

TAB B

Description of Pressure-Tested Facilities

TransCanada Standards, Specifications and Procedures

Process and Instrumentation Diagram and Plot Plan

Description of Pressure-Tested Facilities

Meter Station Description

Pipeline Design Specifications	CSA Z662-15
Description of Analysis System	A composite gas sampler will be installed. A sample is analyzed to provide gas composition information monthly.
Minimum and maximum station flows and associated inlet and outlet pressures used for meter station design	Minimum station design flow will be approximately $125 \times 10^3 \text{ m}^3/\text{d}$ and maximum station design flow will be approximately $1750 \times 10^3 \text{ m}^3/\text{d}$. The station operating pressure will range between 5000 kPa to a maximum operating pressure (MOP) of 9650 kPa. The outlet pressure will be equal to the inlet pressure, less piping loss.
Meter type and number	2-860T Turbine
Method used for regulating/metering	In addition to the turbine meters, NGTL will install a flow nozzle downstream of the meter run designed to prevent the turbine from overspinning. NGTL will also install temperature and pressure devices at the meter station location. The data from the temperature and pressure transmitters will be sent to a local flow computer, which will calculate the gas volume and energy content using industry standard calculations (AGA Reports). All gas metering equipment will be Measurement Canada-approved and will meet the Measurement Canada acceptance criterion of +/- 2%. NGTL will also calibrate the meters at a federally accredited flow laboratory. Pressure control (PC) and overpressure protection (OPP) are not included in the design of this meter station as PC and OPP are installed upstream of the Project by the upstream connecting pipeline operator, and the pipeline system as a whole is designed in compliance with CSA Z662-15, Clause 4.18: Pressure Control and Overpressure Protection of Piping, to protect the NGTL System against overpressure incidents. TransCanada's Gas Control Centre, a 24-hour/7-day operation, monitors and controls real-time pipeline pressure through a Supervisory Control and Data Acquisition (SCADA) system, which proactively monitors and trends to ensure operational efficiency and overpressure protection.
Schematic showing tanks, buildings, major piping and valves with connections to existing pipelines	See Plot Plan and Piping and Instrumentation Diagram.

Pipe Description

Outside Diameter	NPS 6 (Meter Run)	NPS 8 (Yard Pipe)	NPS 6 (Yard Pipe)	NPS 6 (Pipeline)	NPS 8 (Pipeline)
Wall Thickness	7.1 mm	12.7 mm	7.1 mm	4.8 mm	12.7 mm/ 6.4mm (customer tie- in machined transition)
Pipe Grade	ASTM A333 Grade 6 Seamless	ASTM A333 Grade 6 Seamless	ASTM A333 Grade 6 Seamless	CSA Z245.1 Grade 359 CAT II, -45°C, TES-PIPE- EW	CSA Z245.1 Grade 359 CAT II, -45°C TES-PIPE-EW
Pipe Manufacturer	Evraz	Vallourec	Vallourec	Vallourec	Vallourec
Material Grades used in Valves, Fittings and Assembly piping	The selection of material for valves, fittings and assembly piping will be in accordance with specification TES-MATL-MD1.				
Maximum Operating Pressure	9650 kPa				
Length	12 m	63 m	20 m	465 m	62 m
Location	05-26-084-11 W4M				
Burial Depth	Minimum depth of cover is 1.1 m. The minimum depth of cover complies with all applicable federal, provincial, municipal and county regulations.				
Coating	Internal coating: None External Coating: • fusion bond epoxy for straight pipe supplied as full joints • 100% solid epoxy for below-ground assemblies • epoxy primer with polyurethane top coat or zinc rich epoxy primer and a polysiloxane topcoat for above-ground assemblies and meter/return run assemblies • extruded polyethylene				
Product Carried	The proposed facilities will transport sweet natural gas that meets NGTL's Gas Quality Specifications outlined in its Tariff, General Terms and Conditions, Article 3, Gas Quality.				
Corrosion Control Element	Meter station piping will be cathodically protected using existing facilities in the area. No additional cathodic protection facilities are necessary.				
Crossings	One road crossing of the Japan Canada Access Road (LOC 840643). NGTL will be boring under the road to minimize disturbance. Crossings will be designed and installed in accordance with their respective crossing agreemen				

