



- GENERAL NOTES**
- 1) ALL CHAINAGES ARE IN FEET UNLESS OTHERWISE SPECIFIED.
  - 2) DATUM ELEVATION AND PROJECTION ARE BASED ON MEAN SEA LEVEL AND NAD 83.
  - 3) FIELD PIPE LOCATING REQUIRED TO DETERMINE PLACEMENT OF PIPELINE WITHIN PERMANENT EASEMENT.
  - 4) UNLESS OTHERWISE NOTED, 48 INCHES MINIMUM COVER EXCEPT 36 INCHES IN AREAS OF CONSOLIDATED ROCK.
  - 5) NO ACTUAL AS-BUILT GROUND SHOTS WERE TAKEN AT THIS LOCATION. THE PROFILE REPRESENTS A PROJECTION FROM SHOTS TAKEN AT 150' TO 250' INTERVALS.
  - 6) THE TYPE OF COATING APPLIED TO THE FIELD WELDS DURING THE ORIGINAL CONSTRUCTION WAS TWO COMPONENT LIQUID EPOXY. THE COATING PRODUCTS USED WERE DENSOL 7200 OR SPC SP-2888.
  - 7) THE SUBSTANTIAL CONSTRUCTION COMPLETION DATE, BASED ON CALIPER PIG RUN, WAS AUGUST 11, 2009 FOR M.P. 0.30 TO M.P. 31.03 AND AUGUST 12, 2009 FOR M.P. 31.03 TO M.P. 66.93.
  - 8) ORIGINAL IN-SERVICE DATE OF THE KEYSTONE PIPELINE (PHASE 1): JUNE 30, 2010.
  - 9) CPS CALCULATION DATE: MAY 2010.
  - 10) ORION STATION SERIES NUMBER: 1162700.
  - 11) TO DETERMINE THE MILE POST AT A GIVEN LOCATION, ADD THE 3D STATION NUMBER FROM THIS SEGMENT TO STATION NUMBER 0+00 AND DIVIDE BY 5280.

**OPERATING AND TEST PRESSURE**

1. THE MAXIMUM OPERATING PRESSURE (MOP) IS 1440 PSIG.
2. THE MINIMUM TEST PRESSURE (MTP) IS 1801 PSIG.

**BILL OF MATERIALS (3D)**

ITEM NO.	DESCRIPTION	QUANTITY
2	30" O.D. X 0.388" W.T. API-5LX-70 WFBE COATING	12,533'
3	30" O.D. X 0.516" W.T. API-5LX-70 WFBE COATING & ABRASION RESISTANT OVERCOAT	475'
	PIPELINE MARKERS	0 EA
	PIPELINE WARNING SIGNS	15 EA
	CATHODIC TEST STATION	4 EA
	AERIAL MARKER	0 EA

**REFERENCE DRAWINGS**

REF. NO.	DRAWING NO.	REV. NO.	DRAWING TITLE
O.C.	1827-03-ML-03-113	03	NORTH BRANCH PARK RIVER OPEN CUT

**REVISIONS**

NO.	DATE	REV. BY	CHECKED BY	APPROVED BY	ENVY APPRD	DESCRIPTION
1	5/17/08	UEI	RDG	LAG	SEC	ISSUED FOR CONSTRUCTION
2	8/27/08	UEI	GTG	LAG	SEC	ISSUED CROSSING DETAILS
3	9/17/08	UEI				ISSUED FOR AS-BUILT
						1827-03-ML-02-012 REPLACES COVERAGE OF IFC DRAWINGS
						1827-03-ML-02-018, 1827-03-ML-02-019

**ENGINEERING RECORDS**

DRAWN BY	INITIAL	DATE	ENVY APPRD	INITIAL	DATE
UEI		09/12/21			

**PROFESSIONAL ENGINEER**

NAME	STATE	LIC#	REV#	DATE
LOYS A. GRAY, III	ND	PE5714		

**SCALE:** 0 125 250 500 Feet

**TransCanada**  
In business to deliver

KEYSTONE MAINLINE (NPS 30 2008) WALHALLA SECTION

FR# 1827 SPREAD 1A DISCIPLINE 03

**AS-BUILT ALIGNMENT**

M.P. 27.12 TO M.P. 29.58  
SHEET 12 OF 14 SHEETS

STA. 1431+80 TO STA. 1561+88 (3D)

DRAWING NO. 1827-03-ML-02-012

**DISCLAIMER**

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**PIPELINE SCHEMATIC**

STATION	DESCRIPTION
1430+00	MATCHLINE 1430+00
1431+80	MATCHLINE 1431+80
1431+98	6.2' C.V.R.
1437+66	1437+66
1440+51	7.1' C.V.R.
1460+91	5.9' C.V.R.
1461+08	P.I. 0475417' L.L.
1463+37	7.2' C.V.R.
1463+65	EDGE OF ROAD
1463+73	CL 82ND STREET NE
1463+83	EDGE OF ROAD
1465+70	BEGIN ROCK SHIELD
1468+98	BEGIN SLOUGH
1473+42	4.4' C.V.R.
1474+59	FENCE (BARBED WIRE)
1477+05	FENCE (BARBED WIRE)
1478+40	M.P. 28
1484+16	1484+16
1488+91	4.4' C.V.R.
1490+50	1490+50
1500+38	1500+38
1503+24	1503+24
1508+22	1508+22
1511+61	1511+61
1516+32	1516+32
1517+12	1517+12
1522+46	1522+46
1543+40	1543+40
1548+26	1548+26
1550+69	1550+69
1558+40	1558+40
1558+46	1558+46
1559+71	1559+71
1559+82	1559+82
1561+88	MATCHLINE 1561+88

**TEST SECTIONS (3D)**

TEST SECTION 1A-2  
ILTO-019-2010

**ENVIRONMENTAL MITIGATION/RECLAMATION STATIONS (3D)**

STATION	REPRESENTATION	RECLAMATION
1431+80	②	507 FBE
1437+66	③	79 FBE & ARO
1440+51	②	2.51' FBE
1460+91	③	79 FBE & ARO
1463+37	③	79 FBE & ARO
1463+65	③	79 FBE & ARO
1463+73	③	79 FBE & ARO
1463+83	③	79 FBE & ARO
1465+70	③	79 FBE & ARO
1468+98	③	79 FBE & ARO
1473+42	②	2.51' FBE
1474+59	③	79 FBE & ARO
1477+05	③	79 FBE & ARO
1478+40	③	79 FBE & ARO
1484+16	③	79 FBE & ARO
1488+91	③	79 FBE & ARO
1490+50	③	79 FBE & ARO
1500+38	③	79 FBE & ARO
1503+24	③	79 FBE & ARO
1508+22	③	79 FBE & ARO
1511+61	③	79 FBE & ARO
1516+32	③	79 FBE & ARO
1517+12	③	79 FBE & ARO
1522+46	③	79 FBE & ARO
1543+40	③	79 FBE & ARO
1548+26	③	79 FBE & ARO
1550+69	③	79 FBE & ARO
1558+40	③	79 FBE & ARO
1558+46	③	79 FBE & ARO
1559+71	③	79 FBE & ARO
1559+82	③	79 FBE & ARO
1561+88	③	79 FBE & ARO

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