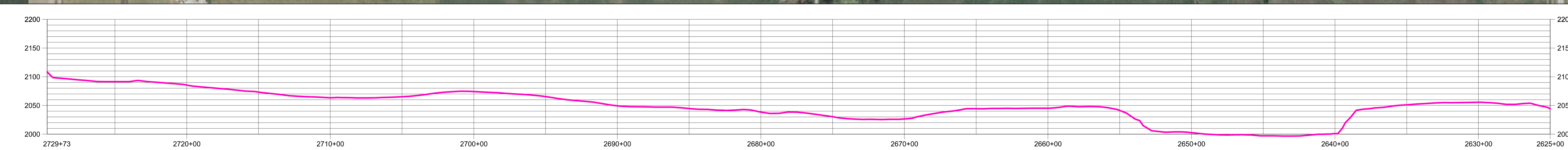
TERRAIN	AGRICULTURE				
VEGETATION	PASTURE IMPROVED	CULTIVATED CROPS		PASTURE IMPROVED	
OWNERSHIP	2729+73 JOHN E ELL 2709+37	BRADLEY AND MARILYN OLSON 2655+00	RAYMOND AND CLARA PAPINEAU 2636+69	BRADLEY OLSON 2625+70	BRADLEY OLSON 2625+00
R.O.W. No.	W-78	W-77	W-76	W-75	W-75H
RODDAGE	123.4	329.5	109.3	68.3	4.2
ROW WIDTH	75'	75'	75'	75'	75'

Ex ELECTRICAL CROSSING
Ux UNIMPROVED ROAD CROSSING (SEE STD-C031))
Gx GRAVEL ROAD CROSSING (SEE STD-C030)
Ax IMPROVED (ASPHALT) ROAD CROSSING (SEE STD-C032)
Hx HIGHWAY CROSSING (SEE STD-032)
Rx RAILROAD CROSSING (SEE DWG 2424A204)
Px PIPELINE CROSSING
Cx CABLE CROSSING
Wx WATER CROSSING
05 AERIAL MARKER
BV BLOCK VALVE
CP1 CP TEST LEAD (FOREIGN) (SEE DWG 2424-M-001)
CP2 CP TEST LEAD (SEE DWG 2424-M-001)
48 HOTBEND

PROFILE



PIPELINE STATIONING	PI	CROSSING LENGTH	PIPE SPECIFICATION	PIPE DETAIL AND APPURTENANCES
STA. 2729+73	EOP			TOP OF TEE (10x10); SEE DWG (2424-P-001 2424-P-002 2424-P-015); 30°; 30°
STA. 2728+73		355'	C	UNDERGROUND ELECTRIC
STA. 2727+88				FOREIGN P/L
STA. 2727+59		236'	B	UNDERGROUND ELECTRIC
STA. 2727+04				UNDERGROUND ELECTRIC
STA. 2724+78				NORTH EDGE OF FACILITY
STA. 2724+65	PI 0° RT			
STA. 2724+46				UG NATURAL GAS P/L
STA. 2724+25				OVERHEAD POWER
STA. 2724+18				UG NATURAL GAS P/L
STA. 2723+98				CL LEASE ROAD
STA. 2709+95				ENBRIDGE P/L
STA. 2709+42	PI 4° LT			
STA. 2709+04				UG TELEPHONE CABLE
STA. 2708+97				UG NATURAL GAS P/L
STA. 2708+63	PI 3° RT			
STA. 2708+14	PI 1° RT			
STA. 2684+84	PI 7° RT			
STA. 2682+91		44'	A	CL 49TH ST NW SELDOM USED TRAIL
STA. 2682+54	PI 18° LT			
STA. 2680+69	PI 10° RT			
STA. 2679+95	PI 1° RT			
STA. 2672+72	PI 5° RT			
STA. 2669+47				UG NATURAL GAS P/L
STA. 2669+45	PI 7° LT			
STA. 2669+13				UG NATURAL GAS P/L
STA. 2668+67				UG NATURAL GAS P/L
STA. 2667+25	PI 9° RT			
STA. 2666+56				UG TELEPHONE CABLE
STA. 2665+84	PI 7° LT			
STA. 2658+74	PI 53° RT			53
STA. 2652+88				UG TELEPHONE CABLE
STA. 2651+86	PI 44° LT			44
STA. 2651+64				DRAINAGE
STA. 2650+67	PI 1° RT			
STA. 2647+01	PI 24° RT			
STA. 2646+32	PI 31° RT			
STA. 2640+79	PI 48° LT			48
STA. 2639+89	PI 16° LT			
STA. 2638+82	PI 11° LT			
STA. 2638+35				UG NATURAL GAS P/L
STA. 2637+74	PI 13° LT			
STA. 2636+02	PI 22° RT			
STA. 2628+82				UG TELEPHONE CABLE
STA. 2628+67	PI 2° RT			
STA. 2627+18	PI 1° LT			
STA. 2625+62				FIBER OPTIC

GENERAL NOTES

ITEM	TYPE	O.D.	W.T.	CODE	GRADE	COATING	
A	LINE PIPE	10.75"	.219"	API 5L	X-52	FBE	MANUFACTURER: USS, TRIPLE RANDOM, ERW
B	CROSSING PIPE	10.75"	.307"	API 5L	X-52	FBE w/ ARO	MANUFACTURER: USS, TRIPLE RANDOM, ERW
C	CROSSING PIPE	10.75"	.365"	API 5L	X-52	FBE w/ ARO	MANUFACTURER: LSS, DOUBLE RANDOM, ERW
D	CROSSING PIPE	10.75"	.307"	API 5L	X-65	FBE	MANUFACTURER: LSS, DOUBLE RANDOM, ERW

1. PIPELINE MINIMUM DEPTH OF COVER IS 4'. CROSSING COUNTY AND TOWNSHIP ROADS MINIMUM DEPTH OF COVER IS 6'.
2. MINIMUM HYDROSTATIC TEST PRESSURE IS 1900 PSIG.

LEGEND

Symbol	Description
PL	EXISTING PIPELINE (ENBRIDGE)
CDPL	EXISTING PIPELINE (UNKNOWN)
G	EXISTING NATURAL GAS PIPELINE (UNDERGROUND)
T	EXISTING TELEPHONE
E(O)	EXISTING ELECTRICAL (OVERHEAD)
E	EXISTING ELECTRICAL (UNDERGROUND)
FO	EXISTING FIBER OPTICS
X	EXISTING FENCE

SUMMARY

ITEM	DESCRIPTION	QUANTITY
PIPE A	10.75" X .219 WT. API 5L X-52 w/ FBE	9,882'
PIPE B	10.75" X .307 WT. API 5L X-52 w/ FBE w/ ARO	236'
PIPE C	10.75" X .365 WT. API 5L X-52 w/ FBE w/ ARO	355'
HB	48° HOT BEND	1
HB	44° HOT BEND	1
HB	53° HOT BEND	1

REFERENCE DRAWINGS	NO.	REVISION	BY	DATE
	1	AS CONSTRUCTED	CLF/GU	1/29/08

Rooney Engineering, Inc.
12201 E. Arapahoe Rd.
Centennial, CO 80112
(303) 792-5911

ENBRIDGE PIPELINES (ND)

AS CONSTRUCTED ALIGNMENT SHEET
TRENTON TO BEAVER LODGE

WILLIAMS — NORTH DAKOTA

SCALE	DRAWN	DATE	DRAWING NO.
AS SHN	CLF/GU	1/29/08	2424M0122