TransCanada Standards, Specifications and Procedures

Name	EDMS No.
MATERIALS	
TES-FITG-LD Specification for Carbon Steel Buttwelding Fittings	003671270
TES-FITG-T01 Instrument Tube Fitting, Instrument Pipe Fitting and Tubing Material Specification	003697116
TES-FITG-EC1 Specification for End Closures	003779256
TES-FITG-SAD Full Encirclement Reinforcing Saddle Specification	003779258
TES-FLGE-LD Specification for Carbon Steel Buttwelding Flanges	003671966
TES-MATL-MD1 Piping System Materials for Pipeline, Compression and Metering Facilities	003764909
TES-MATL-PV1 Specification for Pressure Vessels	000006406
TES-PIPE-EW Specification for Electric Welded Pipe	003670788
TES-PIPE-P8 Specification for Meter Tube Pipe	003695410
TES-PIPE-SAW Specification for Double Submerged Arc Welded Pipe	003776714
TES-VALV-LD-G Specification for Steel Valves for Gas Service	008820778
MECHANICAL	
TEP-MECH-WT Determining Pipe Wall Thickness and Material Grade for Gas/Liquid Pipelines and Pipeline Facilities	000006190
TED-MECH-WT Determining Pipe Wall Thickness and Material Grade for Gas/Liquid Pipelines and Pipeline Facilities	007912051
TEP-MECH-TRAN Selection of Transition Pieces and Joining Materials	000006256
TEF-MECH-TRAN Transition Inspection Report	005740916
TEP-VALV-FAB Procedure for Supplemental Preparation During Valve Fabrication	005741242
TEP-VOPR-GH Gas Hydraulic Valve Operator Control Packages and Functional Applications	003671367
TES-VOPR-GH Gas Hydraulic Valve Operators	003671784
TES-MECH-FBT Specification for Flange Assembly	006489784
TES-STRS-GPAS Pipe Stress Engineering Analysis for Gas Pipeline Assemblies	007808806
TES-PROJ-PCS Pipeline Construction Specification (CDN)	003745282
COATING	
TES-COAT-CAD Coating Application Procedure for Thermite Weld Coating	003672126
TES-COAT-EPU External Multi-Component Liquid Coating Systems for Below Ground Facilities	003671710
TES-COAT-FBE External Fusion Bond Epoxy for Steel Pipe	003670892
TES-COAT-P1 Paint Systems for Above Ground Facilities (Non-Coastal)	003694704

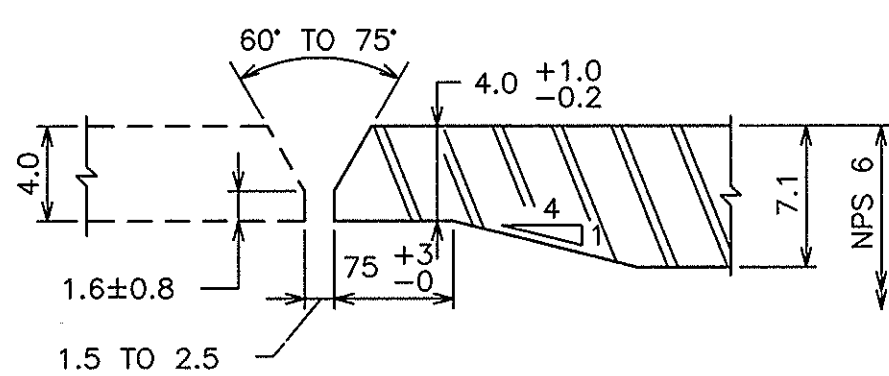
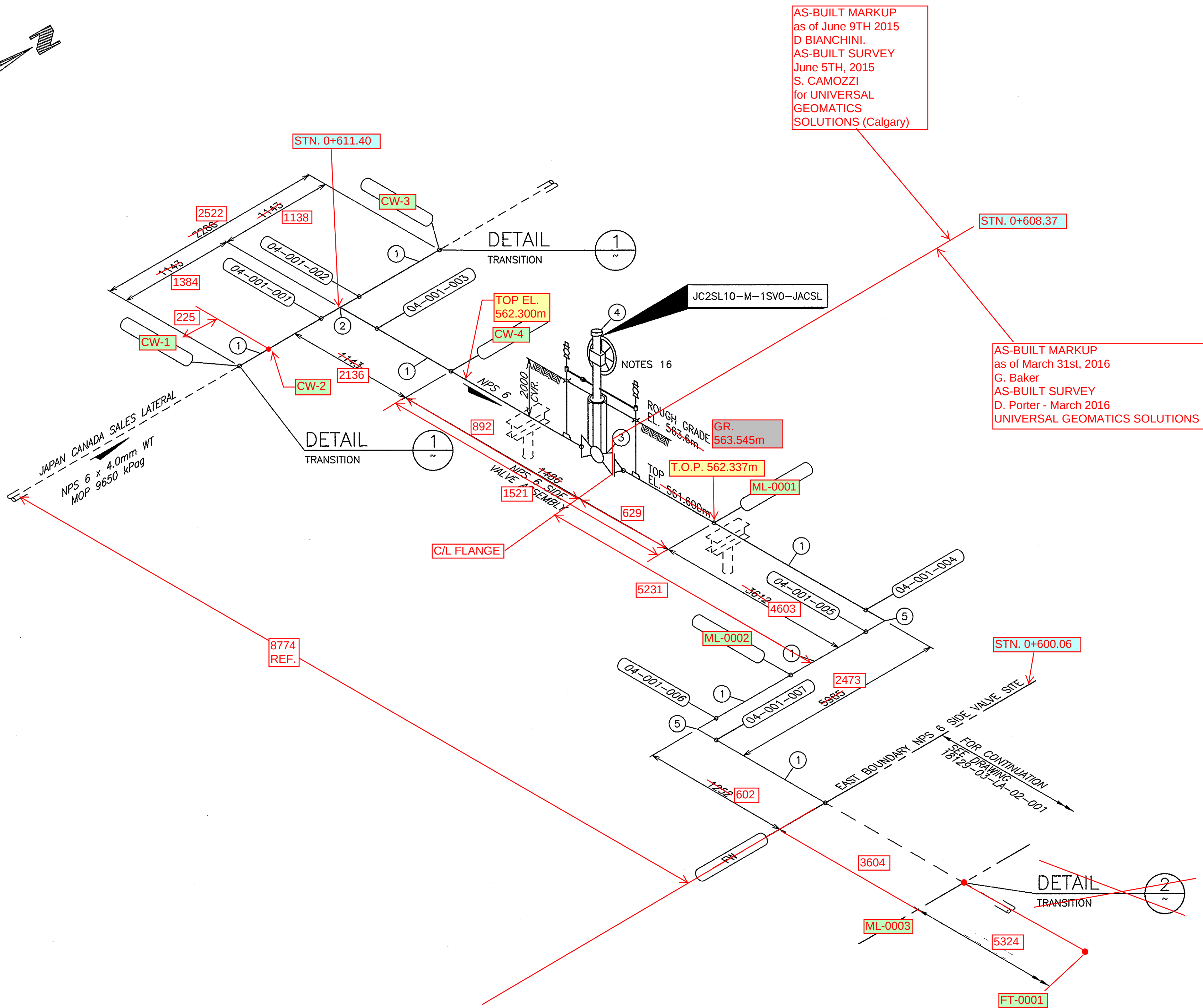
Preliminary Standards and Specifications List (con't)

