #65 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 11,
T146N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1643+57.09	47°28'26.02" N	102°52'14.49" W
END BORE	1645+37.86	47°28'25.36" N	102°52'12.05" W

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	RIGHT OF WAY		WETLAND EASEMENT
	WATER LINE		UTILITY POLE
	EXISTING PIPELINE		PROPOSED BORE
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	181'	16" OD, 0.344" W.T. API 5L X70, 14'-16' MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE

SCALE: 1" = 20'
DRAWN BY: A. ROMANN
DATE: 2/17/16
CHECKED BY: []
APPROVED BY: []
BORE APPROVED BY: []
KLJ JOB NO: 1713271
REVISION: 114
SHEET: 114

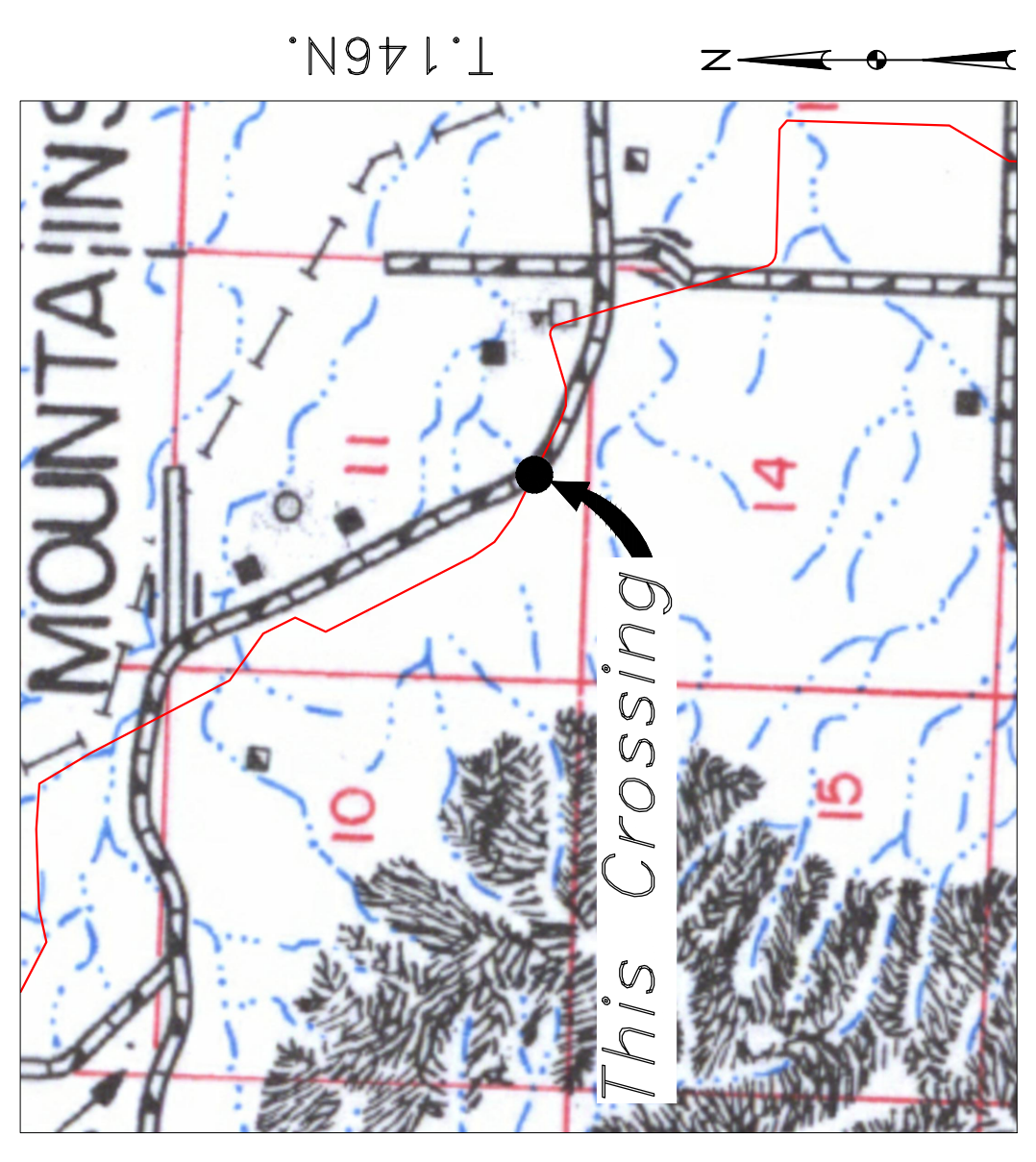
**BOE PIPELINE PHASE II
DRIVEWAY CROSSING BORE #65**

SECTION 11, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**

KLJ

1555 Columbia Street
Bismarck, ND 58503



Location Map

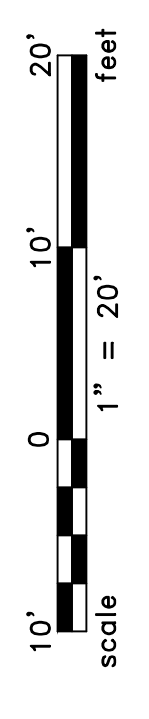


Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

PROPOSED PIPE



TOTAL HORIZONTAL DISTANCE = 180.76 FT.
 TOTAL BORE LENGTH = 180.8 FT.

PRELIMINARY

BOE PIPELINE PHASE II ACCESS ROAD & 4TH ST NW & WETLAND CROSSING BORES #66 & #67

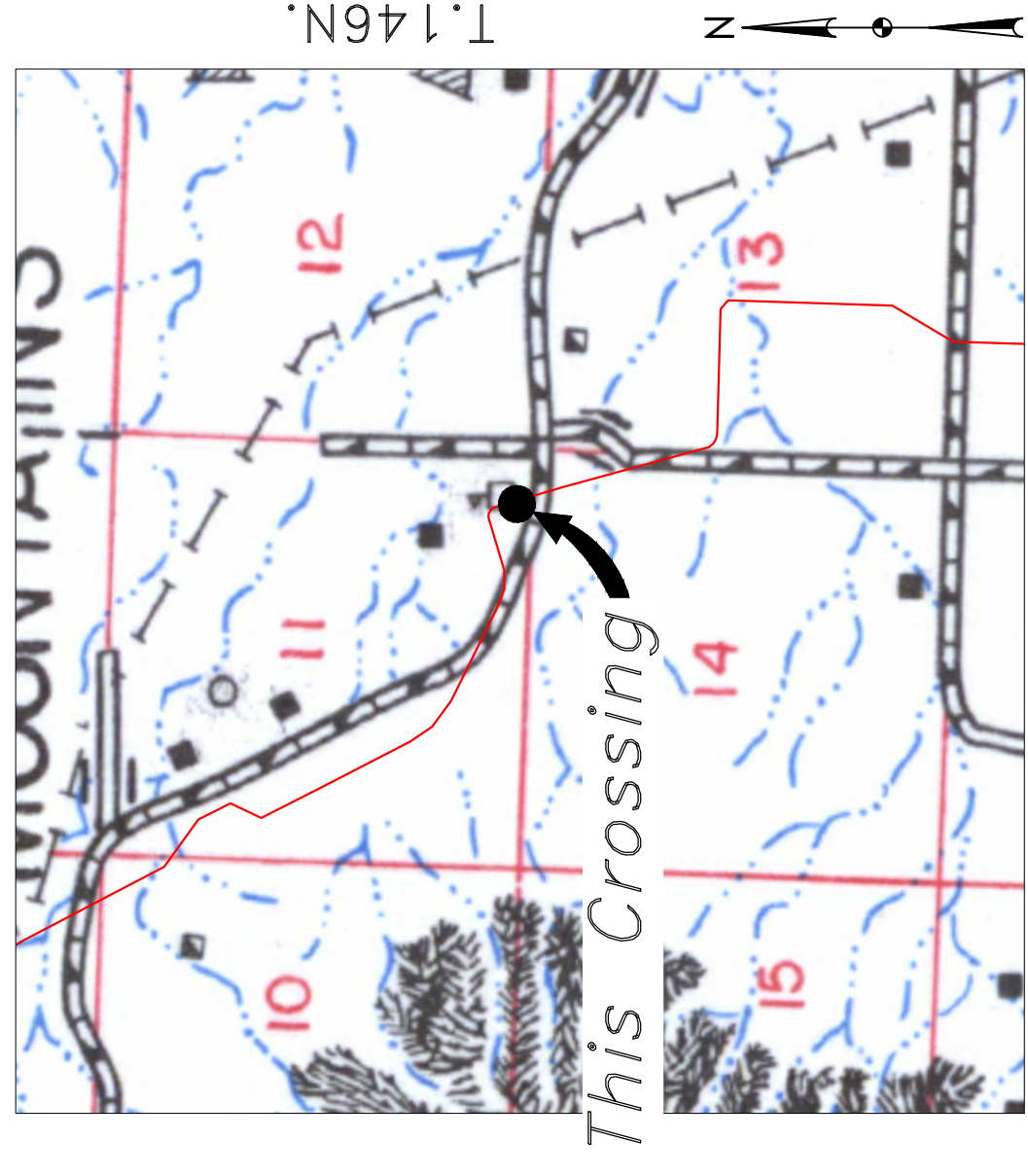
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 12,
T146N, R96W

DUNN COUNTY
NW1/4, SEC. 13,
T146N, R96W

DUNN COUNTY
NE1/4, SEC. 14,
T146N, R96W

DUNN COUNTY
SE1/4, SEC. 11,
T146N, R96W

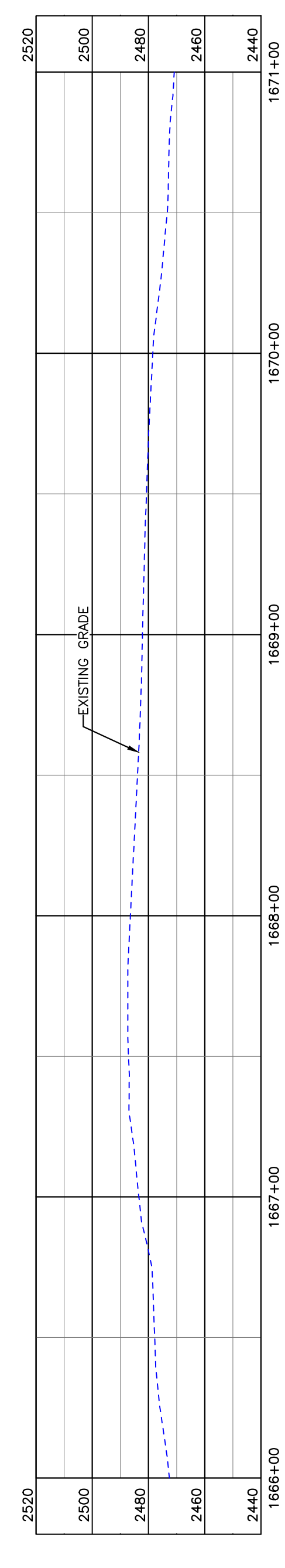
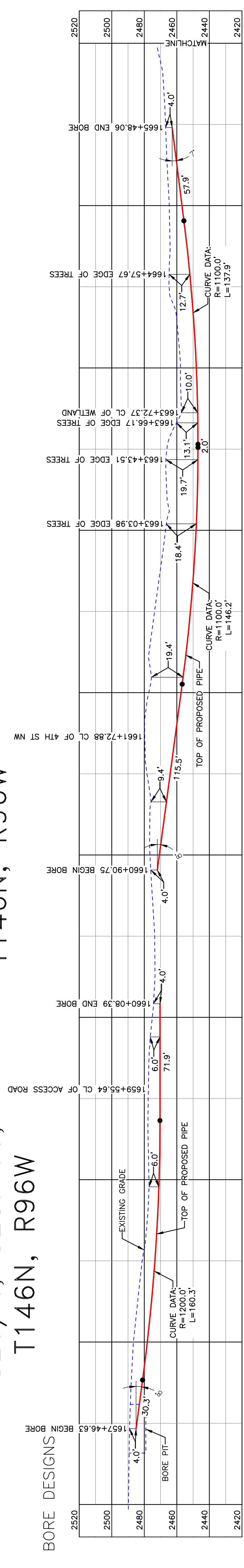
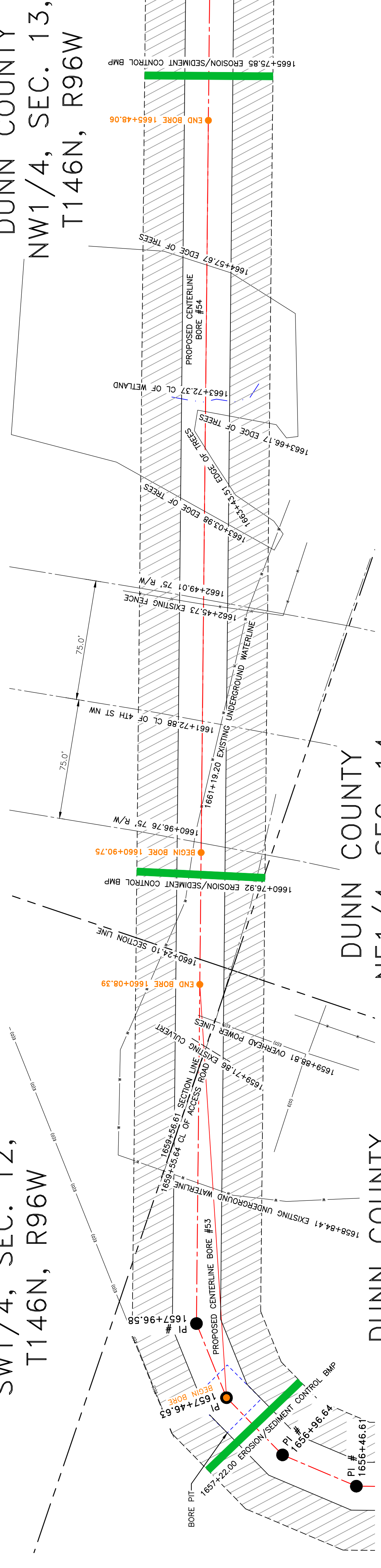
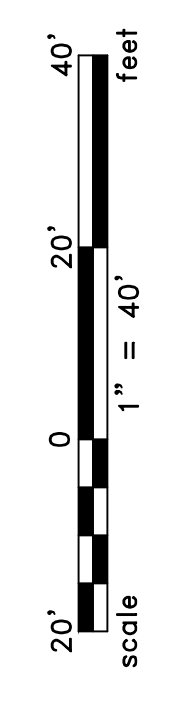


Location Map



NOTE:
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.
PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND
— PROPOSED PIPE



PULLBACK AREA

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1657+46.63	47°28'26.89" N	102°51'55.18" W
END BORE	1660+08.39	47°28'24.53" N	102°51'53.74" W

TOTAL HORIZONTAL DISTANCE = 261.76 FT.
TOTAL BORE LENGTH = 262.5 FT.

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1660+90.75	47°28'23.76" N	102°51'53.37" W
END BORE	1665+48.06	47°28'19.47" N	102°51'51.29" W

TOTAL HORIZONTAL DISTANCE = 457.31 FT.
TOTAL BORE LENGTH = 459.5 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
- - -	SECTION LINE	—	FIBER OPTIC COM. LINE
- . - .	PAVEMENT	—	WETLAND
- - -	WATER LINE	—	UNDERGROUND WATERLINE
- - -	WATER LINE	—	EXISTING ROAD
- - -	WATER LINE	—	PROPOSED ROAD
- - -	WATER LINE	—	EROSION/SEDIMENT CONTROL BMP
- - -	WATER LINE	—	MARKER POST
- - -	WATER LINE	—	UNDERGROUND COM. LINE
- - -	WATER LINE	—	UNDERGROUND COM. LINE

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	722'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

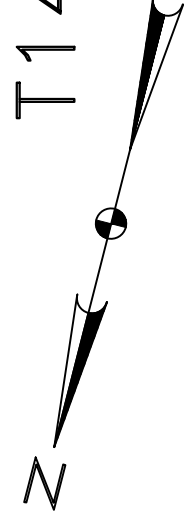
NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
ACCESS ROAD & 4TH ST NW & WETLAND CROSSING BORE
SECTIONS 11, 12 & 13, T146N, R96W, DUNN COUNTY, NORTH DAKOTA

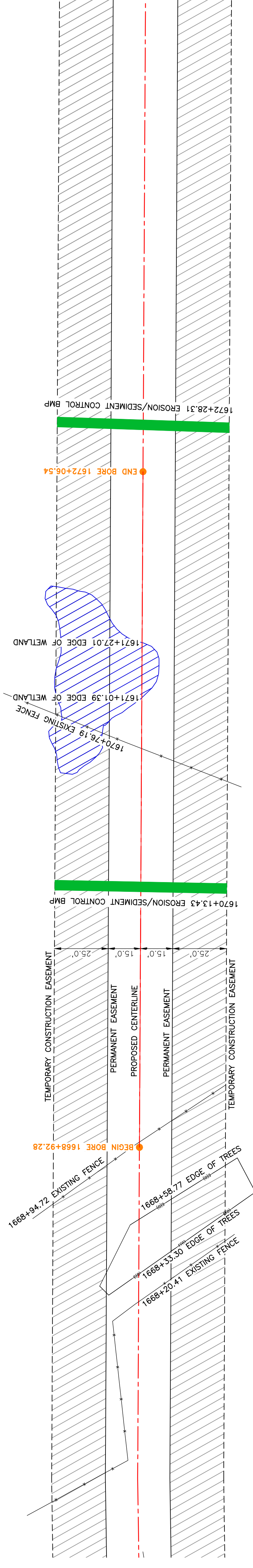
KLJ
Bakken Oil Express
1555 Columbia Street
Bismarck, ND 58503

SCALE: 1" = 40'
DRAWN BY: A. ROMANN
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
REVISION: 115

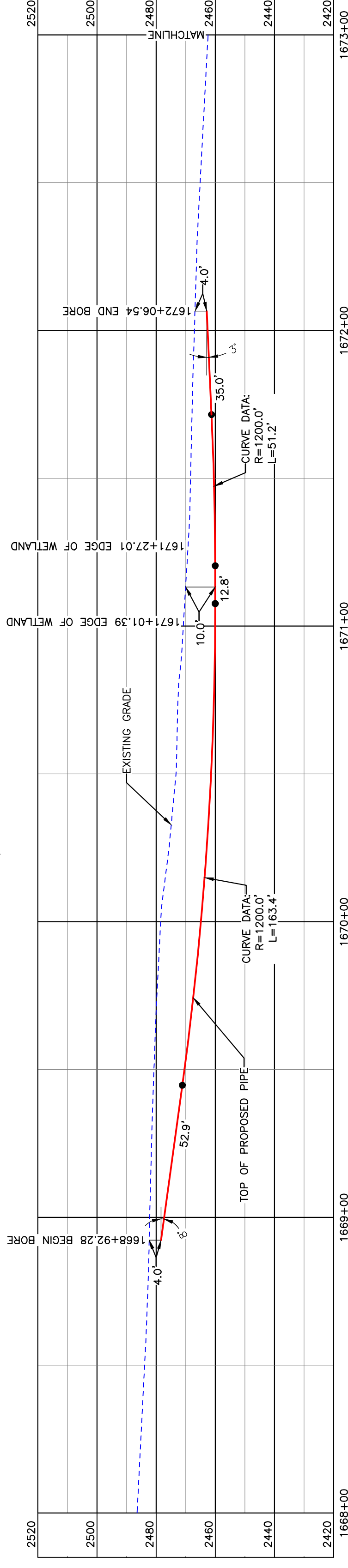
DUNN COUNTY
NW1/4, SEC. 13,
T146N, R96W



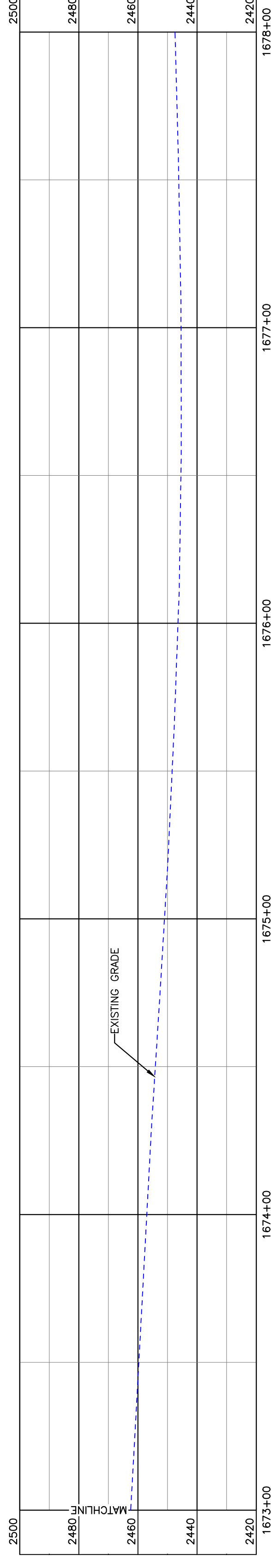
BOE PIPELINE PHASE II
WETLAND CROSSING BORE #68
DUNN COUNTY, NORTH DAKOTA



DUNN COUNTY
SW1/4, SEC. 13,
T146N, R96W



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1668+92.28	47°28'16.17" N	102°51'49.74" W
END BORE	1672+06.54	47°28'13.27" N	102°51'48.43" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 314.26 FT.

TOTAL BORE LENGTH = 315.3 FT.



This Crossing

Location Map



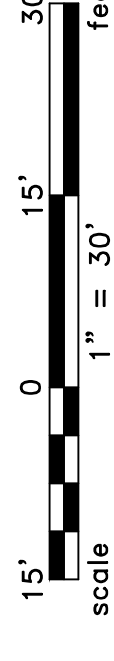
Aerial Map

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND

PROPOSED PIPE



LEGEND

PROPERTY LINE	EXISTING FENCE	AVOIDANCE AREA
SECTION LINE	FIBER OPTIC COM. LINE	WETLAND
EASEMENT CENTERLINE	FARM ROAD	EASEMENT
WATER LINE	UTILITY POLE	FENCE
FOREIGN PIPELINE	PROPOSED BORE	PROPOSED BORE VALVE SETTING
EXISTING ROAD	EROSION/SEDIMENT CONTROL BMP	MARKER POST
UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	316'	16" OD, 0.344" W.T. API 5L X70, 1.4-16 MIL FBE, 30-35 MIL ARO

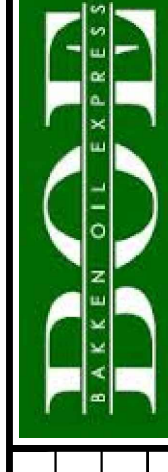
REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'
DRAWN BY: R. HENDRICKSON
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KLJ JOB NO: 1713271
REVISION:
SHEET: 116



BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #68
SECTION 13, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

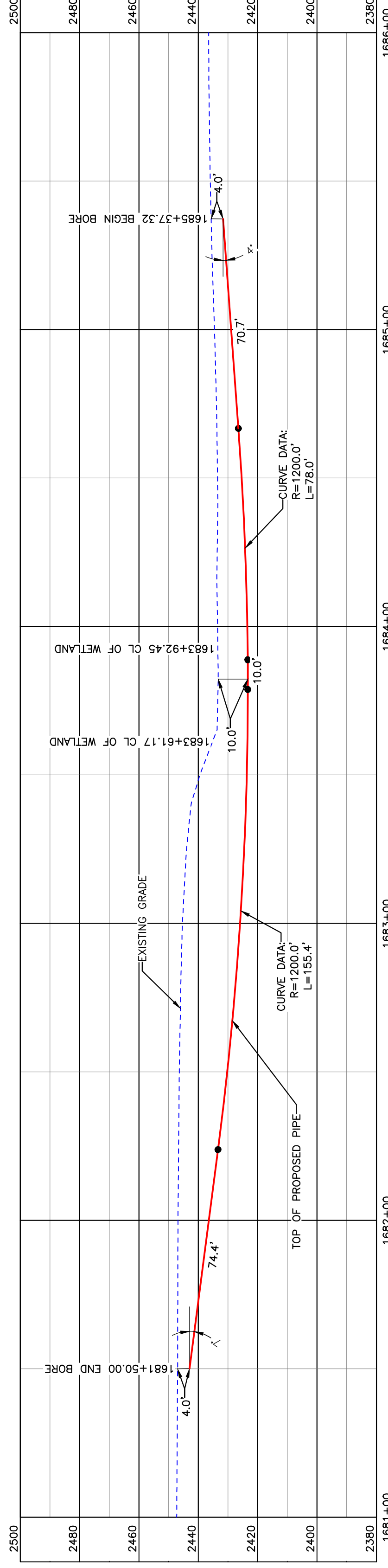
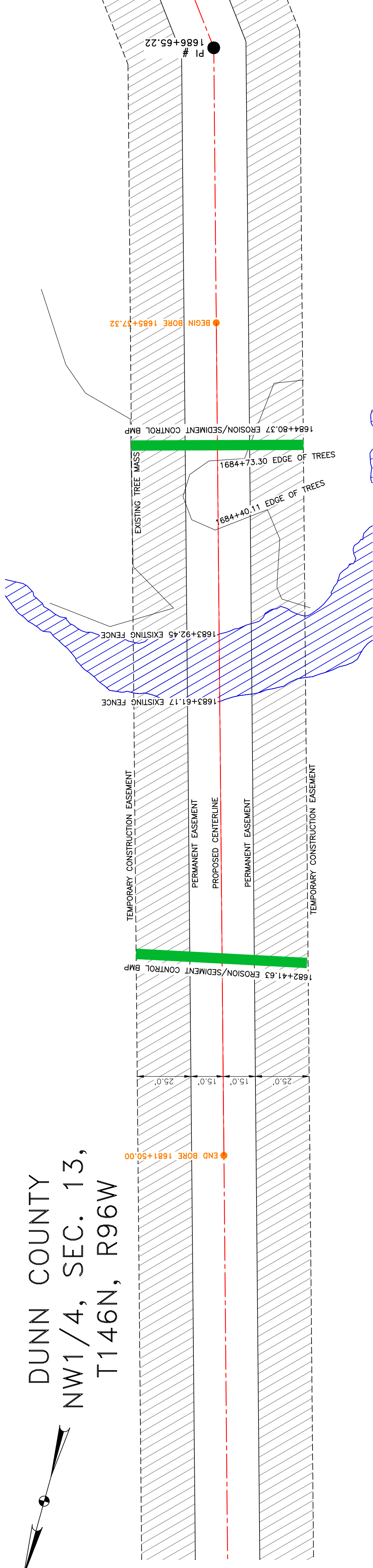
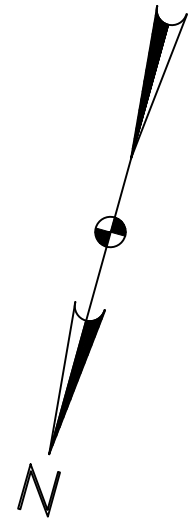


1555 Columbia Street
Bismarck, ND 58503

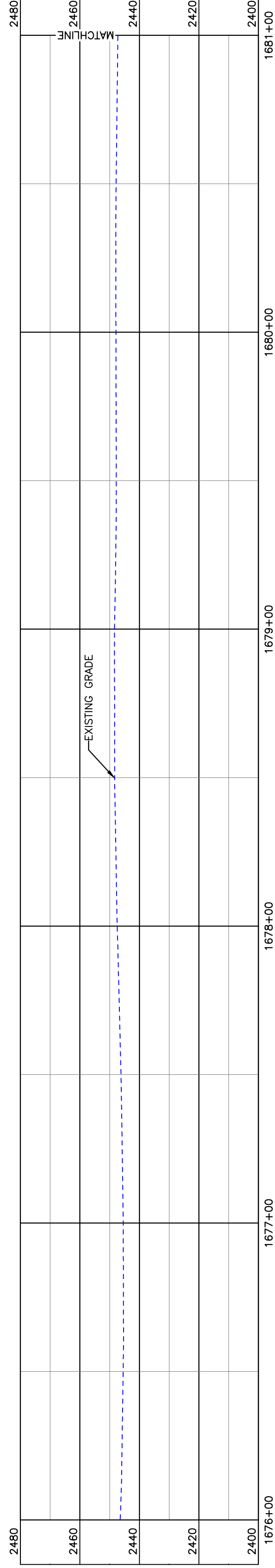
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BOE PIPELINE PHASE II WETLAND CROSSING BORE #69 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 13,
T146N, R96W



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1685+37.32	47°28'00.71" N	102°51'42.25" W
END BORE	1681+50.00	47°28'04.37" N	102°51'44.40" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 387.32 FT.
TOTAL BORE LENGTH = 388.50FT.

