EXHIBIT B-1

PTEP Alignment Sheets and Details

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USPT-WP-YDSYM-060001-001

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USPT-WP-YDPAL-060001-002

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USPT-WP-YDISO-060002-001

USPT-WP-YDISO-060003-001

Wind-Induced Vibration Mitigation:

USPT-WP-YDWIV-060001-001

USPT-WP-YDWIV-060001-002

USPT-WP-YDWIV-060002-001

POINT THOMSON PROJECT

12" EXPORT PIPELINE
12"-LN-644-0049-ME8EV-3"H

ISSUED FOR CONSTRUCTION
DECEMBER 28, 2011

Michael Baker Jr., Inc.

POINT THOMSON PROJECT
12" EXPORT PIPELINE 12"-LN-644-0049-ME8EV-3"H
ISSUED FOR CONSTRUCTION
DECEMBER 28, 2011

ExxonMobil Development

T:\122263 - Point Thomson EPC\03 - CADD\01 - Export\USPT-WP-YDSYM-060000.dwg, Layout1, 12/22/2011 11:71:15 PM, JGardner

SCOPE OF WORK

THE EPC LEVEL SCOPE OF WORK FOR THIS PROJECT INCLUDES:

1. APPROXIMATELY 22 MILES OF NPS 12 API 5L X65 CROSS-COUNTRY PIPELINE BETWEEN THE POINT THOMSON CENTRAL PAD AND BADAMI.
2. PIPELINE SUPPORT SYSTEM (VSM AND HSM).
3. PIPELINE SADDLES: ANCHORS, SLIDING AND GUIDED.
4. WIND-INDUCED VIBRATION MITIGATION DESIGN FOR THE PIPELINE.
5. PIPELINE HYDROTEST WITH NITROGEN SEAL.
6. THE SCOPE OF WORK, REFERENCED CODES, STANDARDS, SPECIFICATIONS, PROJECT DRAWINGS, STANDARD DRAWINGS, AND OTHER SUPPLEMENTAL INSTRUCTIONS DEFINE THE PROJECT REQUIREMENTS.

PROJECT SURVEY CONTROL NOTES

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY PND, INC. APRIL, 2011.
2. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
3. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW). PTU MLLW IS SYNONYMOUS WITH PRUDHOE BAY WEST DOCK MLLW.

PROJECT SURVEY CONTROL POINTS

CODE	Y=NORTH	X=EAST	ELEV	WGS 84 LATITUDE	WGS 84 LONGITUDE
HV301	5905604.861	1503434.706	13.289	70°09'01.13912"N	147°06'05.30132"W
HV302	5904828.611	1507184.113	21.151	70°08'54.16263"N	147°04'16.39398"W
HV303	5898415.772	1506574.288	25.846	70°07'50.98844"N	147°04'30.76557"W
HV304	5895988.922	1510142.452	28.927	70°07'27.73194"N	147°02'46.38987"W
HV305	5910420.425	1548251.803	12.387	70°09'55.17040"N	146°44'29.81995"W
HV306	5902200.333	1550787.529	35.81	70°08'34.61989"N	146°43'13.55665"W
HV307	5913101.842	1582276.308	9.701	70°10'24.85786"N	146°28'04.85268"W
HV308	5908365.901	1585470.009	19.752	70°09'38.51929"N	146°26'31.30983"W
HV309	5916950.349	1586721.212	5.262	70°11'03.04540"N	146°25'56.84026"W
HV310	5898658.965	1602644.98	44.216	70°08'04.07330"N	146°18'12.51585"W
HV311	5912893.48	1608227.63	6.02	70°10'24.34211"N	146°15'32.79576"W
HV312	5904275.581	1626626.163	7.239	70°09'00.12281"N	146°06'39.17805"W
HV313	5896929.639	1620581.049	30.664	70°07'47.73312"N	146°09'33.60223"W
PTU4	5914622.578	1584359.756	10.659	70°10'38.26275"N	146°36'44.46764"W
PT090332	5908615.751	1595671.191	21.186	70°09'41.63747"N	146°21'35.92437"W
PT090333	5908112.84	1606950.859	16.78	70°09'37.26374"N	146°16'09.18206"W
PT090334	5904076.123	1608792.933	23.598	70°08'57.63511"N	146°15'15.34763"W

GENERAL NOTES

1. KNOWN UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. PRIOR TO WORK THE CONTRACTOR SHALL VERIFY SIZE, DEPTH, AND LOCATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL PROTECT UTILITIES AND STRUCTURES FROM DAMAGE AND SHALL NOT DISTURB UNDERGROUND UTILITIES/STRUCTURES THAT ARE TO REMAIN.
2. LONGITUDINAL WELD SEAMS SHALL BE OFFSET A MINIMUM OF 90° AT ALL BUTT WELDS.

STRUCTURAL NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO NON-DESTRUCTIVE TESTING AS NOTED BELOW, UNLESS NOTED OTHERWISE.
2. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D 1.1.
3. ALL BOLTS SHALL BE ASTM A320 GR. L7, UNLESS NOTED OTHERWISE.

CODES, STANDARDS AND SPECIFICATIONS

CODES AND STANDARDS

ALASKA GENERAL SAFETY CODE (AGSC)	OCCUPATIONAL SAFETY AND HEALTH STANDARDS
ASTM INTERNATIONAL A572/A572M-07	STANDARD SPECIFICATION FOR HIGH-STRENGTH, LOW ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIVE REGULATIONS
49 CFR 195	CODE OF FEDERAL REGULATIONS, TITLE 49, "TRANSPORTATION," PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE"
2D1D ASH	ALASKA SAFETY HANDBOOK
FEBRUARY 2005 NSEFH	NORTH SLOPE ENVIRONMENTAL FIELD HANDBOOK
ASME B31.4	PIPELINE TRANSPORTATION SYSTEMS FOR LIQUID HYDROCARBONS AND OTHER LIQUIDS, 2008

SPECIFICATIONS

USPT-WP-CSPDS-001001	CIVIL DESIGN SPECIFICATION
USPT-WP-CSPDS-001021	ONSHORE ICE ROAD SPECIFICATION
USPT-WP-KSPDS-004001	STRUCTURAL STEEL WELDING
USPT-WP-LSPDS-000005	HIGH YIELD PIPE, FITTINGS, AND FLANGES
USPT-WP-NSPDS-D00001	MATERIAL TOUGHNESS REQUIREMENTS FOR STRUCTURAL STEEL
USPT-WP-NSPDS-000018	VSM, PILES, AND SHEET PILING
USPT-WP-RSPDS-004001	SHOP APPLIED LINE PIPE INSULATION
USPT-WP-RSPDS-004011	EXTERNAL PIPE COATING - APPLICATION OF FUSION BONDED EPOXY
USPT-WP-YSPDS-000007	ABOVEGROUND ARCTIC PIPELINE DESIGN
USPT-WP-YSPDS-000004	CARBON STEEL PIPELINE WELDING
USPT-WP-YSPDS-000008	INDUCTION BENDS FOR PIPELINES
USPT-WP-YSPDS-000016	HANDLING, TRANSPORT AND STORAGE OF PIPE
USPT-WP-YSPDS-000030	PTFE SLIDE PLATES FOR PIPELINES
USPT-WP-YSPDS-D00039	PIPELINE SUPPORT SADDLES
USPT-WP-YSPDS-000040	PIPELINE HYDROSTATIC TESTING
USPT-WP-YSPDS-000041	GRADE X65 PIPELINE MATERIALS
USPT-WP-YSPDS-000044	PIPELINE SUPPORT ANCHORS
USPT-WP-YSPDS-000045	PIPELINE SUPPORTS
USPT-WP-YSPDS-D00050	PRE-FORMED PIPELINE INSULATION
USPT-WP-YSPDS-000070	PIPELINE LINE CLASSES
USPT-WP-YSPDS-000071	PIPELINE FBE JOINT COATING
USPT-WP-YSPDS-000072	PIPELINE LIQUID JOINT COATING
USPT-WP-YSPDS-000074	PIPELINE AS-BUILT SURVEY
USPT-WP-YSPDS-000075	ABOVEGROUND ARCTIC PIPELINE CONSTRUCTION
USPT-WP-YSPDS-000079	PIPELINE LAND AND ROUTE SURVEY

NON-DESTRUCTIVE TESTING (NDT)

1. LOW TEMPERATURE STEEL SHALL BE MARKED LT IN THE FABRICATION SHOP FOR POSITIVE IDENTIFICATION. LT STRUCTURAL STEEL SHALL MEET CVN IMPACT TEST CRITERIA OF 20/15 FOOT-POUNDS (AVERAGE/MINIMUM) AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH ASTM A370 AND A673, FREQUENCY-H.
2. FABRICATION CONTRACTOR SHALL SUBMIT CERTIFIED MATERIAL TEST REPORTS WITH CVN TEST RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION FOR ALL STEEL PURCHASED BY FABRICATOR.
3. STRUCTURAL STEEL BEAMS (W-SHAPES) SHALL CONFORM TO ASTM A572, GRADE 50, FY=50 KSI MINIMUM YIELD AND SHALL MEET CVN TESTING REQUIREMENTS FOR LT STEEL (SEE NOTE 1).
4. STRUCTURAL STEEL PIPE SHALL CONFORM TO API 5L X65, FY = 65 KSI MINIMUM YIELD AND SHALL MEET CVN TESTING REQUIREMENTS FOR LT STEEL (SEE NOTE 1).
5. STRUCTURAL STEEL PLATES AND BARS SHALL CONFORM TO ASTM A572, GRADE 50, FY=50 KSI MINIMUM YIELD AND SHALL MEET CVN TESTING REQUIREMENTS FOR LT STEEL (UON, SEE NOTE 1).
6. LOW TEMPERATURE LINE PIPE SHALL MEET CVN IMPACT TEST CRITERIA OF 59/53 FOOT-POUNDS (AVERAGE/MINIMUM) @ -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH ASTM A370.
7. PIPELINE WELD PROCEDURE SPECIFICATIONS SHALL BE QUALIFIED USING A CVN IMPACT TEST CRITERIA OF 30/25 FOOT-POUNDS (AVERAGE/MINIMUM) @ -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH ASTM A370.

ABBREVIATIONS

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
API	AMERICAN PETROLEUM INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASP	ALASKA STATE PLANE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BOP	BEGINNING OF PIPELINE
BOT	BOTTOM
CPF	CENTRAL PROCESSING FACILITY
℄	CENTERLINE
CLR	CLEARANCE
CS	CARBON STEEL
CVN	CHARPY V-NOTCH
DIA	DIAMETER
DEG	DEGREE
E	EASTING
EA	EACH
EG	EXISTING GRADE
ELEC	ELECTRICAL
EL/ELEV	ELEVATION
EMPC	EXXONMOBIL PRODUCTION COMPANY
EOP	END OF PIPELINE
EPC	ENGINEERING, PROCUREMENT & CONSTRUCTION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
FBE	FUSION BONDED EPOXY
FEED	FRONT-END ENGINEERING DESIGN
FG	FINISH GRADE
FOC	FIBER OPTIC CABLE
FS	FAR SIDE
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GE	GENERAL ELECTRIC PRODUCT
HSM	HORIZONTAL SUPPORT MEMBER
IN	INCHES
INV	INVERT
IR	INSIDE RADIUS
KSI	KIPS PER SQUARE INCH
LPS	LOW PRESSURE SERVICE
LT	LOW TEMPERATURE
LTCS	LOW TEMPERATURE CARBON STEEL
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE
MAX	MAXIMUM
MBJ	MICHAEL BAKER JR., INC.
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
N	NORTHING
NAD	NORTH AMERICAN DATUM
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PSIG	POUNDS PER SQUARE INCH GAUGE
PTEP	POINT THOMSON EXPORT PIPELINE
PTFE	POLYTETRAFLUOROETHYLENE
PTU	POINT THOMSON UNIT
R	RADIUS
ROW	RIGHT OF WAY
SS	STAINLESS STEEL
STA	STATION
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
THK	THICKNESS
TOS	TOP OF STEEL
TVA	TUNED VIBRATION ABSORBER
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UON	UNLESS OTHERWISE NOTED
VPI	VERTICAL POINT OF INTERSECTION
VSM	VERTICAL SUPPORT MEMBER
WIV	WIND-INDUCED VIBRATION
WP-F	WORLEY PARSONS - FLUOR
WT	WALL THICKNESS

LEGEND

- CENTER LINE
- MLLW LIDAR AND PHOTO CONTROL POINT
- GUIDED OR SLIDING SUPPORT
- ANCHORED SUPPORT
- PI OR VPI LOCATION
- DIRECTION OF FLOW
- H — HIGH FREQUENCY TVA
- L — LOW FREQUENCY TVA
- M — MEDIUM FREQUENCY TVA

LETTER INDICATES SECTION OR ELEVATION
ARROW INDICATES DIRECTION OF CUTTING PLANE
INDICATES DRAWING NUMBER WHERE SECTION IS DRAWN
" – " INDICATES DRAWN ON SAME SHEET

NUMBER INDICATES DETAIL
INDICATES DRAWING NUMBER WHERE DETAIL IS DRAWN
" – " INDICATES DRAWN ON SAME SHEET

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

COLD SPRING TABLE (INCHES)		TEMPERATURE (F)										
		-40	-30	-20	-10	0	10	20	30	40	50	60
LENGTH (FEET)	200	2	1	1	1	1	1	1	0	0	0	0
	300	2	2	2	2	1	1	1	1	0	0	0
	400	3	3	2	2	2	2	1	1	1	0	0
	500	4	4	3	3	2	2	2	1	1	0	0
	600	5	4	4	3	3	2	2	1	1	0	0
	700	5	5	4	4	3	3	2	2	1	1	0
	800	6	6	5	4	4	3	2	2	1	1	0
	900	7	6	6	5	4	4	3	2	1	1	0
	1000	8	7	6	5	5	4	3	2	2	1	0
	1100	9	8	7	6	5	4	3	3	2	1	0
	1200	9	8	7	7	6	5	4	3	2	1	0
	1300	10	9	8	7	6	5	4	3	2	1	0
	1400	11	10	9	8	7	5	4	3	2	1	0
	1500	12	11	9	8	7	6	5	4	2	1	0
	1600	12	11	10	9	7	6	5	4	2	1	0
	1700	13	12	11	9	8	7	5	4	3	1	0
	1800	12	11	9	8	7	6	5	4	2	1	0
	1900	15	13	12	10	9	7	6	4	3	1	0
	2000	16	14	12	11	9	8	6	5	3	2	0

COLD SPRING LENGTH [IN] = 0.0000065 [IN/IN F] x LENGTH [FT] x (BASE TEMPERATURE [F] – TIE-IN TEMPERATURE [F]) x 12 [IN/FT]
NOTE: BASE TEMPERATURE IS 60F

REFERENCE DRAWINGS	DESCRIPTION

STATE OF ALASKA — 4911 — PAUL A. CARSON — CE 7733 — 12-22-11 — REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RH	JAG	PAC	CMP

ExxonMobil Development

WorleyParsons FLUOR. resources & energy

Baker

EXPORT PIPELINE – PIPELINE
LEGENDS & SYMBOLS
PROJECT NOTES, ABBREVIATIONS AND LEGEND

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG / APPD PAC
	R. HOBBS	12/11	NONE	