Name	EDMS No.
COATING (con't)	
TES-COAT-PET Coating Application Procedure for Petrolatum Coating	000007756
TES-COAT-HSS Heat Shrink Sleeve Installation	003735848
TES-COAT-HDG Hot Dip Galvanizing	006713035
TES-COAT-EP External Polyethylene Coating for Pipe	003678529
CATHODIC PROTECTION	
TES-CP-CS Cathodic Protection Construction Specification	003670955
TES-CP-MS Cathodic Protection Materials Specification	003670944
TES-CP-IV Mitigation of Induced AC Voltage Effects	003671383
TES-CP-FRGN Foreign Crossing Cathodic Protection Requirements	003840655
CONSTRUCTION	
TES-DV05-1213 Structural Steel	000006488
TES-DV10-8500 Communication Mast	005590010
TES-DV26-2906 Tubing and Fittings	000006566
TES-DV31-2333 Excavation, Backfilling and Site Grading	000006457
TES-DV31-6216 Driven Steel Piles	000006459
TES-DV32-3115 Portable Chain Link Fence	003744430
TES-5510-05 Meter/Regulating Station Control and Auxiliary Panels	003671921
JOINING PROGRAM	
TED-WELD-JP Joining Program	003750713
TED-WELD-STRU Welding Engineer Standard for Structural Steel	003696375
TEP-WELD-ABR Removal of Arc Burns (New and Existing Piping Facilities)	003670959
TES-WELD-PL Welding of Pipelines and Tie-ins	003670960
TES-WELD-AS Welding of Assemblies and Station Piping	003670962
TES-WELD-STRU Welding Procedure Specification for Shielded Metal Arc Welding on Structural Steel	003696371
NON-DESTRUCTIVE TESTING	
TES-NDT-MT Magnetic Particle Inspection Specification	007610003
TES-NDT-VT Visual Examination	007381161
TES-NDT-PT Liquid Penetrant Inspection Specification	008210608
TES-NDT-UT2 Manual Ultrasonic Examination of Welds	003670958
TES-NDT-UT1 Mechanized Ultrasonic Examination of Pipeline Girth Welds	003670963
TES-NDT-RT Radiographic Examination of Welds	003671368

Preliminary Standards and Specifications List (con't)

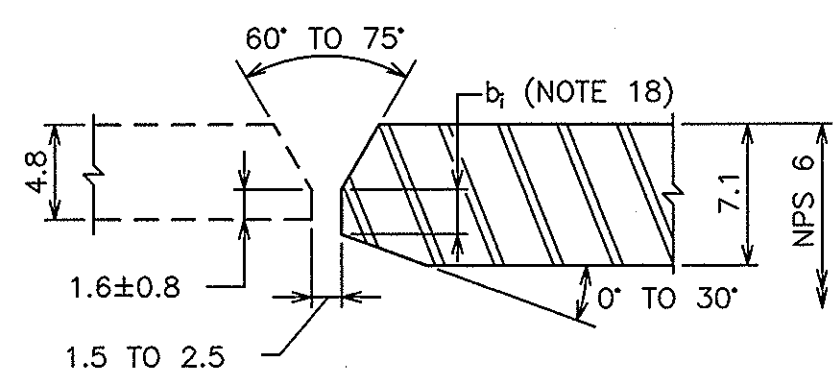
Name	EDMS No.
HYDROTESTING	
TES-HYDRO-CDN Hydrostatic Testing Specification	007591539
TEP-PROJ-LTO Project Leave to Open Procedure	003690877
OVERPRESSURE PROTECTION	
TEP-OPP-VER-CDN Verification of Customer Overpressure Protection Systems for New Receipt Meter Stations	006967781
TEF-OPP-VER-NEW Customer Overpressure Protection Systems for New and Modifications to Existing Receipt Meter Station – Request for Information Form	006587713
TEP-OPP-VER-ENG-REVIEW Verification of Customer Overpressure Protection System – Engineering Review Procedure	008174697

ITEM	QTY	UOM	SUPPLIED BY	MATERIAL NUMBER	DESCRIPTION
1	13	m	SHOP		PIPE, NPS 6 x 7.1mm WT, CSA Z245.1, GRADE 359, CAT II, -45
2	1	EA	SHOP		TEE, STRAIGHT, NPS 6, BW, ASME B16.9 AND ASTM A420 WPL6, TO MATCH 7.1mm WT
3	1	EA	TRANSCANADA		VALVE ASSEMBLY, NPS 6, PN100 DESIGNATION: VA-60, DRAWING STDS-03-MV-06-221
4	1	EA	SHOP		STEM, EXTENSION, SUITABLE FOR BALL VALVE, NPS 6 LENGTH: 3200mm, PN 100
5	2	EA	SHOP		ELBOW, 90°, LR, NPS 6, BW, ASME 16.9 AND ASTM A420 WPL6, TO MATCH 7.1mm WT