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	EASEMENT CENTERLINE		WETLAND EASEMENT
	WATER LINE		UTILITY POLE
	FOREIGN PIPELINE		PROPOSED BORE
	EXISTING ROAD		EROSION/SEDIMENT CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	389'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

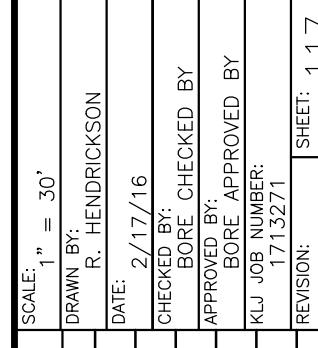
SCALE: 1" = 30'

DRAWN BY: R. HENDRICKSON
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KJL JUL 17, 2016
REVISION:

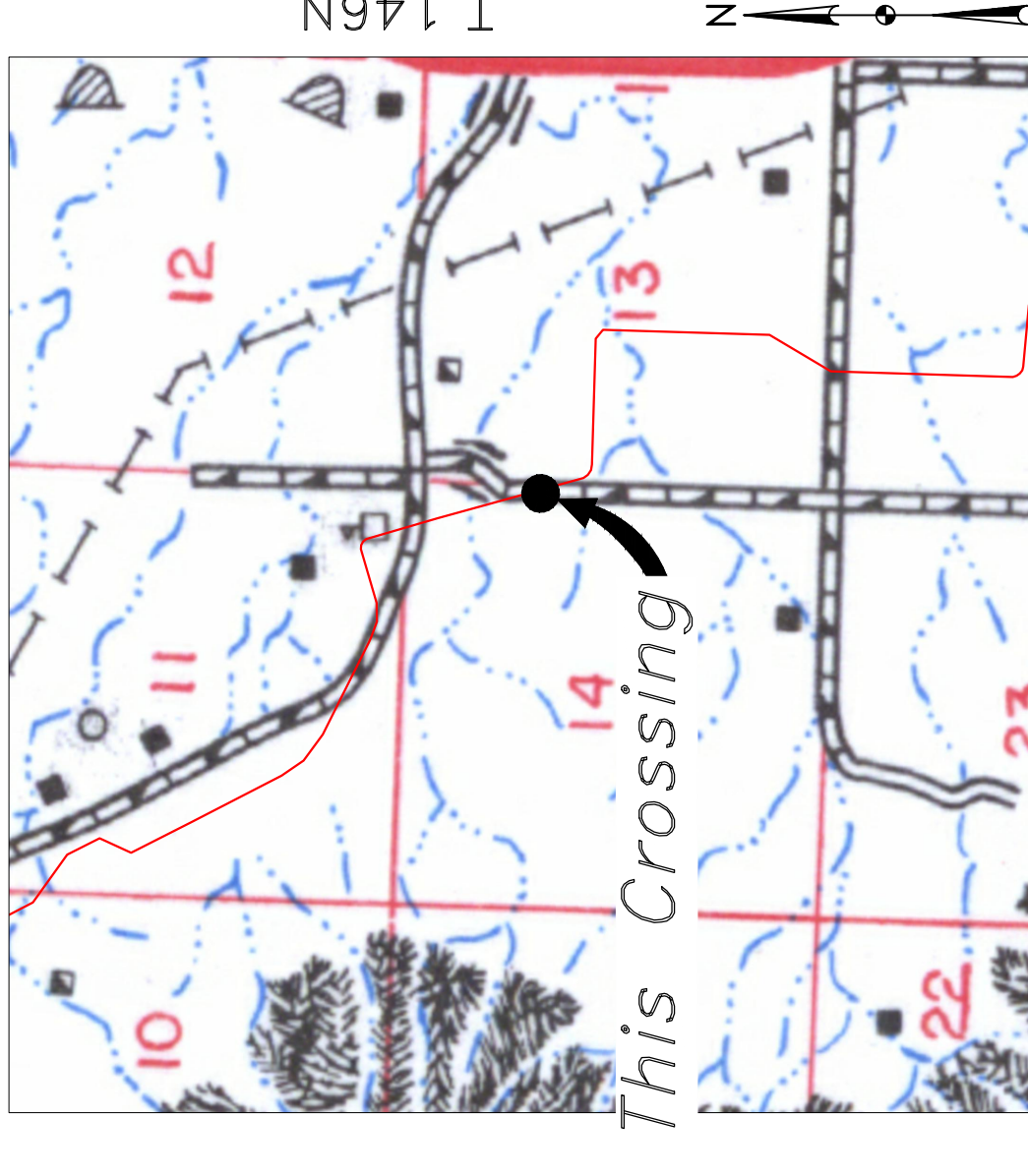
SHEET: 117

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #69
SECTION 13, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS
EXPRESS PIPELINE



1555 Columbia Street
Bismarck, ND 58503
© KJL 2016



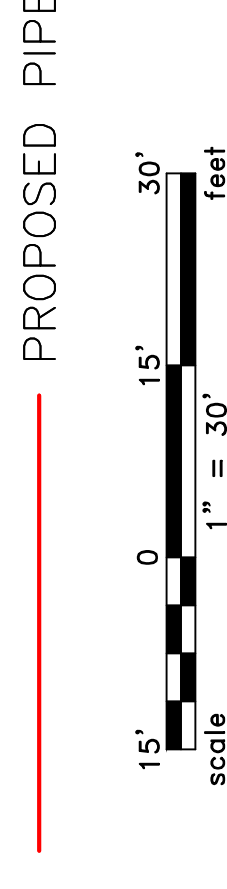
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

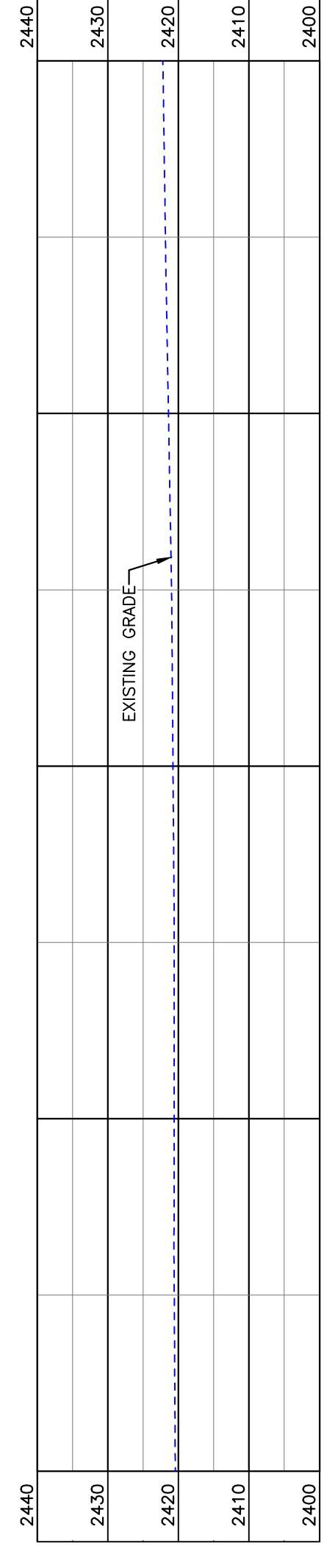
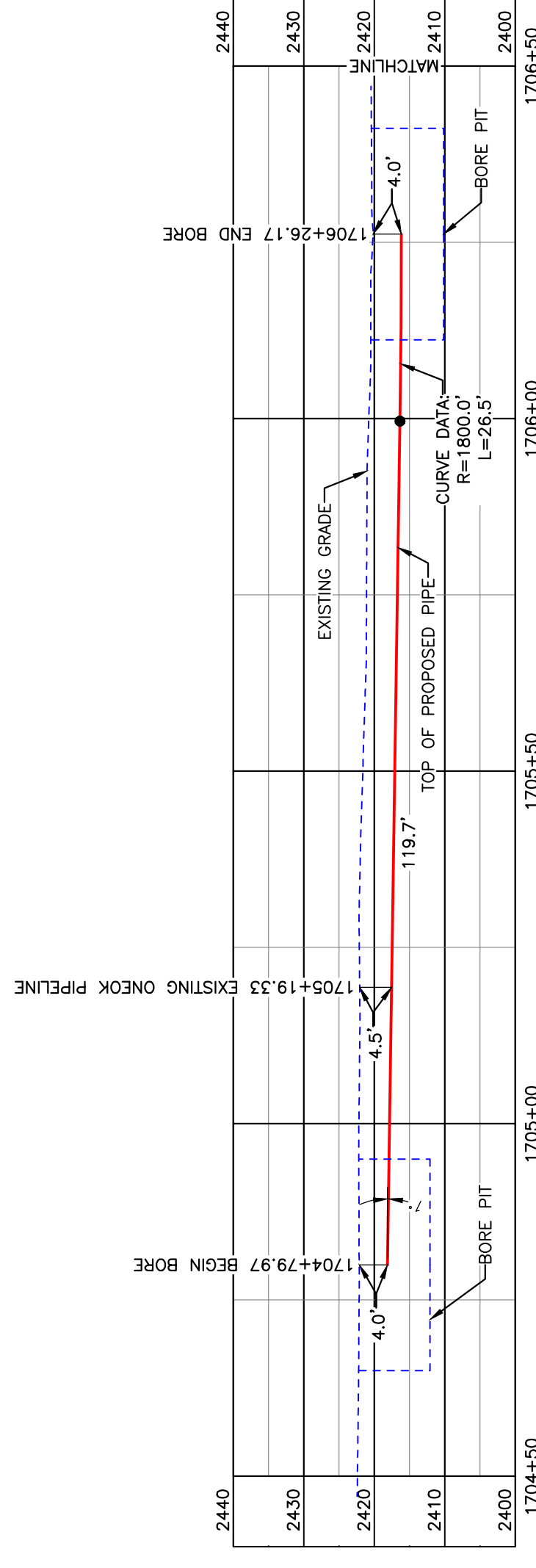
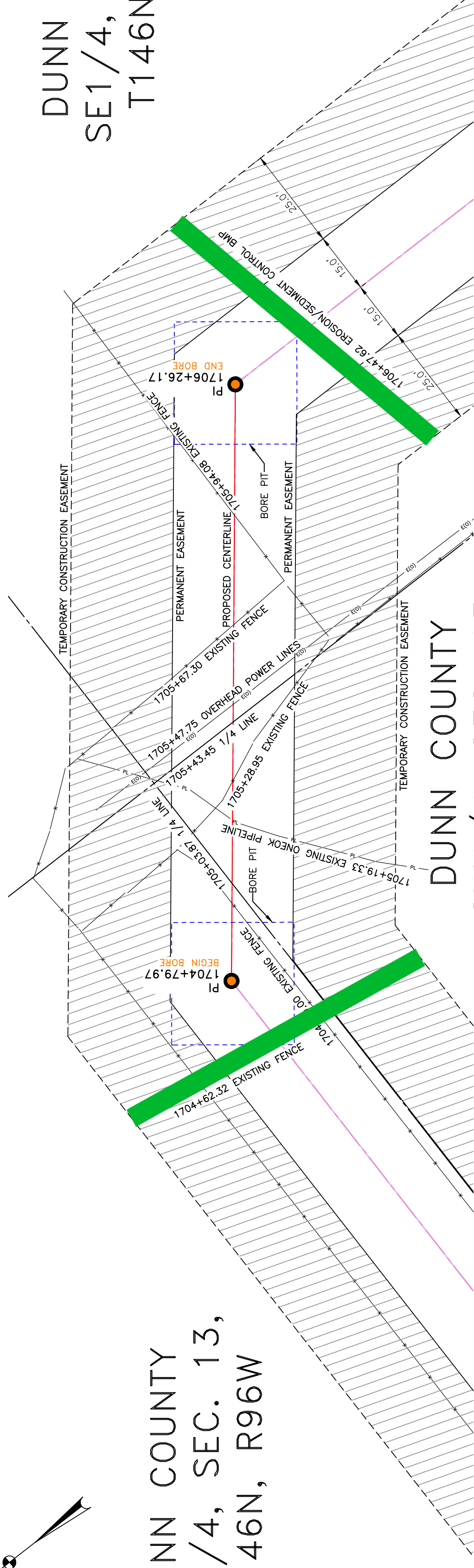
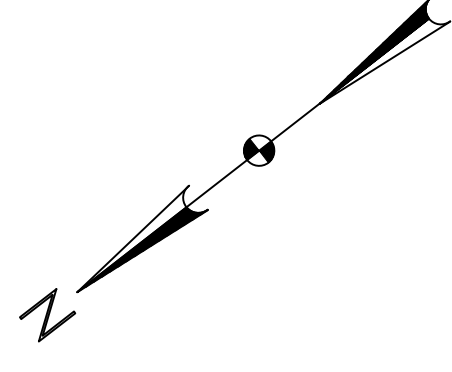


**BOE PIPELINE PHASE II
PROPERTY CROSSING BORE #70**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 13,
T146N, R96W

DUNN COUNTY
NW1/4, SEC. 13,
T146N, R96W

DUNN COUNTY
SW1/4, SEC. 13,
T146N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1695+79.97	47°27'58.51" N	102°51'16.34" W
END BORE	1696+26.17	47°27'57.62" N	102°51'14.67" W

LEGEND

- PROPERTY LINE
- SECTION LINE
- WATER LINE
- EXISTING PIPELINE
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- RAILROAD
- WATER LINE
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST
- AVOIDANCE AREA
- WETLAND
- EASEMENT
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	146'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

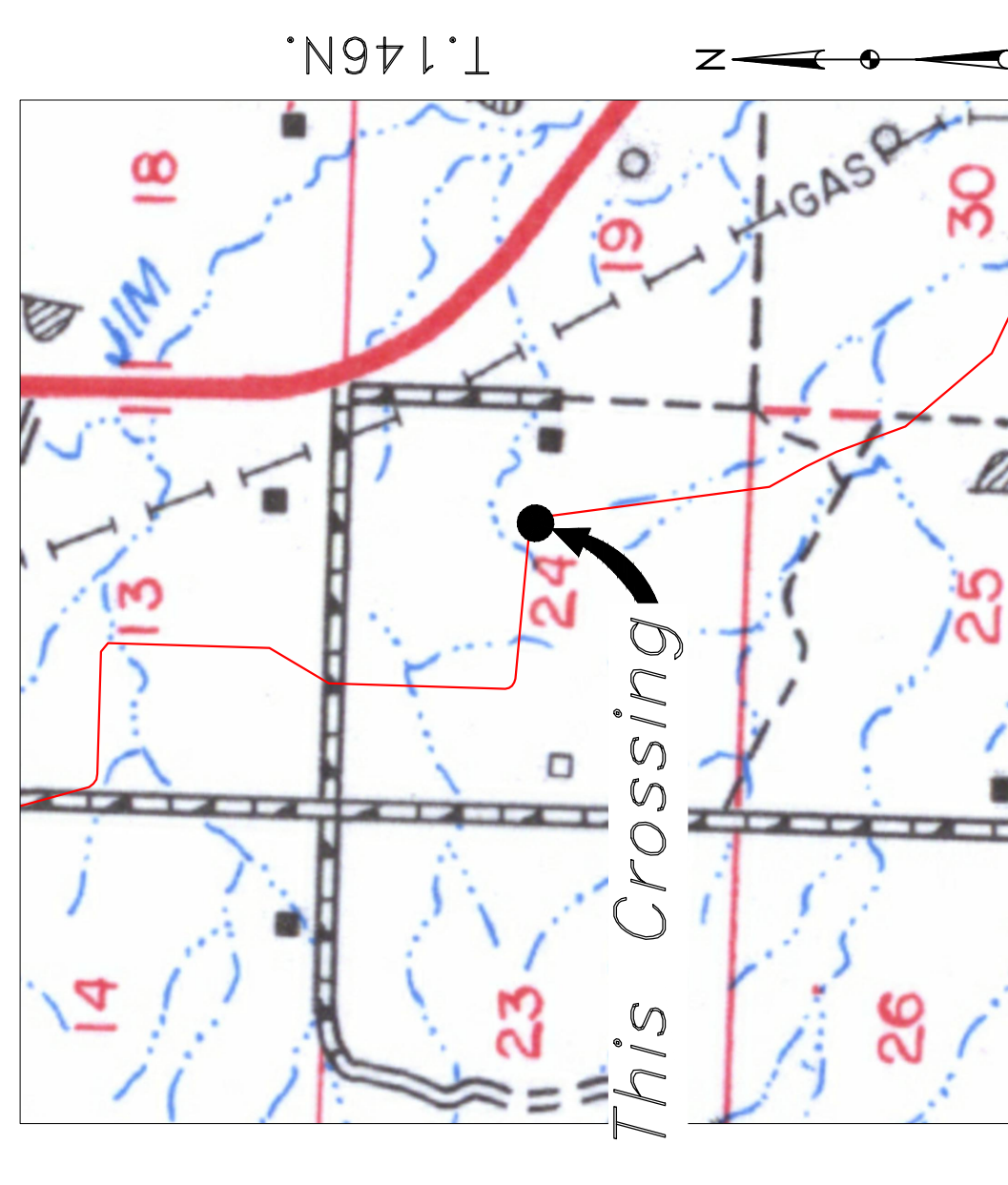
NO.	DATE	DESCRIPTION

**BOE PIPELINE PHASE II
PROPERTY CROSSING BORE #70**

SECTION 13, T.146N., R.96W., DUNN COUNTY, NORTH DAKOTA

KLJ
Bakken Oil Express
Bismarck, ND 58503

SCALE: 1" = 20'
DRAWN BY: A. ROMANN
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BOE APPROVED BY:
KLJ JOB NO.: 1713271
REVISION:
SHEET: 118



Location Map



Aerial Map

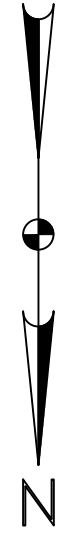
PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO

LEGEND

PROPOSED PIPE

10' 0' 10' 20'
scale
1" = 20' feet

TOTAL HORIZONTAL DISTANCE = 146.19 FT.
TOTAL BORE LENGTH = 146.2 FT.



DUNN COUNTY
SE1/4, SEC. 13,
T146N, R96W

**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #71**
DUNN COUNTY, NORTH DAKOTA



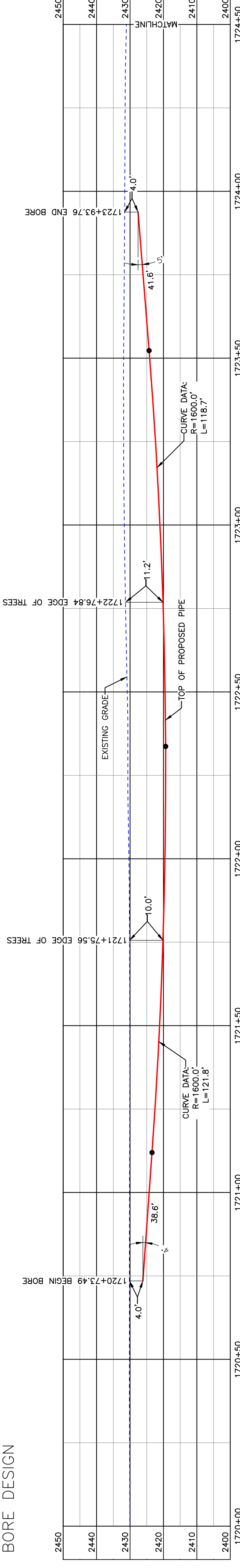
R.96W.

Location Map

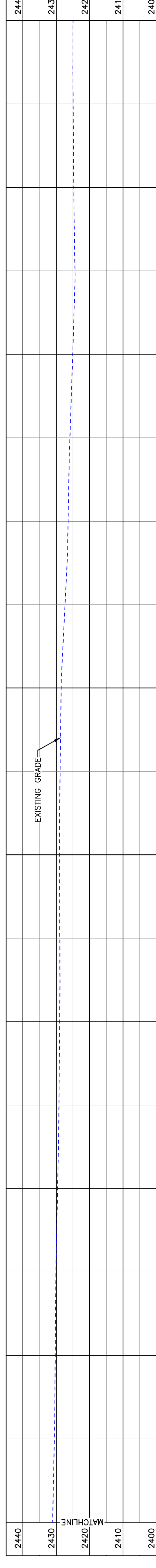


T.146N.

BORE DESIGN



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1720+73.49	47°27'43.33" N	102°51'14.68" W
END BORE	1723+93.76	47°27'40.17" N	102°51'14.69" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 320.27 FT.

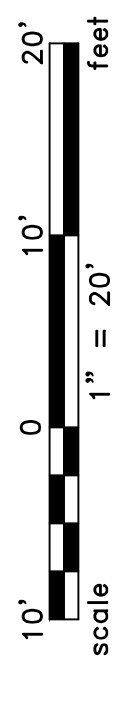
TOTAL BORE LENGTH = 320.7 FT.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND

— PROPOSED PIPE



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE	▨	AVOIDANCE AREA
—	SECTION LINE	—	FIBER OPTIC COM. LINE	▨	WETLAND
—	GRADE CENTERLINE	—	PAVEMENT	▨	EASEMENT
—	WATER LINE	—	UTILITY POLE	▨	UTILITY POLE
—	FOREIGN PIPELINE	—	PROPOSED BORE	▨	EROSION CONTROL BMP
—	EXISTING ROAD	—	UNDERGROUND COM. LINE	▨	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	321'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE	REVISIONS

**BOE PIPELINE PHASE II
TREE LINE CROSSING BORE #71**

SECTION 13, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

1555 Columbia Street
Bismarck, ND 58503

KLJ

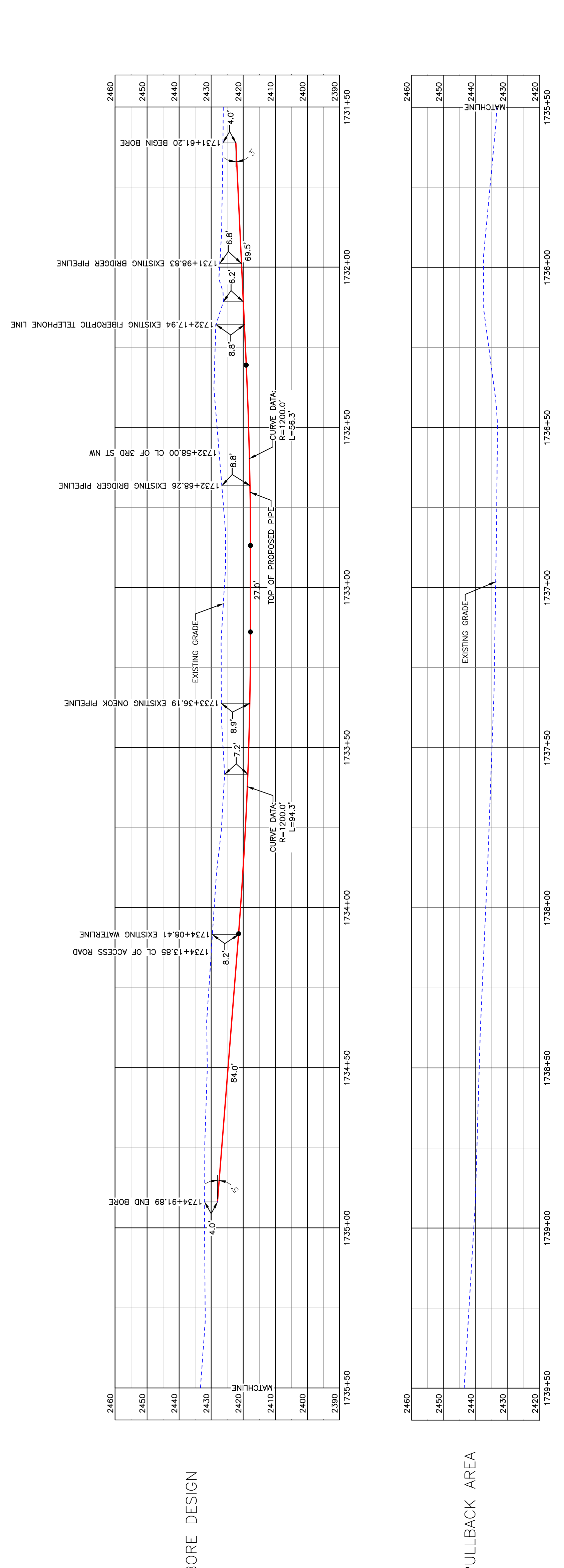
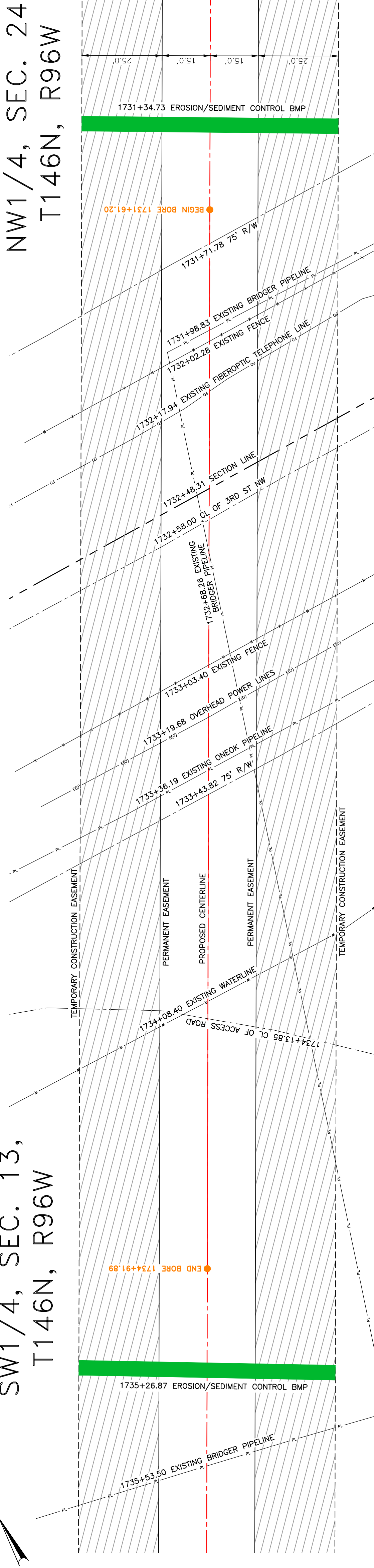
BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II 3RD ST NW & ACCESS ROAD CROSSING BORE #72

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 13,
T146N, R96W

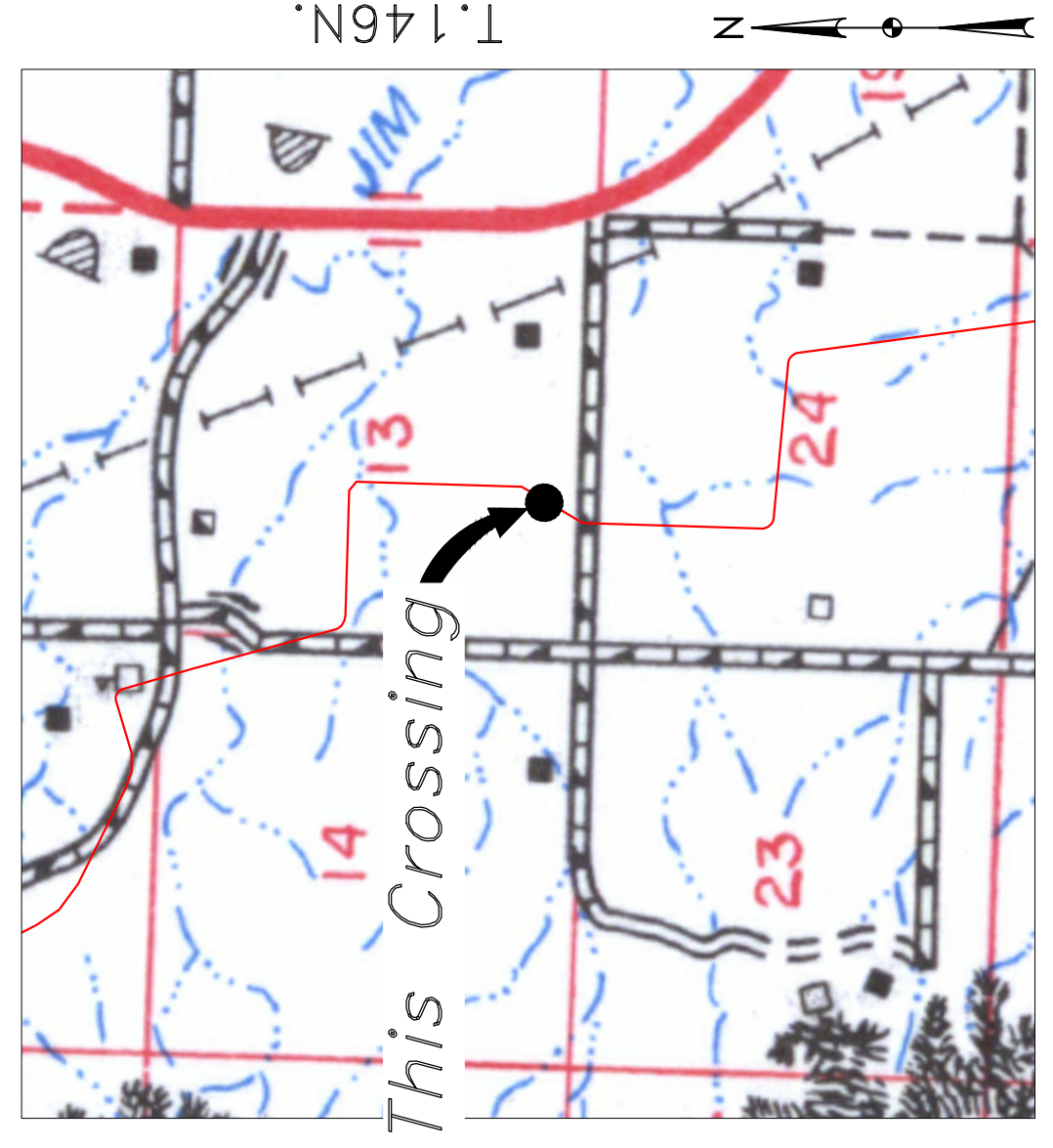
DUNN COUNTY
NW1/4, SEC. 24,
T146N, R96W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1731+61.20	47°27'33.12" N	102°51'17.66" W
END BORE	1734+91.89	47°27'30.27" N	102°51'19.99" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 330.60 FT.
TOTAL BORE LENGTH = 331.1 FT.