DRAWING NO. USPT-WP-YDSYM-060001-001 — SHEET 1 of 1 — REV 10

FILENAME: USPT-WP-YDSYM-060001-001

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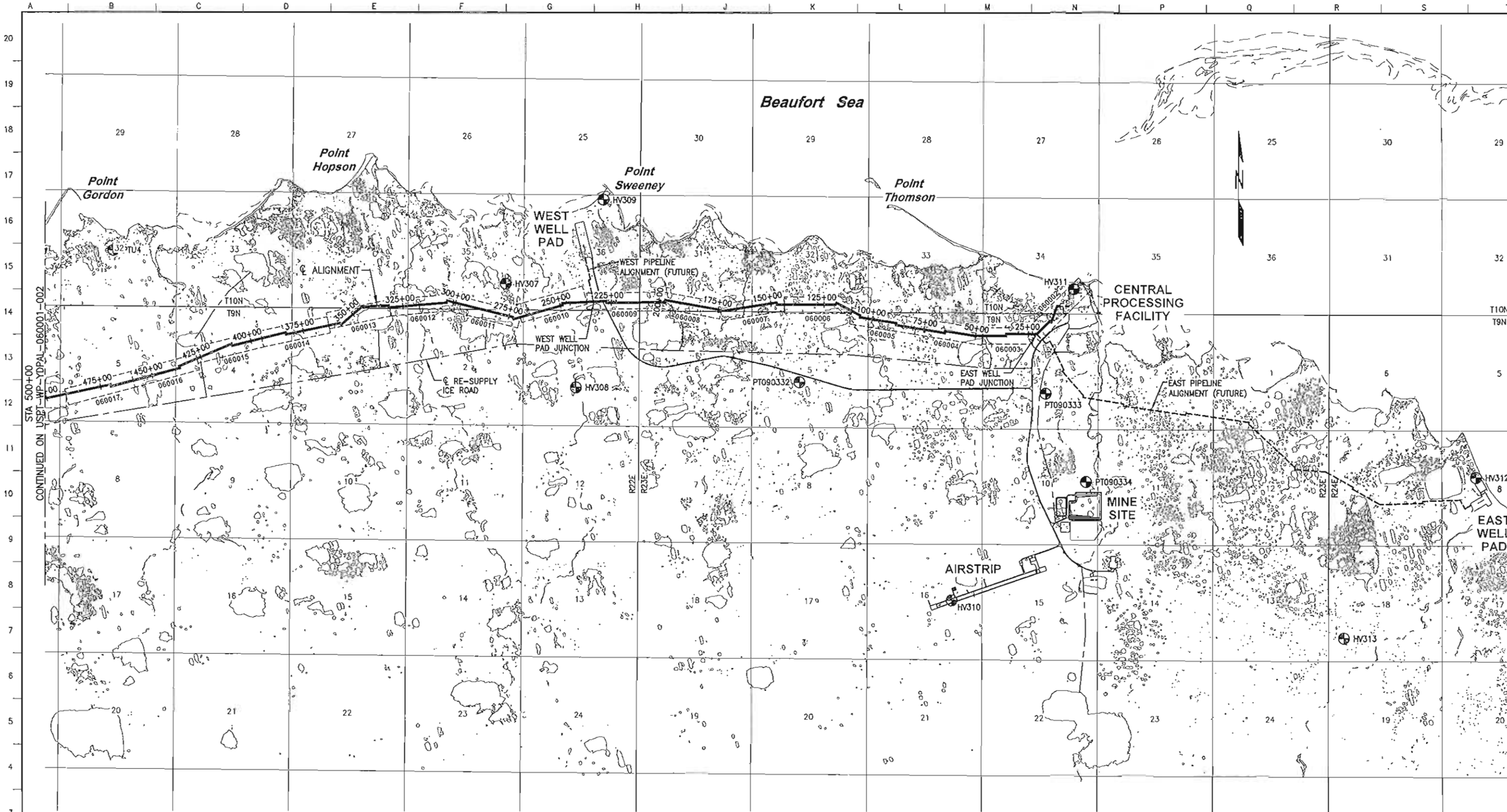

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-844-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. FOR PLANS AND PROFILES, SEE DRAWINGS USPT-WP-YDPAL-060002 THRU USPT-WP-YDPAL-060039.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060002 THRU 060039	PLANS & PROFILES

STATE OF ALASKA 49TH PAUL A. CARSON CE 7338 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
SITE PLAN
BOP TO STA 500+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK APPD	JAG PAC
	R. HOBBS	12/11	AS SHOWN		

DRAWING NO. USPT-WP-YDPAL-060001-001 SHEET 1 of 2 REV 10

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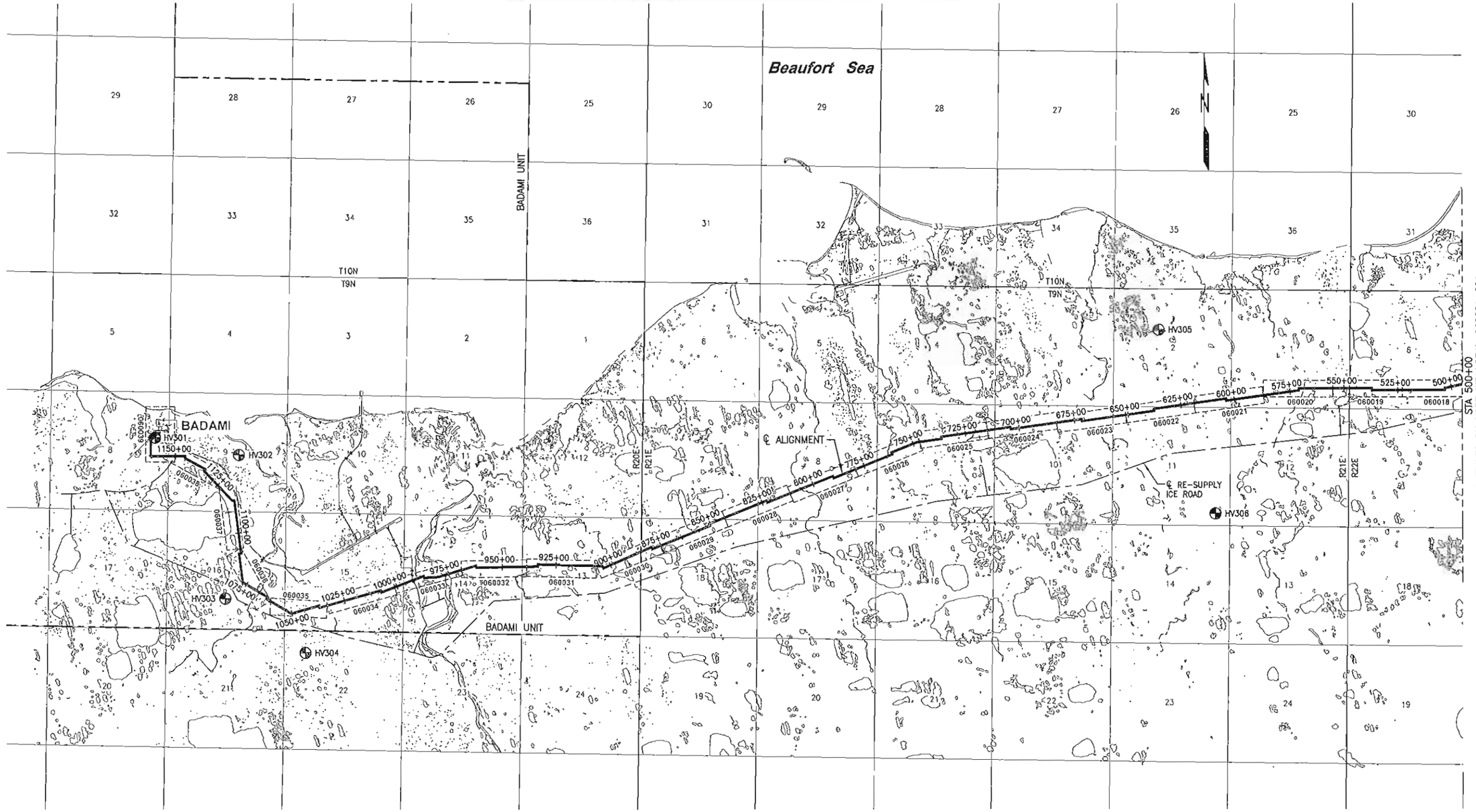

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. FOR PLANS AND PROFILES, SEE DRAWINGS USPT-WP-YDPAL-060002 THRU USPT-WP-YDPAL-060039.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060002 THRU 060039	PLANS & PROFILES

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JNG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
SITE PLAN
STA 500+00 TO EOP

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JNG / PAC

DRAWING NO. USPT-WP-YDPAL-060001-002 SHEET 2 of 2 REV 10

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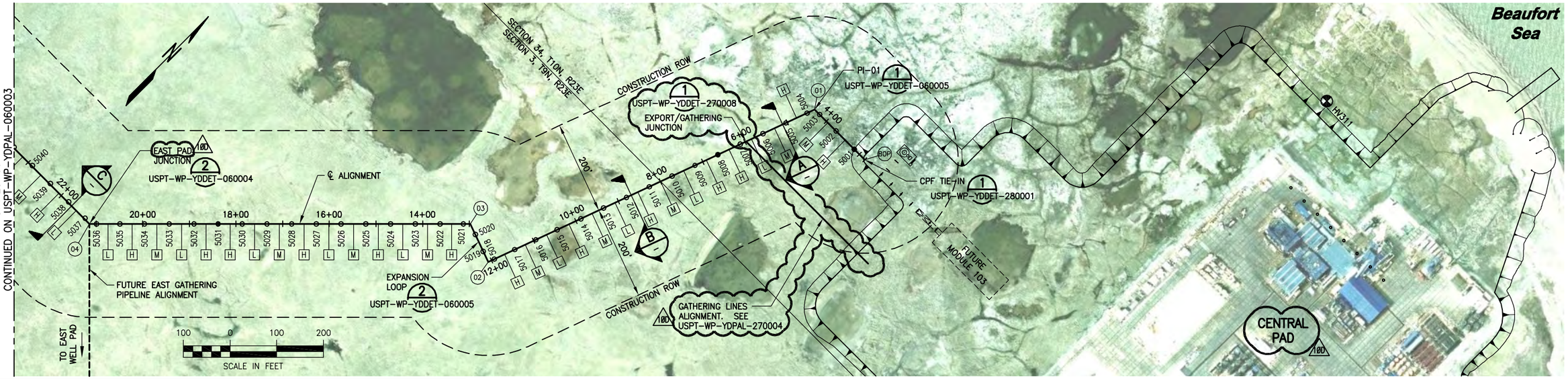


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
BOP TO 23+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
6+00 TO 23+00	8.625" DIA DNV SMLS 450 L UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT (#)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
BOP	BEGINNING OF PIPELINE	2+83.50	5912104.40	1607616.00	–
01	PI	4+35.50	5912104.40	1607464.00	70.0°
02	PI	12+07.72	5911378.76	1607199.89	90.0°
03	PI	12+97.72	5911409.54	1607115.31	65.0°
04	PI	21+14.26	5910832.16	1606537.93	45.0°

PIPE SUPPORT IDENTIFICATION

VS–06–704–XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX–XX–XX–XX–XX

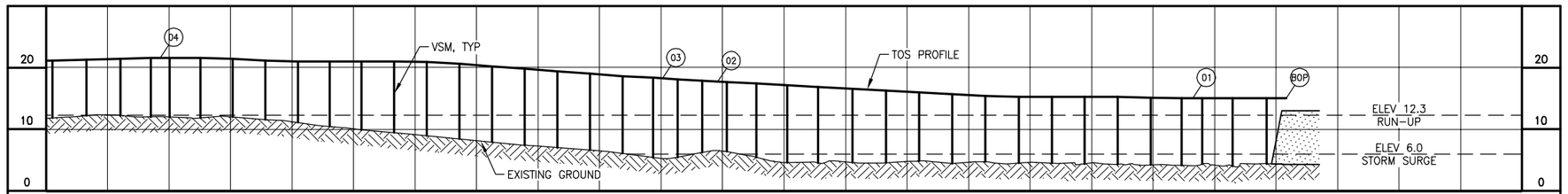
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"–LN–644–0049–ME8EV–3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT–WP–YDDET–060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT–WP–YDDET–060011.
7. FOR WIND–INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT–WP–YDWIV–060001 AND USPT–WP–YDWIV–270001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



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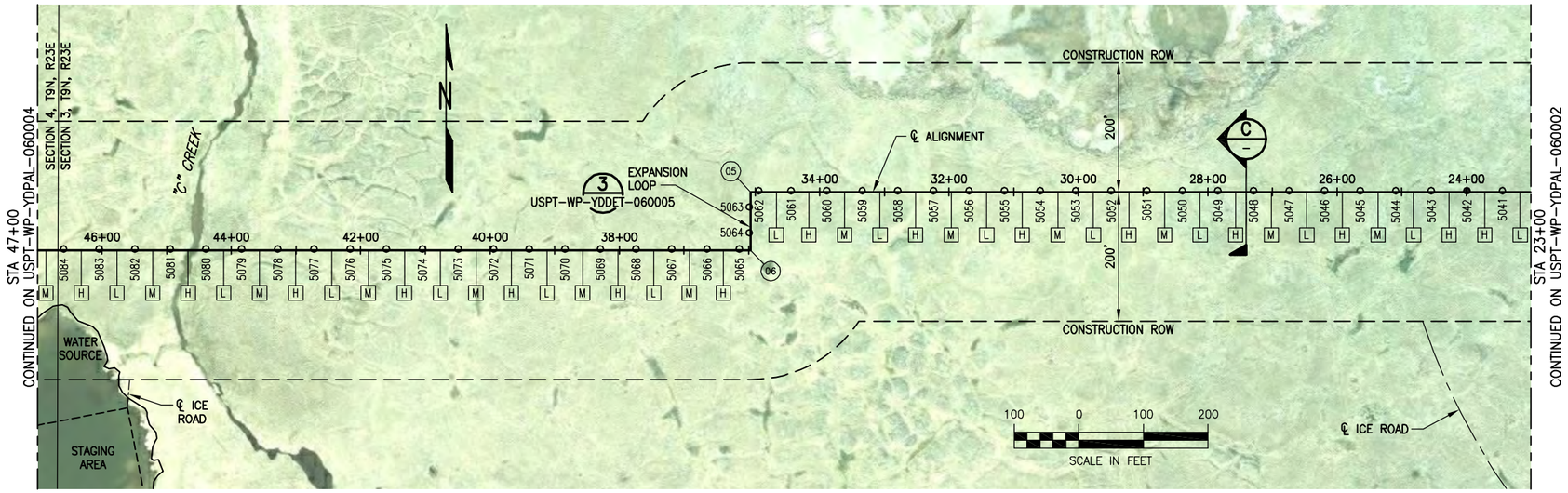


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
23+00 TO 47+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
23+00 TO 47+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

10D

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
05	PI	35+06.76	5910832.16	1605145.43	90.0°
06	PI	35+96.76	5910742.16	1605145.43	90.0°

PIPE SUPPORT IDENTIFICATION

XS–06–704–XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX–XX–XX–XX–XX

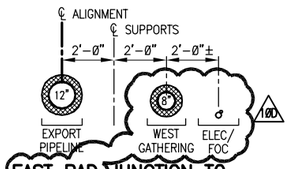
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"–LN–644–0049–ME8EV–3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT–WP–YDDET–060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT–WP–YDDET–060011.
7. FOR WIND–INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT–WP–YDWIV–060001 AND USPT–WP–YDWIV–270001. 10D

LEGEND

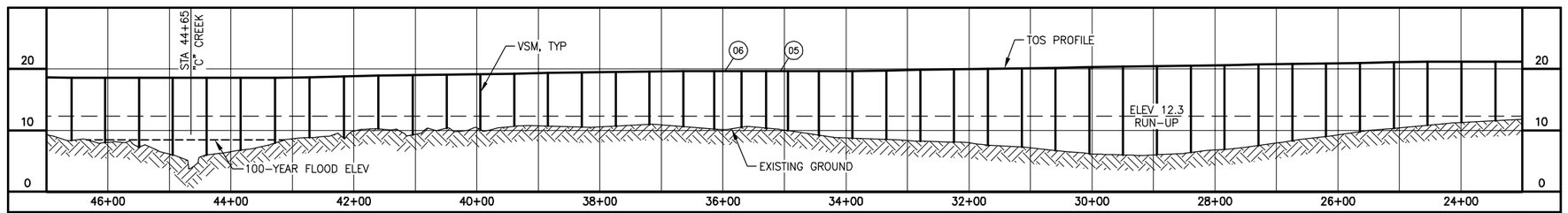
- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



C

EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL

SCALE: 3/8" = 1'–0"