COUNTERBORE AND TAPER JOINT DESIGN FOR TRANSITION WELD JOINING PIPE OF UNEQUAL WALL THICKNESS
50mm COUNTERBORE REQUIRED AT FINAL TIE-IN

DETAIL
TRANSITION



BACK BEVEL DESIGN FOR TRANSITION WELD JOINING PIPE OF UNEQUAL WALL THICKNESS

DETAIL
TRANSITION

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.
- ASSEMBLY SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE CSA CODE Z662, AS PER THE FOLLOWING TABLE:

DESIGN PRESSURE	DESIGN FACTOR	LOCATION FACTOR
9930 kPa	0.8	0.75

- ASSEMBLIES SHALL BE SHOP TESTED TO A MINIMUM HYDROSTATIC TEST PRESSURE OF 13900 kPa AND A MAXIMUM HYDROSTATIC PRESSURE OF 14200 kPa, FOR A PERIOD OF ONE HOUR.
- FITTINGS, VALVES AND PIPE DIMENSIONS ARE FOR REFERENCE ONLY, OVERALL ASSEMBLY DIMENSIONS GOVERN.
- UNDERGROUND PORTION OF FABRICATED ASSEMBLIES AND TESTED PIPE SHALL BE COATED IN ACCORDANCE WITH TRANSCANADA SPECIFICATION TES-COAT-EPU, EXCEPT 125mm AT EACH END OD PIPING. PIPE ENDS SHALL BE CAPPED AND PROTECTED.
- ABOVE GROUND PORTION OF FABRICATED ASSEMBLIES PIPE SHALL BE COATED WITH A TRANSCANADA APPROVED COATING SPECIFICATION: TES-COAT-P1. ASSEMBLIES THAT ARE PARIALLY BURIED ARE TO BE COATED WITH THE APPROPRIATE ABOVE AND BELOW GROUND COATINGS AS INDICATED ON THE DRAWING.
- UNDERGROUND GIRTH WELDS BETWEEN EPU COMPONENTS COMPLETED IN THE FIELD SHALL BE COATED AS PER TRANSCANADA COATING SPECIFICATION: TES-COAT-EPU.
- UNDERGROUND BRACE SLEEVES SHALL BE COATED IN ACCORDANCE WITH TRANSCANADA COATING SPECIFICATION: TES-COAT-EPU. COAT BURIED FLANGES/NUTS/STUDS ETC. IN ACCORDANCE TO TRANSCANADA COATING SPECIFICATION: TES-COAT-PET.
- WELDING PROCEDURE SHALL BE SUITABLE FOR -45°C FOR ALL SHOP WELDS AND ABOVE GROUND FIELD WELDS.
- TYPICAL SHOP WELD RADIOGRAPHIC IDENTIFICATION BY WELD NUMBER. FW=FIELD WELD.
- LOCATION OF ANY ADDITIONAL WELDS SHALL BE NOTED ON AS-BUILT DRAWINGS.
- THIS DRAWING HAS BEEN FABRICATED/INSTALLED IN ACCORDANCE WITH THE DRAWING AND APPROVED TRANSCANADA PROCEDURES EXCEPT AS NOTED, SIGNED _____ FABRICATION SUPERVISOR
_____ INSTALLATION SUPERVISOR
- WHEN FABRICATING ASSEMBLIES ALLOW 1 METER OF EXTRA PIPE AT FIELD WELD LOCATIONS EXCEPT AT TRANSITION TIE-INS.
- MINIMUM COVER FOR ALL UNDERGROUND PIPING SHALL BE 1100mm UNLESS EXPLICITLY SPECIFIED OTHERWISE.
- FABRICATOR SHALL NOT SUBSTITUTE SPECIFIED MATERIAL WITHOUT PRIOR APPROVAL OF A TRANSCANADA REPRESENTATIVE.
- INSTALL SONOTUBE AROUND VALVE STEM EXTENSION AS PER DRAWING STDS-01-ML-06-101.
- FLANGE CONNECTION IS TO BE LEFT BARE AND COATED IN THE FIELD AS PER TRANSCANADA SPECIFICATION: TES-COAT-PET.
- WHERE $b_1 \leq 2.4\text{mm}$, NO SPECIAL TREATMENT IS NECESSARY, PROVIDED THAT FULL PENETRATION AND FUSION ARE ACCOMPLISHED IN WELDING. WHERE $b_1 > 2.4\text{mm}$, THE TRANSITION SHALL BE MADE BY WELDING, CUTTING, OR GRINDING, WITH A SLOPE NOT GREATER THAN 30°. (CSA Z662-11, FIGURE 7.2)

REFERENCE DRAWINGS	
DRAWING No	TITLE
18129-00-MS-00-000	MECHANICAL AND CIVIL DRAWING INDEX
18129-01-MS-01-001	PROCESS AND INSTRUMENTATION DIAGRAM
18129-01-MS-03-001	NPS 6 SIDE VALVE PLOT PLAN
18129-01-MS-04-002	YARD PIPING AND HIGH PRESSURE X-RAY CODE ISOMETRIC
18129-03-LA-02-001	CONSTRUCTION ALIGNMENT AND HYDROSTATIC PROFILE
STDS-01-ML-06-101	TYPICAL BURIED VALVE SONOTUBE INSTALLATION
STDS-03-MV-06-221	NPS 6 VALVE ASSEMBLY DESIGNATION: VABO

