

CON'T ON
FUTURE NPS 36 LINE
Q15200/D-3.01-SK15200--10LFL
E 228.357
N 124.025
EL. 681.650

AFE # 1241001C82 (LFL)
HT-CWP-2.16.M.02-001

AS BUILT
WorleyParsonsCord
NOV 26 2014
[Signature]

- NOTES:
- 1. ANY DEVIATION FROM THE HYDROTEST PLAN MUST BE APPROVED BY ENBRIDGE ENGINEERING BEFORE INITIATING HYDROTEST.
 - 2. HYDROSTATIC TEST PROCEDURES SHALL BE IN ACCORDANCE WITH ENBRIDGE SPECIFICATION FCS-014 (2011) AND CSA Z662 OIL AND GAS PIPELINE SYSTEMS LATEST EDITION.
 - 3. ALL HYDROTEST MATERIALS TO BE SUPPLIED BY CONTRACTOR.
 - 4. ISOLATE ALL INSTRUMENTS PRIOR TO HYDROTEST.
 - 5. INDICATES LIMIT OF HYDROTEST.

2012 CONSTRUCTION

EDMONTON (AB) TERMINAL - SOUTH EDMONTON TERMINAL (SOUTH) EXPANSION (SET)	
NO: 1241001C82 (LFL)	DATE: 19 JUL 12
BY: [Signature]	APP: [Signature]
NO	SUBSEQUENT REVISION
DATE/BY	APPR



PERMIT TO PRACTICE
STANTEC CONSULTING LTD.
Signature: [Signature]
Date: May 26, 2014
PERMIT NUMBER: P 0258
Association of Professional Engineers and Geoscientists of Alberta

M271A/D-3.01-61495--10LFL MATERIAL ISOMETRIC
REFERENCE DRAWINGS

WorleyParsonsCord Ltd
RECEIVED
AT HOME OFFICE
AUGUST 11, 2014

NO	REVISION	DATE/BY	APPROVE
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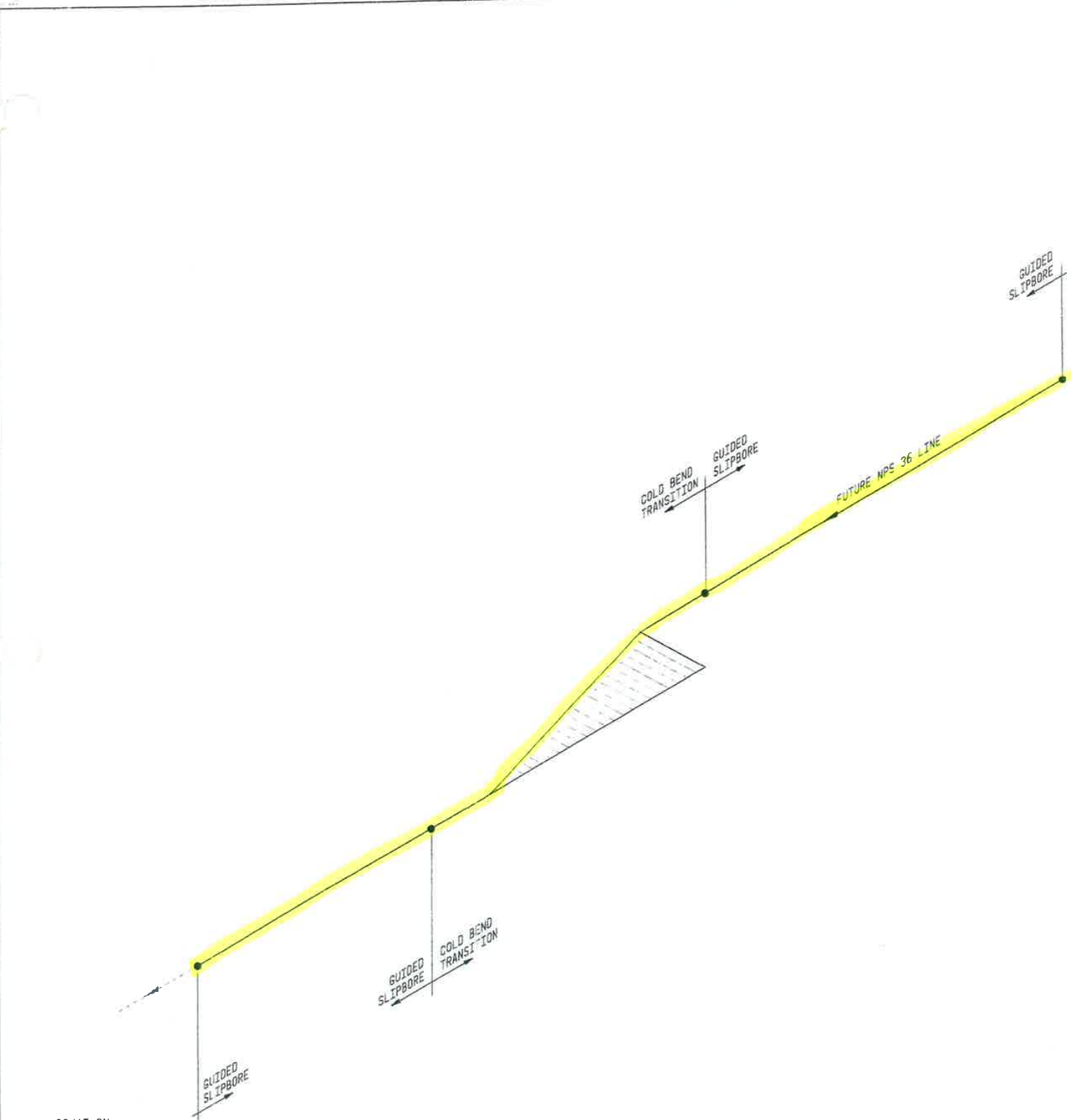