SUPPORT NUMBER	STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	GROUND ELEV (FT)
5084	46+59.26	18.55	XG–08–12–25–15	2.0 RT	8.4
5083	46+04.26	18.55	XG–08–12–25–15	2.0 RT	8.0
5082	45+49.26	18.55	XG–08–12–30–15	2.0 RT	7.4
5081	44+94.26	18.55	XG–08–12–30–15	2.0 RT	6.0
5080	44+39.26	18.55	XG–08–12–30–15	2.0 RT	6.0
5079	43+84.26	18.55	XG–08–12–30–15	2.0 RT	6.8
5078	43+28.26	18.55	XG–08–12–25–15	2.0 RT	7.9
5077	42+72.26	18.64	XG–08–12–25–15	2.0 RT	8.8
5076	42+16.26	18.78	XG–08–12–25–15	2.0 RT	8.7
5075	41+60.26	18.92	XG–08–12–25–15	2.0 RT	10.3
5074	41+04.26	19.00	XG–08–12–25–15	2.0 RT	9.3
5073	40+49.26	19.08	XG–08–12–25–15	2.0 RT	10.4
5072	39+94.26	19.17	XG–08–12–25–15	2.0 RT	10.1
5071	39+39.26	19.25	XG–08–12–25–15	2.0 RT	10.7
5070	38+84.26	19.33	XG–08–12–25–15	2.0 RT	10.7
5069	38+29.26	19.41	XG–08–12–25–15	2.0 RT	10.5
5068	37+74.26	19.50	XG–08–12–25–15	2.0 RT	10.7
5067	37+19.26	19.58	XG–08–12–25–15	2.0 RT	11.0
5066	36+64.26	19.66	XG–08–18–25–15	2.0 RT	10.6
5065	36+14.26	19.66	XS–12–12–25–15	2.0 RT	10.2
5064	35+69.76	19.66	XS–15–12–25–15	2.5 RT	10.5
5063	35+29.76	19.66	XS–15–12–25–15	2.5 RT	10.4
5062	34+94.26	19.66	XS–12–12–25–15	2.0 RT	10.0
5061	34+44.26	19.66	XG–08–18–25–15	2.0 RT	9.2
5060	33+89.26	19.66	XG–08–12–25–15	2.0 RT	8.7
5059	33+34.26	19.75	XG–08–12–30–15	2.0 RT	8.5
5058	32+79.26	19.84	XG–08–12–30–15	2.0 RT	8.2
5057	32+24.26	19.93	XG–08–12–30–15	2.0 RT	8.1
5056	31+69.26	20.01	XG–08–12–30–15	2.0 RT	7.6
5055	31+14.26	20.10	XG–08–12–30–15	2.0 RT	7.3
5054	30+59.26	20.19	XG–08–12–30–15	2.0 RT	6.7
5053	30+04.26	20.28	XG–08–18–30–15	2.0 RT	6.2
5052	29+49.26	20.37	XG–08–18–30–15	2.0 RT	6.0
5051	28+94.26	20.45	XG–08–18–30–15	2.0 RT	6.0
5050	28+39.26	20.54	XG–08–18–30–15	2.0 RT	6.4
5049	27+84.26	20.63	XG–08–12–30–15	2.0 RT	6.9
5048	27+29.26	20.72	XG–08–12–30–15	2.0 RT	7.6
5047	26+74.26	20.81	XG–08–12–30–15	2.0 RT	8.3
5046	26+19.26	20.89	XG–08–12–30–15	2.0 RT	9.0
5045	25+64.26	20.98	XG–08–12–30–15	2.0 RT	9.8
5044	25+09.26	21.07	XG–08–12–25–15	2.0 RT	10.3
5043	24+54.26	21.16	XG–08–12–25–15	2.0 RT	10.8
5042	23+99.26	21.16	XA–08–18–30–20	2.0 RT	11.3
5041	23+44.26	21.16	XG–08–12–25–15	2.0 RT	11.6

REFERENCE DRAWINGS	DESCRIPTION
USPT–WP–YDSYM–060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT–WP–YDPAL–060001	SITE PLAN
USPT–WP–YDDET–060001	TYPICAL EXPANSION LOOP DETAIL
USPT–WP–YDDET–060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT–WP–YDDET–060011	SLIDING SUPPORT DETAILS
USPT–WP–YDWIV–060001	WIND–INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy | FLUOR | Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 23+00 TO STA 47+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT–WP–YDPAL–060003–001 — SHEET 1 of 1 — REV 10D

PT–D–BAKER.DWG (24x36)

FILENAME: USPT–WP–YDPAL–060003–001

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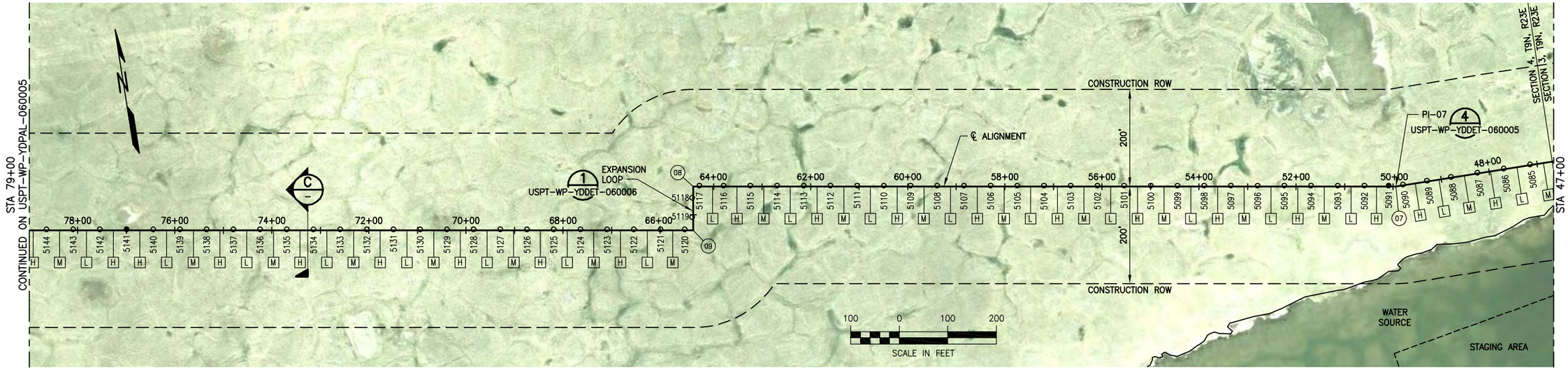


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
47+00 TO 79+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
10D 47+00 TO 79+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
07	PI	49+94.26	5910742.16	1603747.93	9.0°
08	PI	64+41.76	5910968.59	1602318.25	90.0°
09	PI	65+31.76	5910879.70	1602304.18	90.0°

PIPE SUPPORT IDENTIFICATION

VS–06–704–XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX–XX–XX–XX–XX

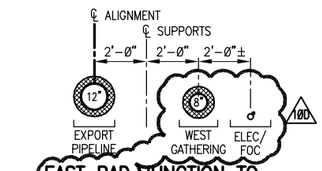
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"–LN–644–0049–ME8EV–3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT–WP–YDDET–060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT–WP–YDDET–060011.
7. FOR WIND–INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT–WP–YDWIV–060001 AND USPT–WP–YDWIV–270001. 10D

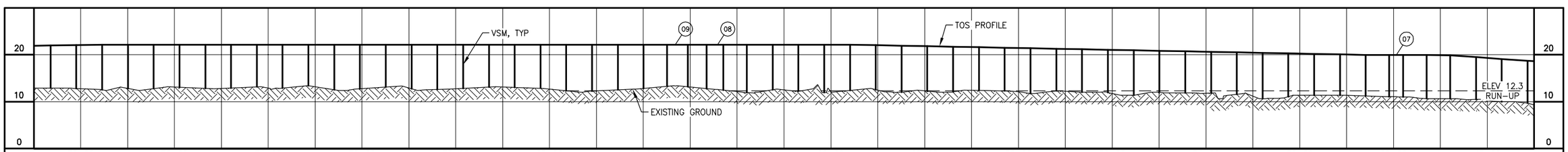
LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- # PI OR VPI LOCATION
- H HIGH FREQUENCY TVA
- L LOW FREQUENCY TVA
- M MEDIUM FREQUENCY TVA



C – EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL

SCALE: 3/8" = 1'–0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
78+00	21.95	XG–08–12–25–15	78+64.26 2.0 RT	5144	12.9
77+00	22.03	XG–08–12–25–15	78+09.26 2.0 RT	5143	12.8
76+00	22.12	XG–08–12–25–15	77+54.26 2.0 RT	5142	12.5
75+00	22.12	XA–08–18–30–20	76+99.26 2.0 RT	5141	12.8
74+00	22.12	XG–08–12–25–15	76+44.26 2.0 RT	5140	12.8
73+00	22.12	XG–08–12–25–15	75+89.26 2.0 RT	5139	13.1
72+00	22.12	XG–08–12–25–15	75+34.26 2.0 RT	5138	12.8
71+00	22.12	XG–08–12–25–15	74+79.26 2.0 RT	5137	12.9
70+00	22.12	XG–08–12–25–15	74+24.26 2.0 RT	5136	13.2
69+00	22.12	XG–08–12–25–15	73+69.26 2.0 RT	5135	12.9
68+00	22.12	XG–08–12–25–15	73+14.26 2.0 RT	5134	13.4
67+00	22.12	XG–08–12–25–15	72+59.26 2.0 RT	5133	12.5
66+00	22.12	XG–08–12–25–15	72+04.26 2.0 RT	5132	12.8
65+00	22.12	XG–08–12–25–15	71+49.26 2.0 RT	5131	13.1
64+00	22.12	XG–08–12–25–15	70+94.26 2.0 RT	5130	12.8
63+00	22.12	XG–08–12–25–15	70+39.26 2.0 RT	5129	12.6
62+00	22.12	XG–08–12–25–15	69+84.26 2.0 RT	5128	12.8
61+00	22.12	XG–08–12–25–15	69+29.26 2.0 RT	5127	13.1
60+00	22.12	XG–08–12–25–15	68+74.26 2.0 RT	5126	13.1
59+00	22.12	XG–08–12–25–15	68+19.26 2.0 RT	5125	12.9
58+00	22.12	XG–08–12–25–15	67+64.26 2.0 RT	5124	12.3
57+00	22.12	XG–08–12–25–15	67+09.26 2.0 RT	5123	12.3
56+00	22.12	XG–08–12–25–15	66+54.26 2.0 RT	5122	12.5
55+00	22.12	XG–08–18–25–15	65+99.26 2.0 RT	5121	12.8
54+00	22.12	XS–12–12–25–15	65+49.26 2.0 RT	5120	13.3
53+00	22.12	XS–15–12–25–15	65+04.76 2.5 RT	5119	13.2
52+00	22.12	XS–15–12–25–15	64+64.76 2.5 RT	5118	12.8
51+00	22.12	XS–12–12–25–15	64+29.26 2.0 RT	5117	12.5
50+00	22.12	XG–08–18–25–15	63+79.26 2.0 RT	5116	12.0
49+00	22.12	XG–08–12–25–15	63+24.26 2.0 RT	5115	12.5
48+00	22.12	XG–08–12–25–15	62+69.26 2.0 RT	5114	12.2
47+00	22.12	XG–08–12–25–15	62+14.26 2.0 RT	5113	12.0
46+00	22.12	XG–08–12–25–15	61+59.26 2.0 RT	5112	12.4
45+00	22.12	XG–08–12–25–15	61+04.26 2.0 RT	5111	12.6
44+00	22.12	XG–08–12–25–15	60+49.26 2.0 RT	5110	12.0
43+00	22.12	XG–08–12–25–15	59+94.26 2.0 RT	5109	12.3
42+00	22.12	XG–08–12–25–15	59+39.26 2.0 RT	5108	12.1
41+00	22.12	XG–08–12–25–15	58+84.26 2.0 RT	5107	12.4
40+00	22.12	XG–08–12–25–15	58+29.26 2.0 RT	5106	12.3
39+00	22.12	XG–08–12–25–15	57+74.26 2.0 RT	5105	11.7
38+00	22.12	XG–08–12–25–15	57+19.26 2.0 RT	5104	12.3
37+00	22.03	XG–08–12–25–15	56+64.26 2.0 RT	5103	12.0
36+00	21.92	XG–08–12–25–15	56+09.26 2.0 RT	5102	12.0
35+00	21.81	XG–08–12–25–15	55+54.26 2.0 RT	5101	11.4
34+00	21.70	XG–08–12–25–15	54+99.26 2.0 RT	5100	12.0
33+00	21.59	XG–08–12–25–15	54+44.26 2.0 RT	5099	11.9
32+00	21.48	XG–08–12–25–15	53+89.26 2.0 RT	5098	11.8
31+00	21.37	XG–08–12–25–15	53+34.26 2.0 RT	5097	11.6
30+00	21.26	XG–08–12–25–15	52+79.26 2.0 RT	5096	10.7
29+00	21.15	XG–08–12–25–15	52+24.26 2.0 RT	5095	11.1
28+00	21.04	XG–08–12–25–15	51+69.26 2.0 RT	5094	11.4
27+00	20.93	XG–08–12–25–15	51+14.26 2.0 RT	5093	11.4
26+00	20.82	XG–08–12–25–15	50+59.26 2.0 RT	5092	11.2
25+00	20.71	XG–08–12–25–15	50+09.26 2.0 RT	5091	11.1
24+00	20.60	XG–08–12–25–15	49+79.26 2.0 RT	5090	11.0
23+00	20.49	XG–08–12–25–15	49+29.26 2.0 RT	5089	10.7
22+00	20.38	XG–08–12–25–15	48+79.26 2.0 RT	5088	10.6
21+00	20.27	XG–08–12–25–15	48+24.26 2.0 RT	5087	10.5
20+00	20.16	XG–08–12–25–15	47+69.26 2.0 RT	5086	10.0
19+00	20.05	XG–08–12–25–15	47+14.26 2.0 RT	5085	9.7
18+00	19.97	XG–08–12–25–15			
17+00	19.97	XA–08–18–30–20			
16+00	19.97	XS–12–12–25–15			
15+00	19.97	XG–08–12–25–15			
14+00	19.85	XG–08–12–25–15			
13+00	19.49	XG–08–12–25–15			
12+00	19.05	XG–08–12–25–15			
11+00	18.69	XG–08–12–25–15			

REFERENCE DRAWINGS	DESCRIPTION
USPT–WP–YDSYM–060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT–WP–YDPAL–060001	SITE PLAN
USPT–WP–YDDET–060001	TYPICAL EXPANSION LOOP DETAIL
USPT–WP–YDDET–060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT–WP–YDDET–060011	SLIDING SUPPORT DETAILS
USPT–WP–YDWIV–060001	WIND–INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 47+00 TO STA 79+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT–WP–YDPAL–060004–001 SHEET 1 of 1 REV 10D

PT–D–BAKER.DWG (24x36)

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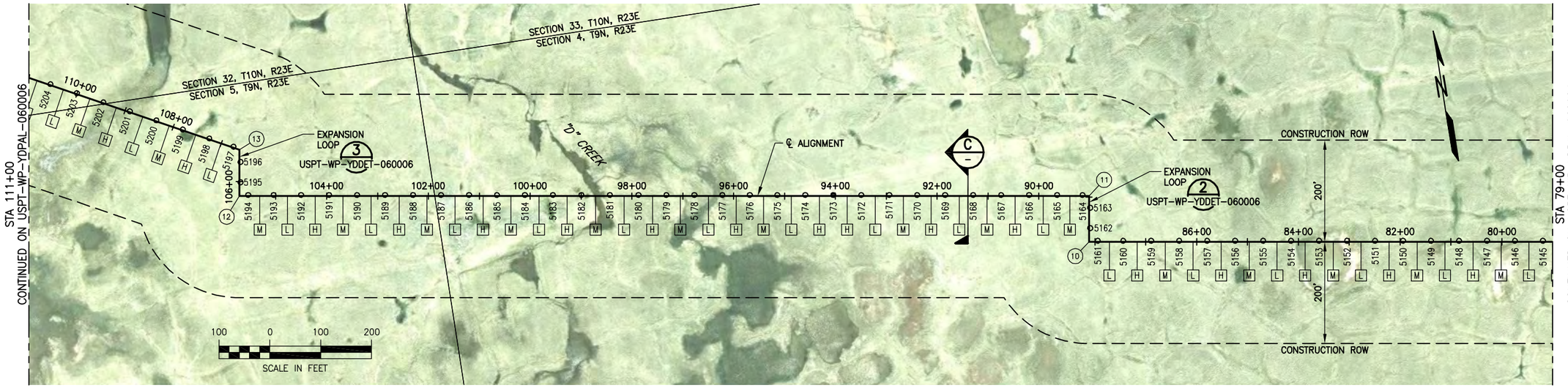