REVISION			APPROVAL						
REV No	DATE	DESCRIPTION	PROJECT CODE	DRAFTER	DRAFTING CHECKER	DESIGNER	DESIGN CHECKER	PROJECT MANAGER	COMPANY
00	2014-11-20	ISSUED FOR CONSTRUCTION (ROBERT MANSOUR)	MO00056	MTG	MP	JB	JB	JB	LANMARK

PROJECT CODE	DRAFTER	DRAFTING CHECKER	DESIGNER	DESIGN CHECKER	PROJECT MANAGER	COMPANY
MO00056	MTG	MP	JB	JB	JB	LANMARK

PROFESSIONAL ENGINEER/RPT	PERMIT/ ENG. APPROVAL
REV. NO.	DATE
	20 NOV 2014

JAPAN CANADA NO 2 SALES METER STATION			
FIA # 18129	CHAINAGE:	DISCIPLINE # 01	
NPS 6 SIDE VALVE HIGH PRESSURE X-RAY CODE ISOMETRIC			
SCALE N.T.S.	DRAWING No 18129-01-MS-04-001	AB MU	REV 00

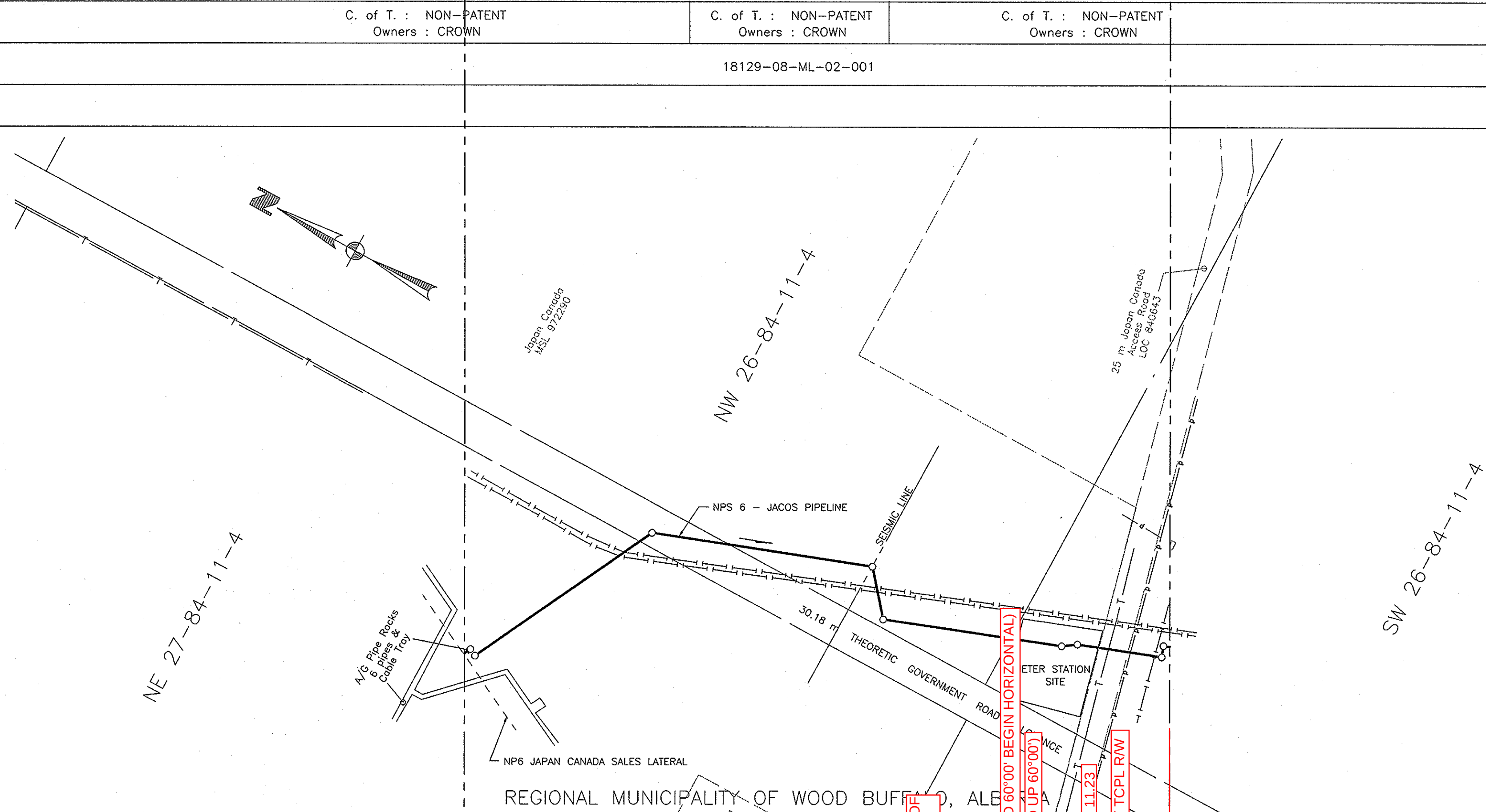
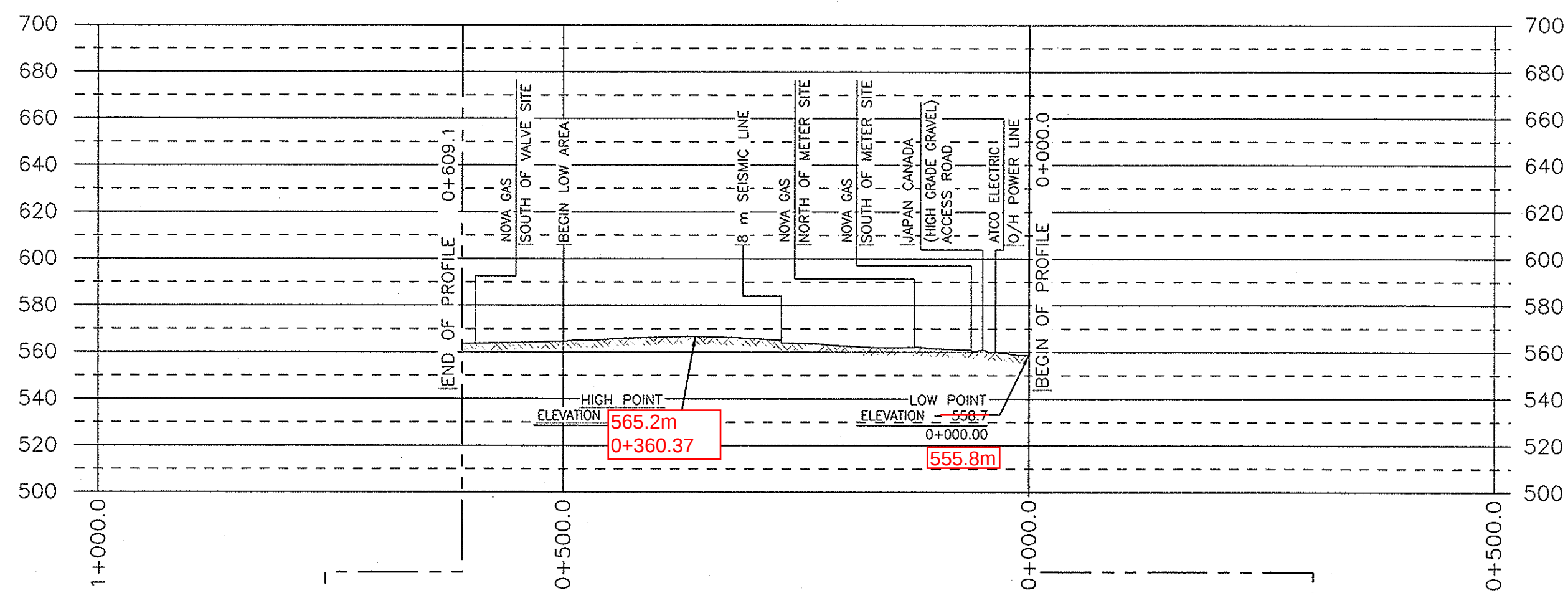
PROFILE NOTES