Location Map



Aerial Map

NOTE:
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	WATER LINE	---	POWER LINE
---	WATER LINE	---	UTILITY POLE
---	EXISTING PIPELINE	---	PROPOSED BORE
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP
---	UNDERGROUND COM. LINE	---	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	331'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE PIPELINE PHASE II
3RD ST NW & ACCESS ROAD CROSSING BORE #72
SECTIONS 13 & 24, T146N, R96W, DUNN COUNTY, NORTH DAKOTA

KLJ
BAKKEN OIL EXPRESS
EXPRESS PIPELINE

1555 Columbia Street
Bismarck, ND 58503
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DUNN COUNTY
NW1/4, SEC. 30,
T146N, R95W

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #73
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 24,
T146N, R96W

DUNN COUNTY
NE1/4, SEC. 25,
T146N, R96W



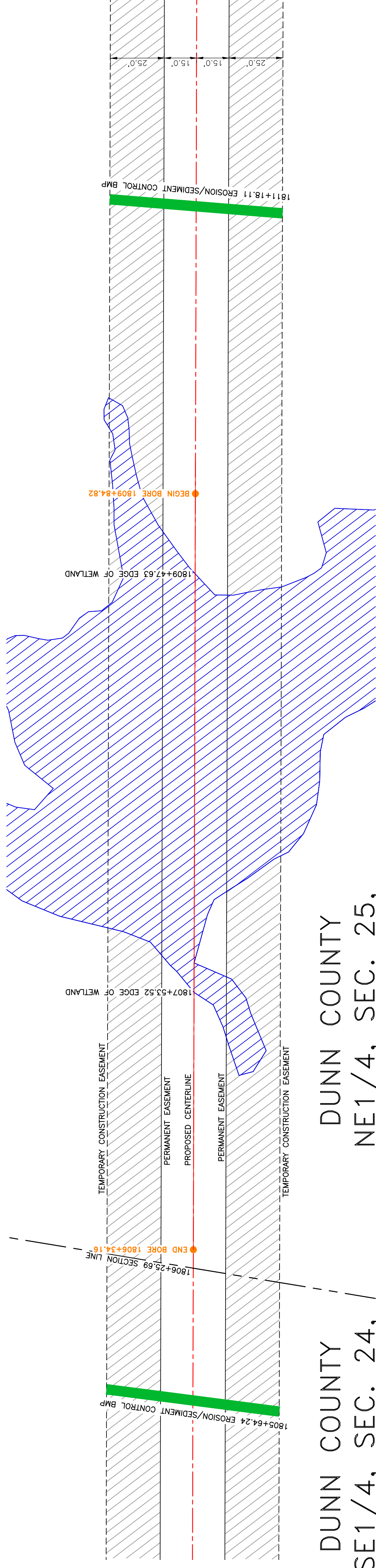
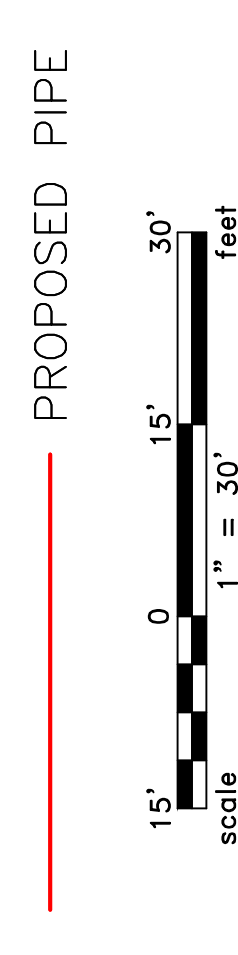
R.96W. | R.95W.
Location Map



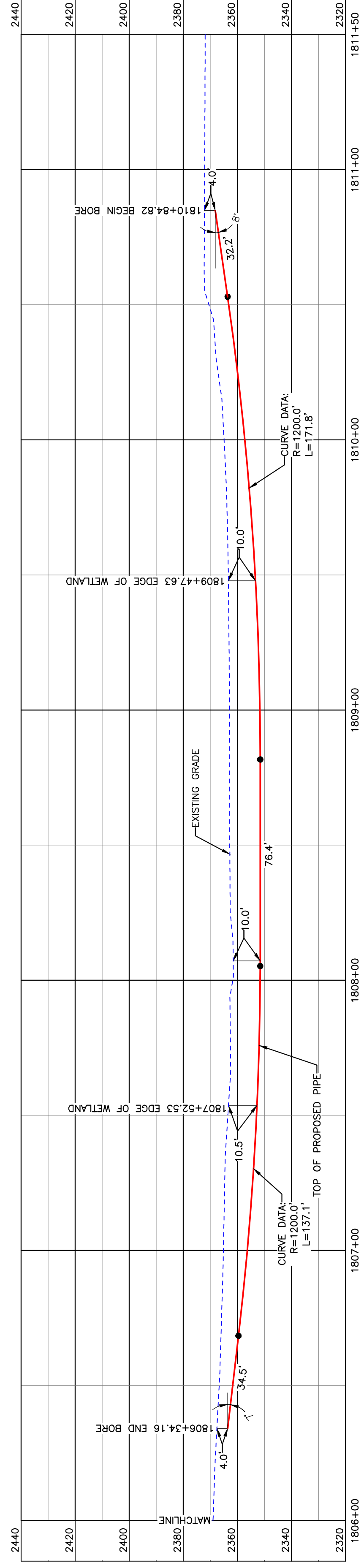
Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO

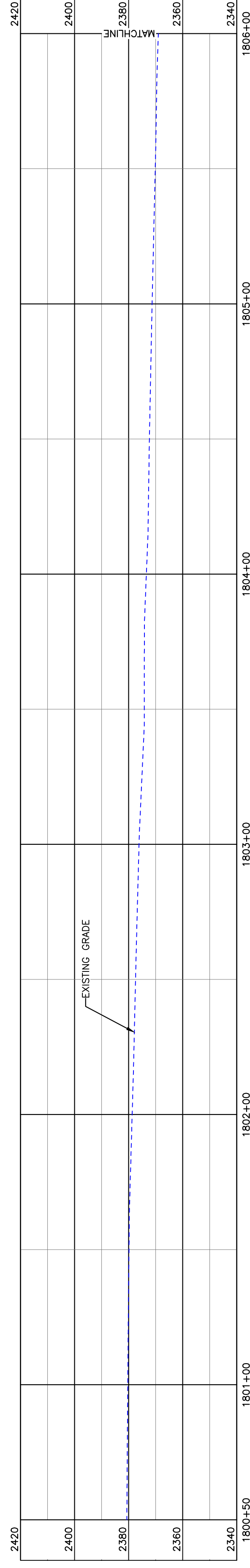
LEGEND



BORE DESIGN



PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1809+84.82	47°26'36.73" N	102°50'42.07" W
END BORE	1806+34.16	47°26'40.14" N	102°50'42.90" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 450.66 FT.

TOTAL BORE LENGTH = 452.0 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
---	SECTION LINE		AVOIDANCE AREA
---	PIPELINE CENTERLINE	---	FIBER OPTIC COM. LINE
---	WATER LINE	---	RAILROAD
---	EXISTING PIPELINE		WETLAND EASEMENT
---	UNDERGROUND COM. LINE	---	UTILITY POLE
---		---	PROPOSED BORE
---		---	EROSION/SEDIMENT CONTROL BMP
---		---	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	452'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE 1" = 30'

SCALE: 1" = 30'

DRAWN BY: R. HENDRICKSON
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KJL JKL
REVISION:
SHEET: 121

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #73
SECTION 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

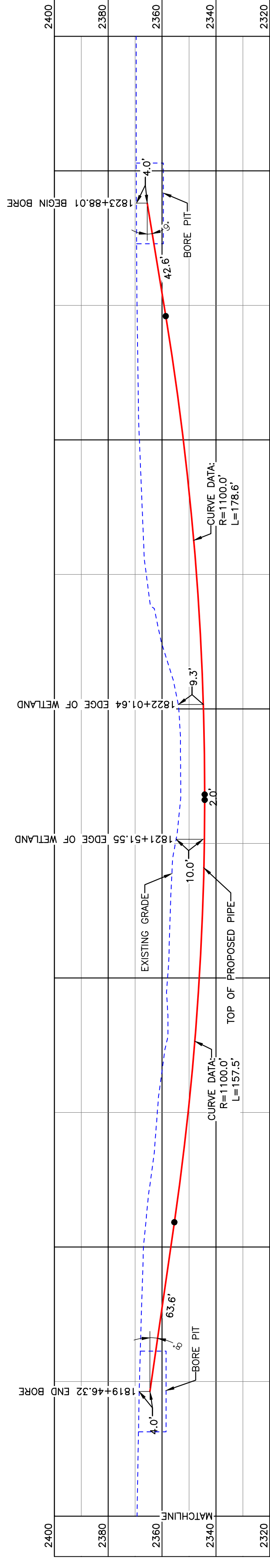
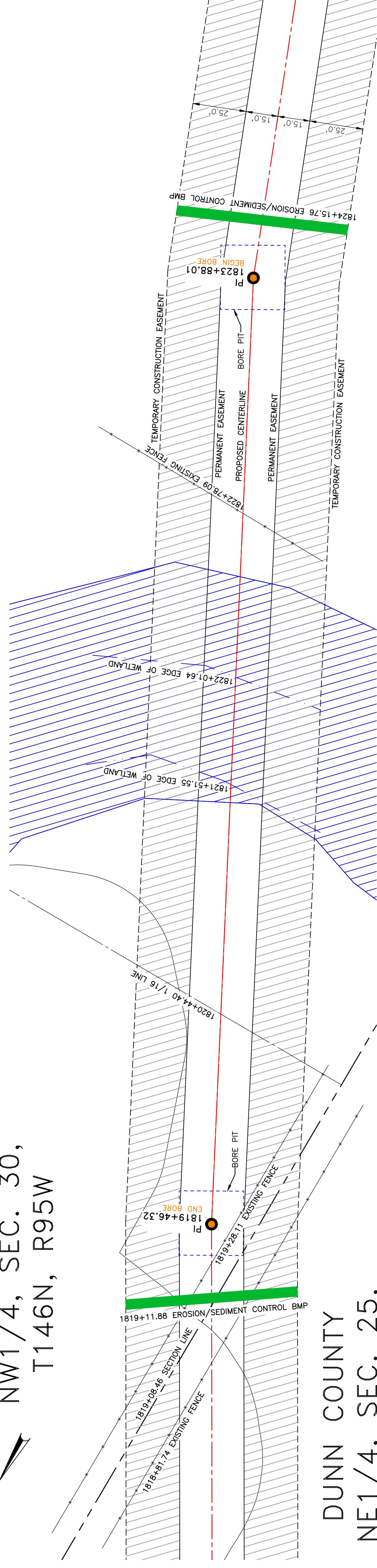
BAKKEN OIL EXPRESS
BAKKEN OIL EXPRESS PIPELINE

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Bismarck, ND 58503
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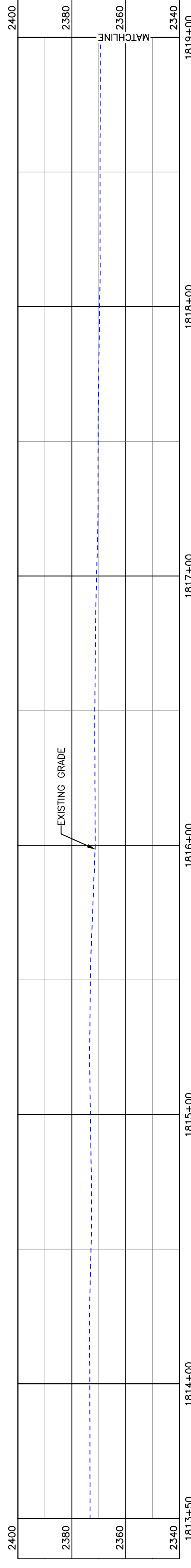
BOE PIPELINE PHASE II WETLAND CROSSING BORE #74 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 30,
T146N, R95W

DUNN COUNTY
NE1/4, SEC. 25,
T146N, R96W



BORE DESIGN

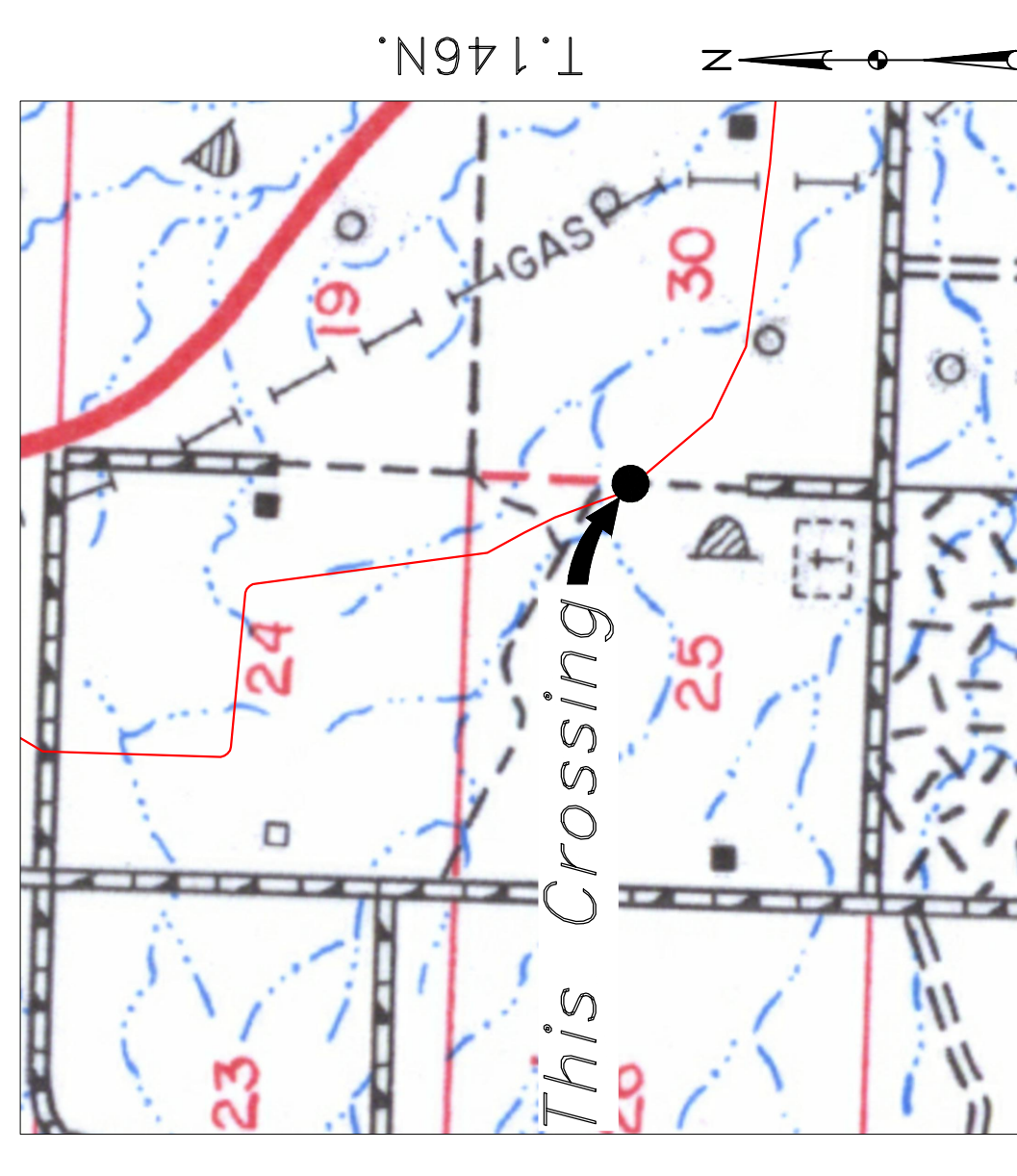


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1823+88.01	47°26'24.19" N	102°50'34.03" W
END BORE	1819+46.32	47°26'28.04" N	102°50'37.04" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 441.69 FT.
TOTAL BORE LENGTH = 444.3 FT.



Location Map
R.96W. | R.95W.



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO

LEGEND

— PROPOSED PIPE

15' 0 15' 30'
scale feet

LEGEND

—	PROPERTY LINE	—	* EXISTING FENCE	▨	AVOIDANCE AREA
---	SECTION LINE	---	FIBER OPTIC COM. LINE	▨	WETLAND EASEMENT
---	RAILROAD	---	UTILITY POLE	▨	WETLAND EASEMENT
---	WATER LINE	---	PROPOSED BORE	▨	EROSION/SEDIMENT CONTROL BMP
---	EXISTING ROAD	---	UNDERGROUND COM. LINE	▨	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	444'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

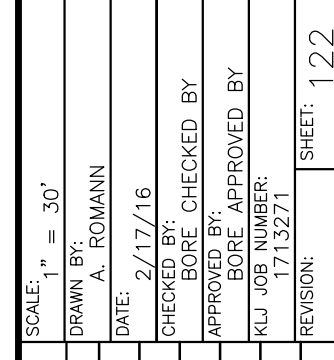
DRAWN BY: A. ROMANN
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
KLU JUL 17 13:27:16
REVISION:
SHEET: 122

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #74**

SECTION 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

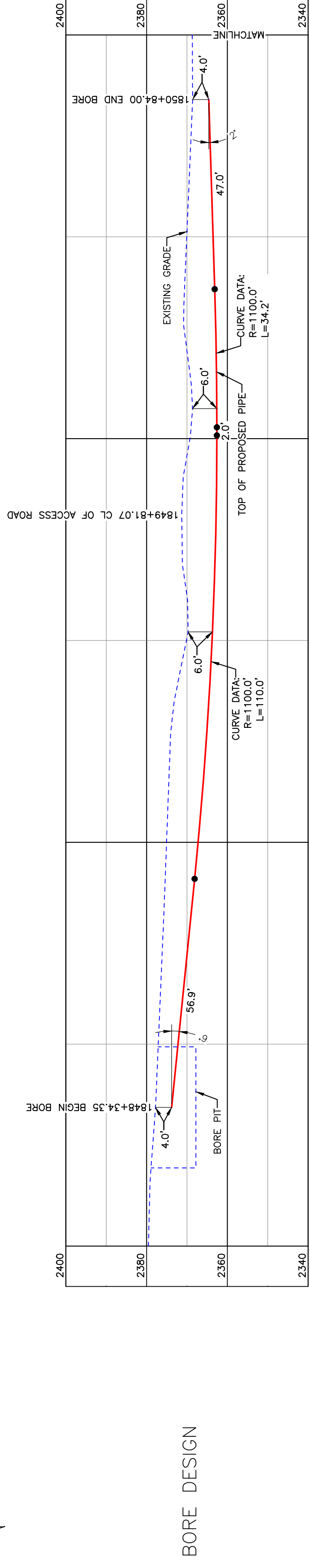
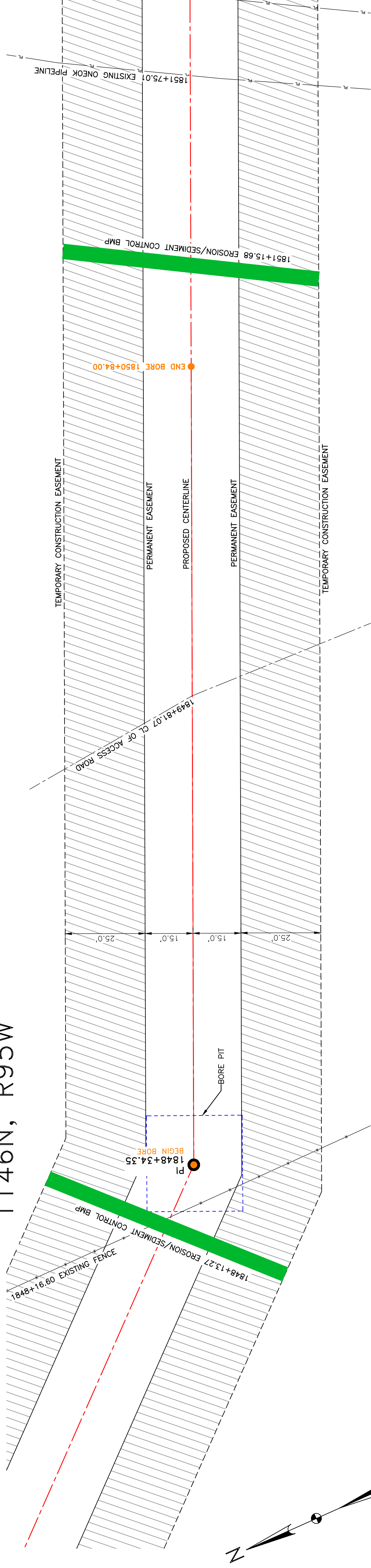
BAKKEN OIL EXPRESS

1555 Columbia Street
Bismarck, ND 58503

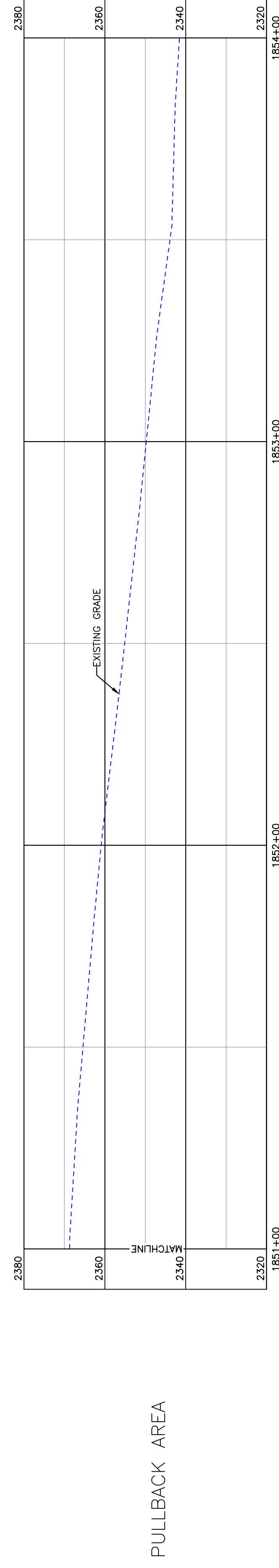


DUNN COUNTY
SW1/4, SEC. 30,
T146N, R95W

**BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #75**
DUNN COUNTY, NORTH DAKOTA



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1848+34.35	47°26'04.50" N	102°50'14.37" W
END BORE	1850+84.00	47°26'03.50" N	102°50'11.05" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 249.66 FT.
TOTAL BORE LENGTH = 250.1 FT.



R.96W. | R.95W.