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
79+00 TO 111+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
10D 79+00 TO 111+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
10	PI	88+11.76	5911236.37	1600052.25	90.0°
11	PI	89+01.76	5911325.27	1600066.33	90.0°
12	PI	105+71.76	5911586.51	1598416.89	90.0°
13	PI	106+62.50	5911676.14	1598431.08	71.11°

PIPE SUPPORT IDENTIFICATION

VS–06–704–XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX–XX–XX–XX–XX

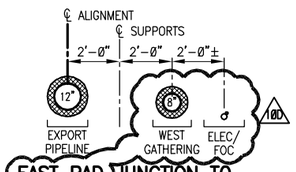
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"–LN–644–0049–ME8EV–3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT–WP–YDDET–060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT–WP–YDDET–060011.
7. FOR WIND–INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT–WP–YDWIV–060001 AND USPT–WP–YDWIV–270001. 10D

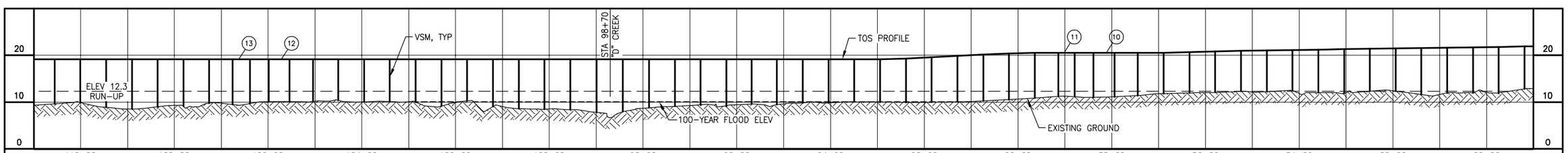
LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL

C – SCALE: 3/8" = 1'–0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5204	110+55.54 2.0 RT	XG–08–12–25–15	19.17	9.6
5203	110+00.54 2.0 RT	XG–08–12–25–15	19.17	9.9
5202	109+45.54 2.0 RT	XG–08–12–25–15	19.17	8.9
5201	108+90.54 2.0 RT	XG–08–12–25–15	19.17	8.5
5200	108+35.54 2.0 RT	XG–08–12–25–15	19.17	9.0
5199	107+80.54 2.0 RT	XG–08–12–25–15	19.17	9.1
5198	107+25.54 2.0 RT	XG–08–18–25–15	19.17	9.8
5197	106+75.54 2.0 RT	XS–12–12–25–15	19.17	9.5
5196	106+38.76 2.5 RT	XS–15–12–25–15	19.17	9.7
5195	105+98.76 2.5 RT	XS–15–12–25–15	19.17	10.1
5194	105+54.26 2.0 RT	XS–12–12–25–15	19.17	10.1
5193	105+04.26 2.0 RT	XG–08–18–25–15	19.17	10.1
5192	104+50.26 2.0 RT	XG–08–12–25–15	19.17	10.4
5191	103+95.26 2.0 RT	XG–08–12–25–15	19.17	10.0
5190	103+40.26 2.0 RT	XG–08–12–25–15	19.17	10.1
5189	102+85.26 2.0 RT	XG–08–12–25–15	19.17	10.0
5188	102+30.26 2.0 RT	XG–08–12–25–15	19.17	9.2
5187	101+75.26 2.0 RT	XG–08–12–25–15	19.17	10.3
5186	101+20.26 2.0 RT	XG–08–12–25–15	19.17	9.0
5185	100+65.26 2.0 RT	XG–08–12–25–15	19.17	8.6
5184	100+10.26 2.0 RT	XG–08–12–25–15	19.17	8.5
5183	99+55.26 2.0 RT	XG–08–12–25–15	19.17	8.4
5182	98+99.26 2.0 RT	XG–08–12–30–15	19.17	7.8
5181	98+43.26 2.0 RT	XG–08–12–30–15	19.17	7.9
5180	97+87.26 2.0 RT	XG–08–12–25–15	19.17	8.8
5179	97+32.26 2.0 RT	XG–08–12–25–15	19.17	9.1
5178	96+77.26 2.0 RT	XG–08–12–25–15	19.17	9.4
5177	96+22.26 2.0 RT	XG–08–12–25–15	19.17	9.1
5176	95+68.26 2.0 RT	XG–08–12–25–15	19.17	9.6
5175	95+14.26 2.0 RT	XG–08–12–25–15	19.17	9.5
5174	94+59.26 2.0 RT	XG–08–12–25–15	19.17	9.9
5173	94+04.26 2.0 RT	XA–08–18–30–20	19.17	9.8
5172	93+49.26 2.0 RT	XG–08–12–25–15	19.17	10.0
5171	92+94.26 2.0 RT	XG–08–12–25–15	19.17	10.0
5170	92+39.26 2.0 RT	XG–08–12–25–15	19.31	9.9
5169	91+84.26 2.0 RT	XG–08–12–25–15	19.59	10.0
5168	91+29.26 2.0 RT	XG–08–12–25–15	19.86	10.0
5167	90+74.26 2.0 RT	XG–08–12–25–15	20.14	10.3
5166	90+19.26 2.0 RT	XG–08–12–25–15	20.41	10.5
5165	89+64.26 2.0 RT	XG–08–18–25–15	20.55	10.9
5164	89+14.26 2.0 RT	XS–12–12–25–15	20.55	11.2
5163	88+78.76 2.5 RT	XS–15–12–25–15	20.55	11.1
5162	88+38.76 2.5 RT	XS–15–12–25–15	20.55	11.0
5161	87+94.26 2.0 RT	XS–12–12–25–15	20.55	11.1
5160	87+44.26 2.0 RT	XG–08–18–25–15	20.55	11.4
5159	86+89.26 2.0 RT	XG–08–12–25–15	20.55	11.8
5158	86+34.26 2.0 RT	XG–08–12–25–15	20.63	12.0
5157	85+79.26 2.0 RT	XG–08–12–25–15	20.80	12.1
5156	85+24.26 2.0 RT	XG–08–12–25–15	20.96	12.3
5155	84+69.26 2.0 RT	XG–08–12–25–15	21.04	12.3
5154	84+14.26 2.0 RT	XG–08–12–25–15	21.13	12.5
5153	83+59.26 2.0 RT	XG–08–12–25–15	21.21	12.0
5152	83+04.26 2.0 RT	XG–08–12–25–15	21.29	11.9
5151	82+49.26 2.0 RT	XG–08–12–25–15	21.37	12.3
5150	81+94.26 2.0 RT	XG–08–12–25–15	21.46	12.4
5149	81+39.26 2.0 RT	XG–08–12–25–15	21.54	11.6
5148	80+84.26 2.0 RT	XG–08–12–25–15	21.62	12.0
5147	80+29.26 2.0 RT	XG–08–12–25–15	21.70	12.0
5146	79+74.26 2.0 RT	XG–08–12–25–15	21.79	12.0
5145	79+19.26 2.0 RT	XG–08–12–25–15	21.87	12.8

REFERENCE DRAWINGS	DESCRIPTION
USPT–WP–YDSYM–060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT–WP–YDPAL–060001	SITE PLAN
USPT–WP–YDDET–060001	TYPICAL EXPANSION LOOP DETAIL
USPT–WP–YDDET–060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT–WP–YDDET–060011	SLIDING SUPPORT DETAILS
USPT–WP–YDWIV–060001	WIND–INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 79+00 TO STA 111+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT–WP–YDPAL–060005–001 SHEET 1 of 1 REV 10D

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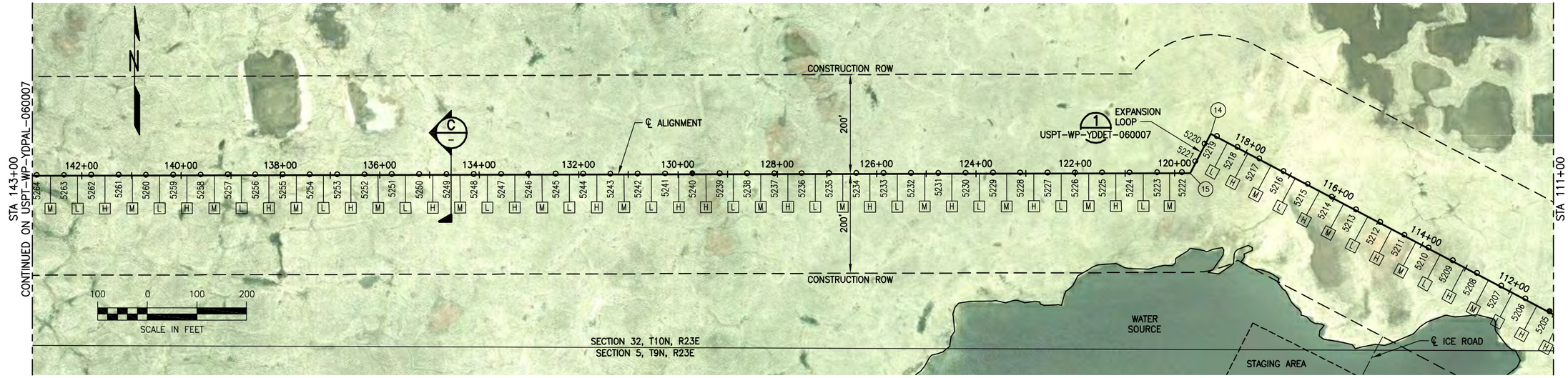


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
111+00 TO 143+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
111+00 TO 143+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT (#)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
14	PI	118+79.76	5912245.48	1597355.19	90.0°
15	PI	119+68.70	5912166.87	1597313.59	62.11°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

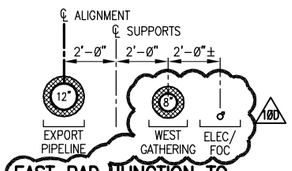
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

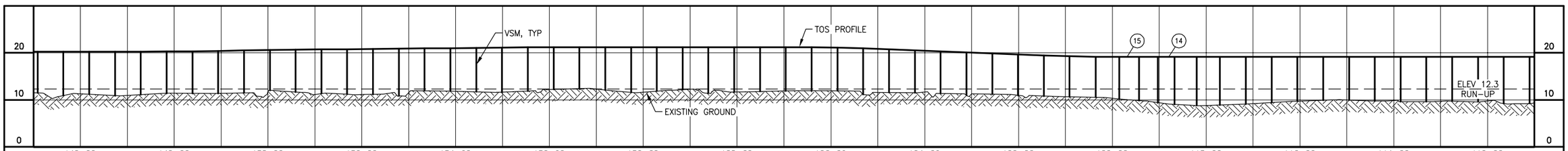
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001 AND USPT-WP-YDWIV-270001. 10D

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



EAST PAD JUNCTION TO WEST PAD JUNCTION
TYPICAL PIPELINE SPACING DETAIL
C
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
142+91.07	20.22	XG-08-12-25-15	2.0 RT	5264	11.5
142+36.07	20.22	XG-08-12-25-15	2.0 RT	5263	10.9
141+81.07	20.22	XG-08-12-25-15	2.0 RT	5262	11.2
141+26.07	20.22	XG-08-12-25-15	2.0 RT	5261	10.9
140+71.07	20.22	XG-08-12-25-15	2.0 RT	5260	11.1
140+16.07	20.28	XG-08-12-25-15	2.0 RT	5259	11.4
139+61.07	20.33	XG-08-12-25-15	2.0 RT	5258	11.4
139+06.07	20.39	XG-08-12-25-15	2.0 RT	5257	11.4
138+51.07	20.50	XG-08-12-25-15	2.0 RT	5256	11.5
137+96.07	20.61	XG-08-12-25-15	2.0 RT	5255	12.0
137+41.07	20.66	XG-08-12-25-15	2.0 RT	5254	11.7
136+86.07	20.72	XG-08-12-25-15	2.0 RT	5253	11.4
136+31.07	20.77	XG-08-12-25-15	2.0 RT	5252	11.2
135+76.07	20.83	XG-08-12-25-15	2.0 RT	5251	11.2
135+21.07	20.88	XG-08-12-25-15	2.0 RT	5250	10.8
134+66.07	20.94	XG-08-12-25-15	2.0 RT	5249	12.0
134+11.07	20.99	XG-08-12-25-15	2.0 RT	5248	11.9
133+56.07	21.05	XG-08-12-25-15	2.0 RT	5247	11.7
133+01.07	21.10	XG-08-12-25-15	2.0 RT	5246	11.7
132+46.07	21.16	XG-08-12-25-15	2.0 RT	5245	11.9
131+91.07	21.16	XG-08-12-25-15	2.0 RT	5244	12.2
131+36.07	21.16	XG-08-12-25-15	2.0 RT	5243	12.4
130+81.07	21.16	XG-08-12-25-15	2.0 RT	5242	12.1
130+26.07	21.16	XG-08-12-25-15	2.0 RT	5241	11.6
129+71.07	21.16	XA-08-18-30-20	2.0 RT	5240	11.9
129+16.07	21.16	XG-08-12-25-15	2.0 RT	5239	12.2
128+61.07	21.16	XG-08-12-25-15	2.0 RT	5238	11.4
128+06.07	21.16	XG-08-12-25-15	2.0 RT	5237	11.7
127+51.07	21.16	XG-08-12-25-15	2.0 RT	5236	11.8
126+96.07	21.16	XG-08-12-25-15	2.0 RT	5235	11.9
126+41.07	21.16	XG-08-12-25-15	2.0 RT	5234	12.0
125+86.07	21.10	XG-08-12-25-15	2.0 RT	5233	11.9
125+31.07	20.96	XG-08-12-25-15	2.0 RT	5232	11.1
124+76.07	20.74	XG-08-12-25-15	2.0 RT	5231	11.6
124+21.07	20.52	XG-08-12-25-15	2.0 RT	5230	11.5
123+66.07	20.30	XG-08-12-25-15	2.0 RT	5229	11.4
123+11.07	20.08	XG-08-12-25-15	2.0 RT	5228	11.0
122+56.07	19.86	XG-08-12-25-15	2.0 RT	5227	11.2
122+01.07	19.64	XG-08-12-25-15	2.0 RT	5226	11.0
121+46.07	19.42	XG-08-12-25-15	2.0 RT	5225	10.8
120+91.07	19.26	XG-08-12-25-15	2.0 RT	5224	10.7
120+35.47	19.17	XG-08-18-25-15	2.0 RT	5223	10.5
119+85.47	19.17	XS-12-12-25-15	2.0 RT	5222	10.2
119+42.76	19.17	XS-15-12-25-15	2.5 RT	5221	9.9
119+02.76	19.17	XS-15-12-25-15	2.5 RT	5220	9.4
118+67.26	19.17	XS-12-12-25-15	2.0 RT	5219	9.0
118+20.54	19.17	XG-08-18-25-15	2.0 RT	5218	8.8
117+70.54	19.17	XG-08-12-25-15	2.0 RT	5217	8.9
117+15.54	19.17	XG-08-12-25-15	2.0 RT	5216	9.1
116+60.54	19.17	XG-08-12-25-15	2.0 RT	5215	9.4
116+05.54	19.17	XG-08-12-25-15	2.0 RT	5214	9.7
115+50.54	19.17	XG-08-12-25-15	2.0 RT	5213	9.9
114+95.54	19.17	XG-08-12-25-15	2.0 RT	5212	10.0
114+40.54	19.17	XG-08-12-25-15	2.0 RT	5211	9.8
113+85.54	19.17	XG-08-12-25-15	2.0 RT	5210	9.6
113+30.54	19.17	XG-08-12-25-15	2.0 RT	5209	9.6
112+75.54	19.17	XG-08-12-25-15	2.0 RT	5208	9.7
112+20.54	19.17	XG-08-12-25-15	2.0 RT	5207	9.6
111+65.54	19.17	XG-08-12-25-15	2.0 RT	5206	9.2
111+10.54	19.17	XA-08-18-30-20	2.0 RT	5205	9.3

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 111+00 TO STA 143+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060006-001 — SHEET 1 of 1 — REV 10D