TEST SECTION	1	2
MAXIMUM HIGH POINT ELEVATION (metres)	566.7	
MINIMUM LOW POINT ELEVATION (metres)	562.0	
MAXIMUM DIFFERENTIAL (kPa)		
0.2% OFF-SET VOLUME (m ³)		
TEST SECTION LENGTH (m ²)	9.28	
80% S.M.Y.S. PRESSURE AT LOW POINT - U/S END (kPa)	16382	
80% S.M.Y.S. PRESSURE AT LOW POINT - D/S END (kPa)	16363	
MINIMUM STRENGTH TEST PRESSURE - U/S END (kPa)	12456	
MINIMUM STRENGTH TEST PRESSURE - D/S END (kPa)	12759	
MINIMUM STRENGTH TEST PRESSURE - U/S END (kPa)	12439	
MINIMUM STRENGTH TEST PRESSURE - D/S END (kPa)	12739	
MINIMUM LEAK TEST PRESSURE - U/S END (kPa)	10969	
MINIMUM LEAK TEST PRESSURE - U/S END (kPa)	12713	
MINIMUM LEAK TEST PRESSURE - D/S END (kPa)	10949	
MINIMUM LEAK TEST PRESSURE - D/S END (kPa)	12693	
TEST SECTION LENGTH (metres)	470	

1. LINE PIPE : NPS 6 x 4.8mm W.T., GRADE 359, CAT. II
HEAVY WALL : NPS 6 x 7.1mm W.T., GRADE 359, CAT. II
PRESSURE AT 100% S.M.Y.S. = 20500 kPa.
PRESSURE AT 110% S.M.Y.S. = 22500 kPa.
MAXIMUM OPERATING PRESSURE = 9930 kPa.
2. ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE SHOWN.