Location Map



Aerial Map

NOTE:

1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE	▨	AVOIDANCE AREA
---	SECTION LINE	---	FIBER OPTIC COM. LINE	▨	WETLAND
---	WATER LINE	---	PAVEMENT ROAD	▨	EASEMENT
---	GRAVEL CENTERLINE	---	UTILITY POLE	▨	ESSENTIAL
---	WATER LINE	---	UTILITY POLE	▨	VALVE SETTING
---	FORESHORE PIPELINE	---	PROPOSED BORE	▨	EROSION/SEDIMENT CONTROL BMP
---	EXISTING ROAD	---	EROSION/SEDIMENT CONTROL BMP	▨	MARKER POST
---	UNDERGROUND COM. LINE	---	MARKER POST	▨	

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	250'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION	NO.	DATE

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'

DRAWN BY: A. ROMANN	DATE: 2/17/16
CHECKED BY:	
APPROVED BY:	
BOE APPROVED BY:	
KLJ JOB NO.:	1713271
REVISION:	1, 2, 3

BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #75

SECTION 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS

BAKKEN OIL EXPRESS PIPELINE

KLJ

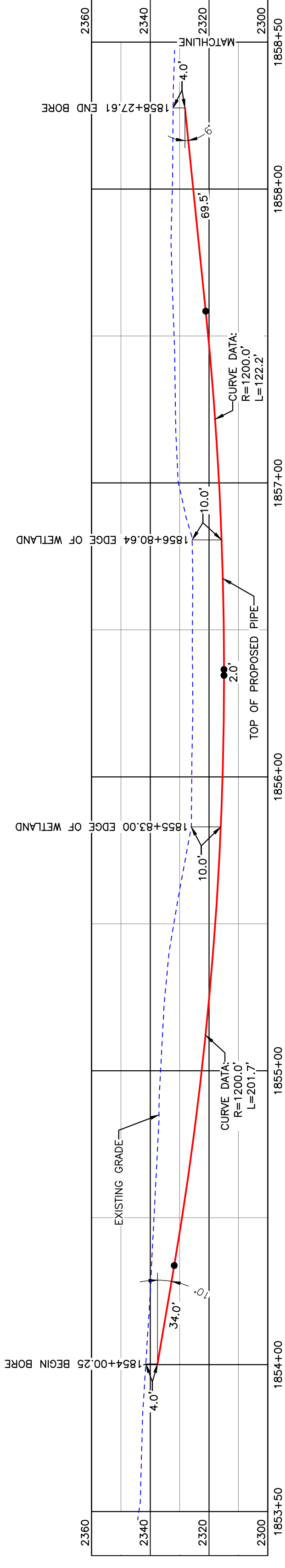
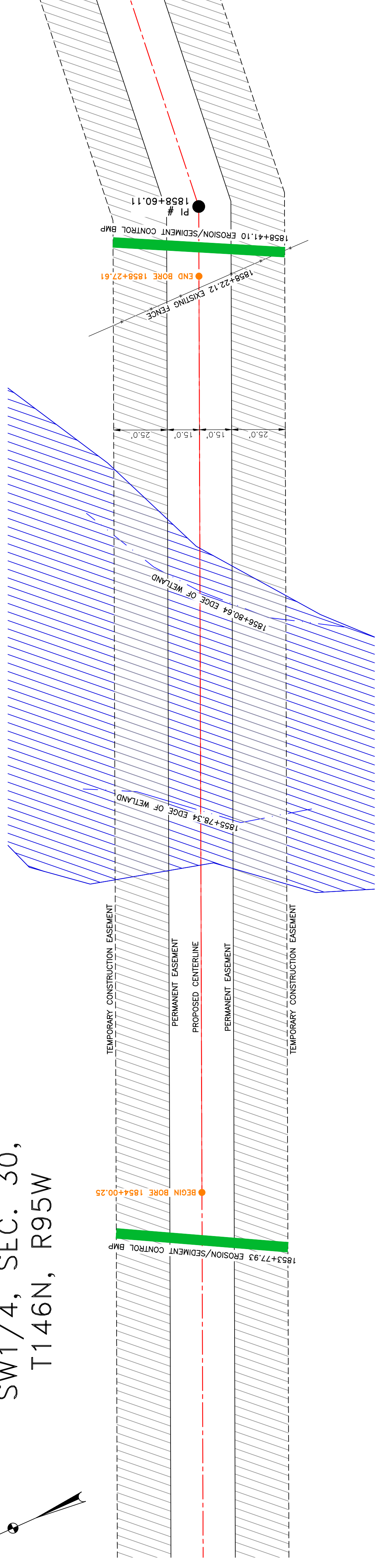
1555 Columbia Street
Bismarck, ND 58503

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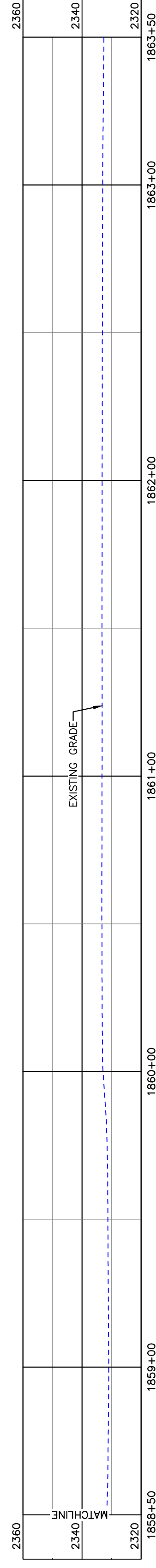
BOE PIPELINE PHASE II WETLAND CROSSING BORE #76

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 30,
T146N, R95W



BORE DESIGN

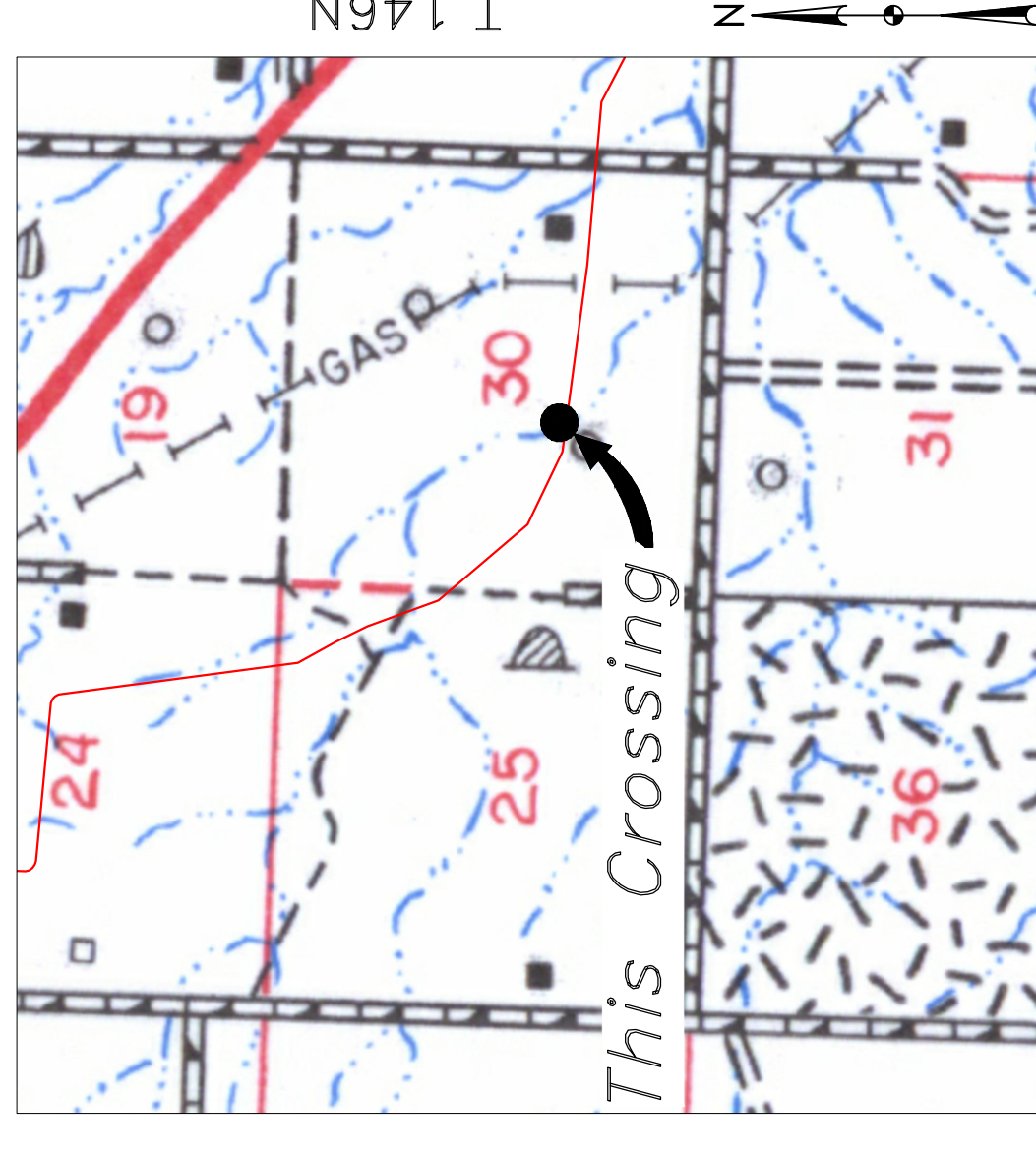


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1854+00.25	47°26'02.23" N	102°50'06.85" W
END BORE	1858+27.61	47°26'00.52" N	102°50'01.17" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 427.36 FT.
TOTAL BORE LENGTH = 429.4 FT.



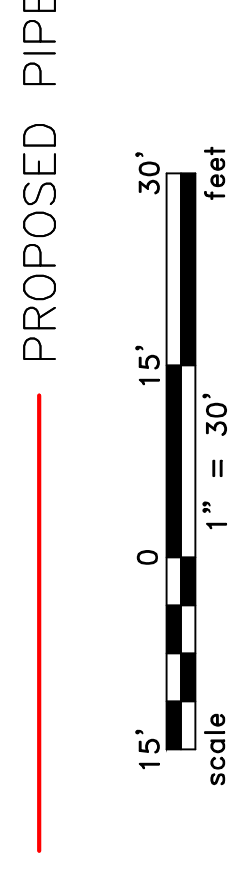
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND



LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	RIGHT OF WAY		WETLAND EASEMENT
	WATER LINE		ELECTRIC EASEMENT
	GAS LINE		UTILITY POLE
	EXISTING PIPELINE		PROPOSED BORE
	EXISTING ROAD		EROSION CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	429'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #76**

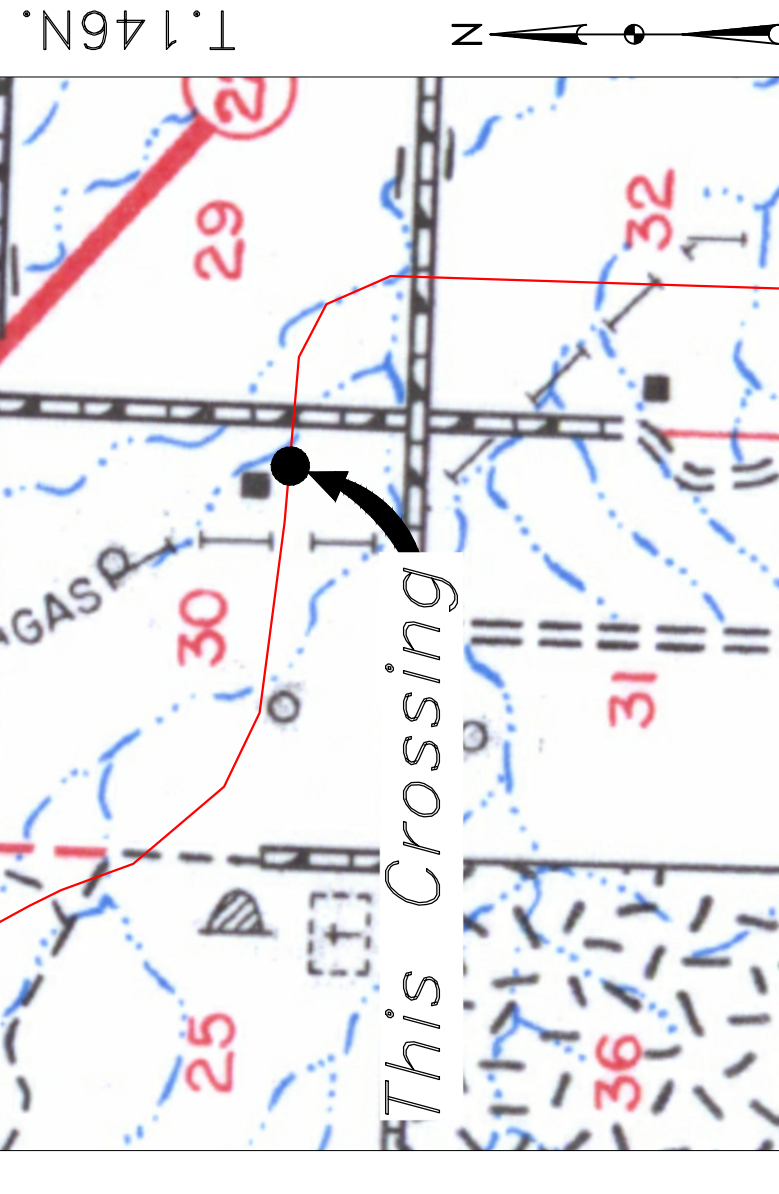
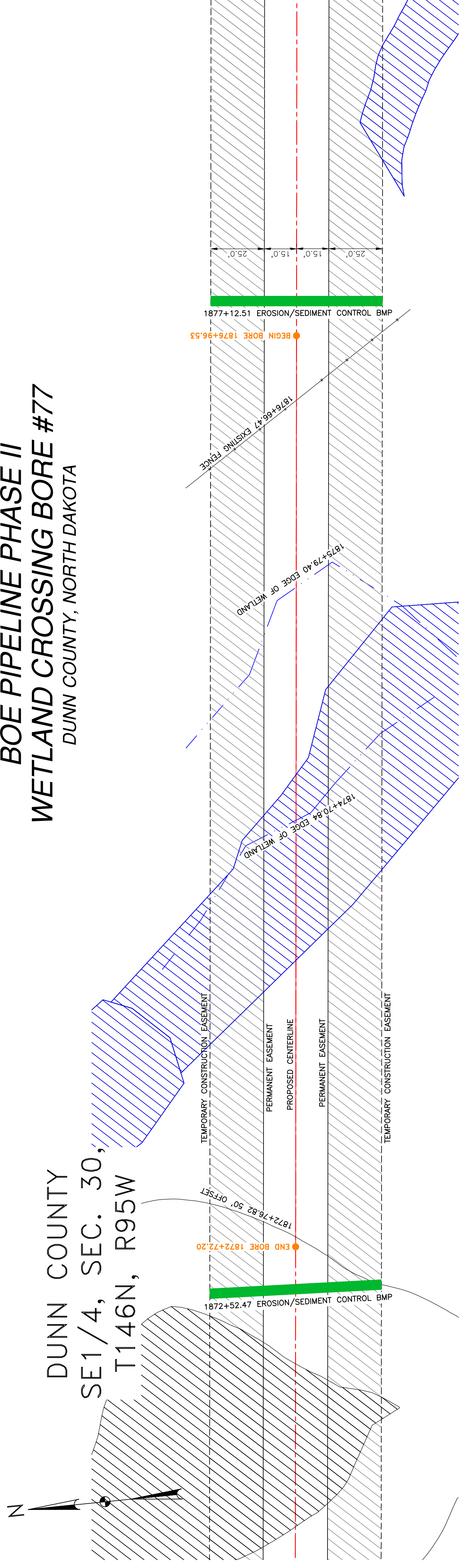
SECTION 30, T.146N, R.95W, DUNN COUNTY, NORTH DAKOTA

**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**

KLJ
1555 Columbia Street
Bismarck, ND 58503

BOE PIPELINE PHASE II WETLAND CROSSING BORE #77 DUNN COUNTY, NORTH DAKOTA

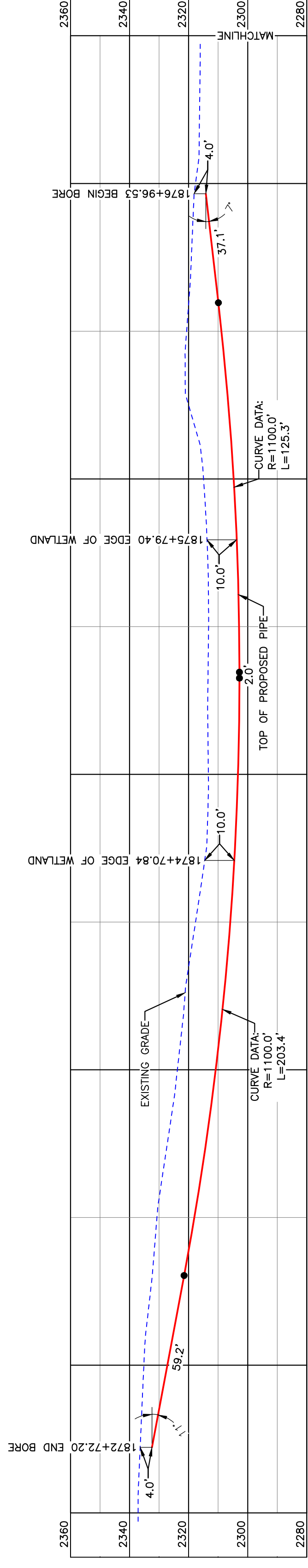
DUNN COUNTY
SE1/4, SEC. 30,
T146N, R95W



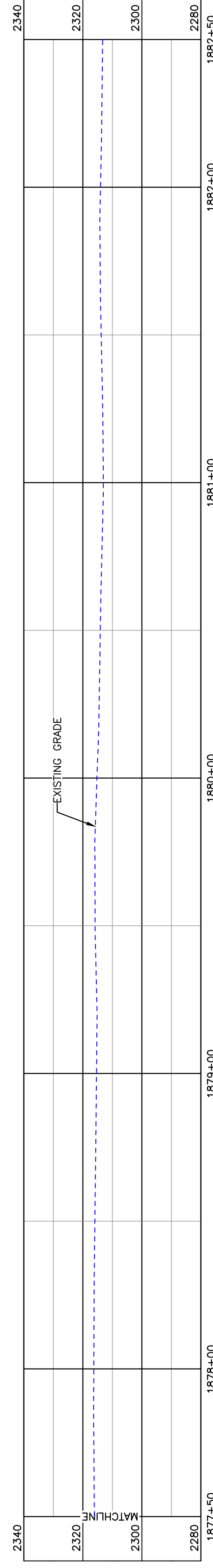
Location Map



Aerial Map



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1876+96.53	47°25'58.55" N	102°49'34.16" W
END BORE	1872+72.20	47°25'58.97" N	102°49'40.30" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 424.63 FT.
TOTAL BORE LENGTH = 426.9 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND
— PROPOSED PIPE



LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	GRASS CENTERLINE	—	ROAD
—	WATER LINE	—	ELECTRIC
—	FOREIGN PIPELINE	—	UTILITY POLE
—	EXISTING ROAD	—	PROPOSED BORE
—	UNDERGROUND COM. LINE	—	EROSION/SEDIMENT CONTROL BMP
—		—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	427'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

DRAWN BY:	A. ROMANN
DATE:	2/17/16
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	
KLJ JOB NO.:	1713271
REVISION:	1/25



BAKKEN OIL EXPRESS
BOE PIPELINE PHASE II
WETLAND CROSSING BORE #77
SECTION 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

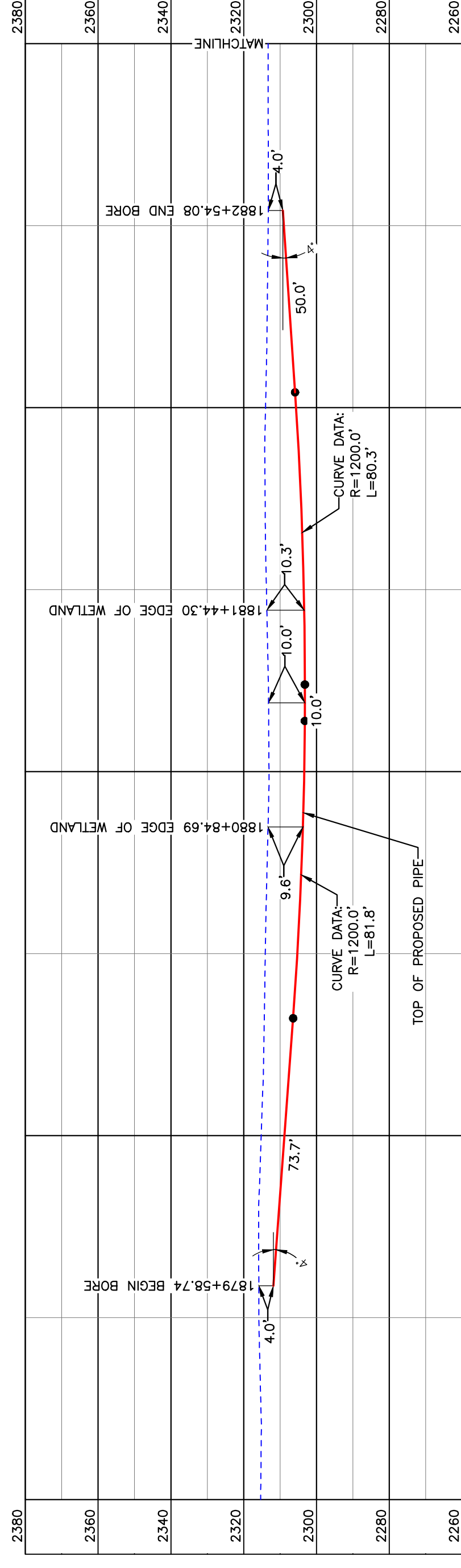
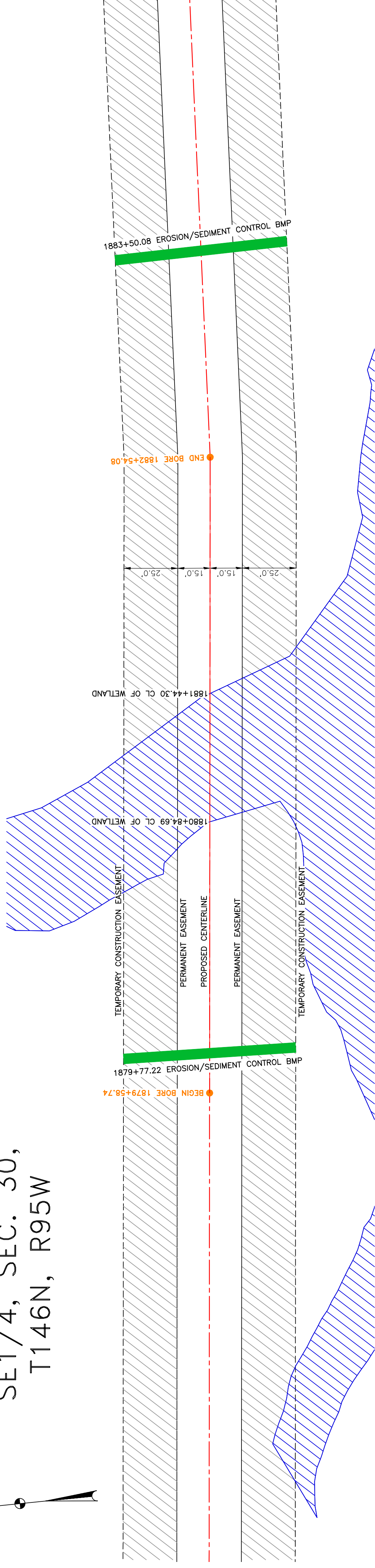
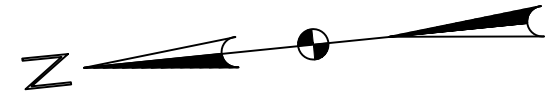


1555 Columbia Street
Bismarck, ND 58503
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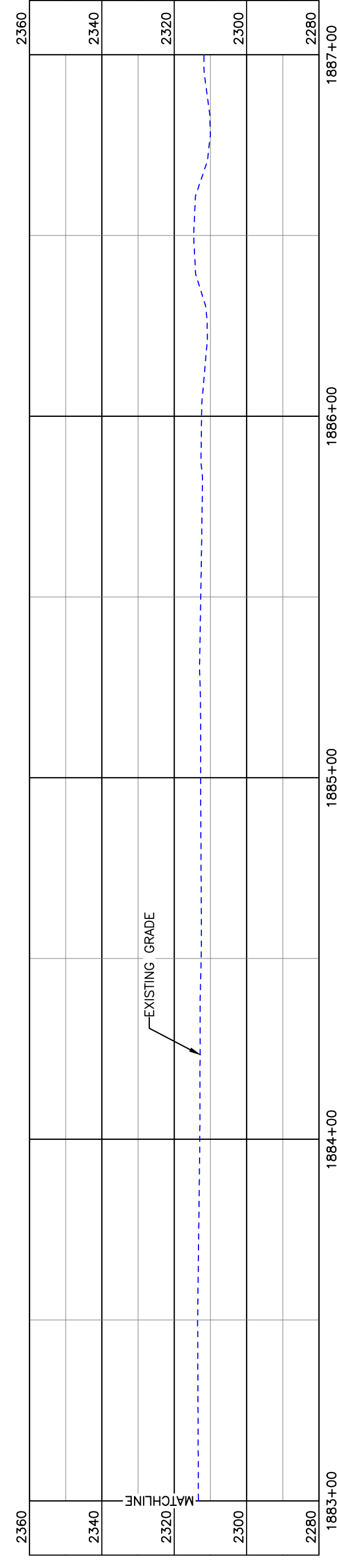
BOE PIPELINE PHASE II WETLAND CROSSING BORE #78

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 30,
T146N, R95W



BORE DESIGN



PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1879+58.74	47°25'58.28" N	102°49'30.37" W
END BORE	1882+54.08	47°25'57.99" N	102°49'29.09" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 295.34 FT.
TOTAL BORE LENGTH = 295.80 FT.



R.96W | R.95W.