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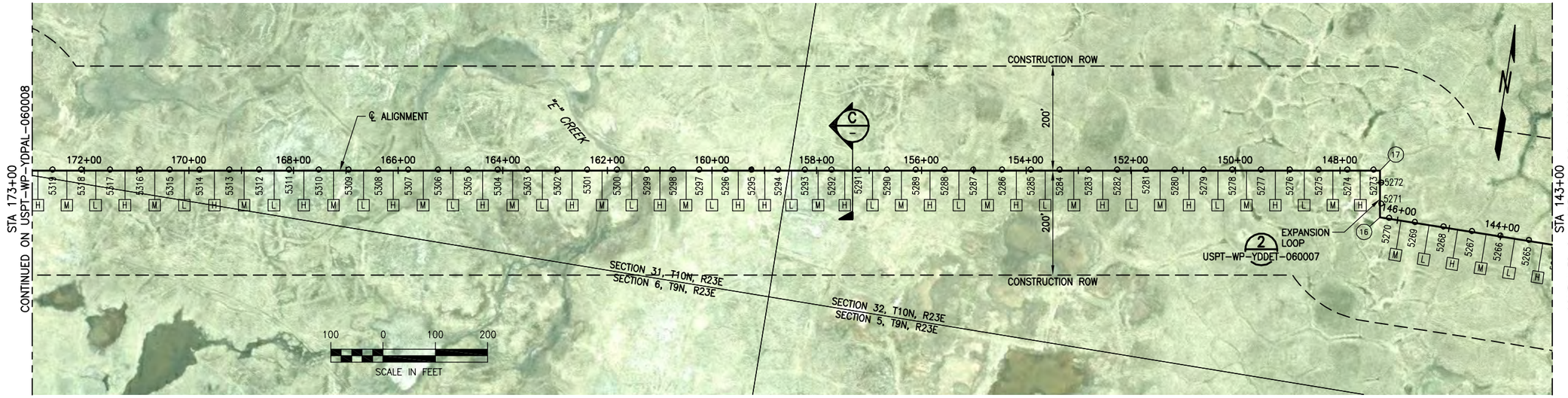


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
143+00 TO 173+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
143+00 TO 173+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
16	PI	146+33.88	5912166.87	1594648.40	81.0°
17	PI	147+23.51	5912255.40	1594634.38	90.0°

PIPE SUPPORT IDENTIFICATION

XS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

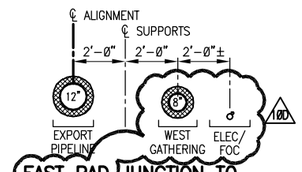
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001 AND USPT-WP-YDWIV-270001. 100

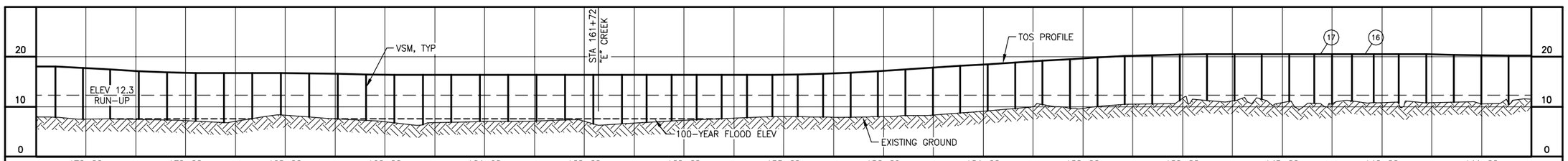
LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



C – EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5319	172+61.01 2.0 RT	XG-08-18-25-15	18.03	7.9
5318	172+06.01 2.0 RT	XG-08-12-25-15	17.79	7.5
5317	171+51.01 2.0 RT	XG-08-12-25-15	17.46	7.6
5316	170+94.01 2.0 RT	XG-08-12-25-15	17.11	7.5
5315	170+37.01 2.0 RT	XG-08-12-25-15	16.86	7.4
5314	169+80.01 2.0 RT	XG-08-12-25-15	16.77	7.1
5313	169+23.01 2.0 RT	XG-08-12-25-15	16.77	6.9
5312	168+66.01 2.0 RT	XG-08-12-25-15	16.77	7.6
5311	168+09.01 2.0 RT	XG-08-12-25-15	16.77	8.4
5310	167+52.01 2.0 RT	XG-08-12-25-15	16.70	7.9
5309	166+95.01 2.0 RT	XG-08-12-25-15	16.59	7.6
5308	166+38.01 2.0 RT	XG-08-12-25-15	16.47	7.3
5307	165+81.01 2.0 RT	XG-08-12-25-15	16.41	6.8
5306	165+24.01 2.0 RT	XG-08-12-25-15	16.41	6.5
5305	164+67.01 2.0 RT	XG-08-12-25-15	16.41	6.9
5304	164+10.01 2.0 RT	XG-08-12-25-15	16.41	7.1
5303	163+53.01 2.0 RT	XG-08-12-25-15	16.41	7.1
5302	162+96.01 2.0 RT	XG-08-12-25-15	16.41	7.2
5301	162+39.01 2.0 RT	XG-08-12-25-15	16.41	7.4
5300	161+82.01 2.0 RT	XG-08-12-30-18	16.41	6.6
5299	161+25.01 2.0 RT	XG-08-12-25-15	16.41	6.6
5298	160+75.01 2.0 RT	XG-08-12-25-15	16.41	6.9
5297	160+25.01 2.0 RT	XG-08-12-25-15	16.41	7.2
5296	159+75.01 2.0 RT	XG-08-12-25-15	16.41	7.4
5295	159+25.01 2.0 RT	XA-08-18-30-20	16.41	7.6
5294	158+74.01 2.0 RT	XG-08-12-25-15	16.41	7.8
5293	158+23.01 2.0 RT	XG-08-12-25-15	16.41	8.0
5292	157+72.01 2.0 RT	XG-08-12-25-15	16.46	8.0
5291	157+21.01 2.0 RT	XG-08-12-25-15	16.58	7.9
5290	156+66.01 2.0 RT	XG-08-12-25-15	16.80	7.9
5289	156+11.01 2.0 RT	XG-08-12-25-15	17.15	8.0
5288	155+56.01 2.0 RT	XG-08-12-25-15	17.49	8.2
5287	155+01.01 2.0 RT	XG-08-12-25-15	17.83	8.3
5286	154+46.01 2.0 RT	XG-08-12-25-15	18.17	8.8
5285	153+91.01 2.0 RT	XG-08-12-25-15	18.51	9.2
5284	153+36.01 2.0 RT	XG-08-12-25-15	18.85	9.7
5283	152+81.01 2.0 RT	XG-08-12-25-15	19.19	10.4
5282	152+26.01 2.0 RT	XG-08-12-25-15	19.53	9.7
5281	151+71.01 2.0 RT	XG-08-12-25-15	19.87	10.0
5280	151+16.01 2.0 RT	XG-08-12-25-15	20.14	10.5
5279	150+61.01 2.0 RT	XG-08-12-25-15	20.33	10.6
5278	150+06.01 2.0 RT	XG-08-12-25-15	20.45	11.2
5277	149+51.01 2.0 RT	XG-08-12-25-15	20.51	11.3
5276	148+96.01 2.0 RT	XG-08-12-25-15	20.51	11.2
5275	148+41.01 2.0 RT	XG-08-12-25-15	20.51	11.5
5274	147+86.01 2.0 RT	XG-08-18-25-15	20.51	11.1
5273	147+36.01 2.0 RT	XS-12-12-25-15	20.51	10.7
5272	147+00.51 2.5 RT	XS-15-12-25-15	20.51	10.6
5271	146+60.51 2.5 RT	XS-15-12-25-15	20.51	11.2
5270	146+16.67 2.0 RT	XS-12-12-25-15	20.51	10.9
5269	145+66.67 2.0 RT	XG-08-18-25-15	20.51	10.7
5268	145+11.07 2.0 RT	XG-08-12-25-15	20.51	10.8
5267	144+56.07 2.0 RT	XG-08-12-25-15	20.41	10.9
5266	144+01.07 2.0 RT	XG-08-12-25-15	20.32	10.6
5265	143+46.07 2.0 RT	XG-08-12-25-15	20.22	10.5

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 143+00 TO STA 173+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060007-001 SHEET 1 of 1 REV 10D

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060007-001

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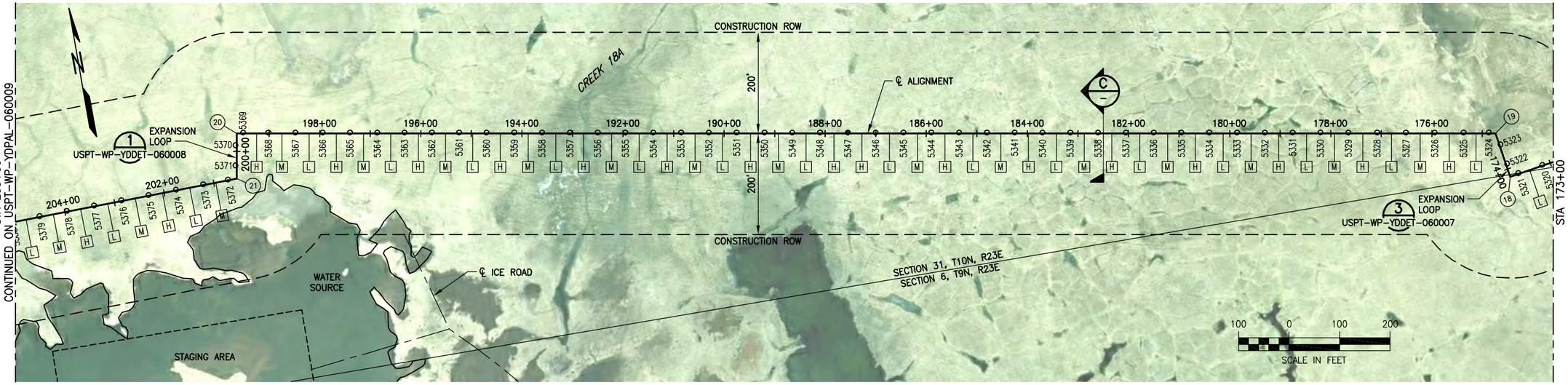


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
173+00 TO 205+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
173+00 TO 205+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

10D

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
18	PI	173+83.51	5911839.28	1592007.13	90.0°
19	PI	174+74.25	5911928.91	1591992.93	71.0°
20	PI	199+64.22	5912361.29	1589540.79	90.0°
21	PI	200+53.78	5912273.10	1589525.24	79.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

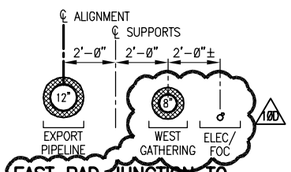
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

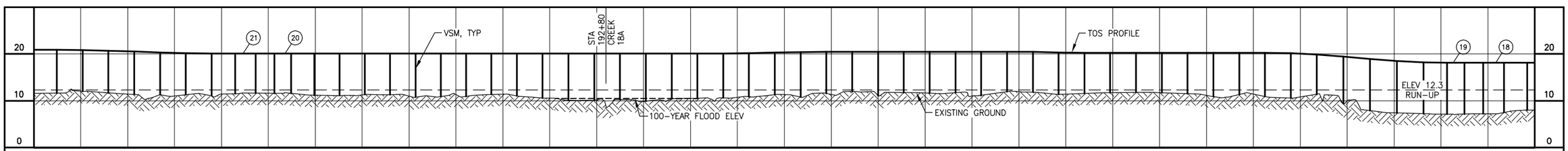
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001 AND USPT-WP-YDWIV-270001. 10D

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



C – EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
204+50.93	20.90	XG-08-12-25-15	2.0 RT	5379	11.6
203+95.93	20.82	XG-08-12-25-15	2.0 RT	5378	12.0
203+40.93	20.68	XG-08-12-25-15	2.0 RT	5377	11.7
202+85.93	20.49	XG-08-12-25-15	2.0 RT	5376	11.4
202+30.93	20.30	XG-08-12-25-15	2.0 RT	5375	11.3
201+75.93	20.16	XG-08-12-25-15	2.0 RT	5374	11.3
201+20.93	20.08	XG-08-18-25-15	2.0 RT	5373	11.1
200+70.93	20.08	XS-12-12-25-15	2.0 RT	5372	11.5
200+27.22	20.08	XS-15-12-25-15	2.5 RT	5371	11.7
199+87.22	20.08	XS-15-12-25-15	2.5 RT	5370	11.6
199+51.72	20.08	XS-12-12-25-15	2.0 RT	5369	11.6
199+01.72	20.08	XG-08-18-25-15	2.0 RT	5368	11.2
198+48.30	20.08	XG-08-12-25-15	2.0 RT	5367	11.1
197+94.30	20.08	XG-08-12-25-15	2.0 RT	5366	11.3
197+40.30	20.08	XG-08-12-25-15	2.0 RT	5365	11.3
196+86.30	20.08	XG-08-12-25-15	2.0 RT	5364	10.8
196+32.30	20.08	XG-08-12-25-15	2.0 RT	5363	10.9
195+78.30	20.08	XG-08-12-25-15	2.0 RT	5362	10.9
195+24.30	20.08	XG-08-12-25-15	2.0 RT	5361	11.4
194+70.30	20.08	XG-08-12-25-15	2.0 RT	5360	11.1
194+15.30	20.08	XG-08-12-25-15	2.0 RT	5359	10.6
193+60.30	20.08	XG-08-12-25-15	2.0 RT	5358	10.1
193+05.30	20.08	XG-08-12-25-15	2.0 RT	5357	10.2
192+50.30	20.08	XG-08-12-25-15	2.0 RT	5356	10.3
191+95.30	20.08	XG-08-12-25-15	2.0 RT	5355	9.9
191+40.30	20.08	XG-08-12-25-15	2.0 RT	5354	10.4
190+85.30	20.08	XG-08-12-25-15	2.0 RT	5353	10.5
190+30.30	20.08	XG-08-12-25-15	2.0 RT	5352	10.6
189+75.30	20.16	XG-08-12-25-15	2.0 RT	5351	10.9
189+20.30	20.28	XG-08-12-25-15	2.0 RT	5350	11.3
188+65.30	20.40	XG-08-12-25-15	2.0 RT	5349	10.8
188+10.30	20.49	XG-08-12-25-15	2.0 RT	5348	11.6
187+55.30	20.49	XA-08-18-30-20	2.0 RT	5347	12.0
187+00.30	20.49	XG-08-12-25-15	2.0 RT	5346	11.0
186+45.30	20.49	XG-08-12-25-15	2.0 RT	5345	11.7
185+90.30	20.49	XG-08-12-25-15	2.0 RT	5344	11.6
185+35.30	20.49	XG-08-12-25-15	2.0 RT	5343	11.8
184+80.30	20.49	XG-08-12-25-15	2.0 RT	5342	11.2
184+25.30	20.49	XG-08-12-25-15	2.0 RT	5341	11.9
183+70.30	20.42	XG-08-12-25-15	2.0 RT	5340	11.9
183+15.30	20.32	XG-08-12-25-15	2.0 RT	5339	11.4
182+60.30	20.25	XG-08-12-25-15	2.0 RT	5338	11.6
182+05.30	20.25	XG-08-12-25-15	2.0 RT	5337	11.8
181+50.30	20.25	XG-08-12-25-15	2.0 RT	5336	11.8
180+95.30	20.25	XG-08-12-25-15	2.0 RT	5335	11.7
180+40.30	20.25	XG-08-12-25-15	2.0 RT	5334	11.5
179+85.30	20.25	XG-08-12-25-15	2.0 RT	5333	10.9
179+30.30	20.25	XG-08-12-25-15	2.0 RT	5332	11.3
178+75.30	20.25	XG-08-12-25-15	2.0 RT	5331	10.9
178+20.30	20.17	XG-08-12-25-15	2.0 RT	5330	10.6
177+65.30	19.90	XG-08-12-25-15	2.0 RT	5329	11.4
177+08.30	19.47	XG-08-12-25-15	2.0 RT	5328	9.4
176+51.30	18.96	XG-08-12-30-15	2.0 RT	5327	7.9
175+94.30	18.50	XG-08-18-30-15	2.0 RT	5326	7.4
175+37.30	18.22	XG-08-18-25-15	2.0 RT	5325	7.3
174+87.30	18.12	XS-12-12-25-15	2.0 RT	5324	7.1
174+50.51	18.12	XS-15-12-25-15	2.5 RT	5323	7.2
174+10.51	18.12	XS-15-12-25-15	2.5 RT	5322	7.2
173+66.01	18.12	XS-12-12-25-15	2.0 RT	5321	7.5
173+16.01	18.12	XG-08-18-25-15	2.0 RT	5320	8.0