GENERAL NOTES

1. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. ALL CHANGES ARE SLACK MEASUREMENTS UNLESS OTHERWISE SPECIFIED.
3. AT TIME OF ORIGINAL CONSTRUCTION PIPELINE WAS IN A CLASS I (CS) ZONE AND A LOCATION.
4. ALL COVERS FOR PIPELINE CROSSINGS ARE MEASURED TO FOREIGN PIPELINES. CONFIRM PIPELINE COVER OF FOREIGN LINE CROSSINGS PRIOR TO CONSTRUCTION.
5. ALL TRANSCANADA P/L CROSSINGS SHALL HAVE MINIMUM CLEARANCES OF 0.3m and 0.6m BETWEEN OTHER PIPELINES & CABLES, RESPECTIVELY.
6. MINIMUM COVER OF 1.2m ON AGRICULTURAL LANDS AND 0.9m ON NON-AGRICULTURAL LANDS.
7. FOR RIGHT-OF-WAY DETAILS SEE DRAWING 18129-08-ML-02-001.
8. CLEARANCES SPECIFIED ON CROSSING AGREEMENTS PREVAIL.
9. ALL PROPOSED LOCATIONS FOR STUB BERMS, DITCH PUGS AND DIVERSION BERMS ARE PRELIMINARY AND NEED TO BE FIELD CHECKED FOR LOCAL PLANT GRADES, LOCAL TOPOGRAPHY, LOCAL FEATURES AND LOCAL DRAINAGE PATTERNS.



ENGINEERING DATA		SURVEY DATA	
CHAINAGE	DESCRIPTION	CHAINAGE	DESCRIPTION
0+472.84	NP6 JAPAN CANADA SALES LATERAL	0+603.13	2'90" 00' 00" LT
0+466.55	14.95	0+600.66	2'90" 00' 00" RT
0+596.45	7.5	0+600.06	SOUTH BOUNDARY OF VALVE SITE
0+246.51	12.0	0+440.43	42'00" SBLT
0+250.04	447.81	0+273.65	35'00" SBLT
0+138.64	457.81	0+263.29	35'00" SBLT
0+129.44	67.252	0+232.01	35'00" SBLT
0+107.69	71.59	0+217.02	35'00" SBLT
0+082.24	67.252	0+129.44	NORTH BOUNDARY METER SITE
0+069.26	67.252	0+096.05	15'52" SBLT
0+055.02	67.252	0+084.05	15'20" SBLT
0+023.40	67.252	0+075.49	90'00" SBLT (ROLLED)
0+000.00	67.252	0+074.33	90'00" SBLT (ROLLED)
	67.252	0+067.05	SOUTH BOUNDARY OF METER SITE
	67.252	0+042.10	3 WIRE OVERHEAD
	67.252	0+014.21	AVC L.P.C.
	67.252	0+012.21	AVC L.P.C.
	67.252	0+003.68	AVC L.P.C.
	67.252	0+002.22	Cadwell
	67.252	0+001.55	Cadwell
	67.252	0+000.90	Cadwell
	67.252	0+000.36	Cadwell