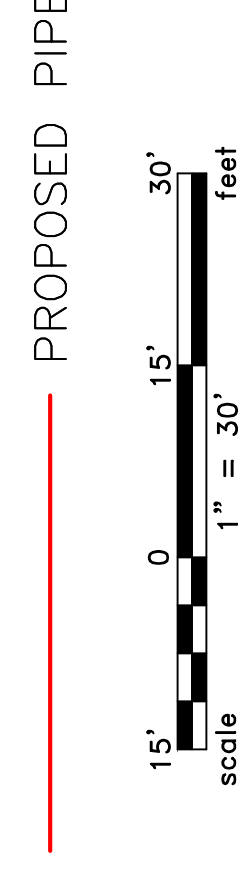
Location Map



Aerial Map

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 1.4-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

—	PROPERTY LINE	—	* EXISTING FENCE
---	SECTION LINE	-----	FIBER OPTIC COM. LINE
---	WATER LINE	---	ROAD
---	WATER PIPELINE	---	UTILITY POLE
---	EXISTING ROAD	---	PROPOSED BORE
---	UNDERGROUND COM. LINE	---	EROSION/SEDIMENT CONTROL BMP
		---	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	296'	16" OD, 0.344" W.T. API 5L X70, 1.4-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

DRAWN BY: R. HENDRICKSON
DATE: 2/17/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KLJ JLN: 1713271
REVISION:

SHEET: 1/26

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #78**

SECTION 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA



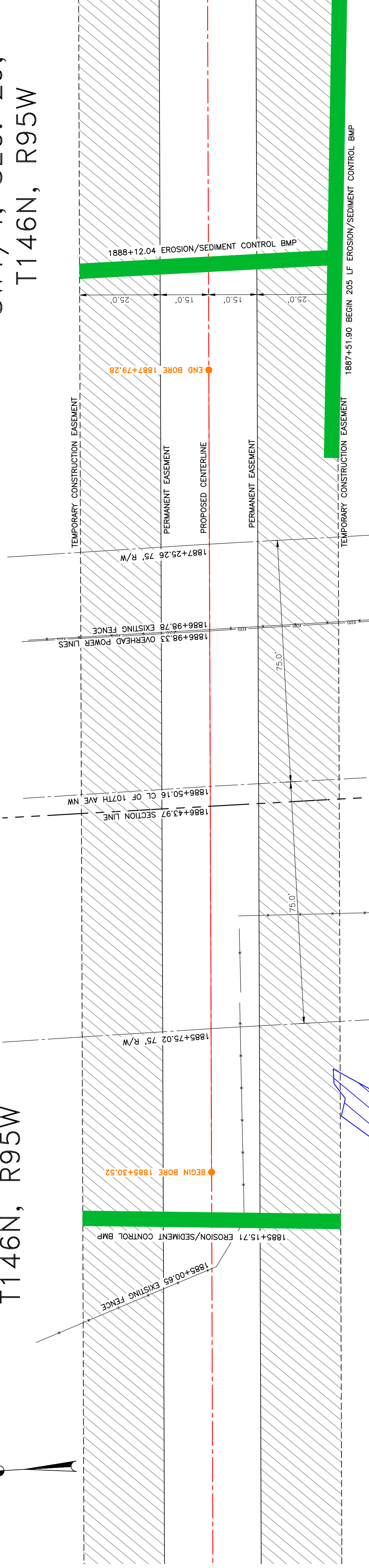
**BAKKEN OIL EXPRESS
EXPRESS PIPELINE**



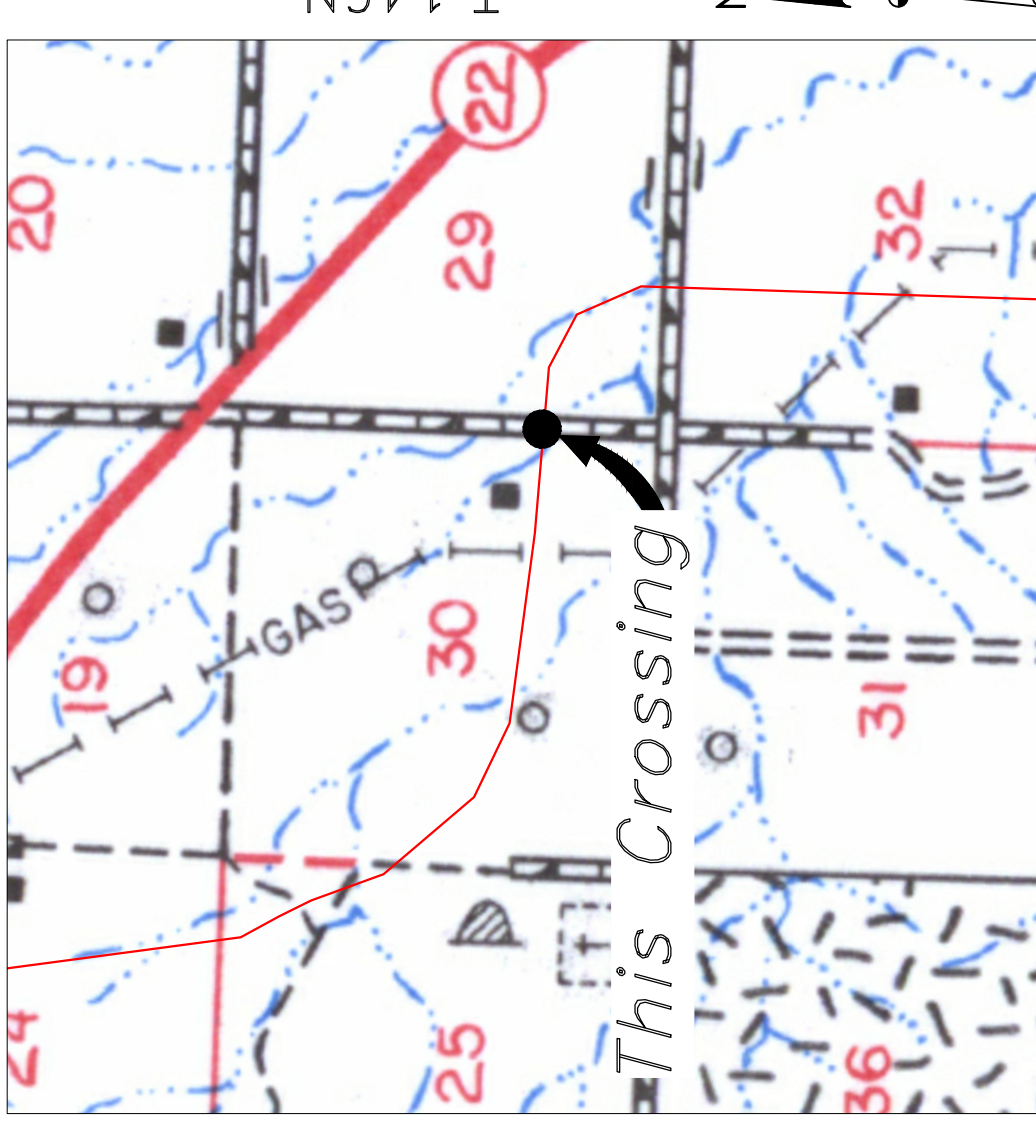
BOE PIPELINE PHASE II
107TH AVE NW CROSSING BORE #79
 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
 SE1/4, SEC. 30,
 T146N, R95W

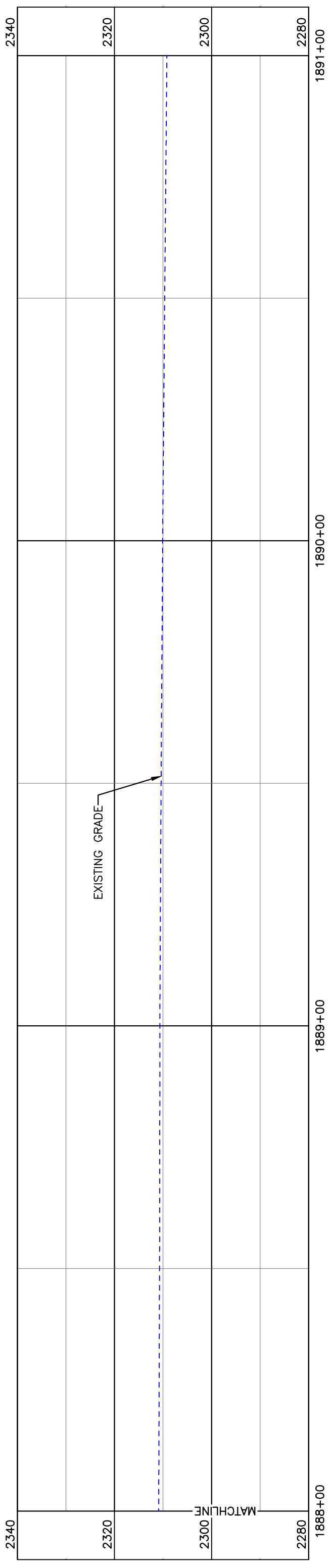
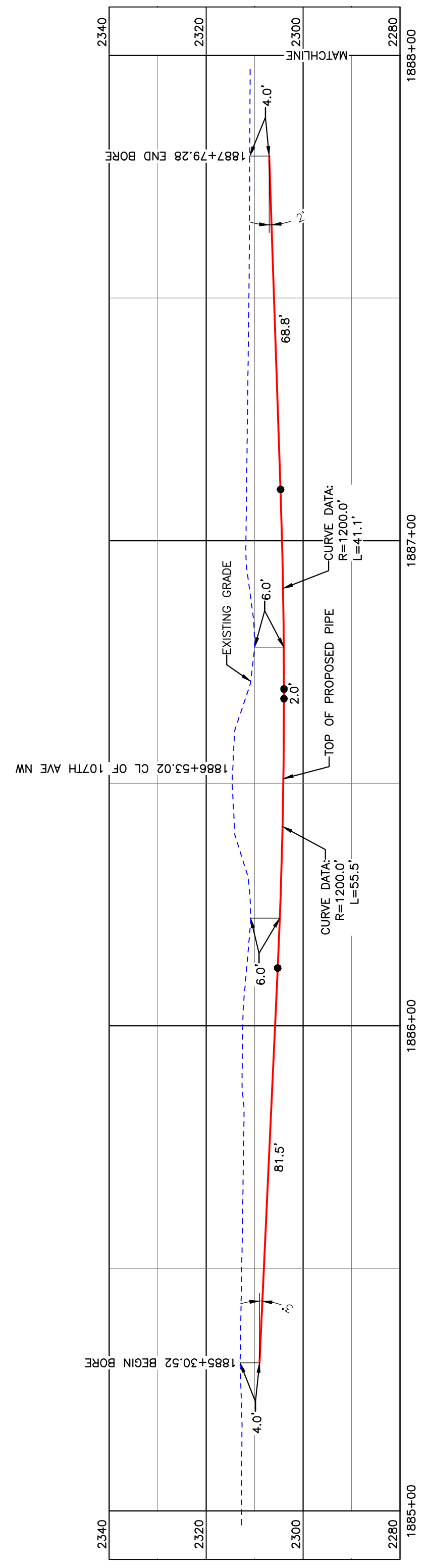
DUNN COUNTY
 SW1/4, SEC. 29,
 T146N, R95W



Location Map



Aerial Map



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1885+30.52	47°25'57.83" N	102°49'22.08" W
END BORE	1887+79.28	47°25'57.69" N	102°49'18.47" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 248.75 FT.
 TOTAL BORE LENGTH = 248.9 FT.

NOTE:
 1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
 Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE

LEGEND

—	PROPERTY LINE
—	SECTION LINE
—	PIPELINE CENTERLINE
—	WATER LINE
—	EXISTING ROAD
—	UNDERGROUND COM. LINE
—	EXISTING FENCE
—	FIBER OPTIC COM. LINE
—	RAILROAD
—	UTILITY POLE
—	PROPOSED PIPE
—	PROPOSED BORE
—	EROSION/SEDIMENT CONTROL BMP
—	MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	249'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

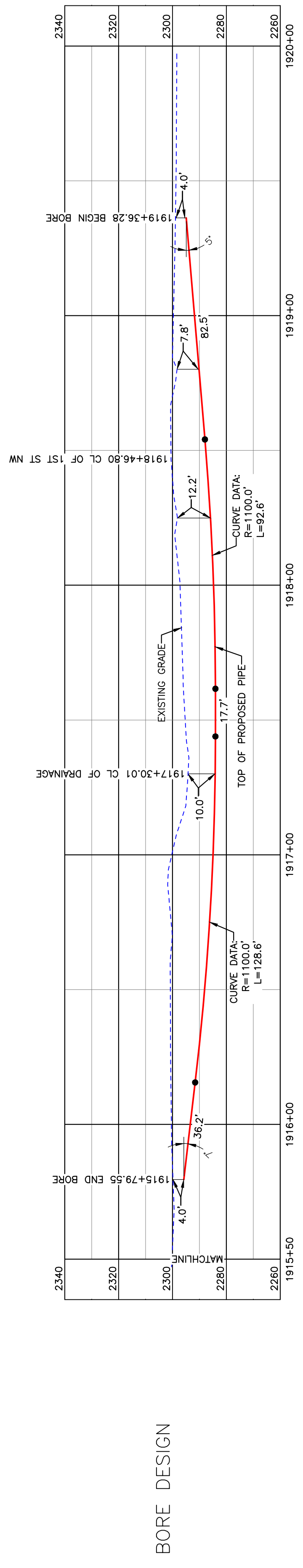
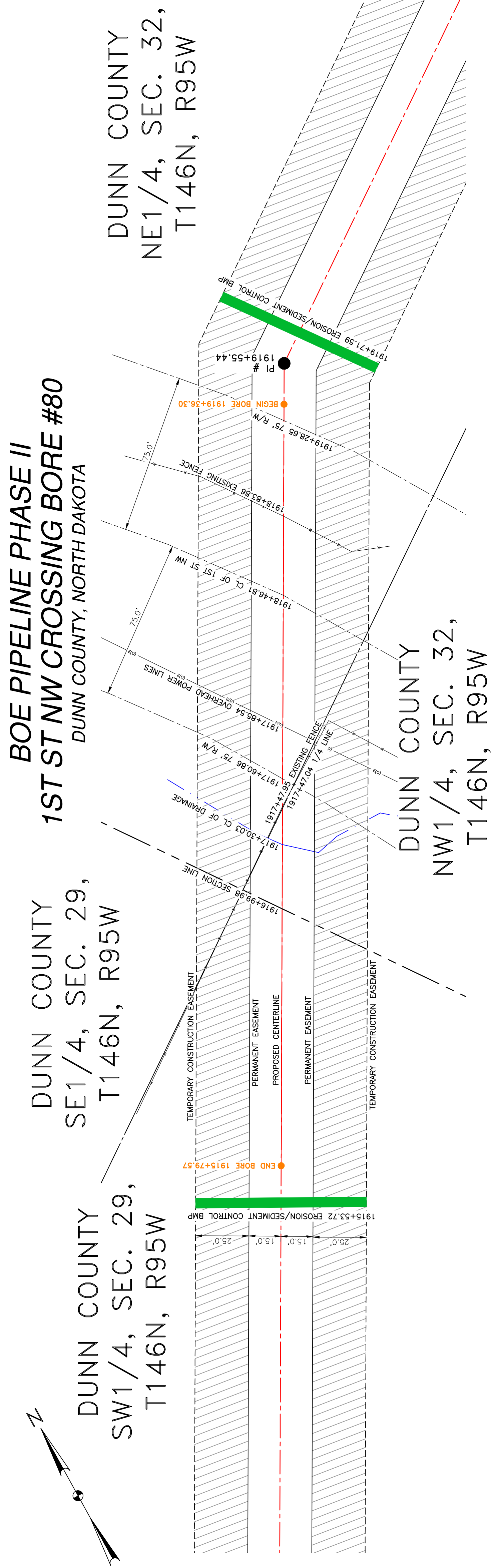
BOE PIPELINE PHASE II
 107TH AVE BORE #79 CROSSING BORE
 SECTIONS 29 & 30, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

KLJ
 BAKKEN OIL EXPRESS
 BAKKEN OIL EXPRESS PIPELINE

SCALE: 1" = 20'

DRAWN BY: A. ROMANN
 DATE: 2/17/16
 CHECKED BY:
 APPROVED BY:
 BOE APPROVED BY:
 KLJ JOB NO.: 1713271
 REVISION:
 SHEET: 127

1555 Collins Street
 Bismarck, ND 58503
 © KLJ 2016



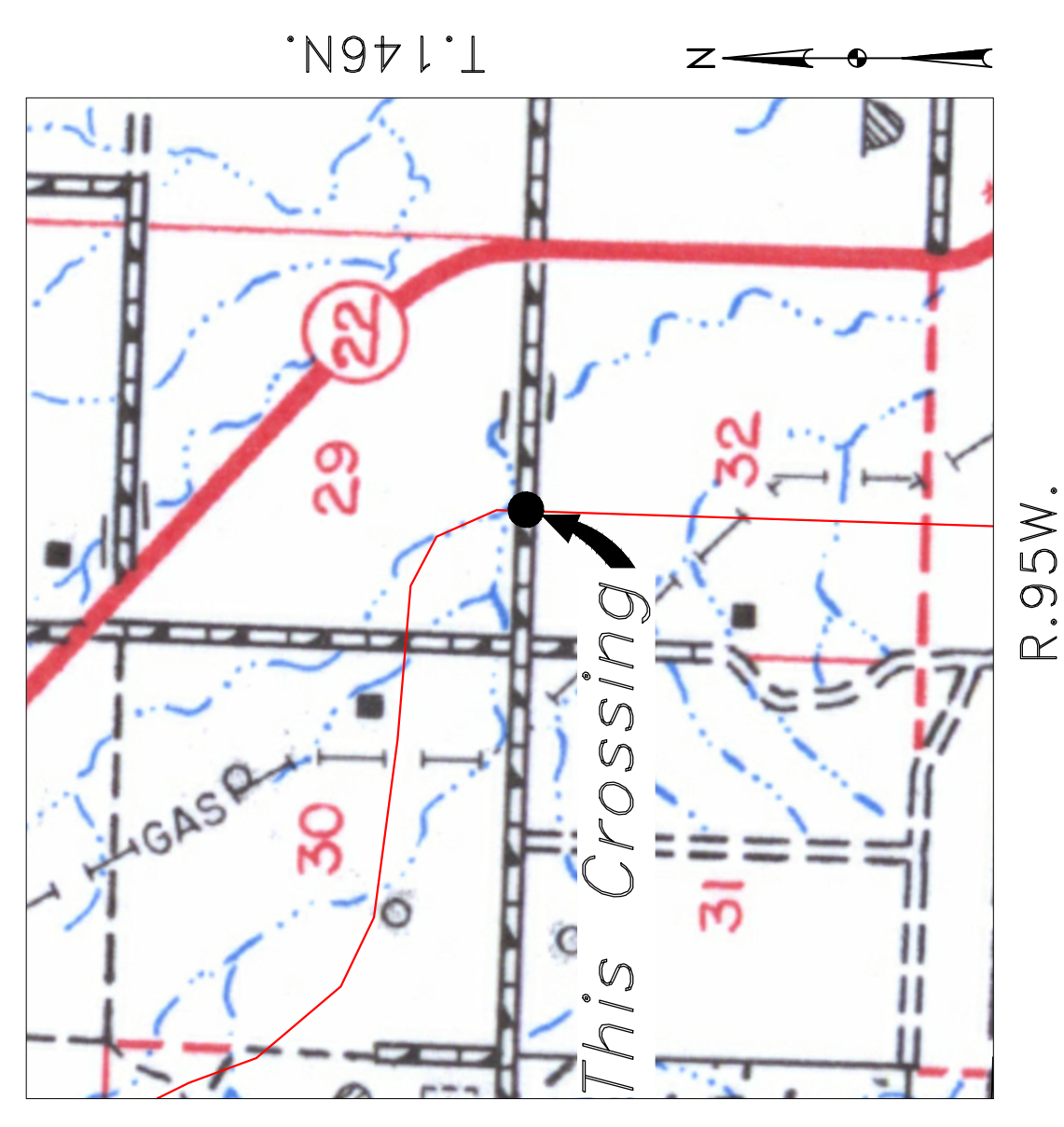
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1919+36.30	47°25'45.96" N	102°48'40.80" W
END BORE	1915+79.57	47°25'49.14" N	102°48'43.03" W

MK NO.	QTY.	DESCRIPTION
2	358'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

LEGEND	REFERENCE DRAWINGS	REVISIONS										
<ul style="list-style-type: none"> PROPERTY LINE SECTION LINE PIPE CENTERLINE WATER LINE FOREIGN PIPELINE EXISTING ROAD UNDERGROUND COM. LINE EXISTING FENCE FIBER OPTIC COM. LINE RAILROAD UTILITY POLE ELECTRIC EASEMENT PROPOSED BORE EROSION/SEDIMENT CONTROL BMP MARKER POST 	<table border="1"> <thead> <tr> <th>DWG. NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	DWG. NO.	DESCRIPTION			<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION			
DWG. NO.	DESCRIPTION											
NO.	DATE	DESCRIPTION										

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 356.73 FT.
TOTAL BORE LENGTH = 357.6 FT.



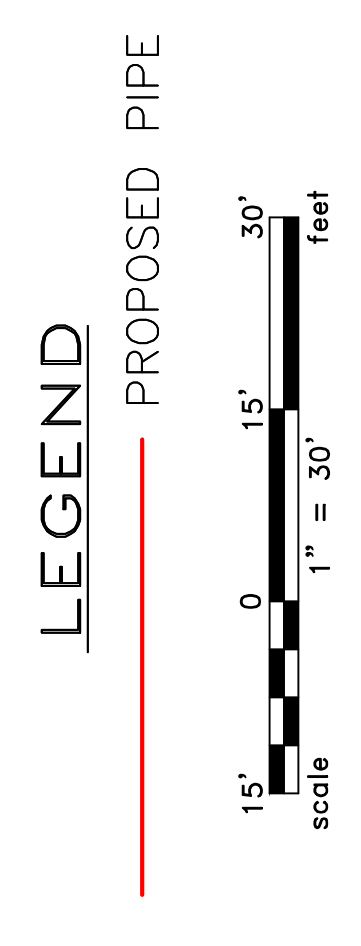
Location Map



Aerial Map

NOTE:
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILs FBE, 30-35 MILs ARO



MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
MK NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
2	358'		16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO		

PROPERTY LINE	SECTION LINE	PIPE CENTERLINE	WATER LINE	FOREIGN PIPELINE	EXISTING ROAD	UNDERGROUND COM. LINE	EXISTING FENCE	FIBER OPTIC COM. LINE	RAILROAD	UTILITY POLE	ELECTRIC	EASEMENT	PROPOSED BORE	EROSION/SEDIMENT CONTROL BMP	MARKER POST
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

APPROVED BY:	DATE:	CHECKED BY:	DATE:
KLJ	17/12/21	A. ROMANN	2/17/16

BORE APPROVED BY:	REVISION:	SHEET:
KLJ	17/12/21	128

BOE PIPELINE PHASE II	
1ST ST NW CROSSING BORE #80	
SECTIONS 29 & 32, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA	BAKKEN OIL EXPRESS PIPELINE

1655 Columbia Street
Bismarck, ND 58503

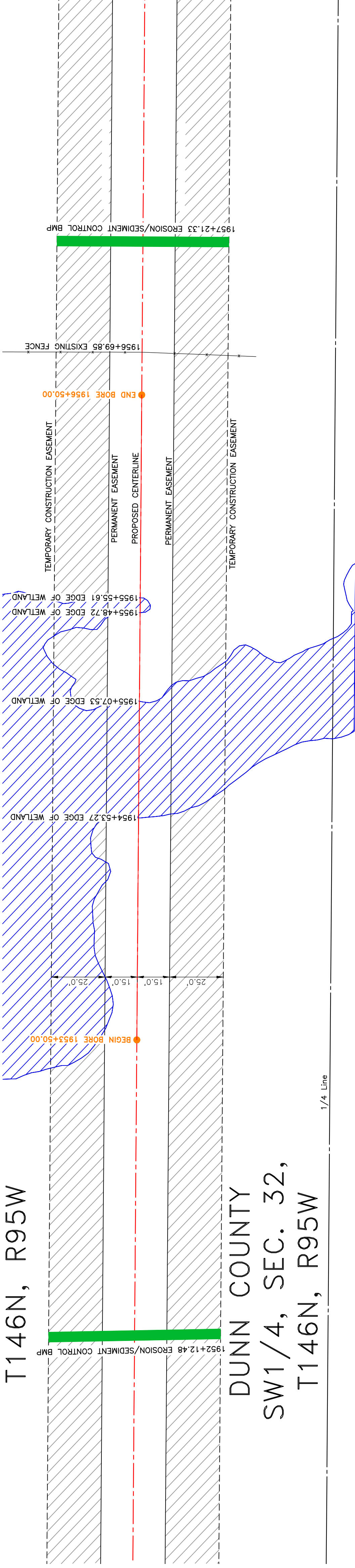
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DUNN COUNTY
SE1/4, SEC. 32,
T146N, R95W

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE #81**
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SW1/4, SEC. 32,
T146N, R95W



BORE DESIGN

PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	1953+50.00	47°25'12.28" N	102°48'40.83" W
END BORE	1956+50.00	47°25'06.32" N	102°48'40.85" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 300.00 FT.
TOTAL BORE LENGTH = 300.40 FT.

LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	RIGHT OF WAY LINE		WETLAND EASEMENT
	PIPELINE CENTERLINE		UTILITY POLE
	WATER LINE		PROPOSED BORE
	EXISTING PIPELINE		EROSION/SEDIMENT CONTROL BMP
	EXISTING ROAD		MARKER POST
	UNDERGROUND COM. LINE		

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	301'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

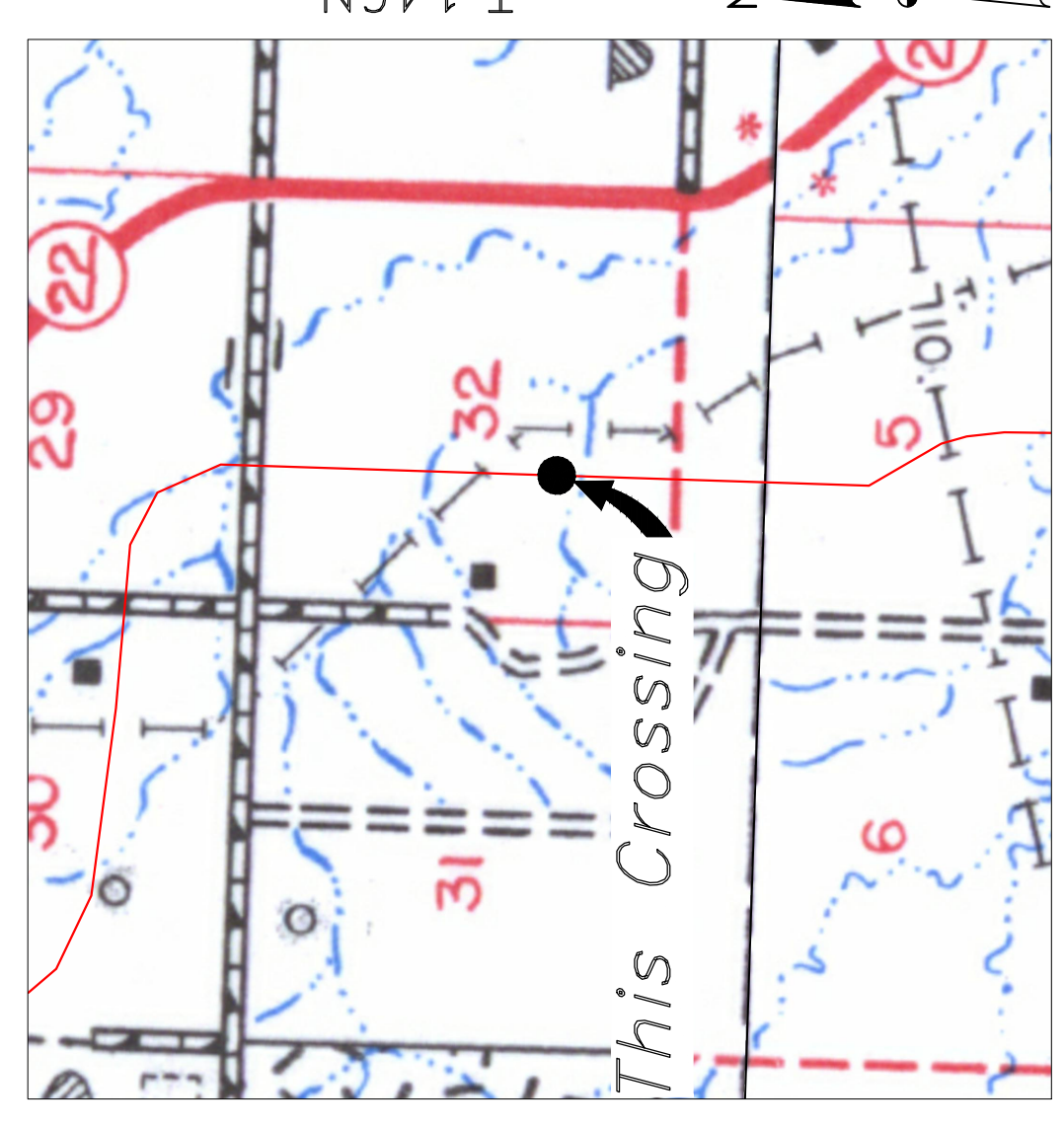
NO.	DATE	DESCRIPTION

**BOE PIPELINE PHASE II
WETLAND CROSSING BORE
#81**

SECTIONS 29 & 32, T.146N., R.95W., DUNN COUNTY, NORTH DAKOTA

**BAKKEN OIL EXPRESS
PIPELINE**

KLJ
1555 Columbia Street
Bismarck, ND 58503



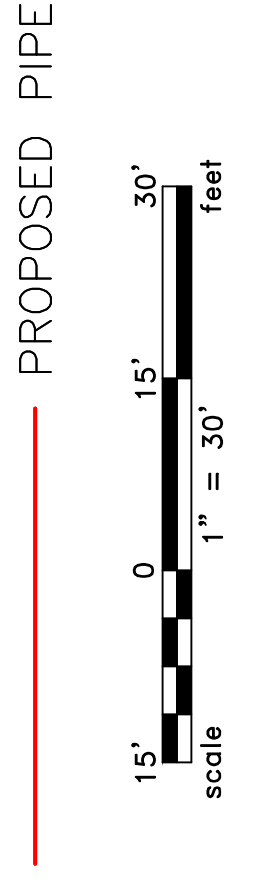
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 MILS FBE, 30-35 MILS ARO