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 173+00 TO STA 205+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060008-001 — SHEET 1 of 1 — REV 10D

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060008-001

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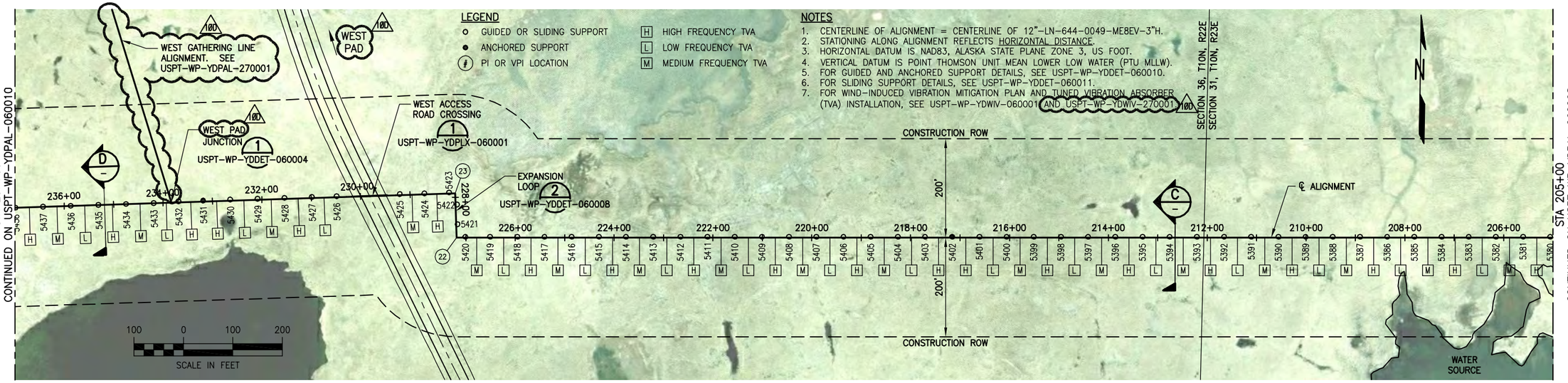


LEGEND

- GUIDED OR SLIDING SUPPORT
- ANCHORED SUPPORT
- PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001 AND USPT-WP-YDWIV-270001. 10D

PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
205+00 TO 237+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
10D 205+00 TO 237+00	8.625" DIA DNV SMLS 450 L – UNS N08825	0.812 0.118	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT (#)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
22	PI	227+18.37	5912226.60	1586861.05	88.13°
23	PI	228+08.29	5912316.40	1586856.56	90.0°
23A	VPI	229+28.79	5912310.37	1586736.21	45.0°
23B	VPI	229+35.12	5912310.06	1586729.89	45.0°
23C	VPI	230+28.58	5912305.38	1586636.54	45.0°
23D	VPI	230+40.74	5912304.77	1586624.40	45.0°

PIPE SUPPORT IDENTIFICATION

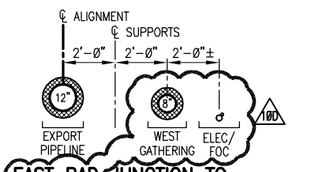
VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

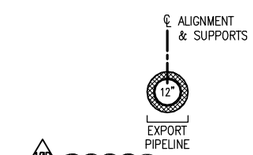
XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)



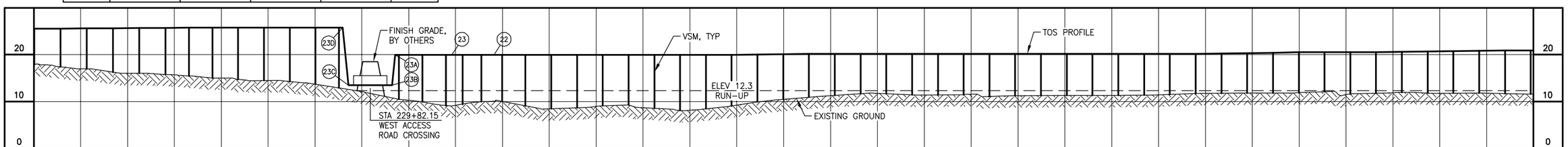
C — EAST PAD JUNCTION TO WEST PAD JUNCTION TYPICAL PIPELINE SPACING DETAIL

SCALE: 3/8" = 1'-0"



10D D — WEST PAD JUNCTION TO BADAMI TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



	236+00	234+00	232+00	230+00	228+00	226+00	224+00	222+00	220+00	218+00	216+00	214+00	212+00	210+00	208+00	206+00
TOS ELEV (FT)	25.51 25.55 25.59 25.63 25.67 25.71 25.74 25.74 25.74 25.74 25.74 25.74 25.74	19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91 19.91	19.91 19.97 20.02 20.08 20.13 20.19 20.19 20.19 20.19 20.19 20.19 20.19 20.19	20.19 20.19 20.19 20.19 20.19 20.19 20.19 20.24 20.33 20.41 20.49 20.55 20.55	20.55 20.60 20.68 20.77 20.85 20.90 20.90											
SUPPORT TYPE	XG-2.5-08-25-15 XG-2.5-08-25-15 XG-2.5-08-25-15 XG-2.5-08-25-15 XG-2.5-08-25-15 XG-2.5-08-25-15 XS-12-12-25-15 XA-08-18-35-20 XG-08-12-30-15 XG-08-12-30-15 XG-08-12-30-15 XG-08-12-30-15 XG-08-12-30-15	XG-08-12-25-15 XG-08-18-25-15 XS-12-12-25-15 XS-15-12-25-15 XS-15-12-25-15 XS-12-12-25-15 XG-08-18-25-15 XG-08-12-30-15 XG-08-12-30-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-30-15	XG-08-12-30-15 XG-08-12-30-15 XG-08-12-30-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15	XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15	XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15	XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15 XG-08-12-25-15											
STATION & OFFSET (FT)	236+98.74 0.0 236+42.74 0.0 235+86.74 0.0 235+30.74 0.0 234+74.74 0.0 234+18.74 0.0 233+68.74 2.0 RT 233+18.74 2.0 RT 232+63.74 2.0 RT 232+08.74 2.0 RT 231+53.74 2.0 RT 230+98.74 2.0 RT 230+48.74 2.0 RT	229+20.79 2.0 RT 228+70.79 2.0 RT 228+20.79 2.0 RT 227+85.29 2.5 RT 227+45.29 2.5 RT 227+00.93 2.0 RT 226+50.93 2.0 RT 225+95.93 2.0 RT 225+40.93 2.0 RT 224+85.93 2.0 RT 224+30.93 2.0 RT 223+75.93 2.0 RT	223+20.93 2.0 RT 222+65.93 2.0 RT 222+10.93 2.0 RT 221+55.93 2.0 RT 221+00.93 2.0 RT 220+45.93 2.0 RT 219+90.93 2.0 RT 219+35.93 2.0 RT 218+80.93 2.0 RT 218+25.93 2.0 RT 217+70.93 2.0 RT 217+15.93 2.0 RT	216+60.93 2.0 RT 216+05.93 2.0 RT 215+50.93 2.0 RT 214+95.93 2.0 RT 214+40.93 2.0 RT 213+85.93 2.0 RT 213+30.93 2.0 RT 212+75.93 2.0 RT 212+20.93 2.0 RT 211+65.93 2.0 RT 211+10.93 2.0 RT 210+55.93 2.0 RT	210+00.93 2.0 RT 209+45.93 2.0 RT 208+90.93 2.0 RT 208+35.93 2.0 RT 207+80.93 2.0 RT 207+25.93 2.0 RT 206+70.93 2.0 RT 206+15.93 2.0 RT 205+60.93 2.0 RT 205+05.93 2.0 RT											
SUPPORT NUMBER	5438 5437 5436 5435 5434 5433 5432 5431 5430 5429 5428 5427 5426	5425 5424 5423 5422 5421 5420 5419 5418 5417 5416 5415 5414 5413	5412 5411 5410 5409 5408 5407 5406 5405 5404 5403 5402 5401 5400	5399 5398 5397 5396 5395 5394 5393 5392 5391 5390 5389 5388 5387	5386 5385 5384 5383 5382 5381 5380											
GROUND ELEV (FT)	18.0 17.4 17.0 16.3 16.0 15.8 15.4 15.0 14.7 14.5 14.3 13.7 12.9	10.5 9.9 9.1 9.4 10.0 10.0 9.1 8.5 8.7 9.1 9.3 8.6 8.1	8.5 9.1 9.9 10.5 10.9 11.3 11.7 11.7 11.4 11.4 11.5 11.1 11.3	11.3 11.3 11.3 11.3 11.3 11.3 11.5 11.7 11.8 11.8 11.8 11.9 12.1	11.6 11.8 11.9 11.8 11.8 11.8 11.7 11.6											

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDPLX-060001	ROAD CROSSING PLAN AND SECTION WEST PAD ACCESS ROAD
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 205+00 TO STA 237+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060009-001 — SHEET 1 of 1 — REV 10D

PT-D-BAKER.DWG (24x36)

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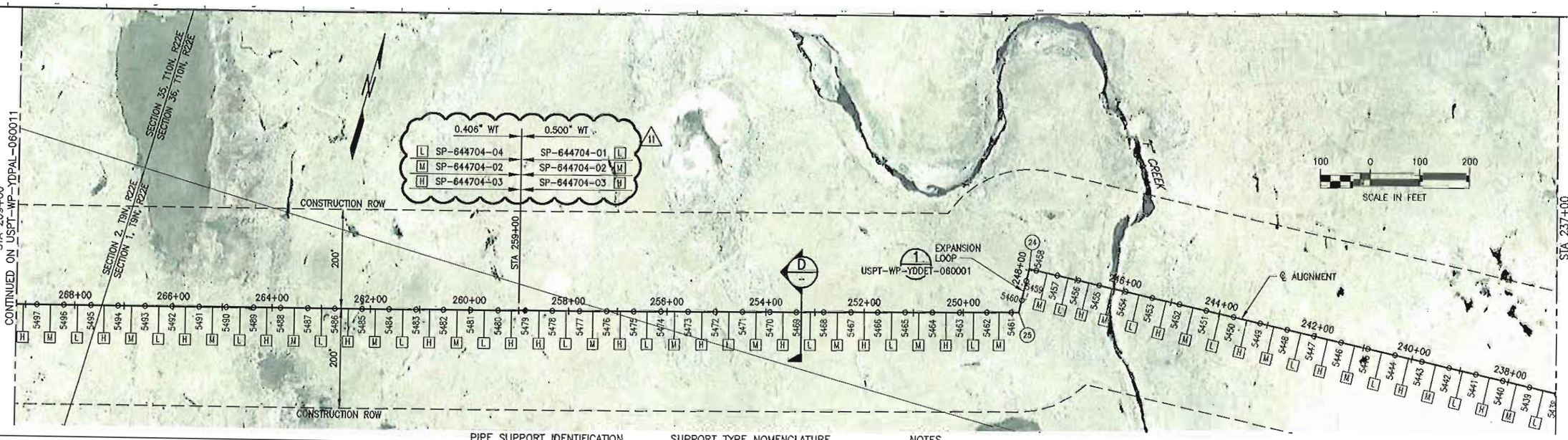


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
237+00 TO 259+00	12.75" DIA API 5L X65	0.500	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0
259+00 TO 269+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT #	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
24	PI	247+97.09	5912216.91	1584870.24	90.0°
25	PI	248+87.09	5912127.03	1584874.75	76.87°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME6EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

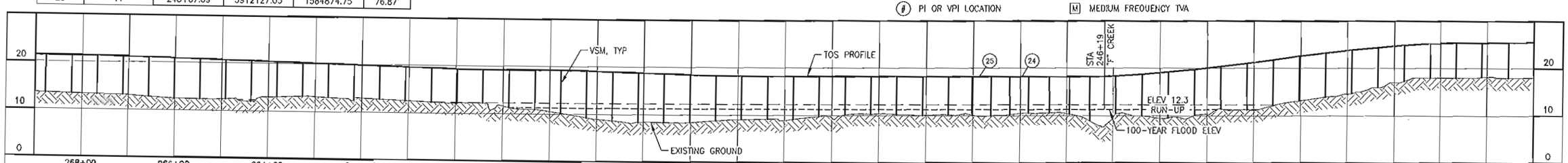
- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

℄ ALIGNMENT & SUPPORTS

(12") EXPORT PIPELINE

(D) TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5497	268+77.09 0.0	XG-2.5-08-25-15	21.34	13.4
5496	268+22.09 0.0	XG-2.5-08-25-15	21.34	13.3
5495	267+67.09 0.0	XG-2.5-08-25-15	21.34	13.2
5494	267+12.09 0.0	XG-2.5-08-25-15	21.23	13.1
5493	266+57.09 0.0	XG-2.5-08-25-15	21.09	12.8
5492	266+02.09 0.0	XG-2.5-08-25-15	20.95	12.5
5491	265+47.09 0.0	XG-2.5-08-25-15	20.81	12.4
5490	264+92.09 0.0	XG-2.5-08-25-15	20.68	12.4
5489	264+37.09 0.0	XG-2.5-08-25-15	20.54	12.0
5488	263+82.09 0.0	XG-2.5-08-25-15	20.40	13.0
5487	263+27.09 0.0	XG-2.5-08-25-15	20.26	13.2
5488	262+72.09 0.0	XG-2.5-08-25-15	20.13	13.0
5485	262+17.09 0.0	XG-2.5-08-25-15	19.99	12.5
5484	261+62.09 0.0	XG-2.5-08-25-15	19.62	12.8
5483	261+07.09 0.0	XG-2.5-08-25-15	19.66	12.6
5482	260+52.09 0.0	XG-2.5-08-25-15	19.49	12.3
5481	259+97.09 0.0	XG-2.5-08-25-15	19.33	12.1
5480	259+42.09 0.0	XG-2.5-08-25-15	19.22	12.2
5479	258+87.09 0.0	XA-2.5-18-30-20	19.22	11.3
5478	258+32.09 0.0	XG-2.5-08-25-15	19.22	10.9
5477	257+77.09 0.0	XG-2.5-08-25-15	19.22	10.2
5476	257+22.09 0.0	XG-2.5-08-25-15	19.14	9.3
5475	256+67.09 0.0	XG-2.5-08-25-15	18.97	8.7
5474	256+12.09 0.0	XG-2.5-08-25-15	18.81	8.4
5473	255+57.09 0.0	XG-2.5-08-25-15	18.64	8.4
5472	255+02.09 0.0	XG-2.5-08-25-15	18.48	8.4
5471	254+47.09 0.0	XG-2.5-08-25-15	18.31	8.8
5470	253+92.09 0.0	XG-2.5-08-25-15	18.23	9.1
5469	253+37.09 0.0	XG-2.5-08-25-15	18.23	9.2
5468	252+82.09 0.0	XG-2.5-08-25-15	18.23	9.2
5467	252+27.09 0.0	XG-2.5-08-25-15	18.23	9.7
5466	251+72.09 0.0	XG-2.5-08-25-15	18.23	10.1
5465	251+17.09 0.0	XG-2.5-08-25-15	18.23	10.3
5464	250+62.09 0.0	XG-2.5-08-25-15	18.23	10.3
5463	250+07.09 0.0	XG-2.5-12-25-15	18.23	10.1
5462	249+52.09 0.0	XG-2.5-12-25-15	18.23	10.2
5461	249+02.09 0.0	XS-08-12-25-15	18.23	10.1
5460	248+62.09 0.0	XS-08-12-25-15	18.23	10.0
5459	248+22.09 0.0	XS-08-12-25-15	18.23	10.2
5458	247+82.09 0.0	XS-08-12-25-15	18.23	10.5
5457	247+38.09 0.0	XG-2.5-12-25-15	18.23	10.6
5456	246+94.09 0.0	XG-2.5-12-25-15	18.23	10.3
5455	246+50.09 0.0	XG-2.5-12-25-15	18.23	8.9
5454	245+94.74 0.0	XG-2.5-08-25-15	18.37	10.4
5453	245+38.74 0.0	XG-2.5-08-25-15	18.73	10.0
5452	244+82.74 0.0	XG-2.5-08-25-15	19.21	9.5
5451	244+26.74 0.0	XG-2.5-08-25-15	19.77	10.1
5450	243+70.74 0.0	XG-2.5-08-25-15	20.38	11.5
5449	243+14.74 0.0	XG-2.5-08-25-15	21.08	11.2
5448	242+58.74 0.0	XG-2.5-08-25-15	21.81	12.1
5447	242+02.74 0.0	XG-2.5-08-25-15	22.54	13.1
5446	241+46.74 0.0	XG-2.5-08-25-15	23.24	14.0
5445	240+90.74 0.0	XG-2.5-08-25-15	23.85	14.7
5444	240+34.74 0.0	XG-2.5-08-25-15	24.41	15.0
5443	239+78.74 0.0	XG-2.5-08-25-15	24.89	17.3
5442	239+22.74 0.0	XG-2.5-08-25-15	25.25	18.0
5441	238+66.74 0.0	XG-2.5-08-25-15	25.39	18.0
5440	238+10.74 0.0	XG-2.5-08-25-15	25.43	18.2
5439	237+54.74 0.0	XG-2.5-08-25-15	25.47	18.0