T.O.P. EL. 562.31m

TIE-IN

0+611.40

JC2SL10-M-1SV0-JACSL

No Heavywall

T.O.P. EL. 562.32m

0+596.45

0+259.4

BURIED PIPELINE NP5 5 - JAPAN CANADA

BURIED PIPELINE NP5 4 - JAPAN CANADA

BURIED PIPELINE NP5 3 - JAPAN CANADA

BURIED PIPELINE NP5 2 - JAPAN CANADA

BURIED PIPELINE NP5 1 - JAPAN CANADA

CLR 1.10

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CLR 2.99

CLR 3.00

CLR 3.01

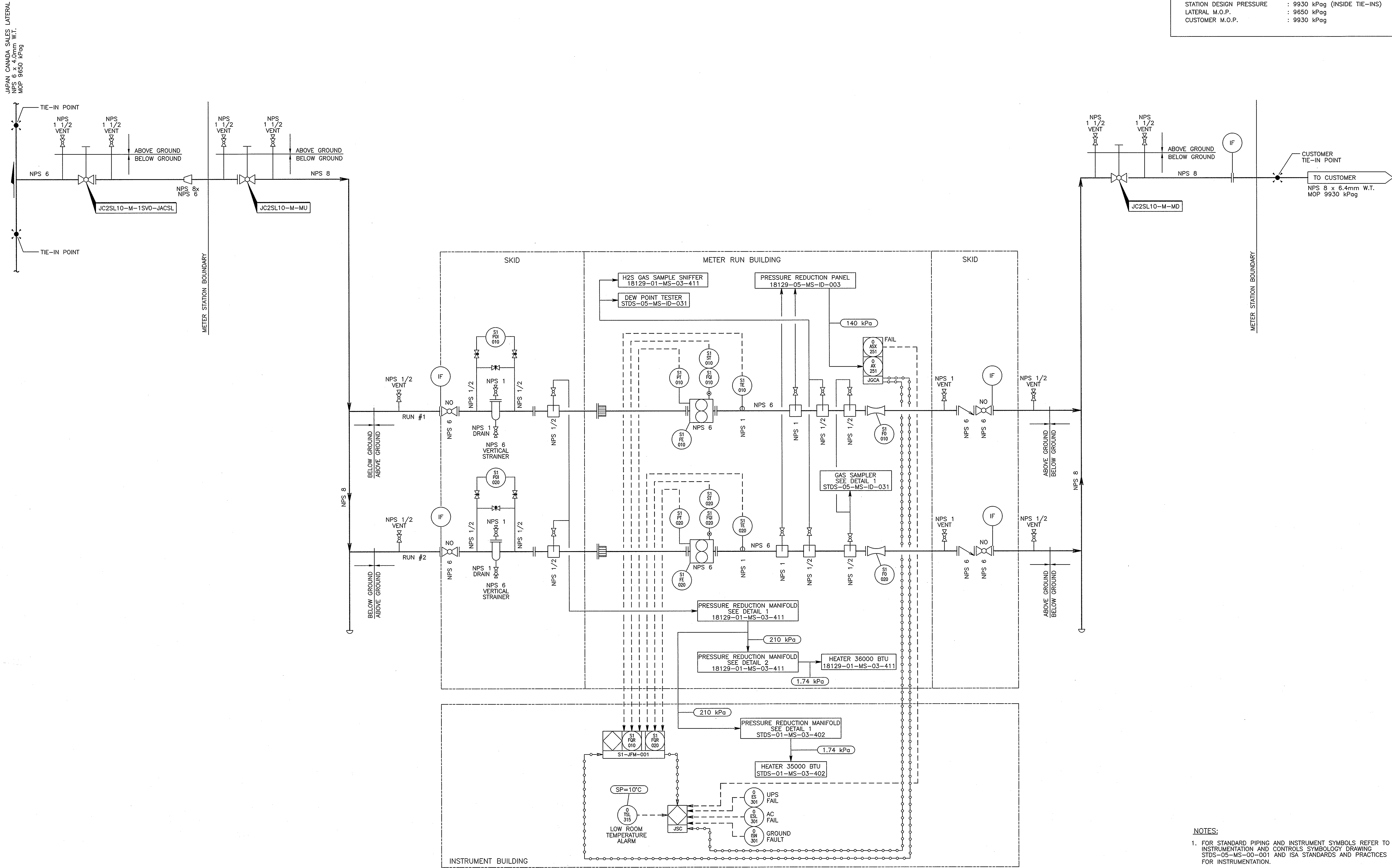
CLR 3.02

CLR 3.03

[illegible]

STATION DATA

STATION DESIGN PRESSURE : 9930 kPag (INSIDE TIE-INS)
LATERAL M.O.P. : 9650 kPag
CUSTOMER M.O.P. : 9930 kPag



NOTES:

1. FOR STANDARD PIPING AND INSTRUMENT SYMBOLS REFER TO INSTRUMENTATION AND CONTROLS SYMBOLOLOGY DRAWING STD5-05-MS-00-001 AND ISA STANDARDS AND PRACTICES FOR INSTRUMENTATION.

REFERENCE DRAWINGS	
DRAWING No	TITLE
18129-00-MS-00-000	MECHANICAL AND CIVIL DRAWING INDEX
18129-00-MS-00-001	TELECOMMUNICATIONS, INSTRUMENTATION, CONTROLS AND ELECTRICAL DRAWING INDEX
18129-01-MS-03-411	HEATING AND PRESSURE REDUCTION LAYOUT FOR 3600 X 4200 TURBINE METER RUN BUILDING
18129-05-MS-ID-002	ABB GAS CHROMATOGRAPH INSTALLATION DETAILS
18129-05-MS-ID-003	GAS SAMPLE SYSTEM TWO RUNS
STD5-01-MS-03-402	HEATING AND PRESSURE REDUCTION LAYOUT FOR 3600 X 5800 INSTRUMENT BUILDING
STD5-05-MS-00-001	INSTRUMENTATION AND CONTROLS DRAWING SYMBOLOLOGY
STD5-05-MS-ID-031	GAS SAMPLER AND DEW POINT TESTER INSTALLATION DETAILS

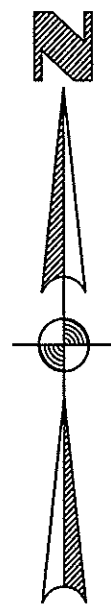
REVISION		
REV No	DATE	DESCRIPTION
00	2014-07-24	ISSUED FOR CONSTRUCTION (ROBERT MANSOUR)

APPROVAL							
PROJECT CODE	DRAFTER	DRAFTING CHECKER	DESIGNER	DESIGN CHECKER	PROJECT MANAGER	COMPANY	
M000056	MTG	MTG	B	P	J	LANMARK	

PROFESSIONAL ENGINEER/RPT	PERMIT/ ENG. APPROVAL
	DATE
REV. NO.	PERMIT NUMBER:

PERMIT TO PRACTICE
LANMARK ENGINEERING INC.
Signature: *[Signature]*
Date: 20 NOV 2014
PERMIT NUMBER: P 6619
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

JAPAN CANADA NO 2 SALES METER STATION	
FA # 18129	CHAINAGE: DISCIPLINE # 01
PROCESS AND INSTRUMENTATION DIAGRAM	
SCALE N.T.S.	DRAWING No 18129-01-MS-01-001
	REV 00



NOTES :

1. ALL COORDINATES ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. POUNDING ROD NOT PERMITTED OVER BURIED PIPING.
3. FENCE TO BE ERRECTED AFTER STATION COMPLETION.
4. LOCATION OF ALL EXISTING BELOW GRADE FACILITIES WITHIN THE WORKING AREA MAY BE DIFFERENT FROM THOSE SHOWN ON THE DRAWING
5. ALL FENCE MATERIAL TO CONFORM WITH TES-DV32-3115 – PORTABLE CHAIN LINK FENCE.

 TransCanada <i>In business to deliver</i>			
JAPAN CANADA NO 2 SALES METER STATION			
FIA #	18129	CHAINAGE:	DISCIPLINE # 01
METER STATION PLOT PLAN			
SCALE	DRAWING No.		REV
1:200	18129-01-MS-03-002		00