LEGEND

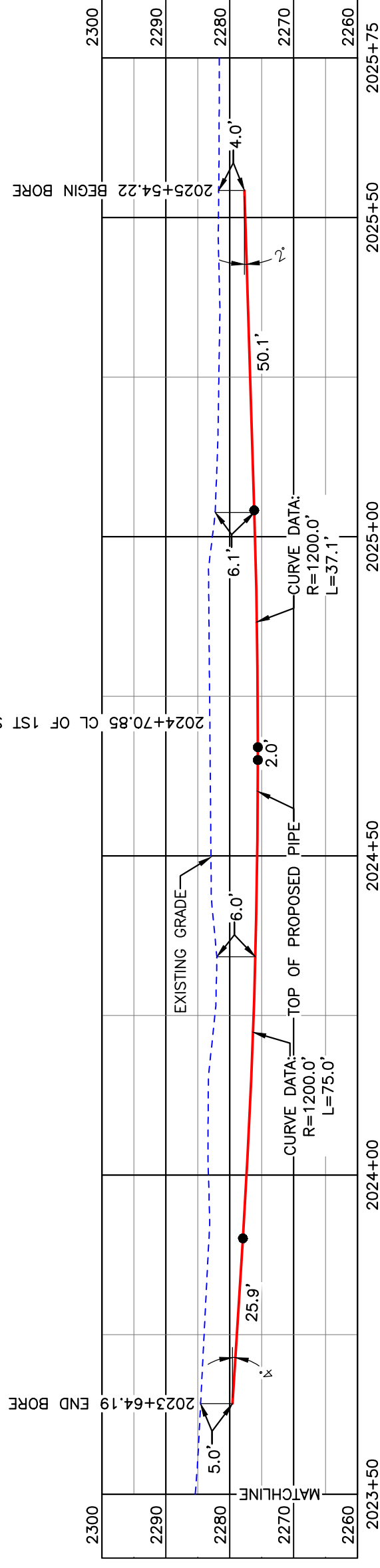
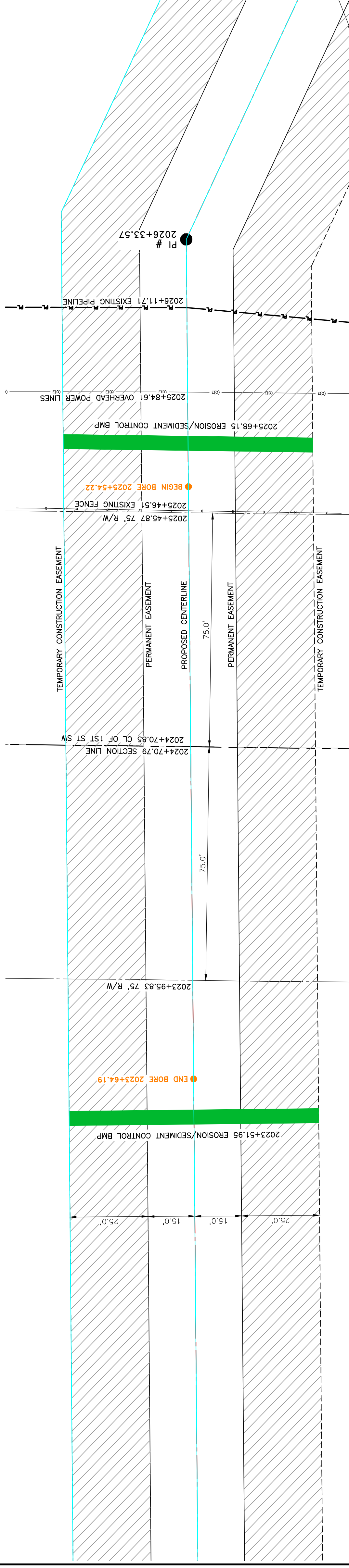


DUNN COUNTY
SE1/4, SEC. 5,
T145N, R95W

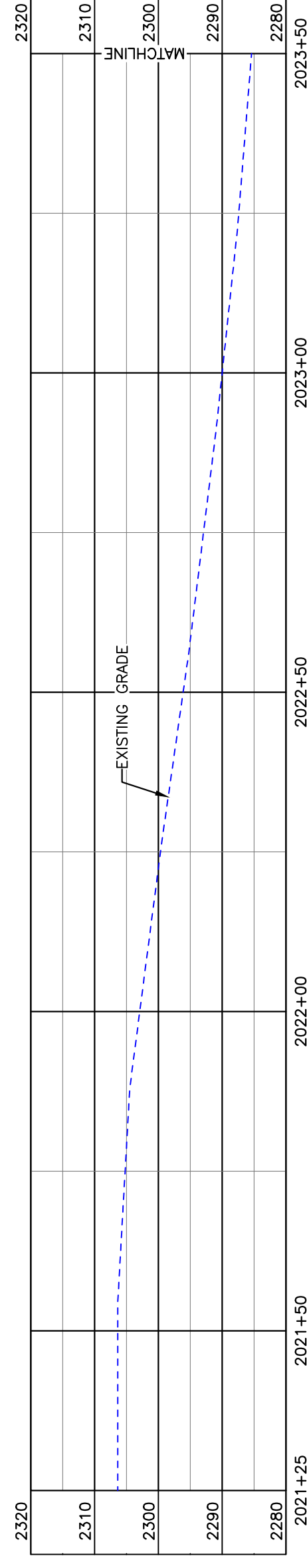


BOE PIPELINE PHASE II
1ST ST SW CROSSING BORE #82
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 8,
T145N, R95W



BORE DESIGN

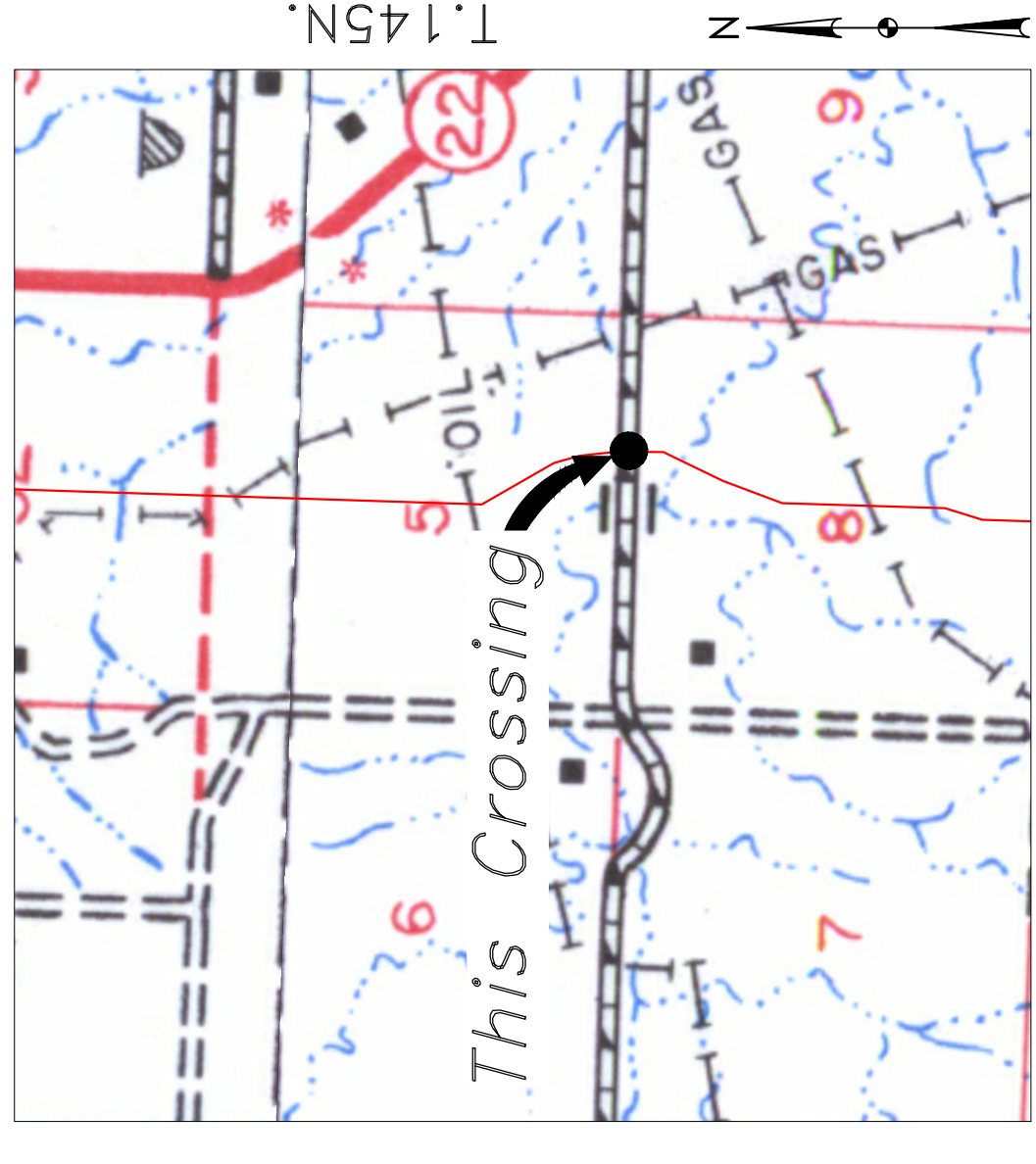


PULLBACK AREA

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2025+54.22	47°24'02.95" N	102°48'30.35" W
END BORE	2023+64.19	47°24'04.82" N	102°48'30.42" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 190.03 FT.
TOTAL BORE LENGTH = 190.1 FT.



Location Map



Aerial Map

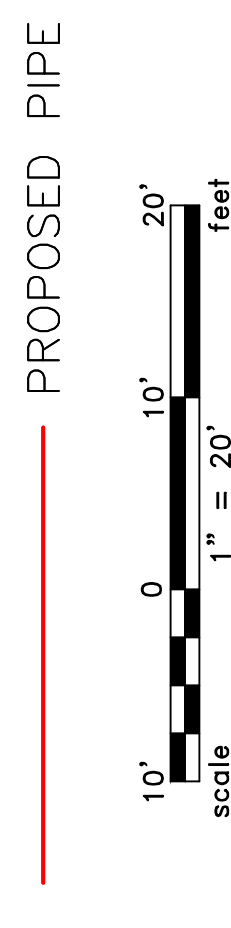
NOTE:

- INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

PROPERTY LINE	SECTION LINE	RIGHT OF WAY CENTERLINE	WATER LINE	EXISTING PIPELINE	UNDERGROUND COM. LINE	EXISTING FENCE	FIBER OPTIC COM. LINE	ROAD	UTILITY POLE	PROPOSED BORE	EROSION/SEDIMENT CONTROL BMP	MARKER POST
---	---	---	---	---	---	---	---	---	---	---	---	---

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	190'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'

DRAWN BY: A. ROMANIN	DATE: 4/25/16
CHECKED BY:	
APPROVED BY:	
BORE APPROVED BY:	
KLJ JLU	17/13/271
REVISION:	SHEET: 1/30

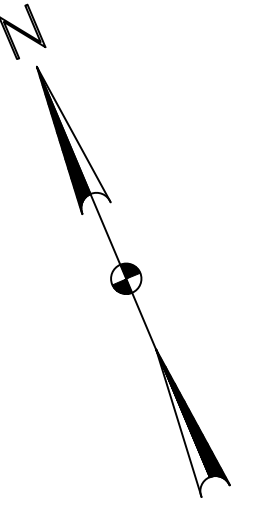


BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
1ST ST SW CROSSING BORE
SECTION 20, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

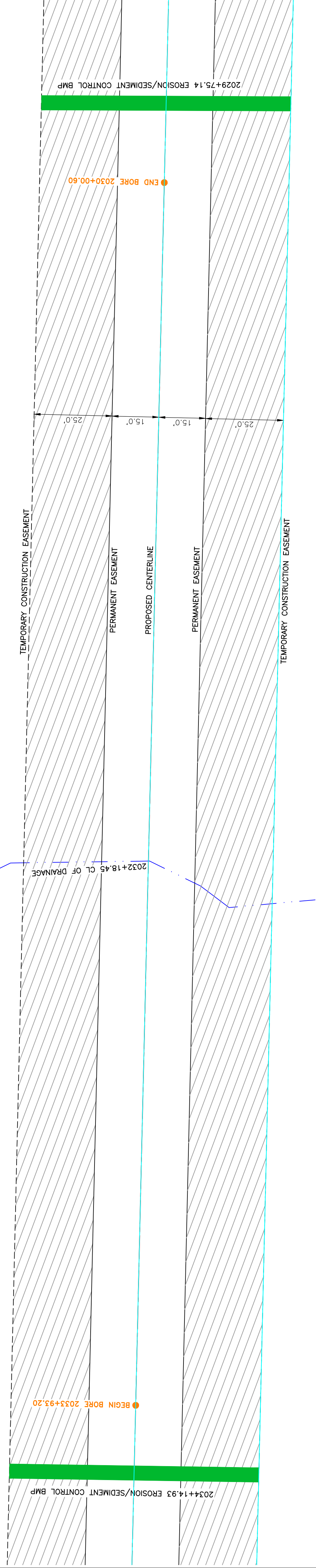


1555 Columbia Street
Bismarck, ND 58503
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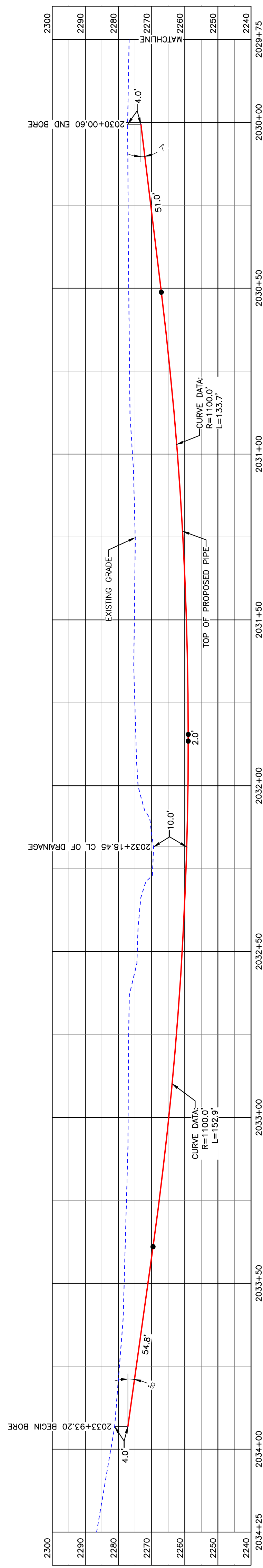


DUNN COUNTY
NE1/4, SEC. 8,
T145N, R95W

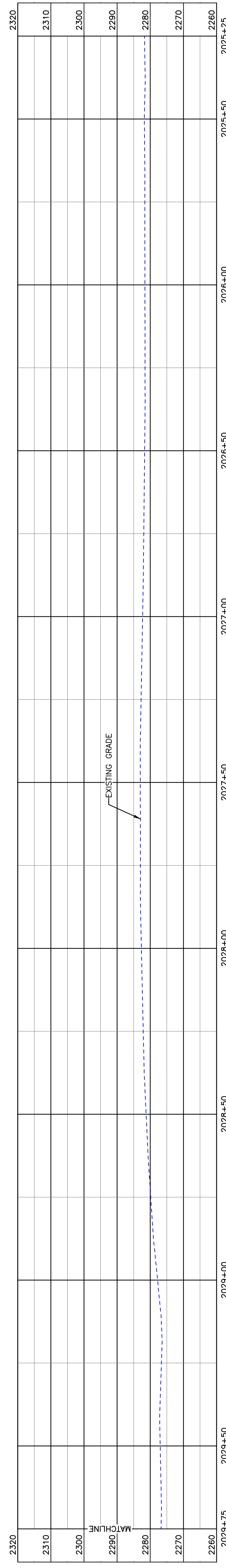
**BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #83**
DUNN COUNTY, NORTH DAKOTA



BORE DESIGN



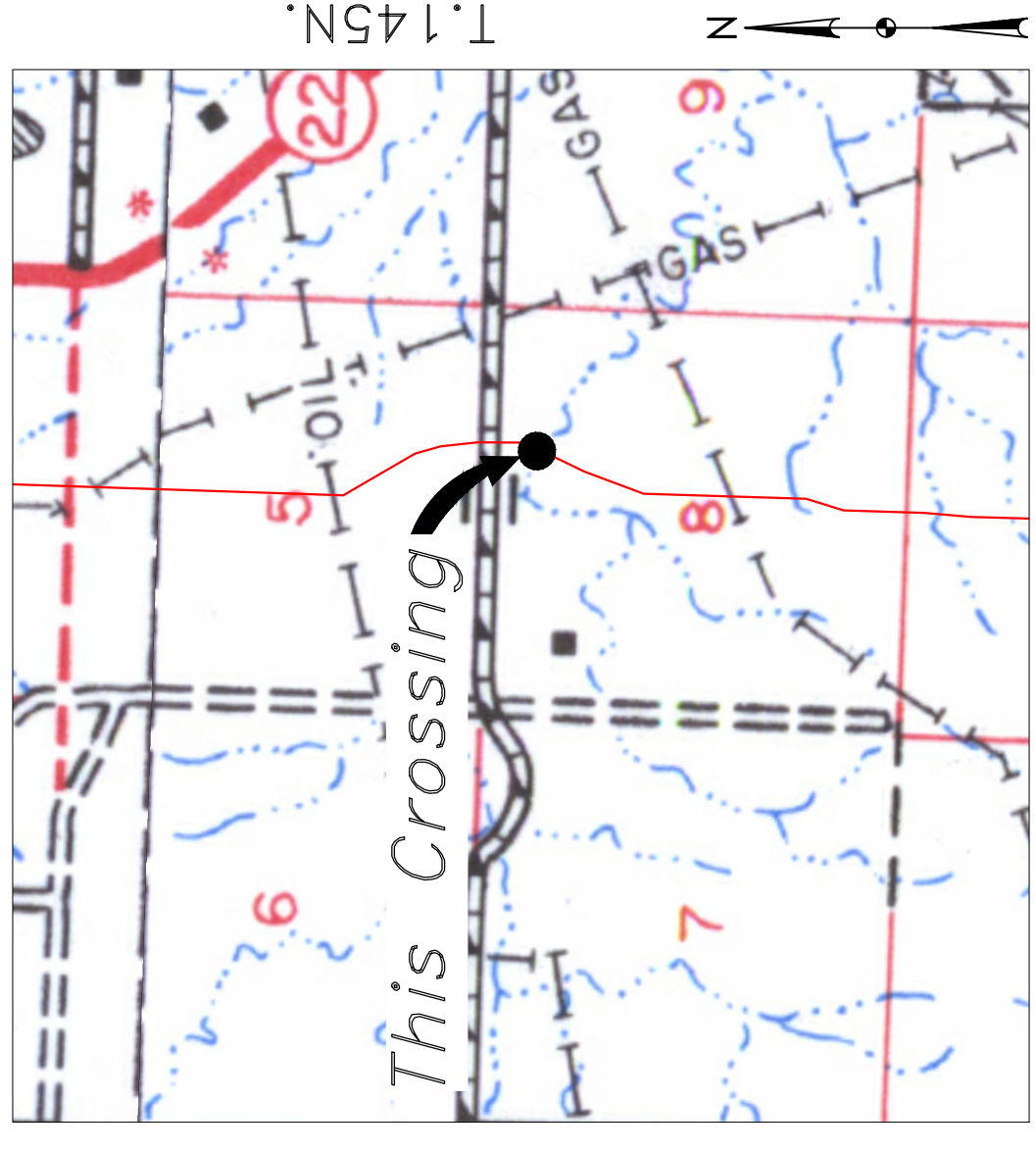
PULLBACK AREA



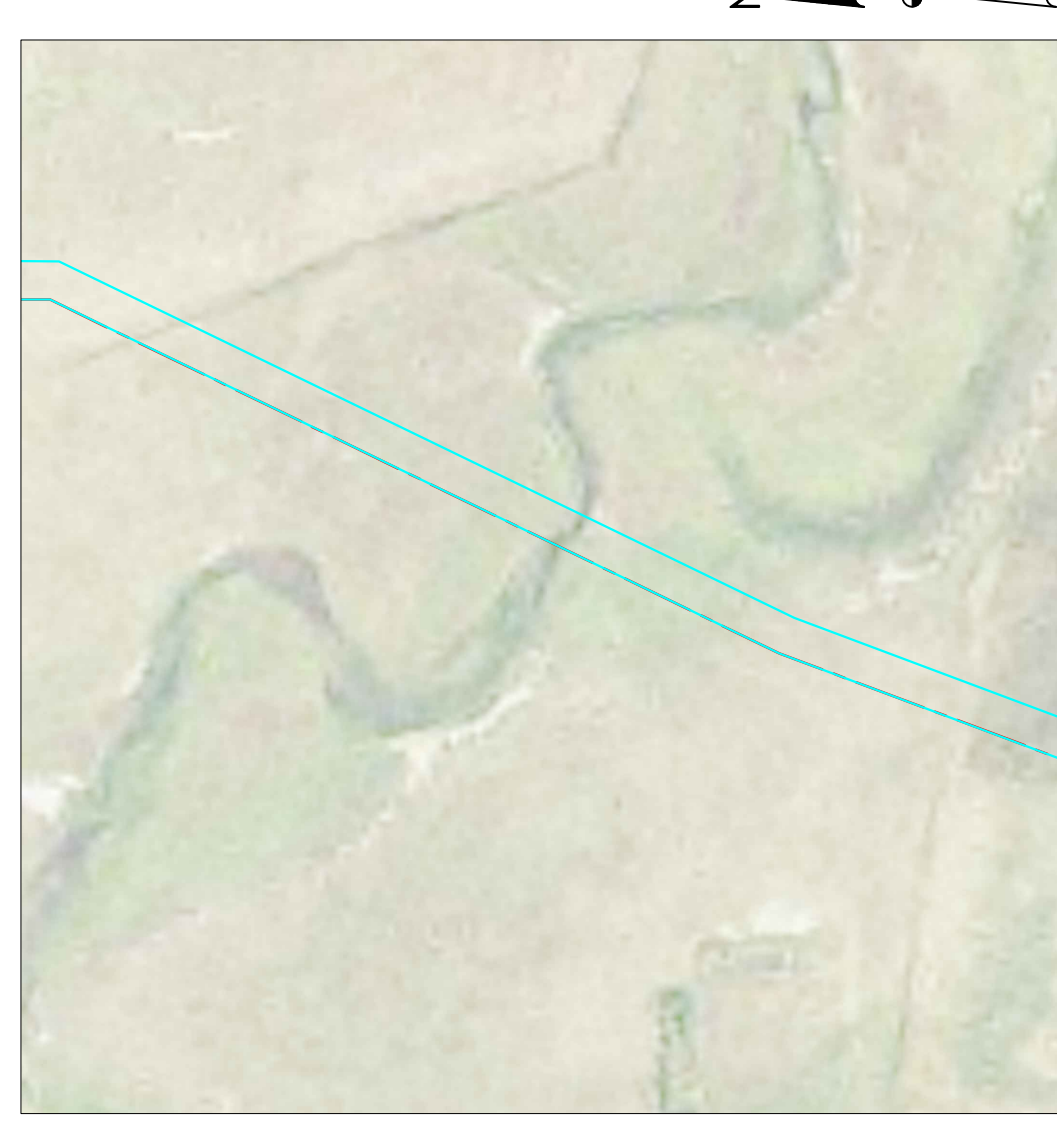
BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2033+93.20	47°23'55.32" N	102°48'34.85" W
END BORE	2030+00.60	47°23'58.86" N	102°48'32.52" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 392.59 FT.
TOTAL BORE LENGTH = 394.4 FT.