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49 PAUL A. GARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAG	GMP
11	03/02/12	ISSUED FOR CONSTRUCTION	RFH	JAG	PAG	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

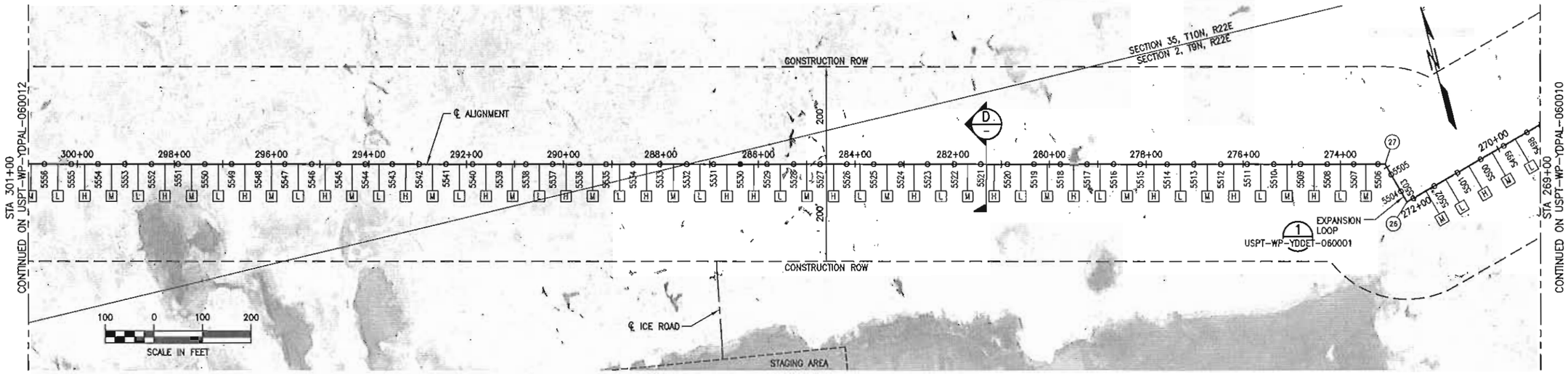
EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 237+00 TO STA 269+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAG

DRAWING NO. USPT-WP-YDPAL-060010-001 | SHEET 1 of 1 | REV 11

FILENAME: USPT-WP-YDPAL-060010-001



PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
269+00 TO 301+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
26	PI	272+17.09	5911484.79	1582635.01	90.0°
27	PI	273+07.09	5911571.31	1582610.20	60.0°

PIPE SUPPORT IDENTIFICATION

XS-08-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

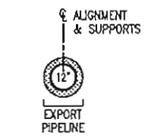
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

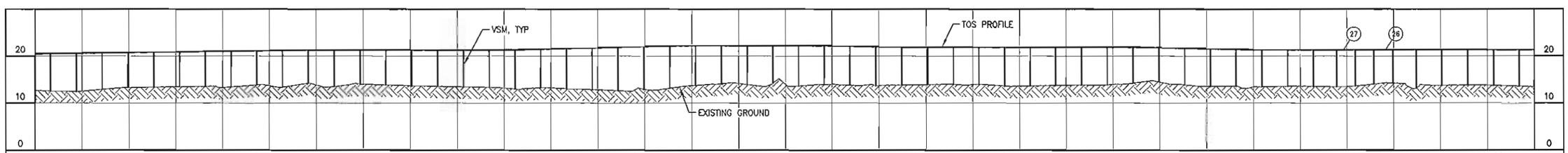
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME6EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5556	300+67.09 0.0	XG-2.5-08-25-15	20.52	12.6
5555	300+12.09 0.0	XG-2.5-08-25-15	20.60	12.5
5554	299+57.09 0.0	XG-2.5-08-25-15	20.67	12.9
5553	299+02.09 0.0	XG-2.5-08-25-15	20.75	13.3
5552	298+47.09 0.0	XG-2.5-08-25-15	20.82	13.4
5551	297+92.09 0.0	XG-2.5-08-25-15	20.90	13.5
5550	297+37.09 0.0	XG-2.5-08-25-15	20.97	13.6
5549	296+82.09 0.0	XG-2.5-08-25-15	21.04	13.4
5548	296+27.09 0.0	XG-2.5-08-25-15	21.12	13.9
5547	295+72.09 0.0	XG-2.5-08-25-15	21.19	13.4
5546	295+17.09 0.0	XG-2.5-08-25-15	21.27	14.2
5545	294+62.09 0.0	XG-2.5-08-25-15	21.27	13.5
5544	294+07.09 0.0	XG-2.5-08-25-15	21.27	14.0
5543	293+52.09 0.0	XG-2.5-08-25-15	21.27	13.9
5542	292+97.09 0.0	XG-2.5-08-25-15	21.27	13.6
5541	292+42.09 0.0	XG-2.5-08-25-15	21.27	13.6
5540	291+87.09 0.0	XG-2.5-08-25-15	21.27	13.5
5539	291+32.09 0.0	XG-2.5-08-25-15	21.27	13.4
5538	290+77.09 0.0	XG-2.5-08-25-15	21.34	13.0
5537	290+22.09 0.0	XG-2.5-08-25-15	21.47	13.3
5536	289+67.09 0.0	XG-2.5-08-25-15	21.61	13.1
5535	289+12.09 0.0	XG-2.5-08-25-15	21.75	12.9
5534	288+57.09 0.0	XG-2.5-08-25-15	21.89	12.7
5533	288+02.09 0.0	XG-2.5-08-25-15	22.02	13.0
5532	287+47.09 0.0	XG-2.5-08-25-15	22.16	13.2
5531	286+92.09 0.0	XG-2.5-08-25-15	22.23	13.8
5530	286+37.09 0.0	XA-2.5-18-30-20	22.23	14.1
5529	285+82.09 0.0	XG-2.5-08-25-15	22.23	14.0
5528	285+27.09 0.0	XG-2.5-08-25-15	22.23	14.3
5527	284+72.09 0.0	XG-2.5-08-25-15	22.23	13.6
5526	284+17.09 0.0	XG-2.5-08-25-15	22.17	14.0
5525	283+62.09 0.0	XG-2.5-08-25-15	22.09	13.8
5524	283+07.09 0.0	XG-2.5-08-25-15	22.01	13.7
5523	282+52.09 0.0	XG-2.5-08-25-15	21.93	13.9
5522	281+97.09 0.0	XG-2.5-08-25-15	21.87	13.9
5521	281+42.09 0.0	XG-2.5-08-25-15	21.87	14.0
5520	280+87.09 0.0	XG-2.5-08-25-15	21.87	14.0
5519	280+32.09 0.0	XG-2.5-08-25-15	21.87	13.7
5518	279+77.09 0.0	XG-2.5-08-25-15	21.87	13.7
5517	279+22.09 0.0	XG-2.5-08-25-15	21.87	13.8
5516	278+67.09 0.0	XG-2.5-08-25-15	21.87	13.8
5515	278+12.09 0.0	XG-2.5-08-25-15	21.87	13.9
5514	277+57.09 0.0	XG-2.5-08-25-15	21.87	14.3
5513	277+02.09 0.0	XG-2.5-08-25-15	21.79	14.5
5512	276+47.09 0.0	XG-2.5-08-25-15	21.67	13.9
5511	275+92.09 0.0	XG-2.5-08-25-15	21.54	13.6
5510	275+37.09 0.0	XG-2.5-08-25-15	21.42	13.6
5509	274+82.09 0.0	XG-2.5-08-25-15	21.34	13.5
5508	274+27.09 0.0	XG-2.5-12-25-15	21.34	13.6
5507	273+72.09 0.0	XG-2.5-12-25-15	21.34	13.6
5506	273+22.09 0.0	XS-08-12-25-15	21.34	13.5
5505	272+82.09 0.0	XS-08-12-25-15	21.34	13.7
5504	272+42.09 0.0	XS-08-12-25-15	21.34	14.0
5503	272+02.09 0.0	XS-08-12-25-15	21.34	14.2
5502	271+52.09 0.0	XG-2.5-12-25-15	21.34	13.2
5501	270+97.09 0.0	XG-2.5-12-25-15	21.34	13.8
5500	270+42.09 0.0	XG-2.5-08-25-15	21.34	13.8
5499	269+87.09 0.0	XG-2.5-08-25-15	21.34	13.8
5498	269+32.09 0.0	XG-2.5-08-25-15	21.34	13.6

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 269+00 TO STA 301+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060011-001 SHEET 1 of 1 REV 10

FILENAME: USPT-WP-YDPAL-060011-001

PT-D-BAKER.DWG (24x36)

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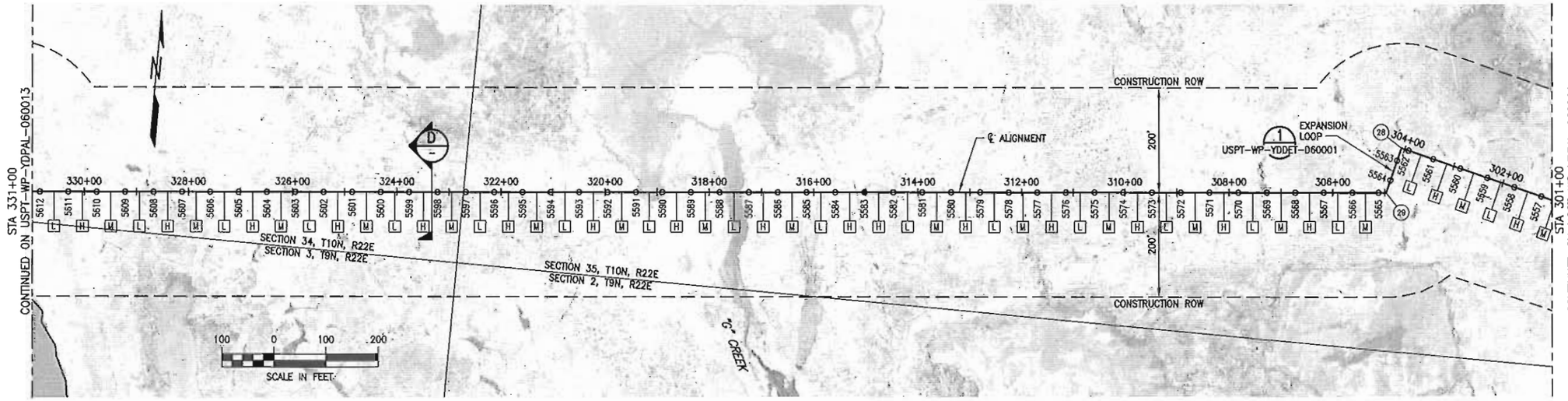


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
301+00 TO 331+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
28	PI	304+07.09	5912321.26	1579602.28	90.0°
29	PI	304+97.09	5912233.94	1579580.51	71.09°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

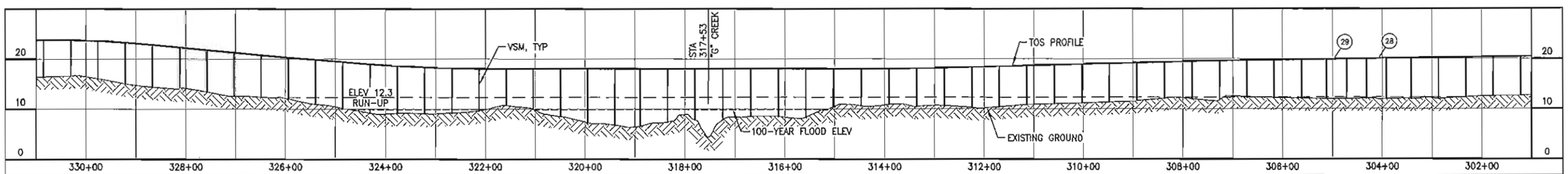
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- o GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STA	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
330+00	23.77	XG-2.5-12-25-15	330+85.07 0.0	5612	16.5
329+00	23.77	XG-2.5-12-25-15	329+76.07 0.0	5611	16.7
328+00	23.61	XG-2.5-08-25-15	328+67.07 0.0	5610	16.1
327+00	23.28	XG-2.5-08-25-15	327+58.07 0.0	5609	15.1
326+00	22.82	XG-2.5-08-25-15	326+49.07 0.0	5608	14.4
325+00	22.30	XG-2.5-08-25-15	325+40.07 0.0	5607	14.3
324+00	21.78	XG-2.5-08-25-15	324+31.07 0.0	5606	13.4
323+00	21.26	XG-2.5-08-25-15	323+22.07 0.0	5605	12.6
322+00	20.74	XG-2.5-08-25-15	322+13.07 0.0	5604	12.4
321+00	20.27	XG-2.5-08-25-15	321+04.07 0.0	5603	12.0
320+00	19.83	XG-2.5-08-25-15	320+49.57 0.0	5602	11.0
319+00	19.40	XG-2.5-09-25-15	319+85.57 0.0	5601	10.2
318+00	18.96	XG-2.5-08-25-15	318+76.57 0.0	5600	9.2
317+00	18.60	XG-2.5-08-25-15	317+67.57 0.0	5599	9.2
316+00	18.33	XG-2.5-08-25-15	316+58.57 0.0	5598	9.1
315+00	18.14	XG-2.5-08-25-15	315+49.57 0.0	5597	9.2
314+00	18.03	XG-2.5-08-25-15	314+40.57 0.0	5596	9.7
313+00	18.03	XG-2.5-08-25-15	313+31.57 0.0	5595	10.7
312+00	18.03	XG-2.5-08-25-15	312+22.57 0.0	5594	10.0
311+00	18.03	XG-2.5-08-25-15	311+13.57 0.0	5593	8.5
310+00	18.03	XG-2.5-12-25-15	310+04.57 0.0	5592	7.3
309+00	18.03	XG-2.5-18-30-15	309+95.57 0.0	5591	6.8
308+00	18.03	XG-2.5-18-30-15	308+86.57 0.0	5590	6.6
307+00	18.03	XG-2.5-12-25-15	307+77.57 0.0	5589	7.4
306+00	18.03	XG-2.5-12-25-15	306+68.57 0.0	5588	7.9
305+00	18.03	XG-2.5-12-25-15	305+59.57 0.0	5587	7.9
304+00	18.03	XG-2.5-08-25-15	304+50.57 0.0	5586	8.5
303+00	18.03	XG-2.5-08-25-15	303+41.57 0.0	5585	8.6
302+00	18.03	XG-2.5-08-25-15	302+32.57 0.0	5584	8.4
301+00	18.03	XG-2.5-08-25-15	301+23.57 0.0	5583	10.4
300+00	18.03	XG-2.5-12-25-15	300+14.57 0.0	5582	10.6
299+00	18.03	XG-2.5-18-30-20	299+05.57 0.0	5581	10.9
298+00	18.03	XG-2.5-09-25-15	298+96.57 0.0	5580	10.5
297+00	18.03	XG-2.5-08-25-15	297+87.57 0.0	5579	10.7
296+00	18.03	XG-2.5-08-25-15	296+78.57 0.0	5578	10.3
295+00	18.03	XG-2.5-08-25-15	295+69.57 0.0	5577	10.4
294+00	18.03	XG-2.5-08-25-15	294+60.57 0.0	5576	10.9
293+00	18.03	XG-2.5-08-25-15	293+51.57 0.0	5575	11.0
292+00	18.03	XG-2.5-08-25-15	292+42.57 0.0	5574	11.2
291+00	18.03	XG-2.5-08-25-15	291+33.57 0.0	5573	11.4
290+00	18.03	XG-2.5-08-25-15	290+24.57 0.0	5572	11.7
289+00	18.03	XG-2.5-08-25-15	289+15.57 0.0	5571	12.1
288+00	18.03	XG-2.5-08-25-15	288+06.57 0.0	5570	12.0
287+00	18.03	XG-2.5-08-25-15	287+97.57 0.0	5569	11.8
286+00	18.03	XG-2.5-08-25-15	286+88.57 0.0	5568	12.5
285+00	18.03	XG-2.5-12-25-15	285+79.57 0.0	5567	12.2
284+00	18.03	XG-2.5-12-25-15	284+70.57 0.0	5566	12.1
283+00	18.03	XS-08-12-25-15	283+61.57 0.0	5565	12.0
282+00	18.11	XS-08-12-25-15	282+72.09 0.0	5564	12.0
281+00	18.25	XS-08-12-25-15	281+32.09 0.0	5563	12.1
280+00	18.39	XS-08-12-25-15	280+92.09 0.0	5562	12.0
279+00	18.52	XG-2.5-12-25-15	279+52.09 0.0	5561	12.0
278+00	18.66	XG-2.5-12-25-15	278+12.09 0.0	5560	12.0
277+00	18.80	XG-2.5-08-25-15	277+42.09 0.0	5559	12.4
276+00	18.94	XG-2.5-08-25-15	276+32.09 0.0	5558	12.6
275+00	19.08	XG-2.5-08-25-15	275+22.09 0.0	5557	12.7
274+00	19.22	XG-2.5-08-25-15	274+12.09 0.0		
273+00	19.36	XG-2.5-08-25-15	273+02.09 0.0		
272+00	19.49	XG-2.5-08-25-15	272+92.09 0.0		
271+00	19.63	XG-2.5-08-25-15	271+82.09 0.0		
270+00	19.71	XG-2.5-09-25-15	270+72.09 0.0		
269+00	19.78	XG-2.5-12-25-15	269+62.09 0.0		
268+00	19.86	XG-2.5-12-25-15	268+52.09 0.0		
267+00	19.92	XS-08-12-25-15	267+42.09 0.0		
266+00	19.98	XS-08-12-25-15	266+32.09 0.0		
265+00	20.03	XS-08-12-25-15	265+22.09 0.0		
264+00	20.09	XS-08-12-25-15	264+12.09 0.0		
263+00	20.15	XG-2.5-12-25-15	263+02.09 0.0		
262+00	20.23	XG-2.5-12-25-15	262+92.09 0.0		
261+00	20.30	XG-2.5-08-25-15	261+82.09 0.0		
260+00	20.38	XG-2.5-08-25-15	260+72.09 0.0		
259+00	20.45	XG-2.5-08-25-15	259+62.09 0.0		