EDMONTON (AB) TERMINAL
MANIFOLD 217 AREA
FUTURE NPS 36 LINE
HYDROTEST ISOMETRIC

DRAWN: [Signature]	EA: [Signature]	CHECK: [Signature]	APPROVE: KOLSEN
DATE: 22 APR 14	SCALE: NTS	APPROVE: RKEMP	

D-3.01-SK1519B-0-10LFL Q1519B

PRESSURE TEST DETAILS						
SECTION	MINIMUM TEST PRESSURE	MAXIMUM TEST PRESSURE	MAX OPERATING PRESSURE	MIN LEAK TEST PRESSURE	APPROXIMATE FILL VOLUME	TEST DURATION (HRS)
A - A	413 psi 2850 kPa	429 psi 2964 kPa	275 psi 1900 kPa	303 psi 2098 kPa	37.3 m³	ABOVE GRADE - 1.0 HR STRENGTH TEST FOLLOWED BY VISUAL LEAK INSPECTION/DETECTION BELOW GRADE - 4.0 HRS STRENGTH TEST FOLLOWED BY 4.0 HRS



CON'T ON
FUTURE NPS 36 LINE
Q15198/D-3.01-SK15198--10LFL
E 228.357
N 124.025
EL.681.650

AFE#1241001C82 (LFL)
HT-CWR 2.16.M.02-001

AS BUILT
WorleyParsonsCord
NOV 26 2014

CON'T ON
FUTURE NPS 36 LINE
Q15218/D-3.01-SK15218--10LFL
E 229.805
N 124.025
EL.681.650

- NOTES:
- 1. ANY DEVIATION FROM THE HYDROTEST PLAN MUST BE APPROVED BY ENBRIDGE ENGINEERING BEFORE INITIATING HYDROTEST.
 - 2. HYDROSTATIC TEST PROCEDURES SHALL BE IN ACCORDANCE WITH ENBRIDGE SPECIFICATION FCS-014 (2011) AND CSA Z662 OIL AND GAS PIPELINE SYSTEMS LATEST EDITION.
 - 3. ALL HYDROTEST MATERIALS TO BE SUPPLIED BY CONTRACTOR.
 - 4. ISOLATE ALL INSTRUMENTS PRIOR TO HYDROTEST.

2012 CONSTRUCTION

REV	EDMONTON (AB) TERMINAL - SOUTH
EDMONTON TERMINAL (SOUTH) EXPANSION (SET)	
AFE 1241001C82 (LFL)	DATE 19 JUL 12
BY	APPROVED
NO	SUBSEQUENT REVISION
DATE/BY	APPR

PROFESSIONAL ENGINEER
CHRIS WHITFIELD
MAY 28, 2014

PERMIT TO PRACTICE
STANTEC CONSULTING LTD.
Signature: [Signature]
Date: May 28, 2014
PERMIT NUMBER: P 0258
Association of Professional Engineers and Geoscientists of Alberta

M2718/D-3.01-61496--10LFL MATERIAL ISOMETRIC
REFERENCE DRAWINGS

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ENBRIDGE
18081 JASPER AVENUE
EDMONTON ALBERTA CANADA

EDMONTON (AB) TERMINAL
PIPING YARD AREA
FUTURE NPS 36 LINE
HYDROTEST ISOMETRIC

DRAWN	CHKD	CHKD	APPROVE	APPROVE
GVD	FEA	GRN	KOLSEN	RKEMP
DATE	22 APR 14	SCALE	NTS	
D-3.01-SK15208-0-10LFL				Q15208

PRESSURE TEST DETAILS						
SECTION	MINIMUM TEST PRESSURE	MAXIMUM TEST PRESSURE	MAX OPERATING PRESSURE	MIN LEAK TEST PRESSURE	APPROXIMATE FILL VOLUME	TEST DURATION (HRS)
A - A	413 psi 2850 kPa	429 psi 2964 kPa	275 psi 1900 kPa	303 psi 2090 kPa	74.0 m³	ABOVE GRADE - 1.0 HR STRENGTH TEST FOLLOWED BY VISUAL LEAK INSPECTION/DETECTION BELOW GRADE - 4.0 HRS STRENGTH TEST FOLLOWED BY 4.0 HRS