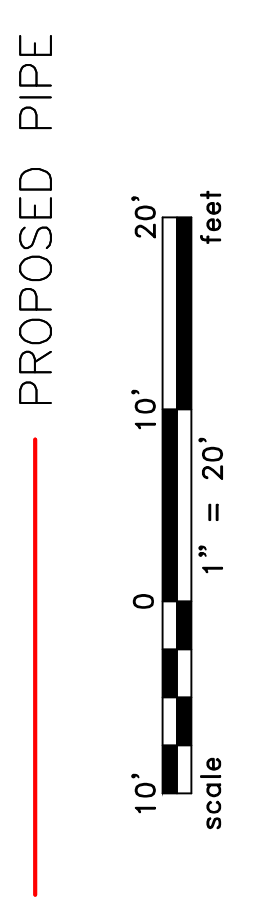
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	ROAD		WETLAND EASEMENT
	WATER LINE		UTILITY POLE
	FOREGROUND COM. LINE		PROPOSED BORE
	EROSION/SEDIMENT CONTROL BMP		MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	394'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 20'

SCALE: 1" = 20'
DRAWN BY: A. ROMANIN
DATE: 4/25/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KLJ 1713271
REVISION:
SHEET: 1/31

**BOE PIPELINE PHASE II
DRAINAGE CROSSING BORE #83**

SECTION 8, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

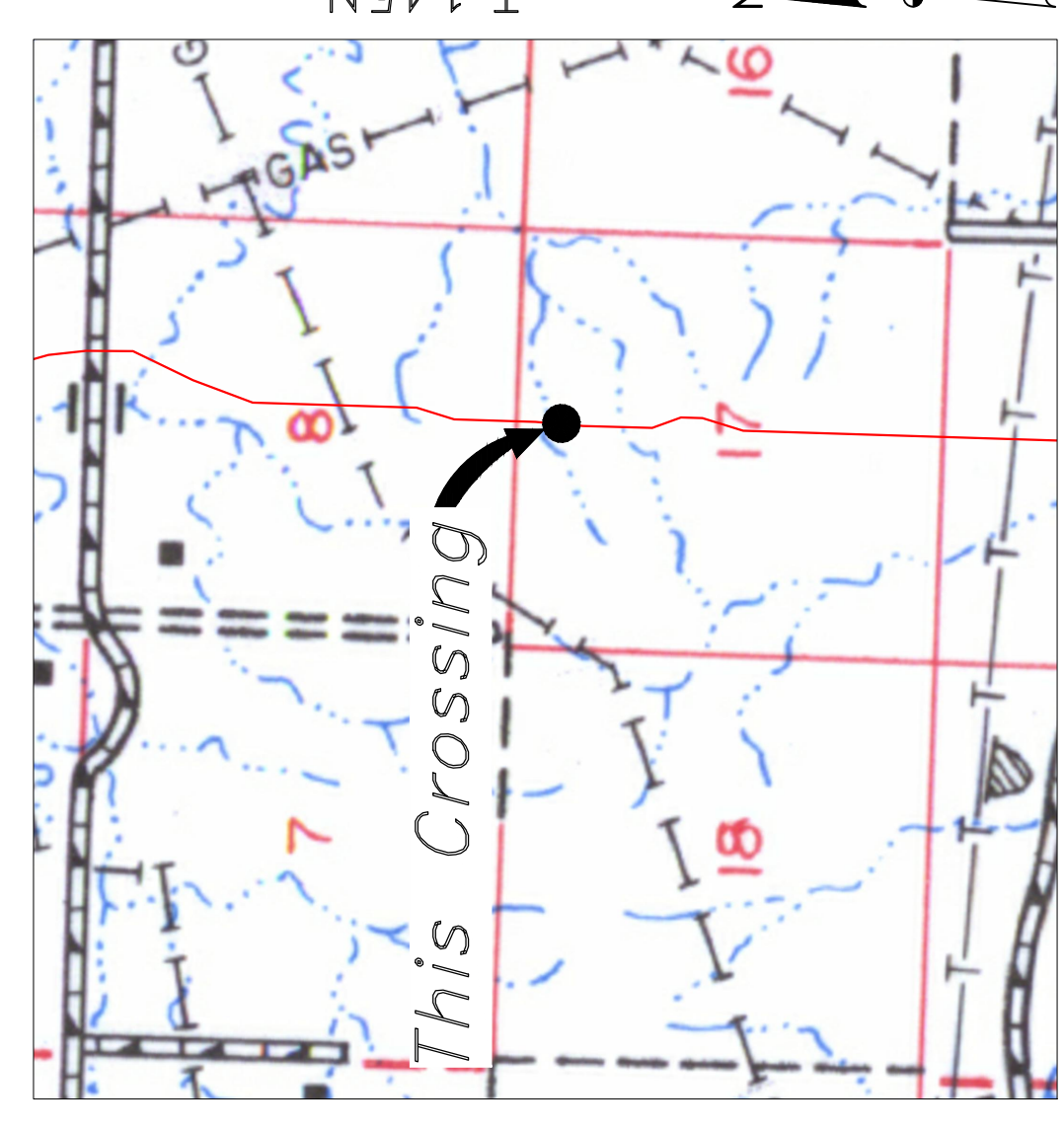
1658 Columbia Street
Bismarck, ND 58503

BAKKEN OIL EXPRESS
EXPRESS PIPELINE

DUNN COUNTY
NE1/4, SEC. 17,
T145N, R95W

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #84
DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NW1/4, SEC. 17,
T145N, R95W



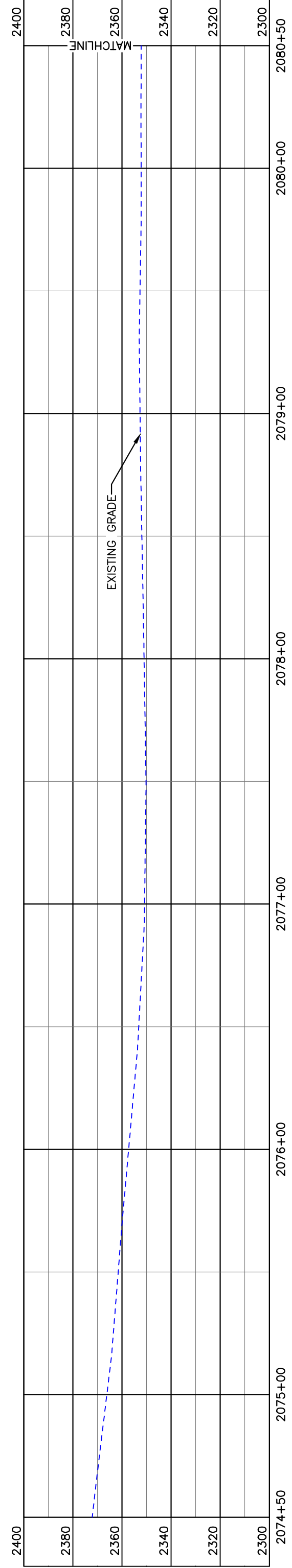
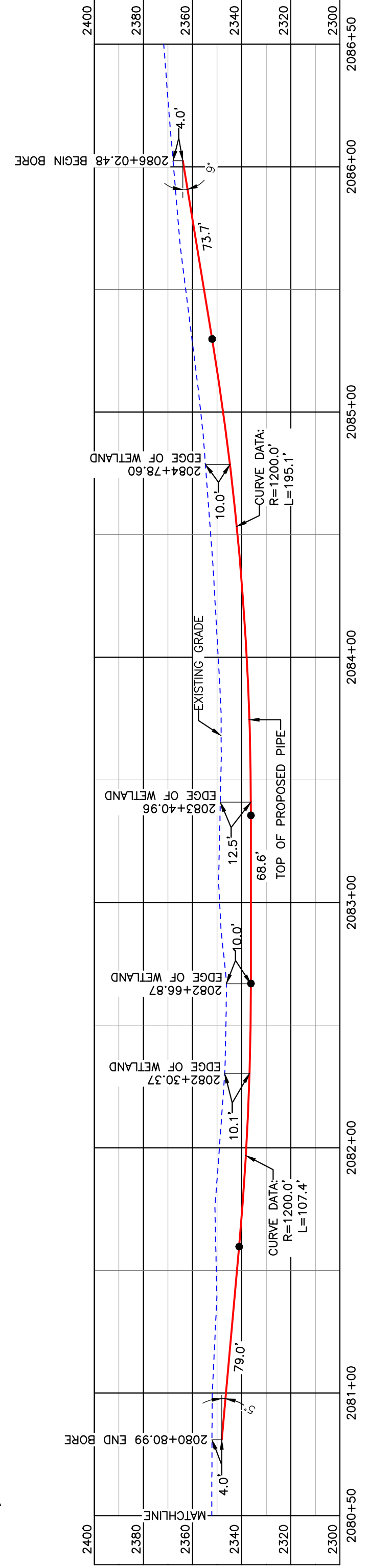
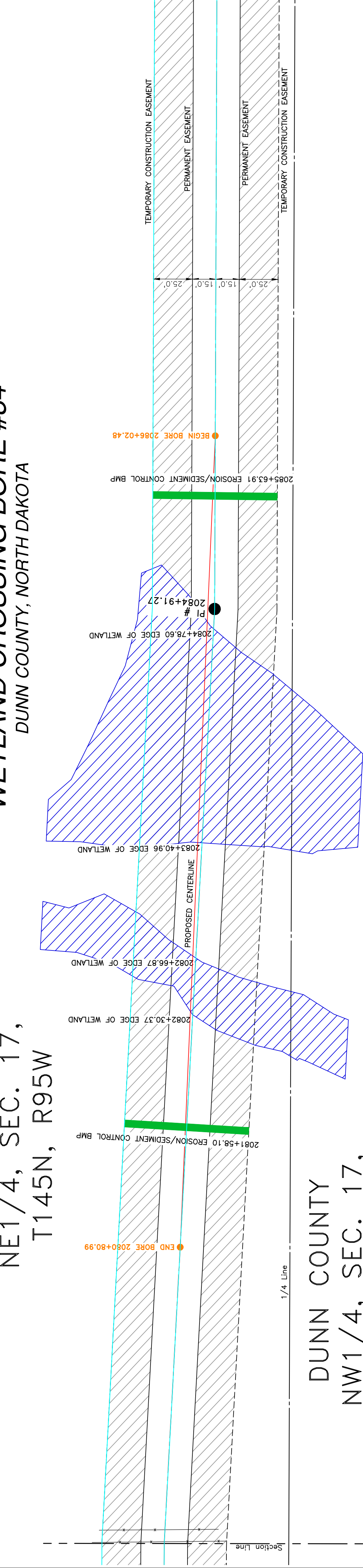
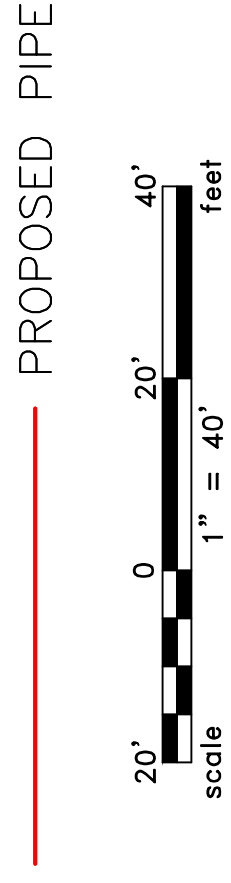
Location Map



Aerial Map

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND



TOTAL HORIZONTAL DISTANCE = 521.49 FT.

TOTAL BORE LENGTH = 523.8 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2086+02.48	47°23'04.60" N	102°48'41.63" W
END BORE	2080+80.99	47°23'09.74" N	102°48'41.31" W

LEGEND

- PROPERTY LINE
- SECTION LINE
- RAILROAD
- WATER LINE
- FOREIGN PIPELINE
- UNDERGROUND COM. LINE
- EXISTING FENCE
- FIBER OPTIC COM. LINE
- WETLAND EASEMENT
- UTILITY POLE
- PROPOSED PIPE
- PROPOSED ROAD
- UNDERGROUND COM. LINE
- AVOIDANCE AREA
- WETLAND EASEMENT
- ELECTRIC
- UTILITY POLE
- PROPOSED BORE
- EROSION/SEDIMENT CONTROL BMP
- MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	524'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

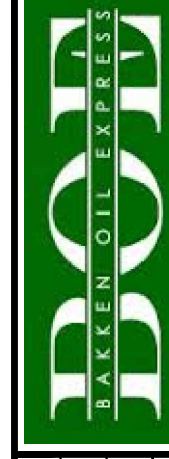
DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 40'

DRAWN BY: A. ROMANN
DATE: 4/25/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
KJL JUL 17, 2016
REVISION:

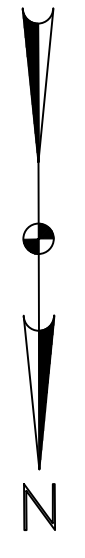


BAKKEN OIL EXPRESS
EXPRESS PIPELINE

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #84
SECTION 8, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

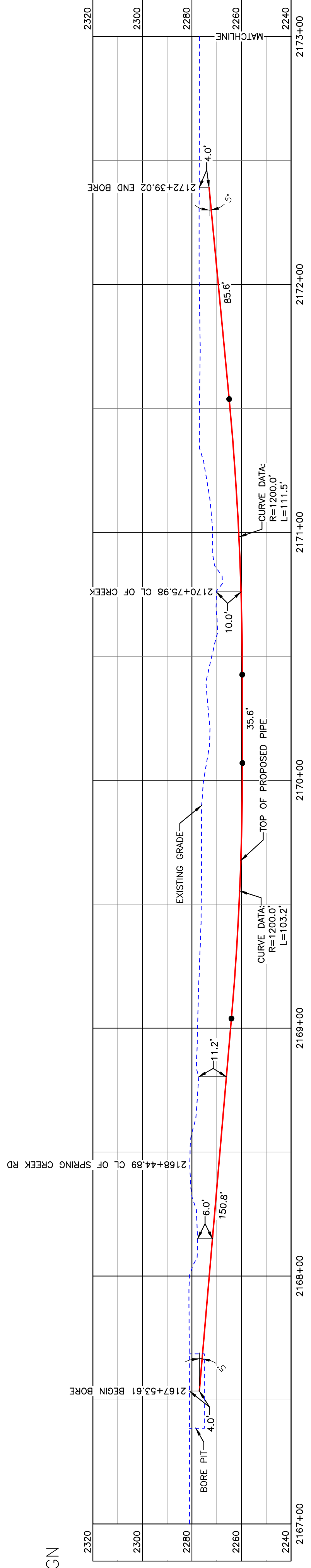
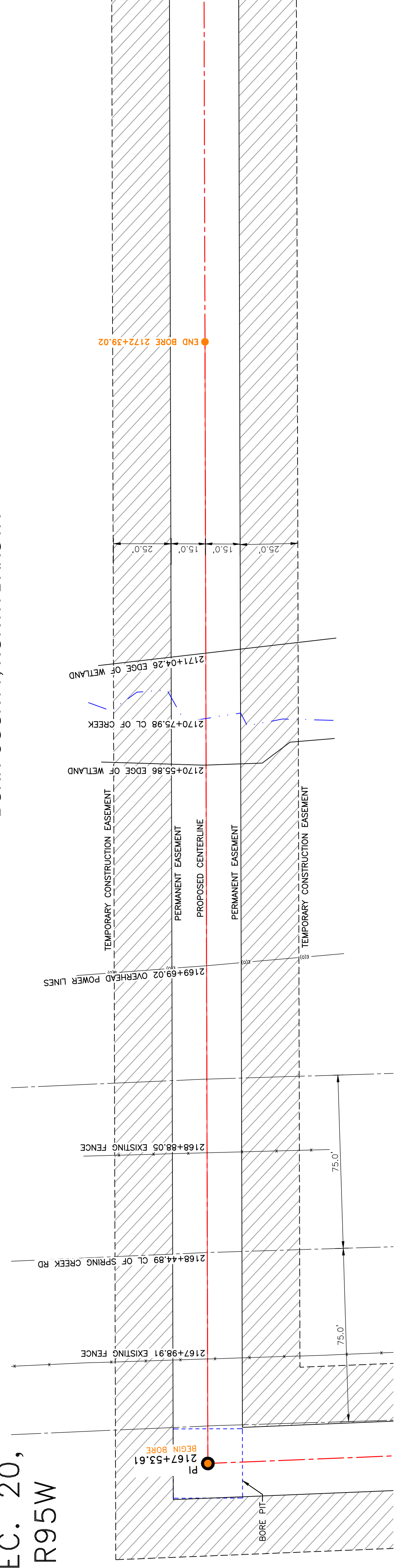


1555 Columbia Street
Bismarck, ND 58503

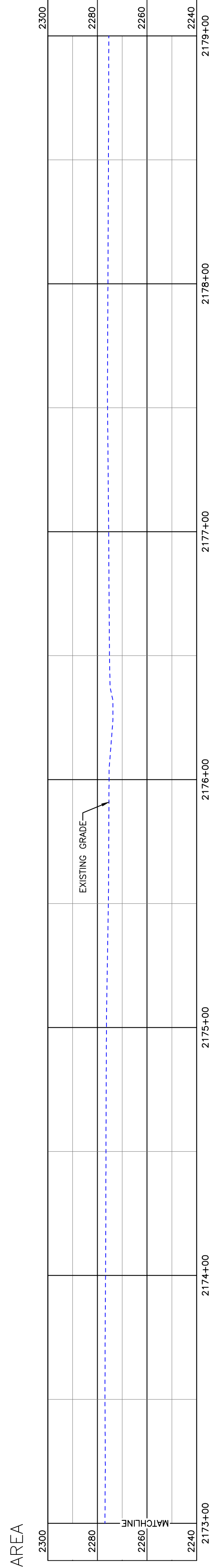


BOE PIPELINE PHASE II SPRING CREEK RD & CREEK CROSSING BORE #85 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
NE1/4, SEC. 20,
T145N, R95W



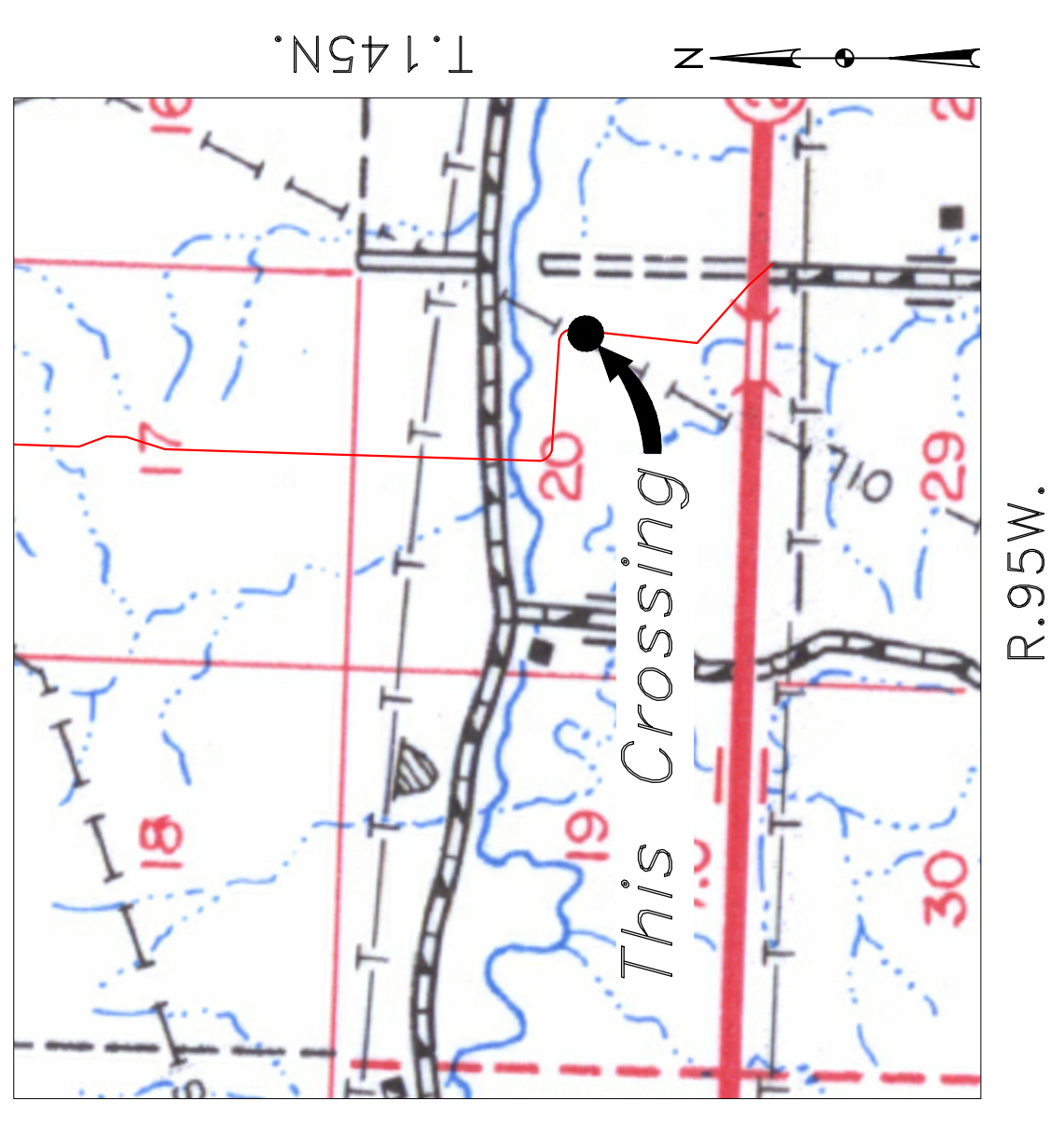
PULLBACK AREA



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2167+53.61	47°22'02.79" N	102°48'16.00" W
END BORE	2172+39.02	47°21'57.99" N	102°48'16.02" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 485.41 FT.
TOTAL BORE LENGTH = 486.7 FT.



Location Map

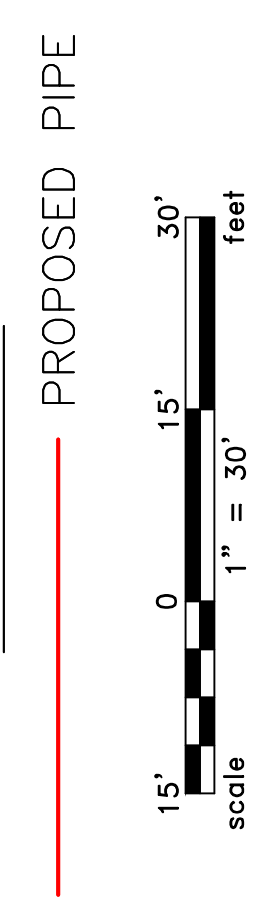


Aerial Map

NOTE:
1. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND



LEGEND

	PROPERTY LINE		AVOIDANCE AREA
	SECTION LINE		FIBER OPTIC COM. LINE
	RIGHT OF WAY LINE		WETLAND EASEMENT
	PIPELINE CENTERLINE		UTILITY POLE
	WATER LINE		PROPOSED BORE
	EXISTING ROAD		EROSION CONTROL BMP
	UNDERGROUND COM. LINE		MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	487'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 30'

DRAWN BY: A. ROMANN
DATE: 4/25/16
CHECKED BY:
APPROVED BY:
BORE APPROVED BY:
REVISION:
SHEET: 1/33

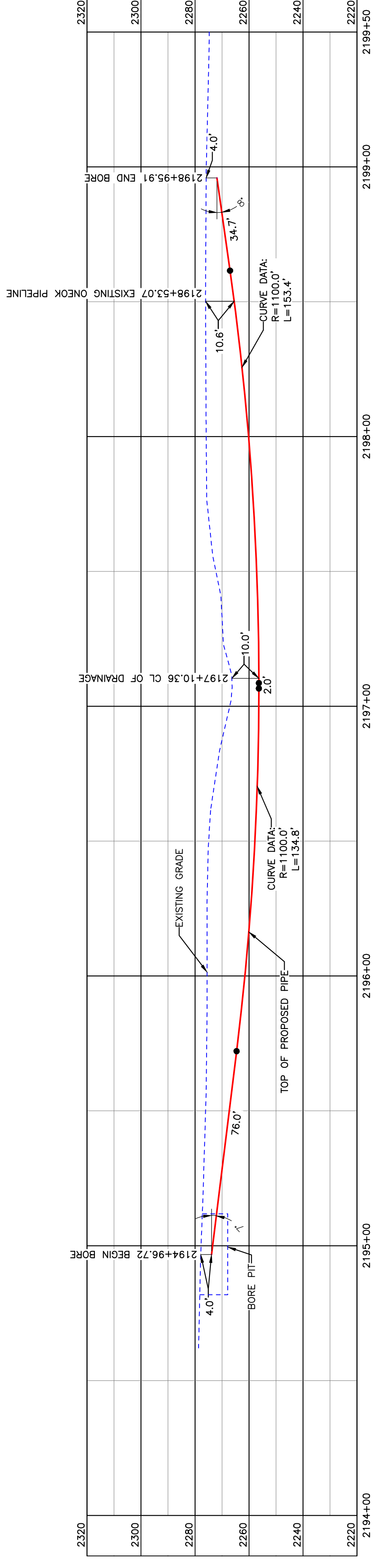
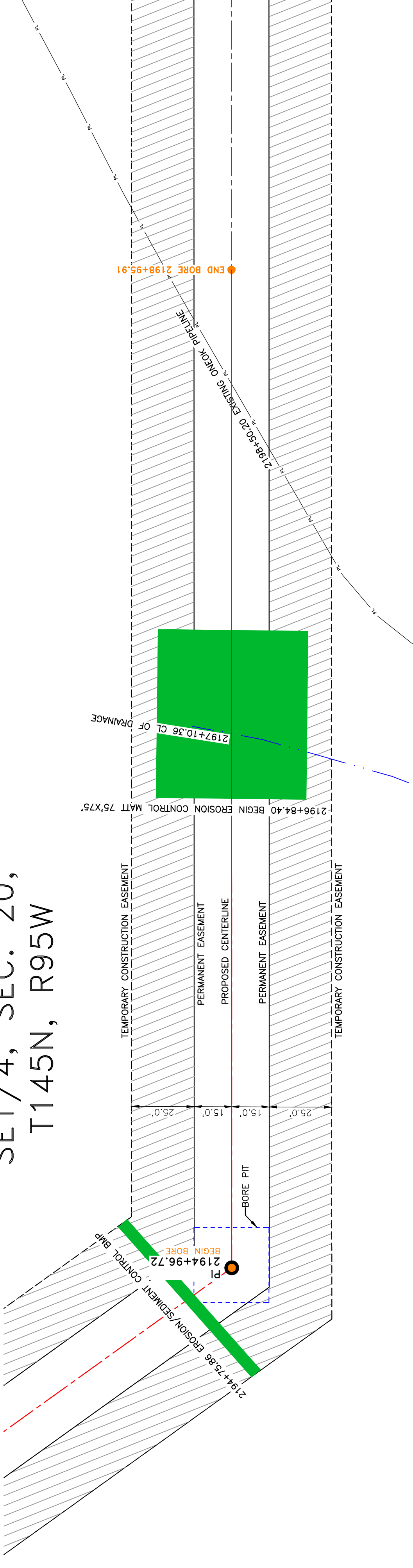
BOE PIPELINE PHASE II
SPRING CREEK RD & CREEK CROSSING BORE #85
SECTION 20, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

BAKKEN OIL EXPRESS

KLJ
1555 Columbia Street
Bismarck, ND 58503

BOE PIPELINE PHASE II WETLAND CROSSING BORE #86 DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 20,
T145N, R95W

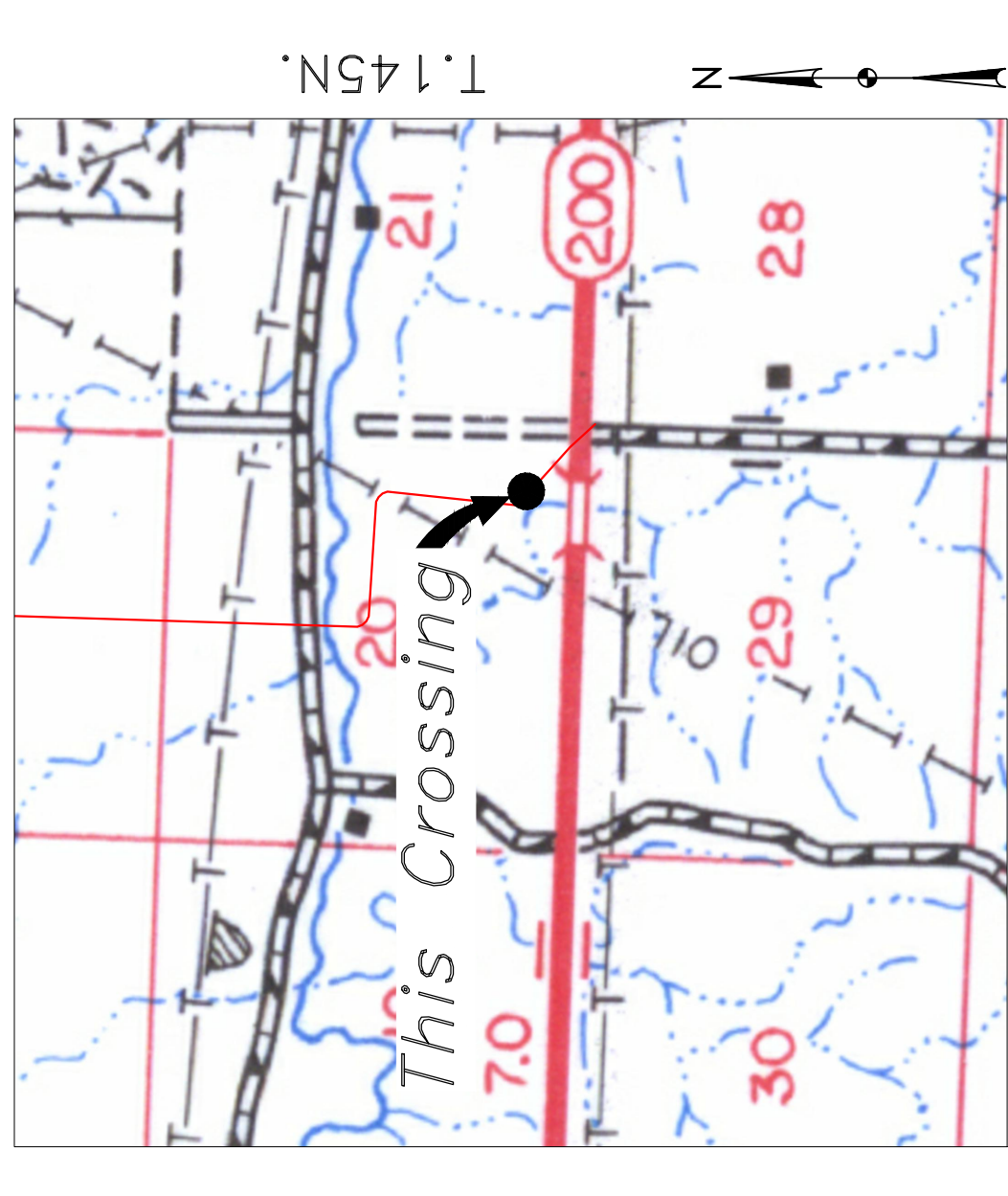
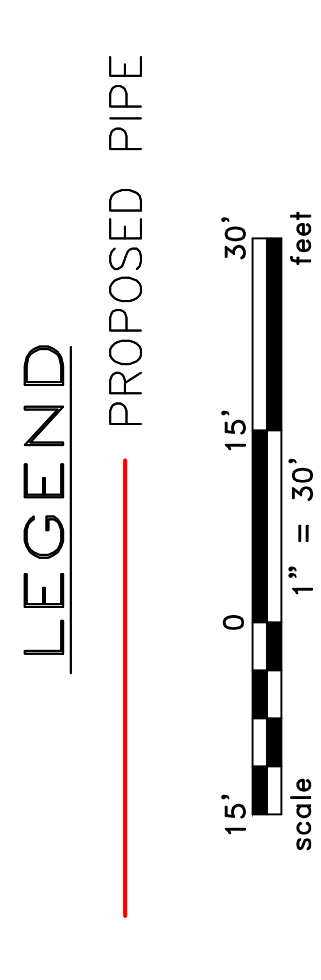


BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2194+96.72	47°21'35.76" N	102°48'17.95" W
END BORE	2198+53.07	47°21'33.22" N	102°48'13.52" W

PRELIMINARY

TOTAL HORIZONTAL DISTANCE = 399.19 FT.
TOTAL BORE LENGTH = 401.00 FT.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO



Location Map



Aerial Map

LEGEND

—	PROPERTY LINE	—	* EXISTING FENCE
—	SECTION LINE		AVOIDANCE AREA
—	WATER LINE		FIBER OPTIC COM. LINE
—	EXISTING ROAD		ROAD
—	UNDERGROUND COM. LINE		WETLAND EASEMENT
—			UTILITY POLE
—			PROPOSED BORE
—			EROSION CONTROL BMP
—			VALVE SETTING
—			MARKER POST

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
2	401'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

SCALE 1" = 30'

DRAWN BY: A. ROMANN
DATE: 4/25/16
CHECKED BY:
APPROVED BY:
DATE APPROVED:
REVISION:

BOE PIPELINE PHASE II
WETLAND CROSSING BORE #86
SECTION 20, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

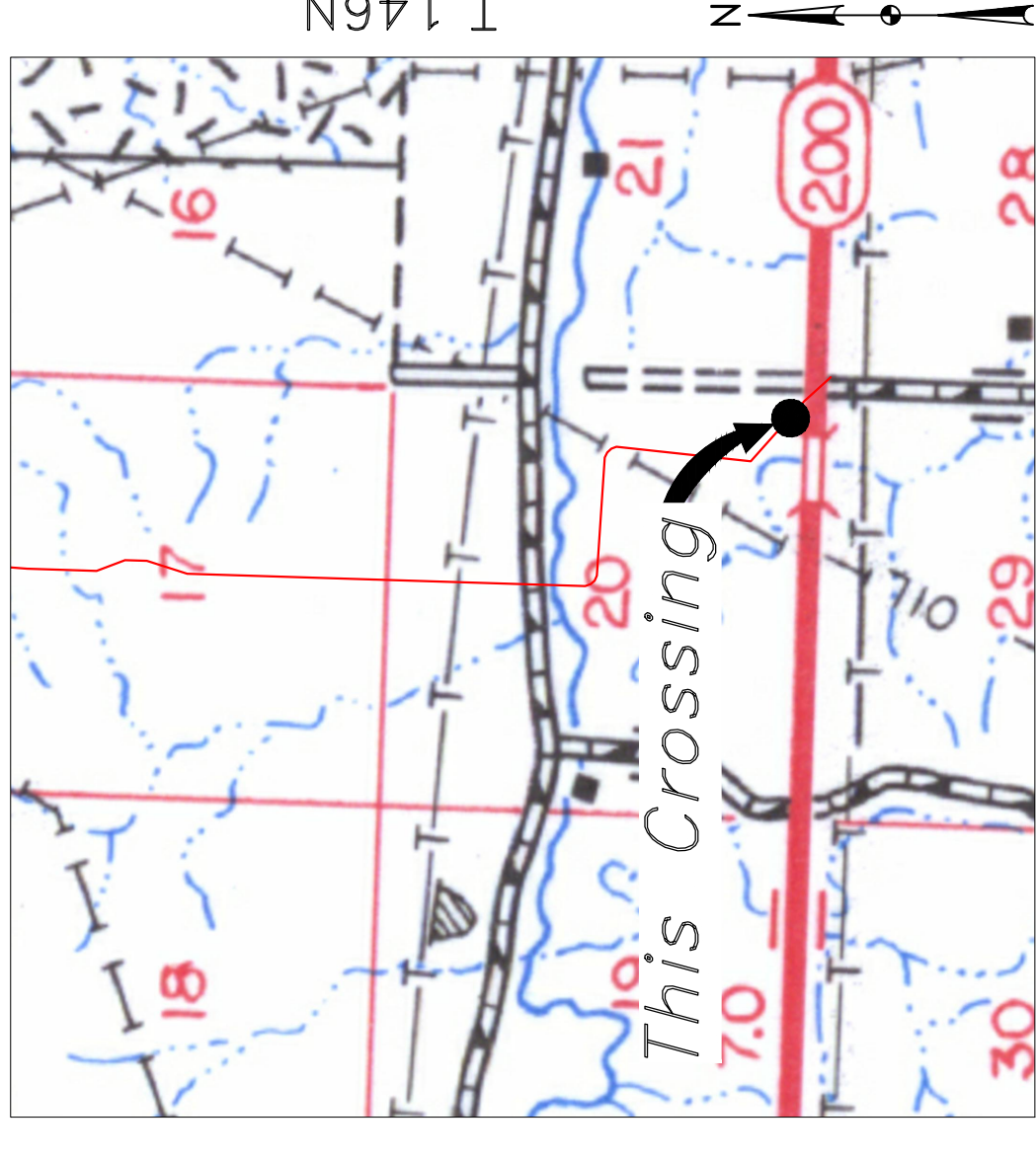
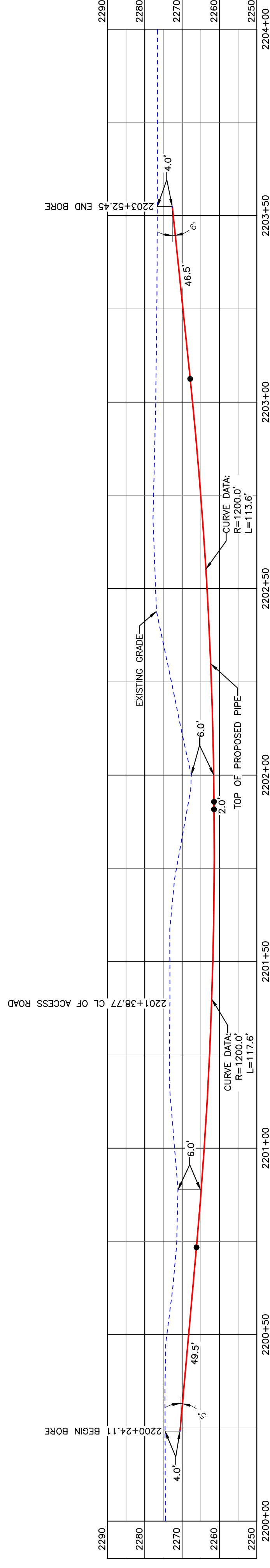
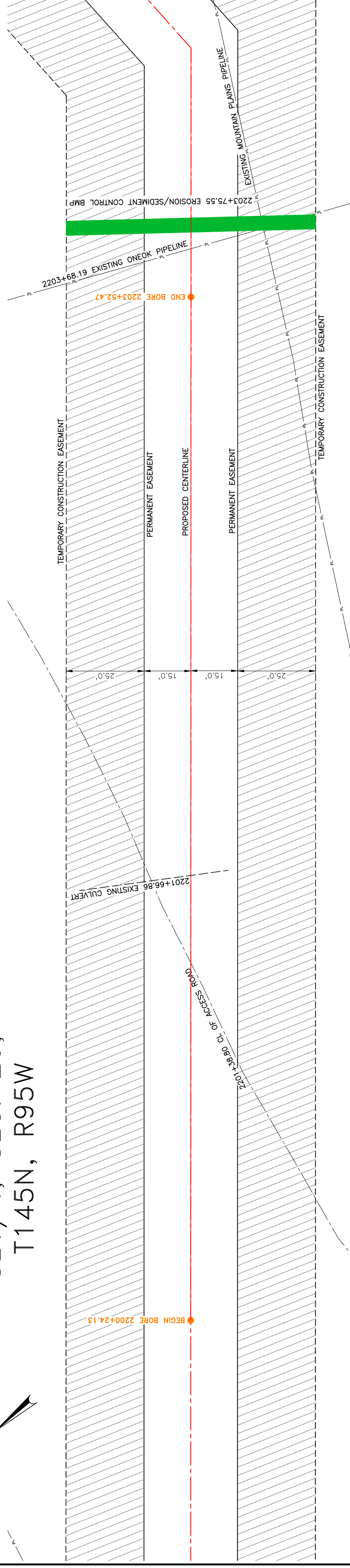
BAKKEN OIL EXPRESS
EXPRESS PIPELINE

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Bismarck, ND 58503
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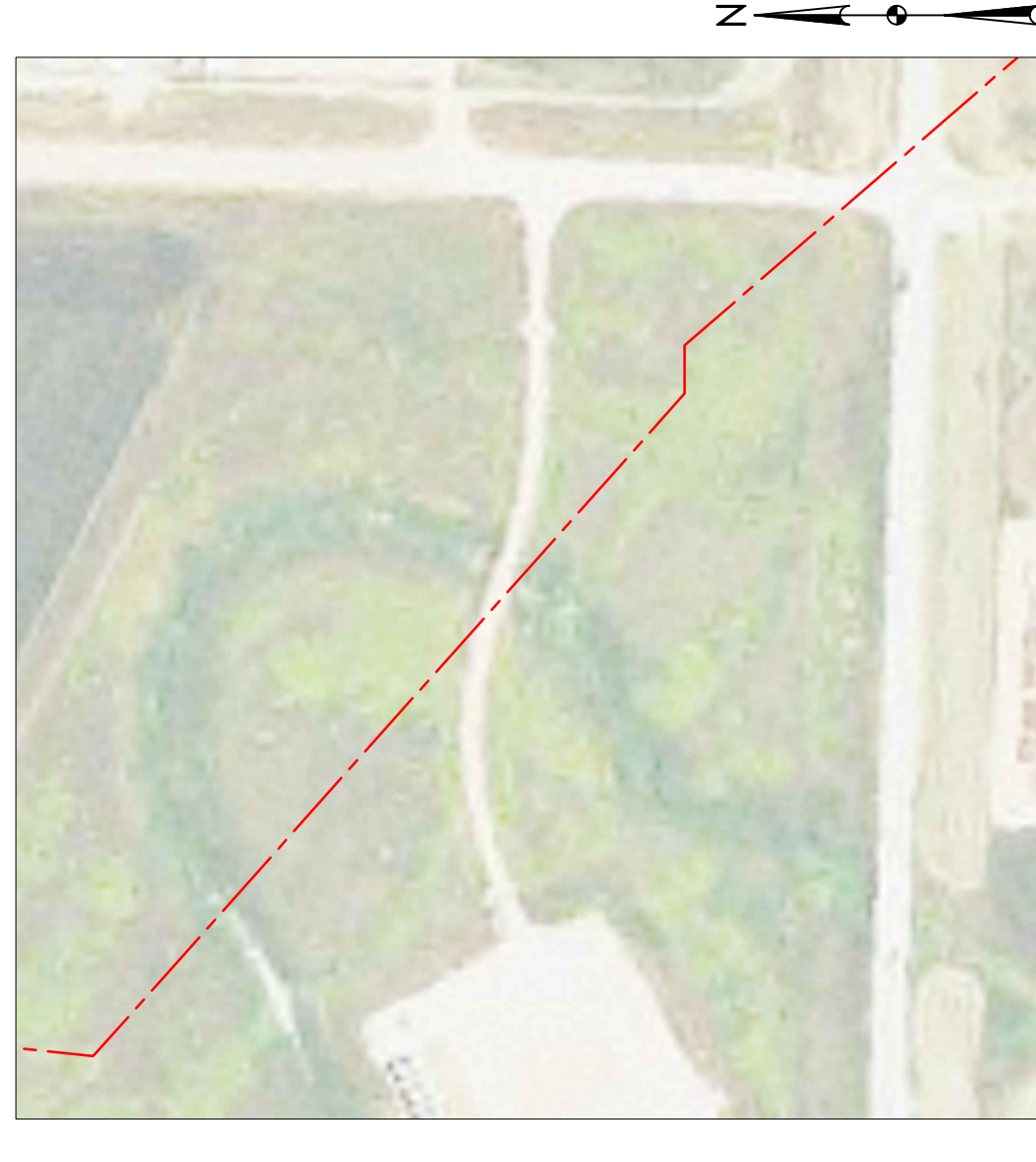
BOE PIPELINE PHASE II ACCESS ROAD CROSSING BORE #87

DUNN COUNTY, NORTH DAKOTA

DUNN COUNTY
SE1/4, SEC. 20,
T145N, R95W



Location Map



Aerial Map

NOTE:

- INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION

Crossing designed using: PRCI Report PR-227-9424
 Contents: Oil
 Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
 Coating: 14-16 Mills FBE, 30-35 Mills ARO

LEGEND

— PROPOSED PIPE



TOTAL HORIZONTAL DISTANCE = 328.34 FT.

TOTAL BORE LENGTH = 329.2 FT.

PRELIMINARY

BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2200+24.11	47°21'32.41" N	102°48'12.09" W
END BORE	2203+52.45	47°21'30.32" N	102°48'08.45" W

LEGEND		MATERIAL SUMMARY		REFERENCE DRAWINGS		REVISIONS	
PROPERTY LINE	SECTION LINE	MK NO.	QTY.	DWG. NO.	DESCRIPTION	NO.	DATE
—*— EXISTING FENCE	— FIBER OPTIC COM. LINE	2	329'		16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO		
— FARM ROAD	— EASEMENT						
— WATER LINE	— UTILITY POLE						
— EXISTING PIPELINE	— PROPOSED BORE						
— EXISTING ROAD	— EROSION/SEDIMENT CONTROL BMP						
— UNDERGROUND COM. LINE	— MARKER POST						

BOE
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BAKKEN OIL EXPRESS PIPELINE
BOE PIPELINE PHASE II
ACCESS ROAD CROSSING BORE #87
SECTION 20, T.145N., R.95W., DUNN COUNTY, NORTH DAKOTA

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Bismarck, ND 58503
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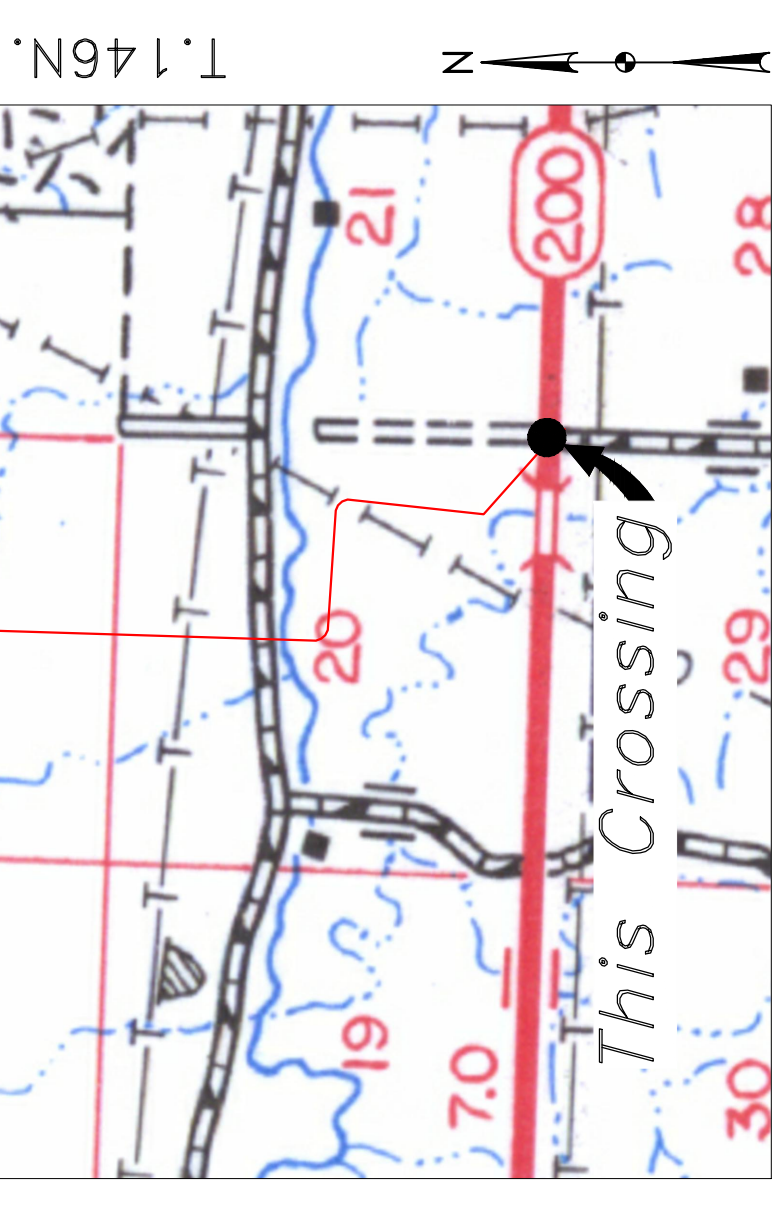
BOE PIPELINE PHASE II HIGHWAY 200 CROSSING BORE #88

DUNN COUNTY, NORTH DAKOTA

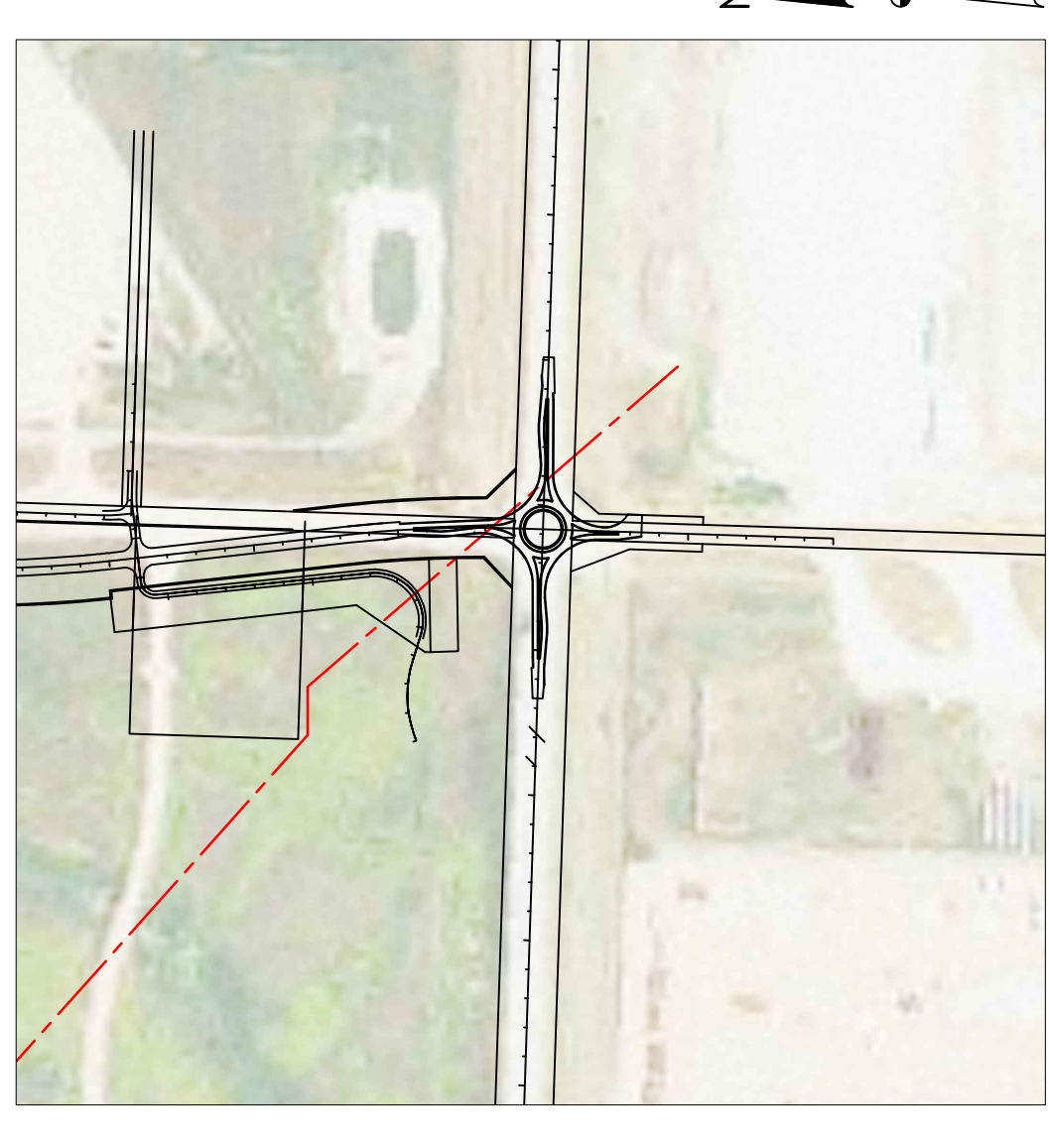
DUNN COUNTY
SE1/4, SEC. 20,
T145N, R95W

DUNN COUNTY
SW1/4, SEC. 21,
T145N, R95W

DUNN COUNTY
NW1/4, SEC. 28,
T145N, R95W



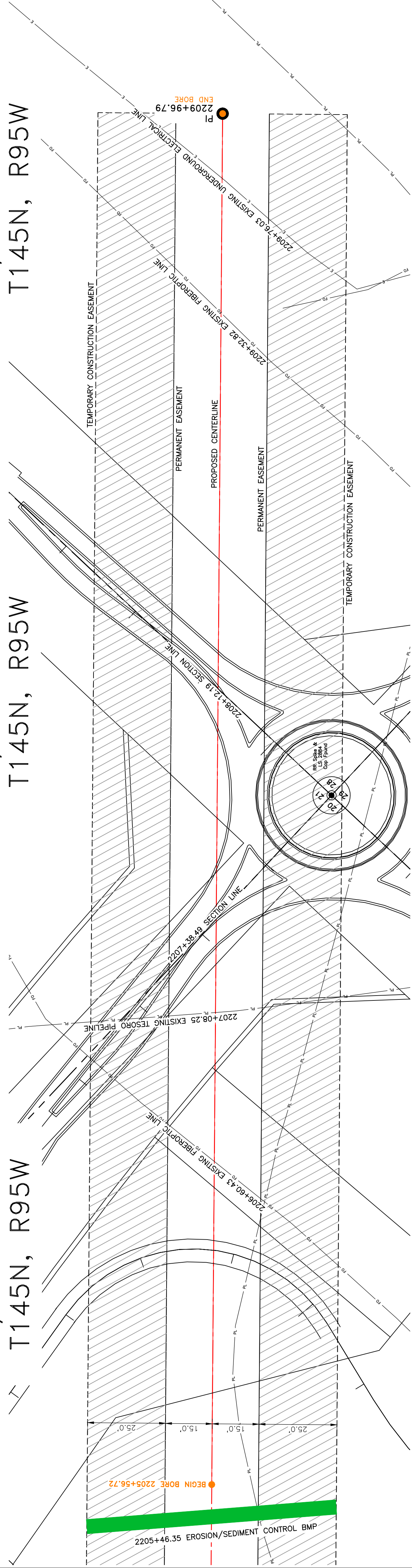
Location Map



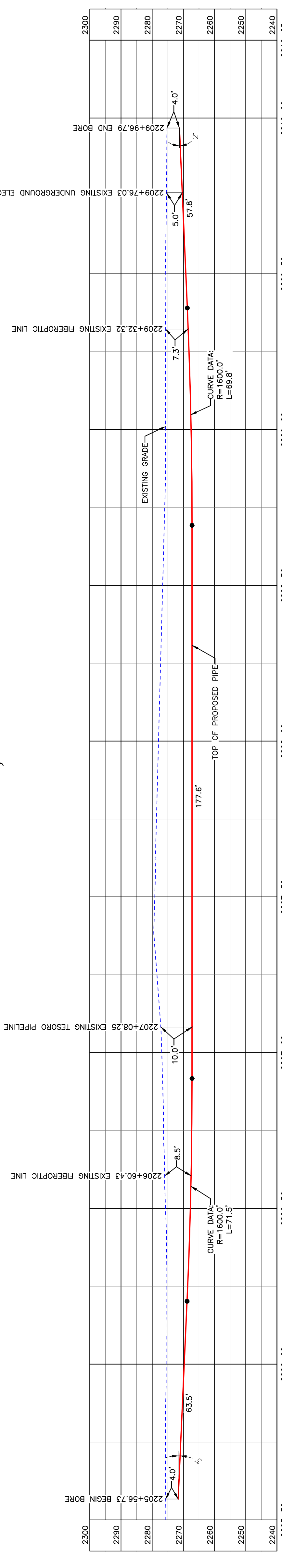
NOTE:
1. EXISTING UTILITY DEPTH NOT KNOWN, MUST BE FIELD VERIFIED. MAINTAIN 18" MIN. SEPARATION BETWEEN EXISTING UTILITIES.
2. INSTALL MARKER POSTS ON BOTH SIDES OF RIGHT OF WAY FOR ALL LINE CROSSINGS.

PIPE SPECIFICATION
Crossing designed using: PRCI Report PR-227-9424
Contents: Oil
Carrier Pipe: 16" OD, 0.344" W.T. API 5L X70
Coating: 14-16 Mils FBE, 30-35 Mils ARO

LEGEND
— PROPOSED PIPE

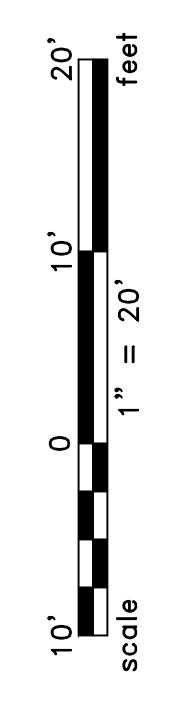


DUNN COUNTY
NE1/4, SEC. 29,
T145N, R95W



BORE	STATIONING	LATITUDE	LONGITUDE
BEGIN BORE	2205+56.73	47°21'29.29" N	102°48'06.10" W
END BORE	2209+96.79	47°21'26.09" N	102°48'01.78" W

PRELIMINARY



TOTAL HORIZONTAL DISTANCE = 440.07 FT.
TOTAL BORE LENGTH = 440.2 FT.

LEGEND

—	PROPERTY LINE	—	EXISTING FENCE
—	SECTION LINE	—	FIBER OPTIC COM. LINE
—	RAILROAD	—	WETLAND
—	WATER LINE	—	ELECTRIC
—	WATER LINE	—	UTILITY POLE
—	PROPOSED PIPELINE	—	PROPOSED BORE
—	EXISTING ROAD	—	EROSION/SEDIMENT CONTROL BMP
—	UNDERGROUND COM. LINE	—	MARKER POST

MATERIAL SUMMARY

MK NO.	QTY.	DESCRIPTION
2	440'	16" OD, 0.344" W.T. API 5L X70, 14-16 MIL FBE, 30-35 MIL ARO

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

BOE
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BAKKEN OIL EXPRESS PIPELINE
BOE PIPELINE PHASE II
HIGHWAY 200 CROSSING BORE #88
SECTIONS 20, 21 & 28, T145N, R95W, DUNN COUNTY, NORTH DAKOTA
1555 Columbia Street
Bismarck, ND 58503
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