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARLSON — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RHH	JAO	PAC	CMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 301+00 TO STA 331+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APP'D
	R. HOBBS	12/11	AS SHOWN	JAO / PAC

DRAWING NO. USPT-WP-YDPAL-060012-001 — SHEET 1 of 1 — REV 10

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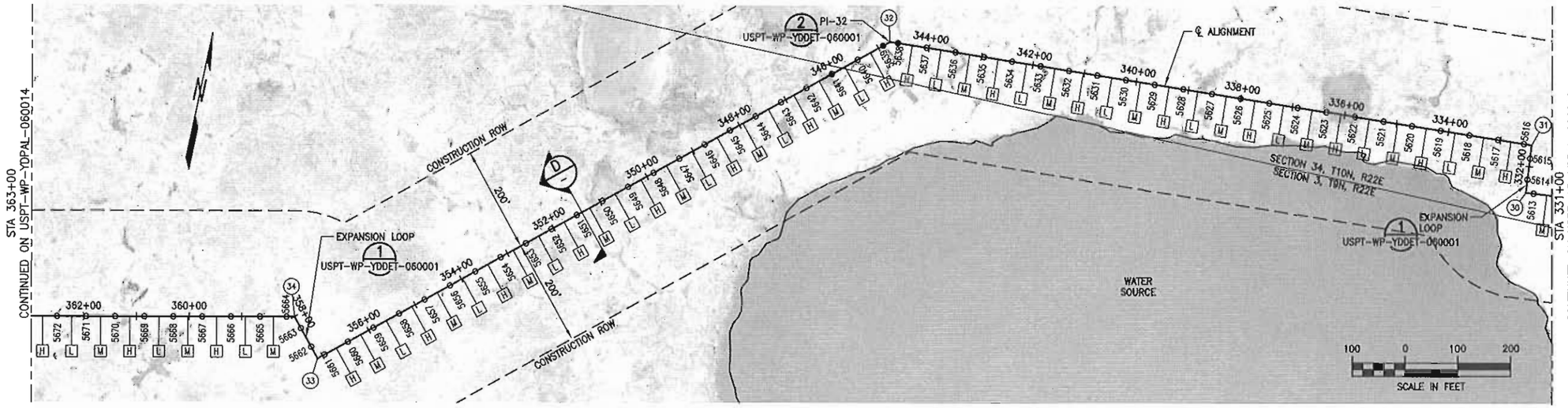


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
331+00 TO 363+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (ℓ)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
30	PI	331+50.07	5912006.82	1576937.27	90.0°
31	PI	332+40.07	5912096.48	1576929.56	88.09°
32	PI	344+75.07	5912031.84	1575696.26	38.0°
33	PI	357+10.07	5911221.59	1574764.20	90.0°
34	PI	358+00.07	5911289.52	1574705.15	61.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

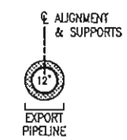
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

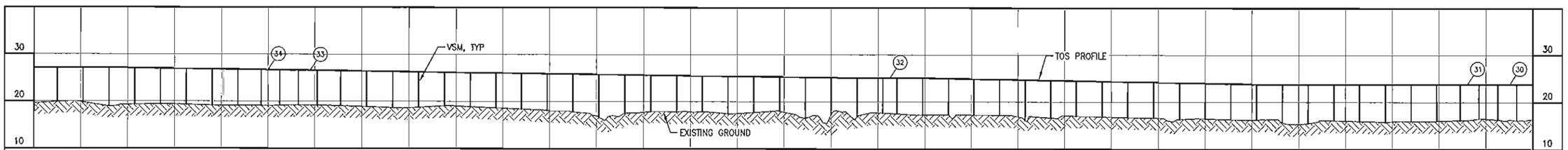
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (ℓ) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5672	362+50.07 0.0	XG-2.5-08-25-15	27.14	19.9
5671	361+95.07 0.0	XG-2.5-08-25-15	27.14	19.8
5670	361+40.07 0.0	XG-2.5-08-25-15	27.14	19.0
5669	360+85.07 0.0	XG-2.5-08-25-15	27.07	19.4
5668	360+30.07 0.0	XG-2.5-08-25-15	26.99	19.4
5667	359+75.07 0.0	XG-2.5-08-25-15	26.92	19.3
5666	359+20.07 0.0	XG-2.5-12-25-15	26.85	19.2
5665	358+65.07 0.0	XG-2.5-12-25-15	26.78	19.1
5664	358+15.07 0.0	XS-08-12-25-15	26.72	19.1
5663	357+75.07 0.0	XS-08-12-25-15	26.66	19.1
5662	357+35.07 0.0	XS-08-12-25-15	26.61	19.2
5661	356+95.07 0.0	XS-08-12-25-15	26.56	19.2
5660	356+45.07 0.0	XG-2.5-12-25-15	26.49	19.1
5659	355+90.07 0.0	XG-2.5-12-25-15	26.42	18.9
5658	355+35.07 0.0	XG-2.5-08-25-15	26.35	18.7
5657	354+80.07 0.0	XG-2.5-08-25-15	26.28	18.8
5656	354+25.07 0.0	XG-2.5-08-25-15	26.21	19.1
5655	353+70.07 0.0	XG-2.5-08-25-15	26.14	18.9
5654	353+15.07 0.0	XG-2.5-08-25-15	26.07	18.7
5653	352+60.07 0.0	XG-2.5-08-25-15	25.99	18.4
5652	352+05.07 0.0	XG-2.5-08-25-15	25.92	18.1
5651	351+50.07 0.0	XG-2.5-08-25-15	25.85	17.9
5650	350+95.07 0.0	XG-2.5-08-25-15	25.78	16.7
5649	350+40.07 0.0	XG-2.5-08-25-15	25.71	17.5
5648	349+85.07 0.0	XG-2.5-08-25-15	25.64	17.9
5647	349+30.07 0.0	XG-2.5-08-25-15	25.56	17.9
5646	348+75.07 0.0	XG-2.5-08-25-15	25.49	17.9
5645	348+20.07 0.0	XG-2.5-08-25-15	25.42	17.5
5644	347+65.07 0.0	XG-2.5-08-25-15	25.35	17.8
5643	347+10.07 0.0	XG-2.5-08-25-15	25.28	18.0
5642	346+55.07 0.0	XG-2.5-08-25-15	25.21	16.6
5641	346+00.07 0.0	XG-2.5-08-25-15	25.14	17.3
5640	345+45.07 0.0	XG-2.5-08-25-15	25.06	16.8
5639	344+90.07 0.0	XA-2.5-18-30-20	25.06	17.6
5638	344+60.07 0.0	XA-2.5-18-30-20	25.06	17.5
5637	344+05.07 0.0	XG-2.5-08-25-15	25.06	17.2
5636	343+50.07 0.0	XG-2.5-08-25-15	24.99	17.3
5635	342+95.07 0.0	XG-2.5-08-25-15	24.90	17.2
5634	342+40.07 0.0	XG-2.5-08-25-15	24.80	17.2
5633	341+85.07 0.0	XG-2.5-08-25-15	24.70	16.1
5632	341+30.07 0.0	XG-2.5-08-25-15	24.61	16.6
5631	340+75.07 0.0	XG-2.5-08-25-15	24.51	17.0
5630	340+20.07 0.0	XG-2.5-08-25-15	24.42	16.9
5629	339+65.07 0.0	XG-2.5-08-25-15	24.32	16.8
5628	339+10.07 0.0	XG-2.5-08-25-15	24.22	16.7
5627	338+55.07 0.0	XG-2.5-08-25-15	24.13	16.4
5626	338+00.07 0.0	XG-2.5-08-25-15	24.03	16.5
5625	337+45.07 0.0	XG-2.5-08-25-15	23.93	16.3
5624	336+90.07 0.0	XG-2.5-08-25-15	23.84	16.3
5623	336+35.07 0.0	XG-2.5-08-25-15	23.77	15.7
5622	335+80.07 0.0	XG-2.5-08-25-15	23.77	15.5
5621	335+25.07 0.0	XG-2.5-08-25-15	23.77	16.1
5620	334+70.07 0.0	XG-2.5-08-25-15	23.77	16.0
5619	334+15.07 0.0	XG-2.5-08-25-15	23.77	15.8
5618	333+60.07 0.0	XG-2.5-12-25-15	23.77	16.0
5617	333+05.07 0.0	XG-2.5-12-25-15	23.77	16.0
5616	332+55.07 0.0	XS-08-12-25-15	23.77	16.2
5615	332+15.07 0.0	XS-08-12-25-15	23.77	16.5
5614	331+75.07 0.0	XS-08-12-25-15	23.77	16.3
5613	331+35.07 0.0	XS-08-12-25-15	23.77	16.2

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — 49TH — MARK A. CARDONA — CE 7735 — EXPIRES 12/12/11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	MPJ	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 331+00 TO STA 363+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG / APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDPAL-060013-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060013-001

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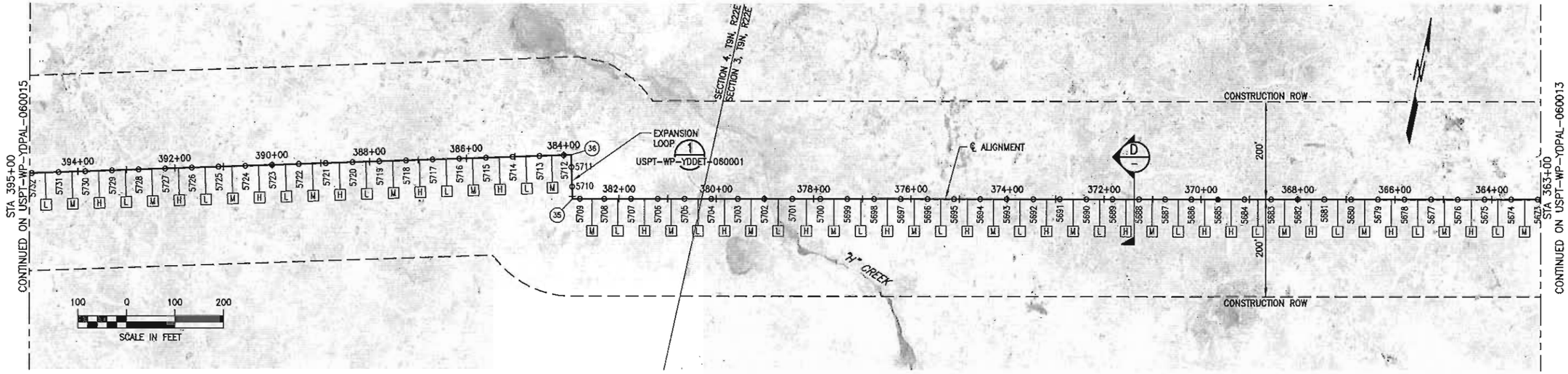


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
363+00 TO 395+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
35	PI	382+95.07	5910770.75	1572264.68	88.0°
36	PI	383+85.07	5910858.08	1572242.91	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VS — VERTICAL SUPPORT
- 06 — LOCATION CODE
- 704 — UNIT/MODULE
- XXXX — SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

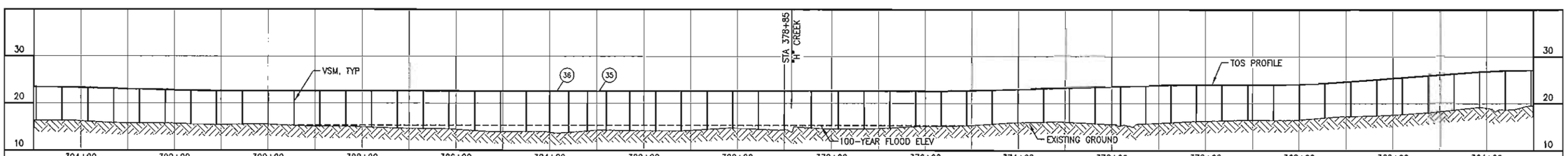
LEGEND

- O GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

℄ ALIGNMENT & SUPPORTS

12" EXPORT PIPELINE

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
394+95.07	23.53	XG-2.5-08-25-15	0.0	5732	16.3
394+40.07	23.40	XG-2.5-08-25-15	0.0	5731	16.3
393+85.07	23.26	XG-2.5-08-25-15	0.0	5730	16.1
393+30.07	23.12	XG-2.5-08-25-15	0.0	5729	15.9
392+75.07	22.98	XG-2.5-08-25-15	0.0	5728	15.8
392+20.07	22.85	XG-2.5-08-25-15	0.0	5727	15.8
391+65.07	22.71	XG-2.5-08-25-15	0.0	5726	15.6
391+10.07	22.63	XG-2.5-08-25-15	0.0	5725	15.4
390+55.07	22.63	XG-2.5-08-25-15	0.0	5724	15.5
390+00.07	22.63	XG-2.5-08-25-15	0.0	5723	15.5
389+45.07	22.63	XG-2.5-08-25-15	0.0	5722	15.3
388+90.07	22.63	XG-2.5-08-25-15	0.0	5721	15.1
388+35.07	22.63	XG-2.5-08-25-15	0.0	5720	15.1
387+80.07	22.63	XG-2.5-08-25-15	0.0	5719	14.9
387+25.07	22.63	XG-2.5-08-25-15	0.0	5718	14.7
386+70.07	22.63	XG-2.5-08-25-15	0.0	5717	14.6
386+15.07	22.63	XG-2.5-08-25-15	0.0	5716	14.6
385+60.07	22.63	XG-2.5-08-25-15	0.0	5715	14.2
385+05.07	22.63	XG-2.5-12-25-15	0.0	5714	13.9
384+50.07	22.63	XG-2.5-12-25-15	0.0	5713	14.0
384+00.07	22.63	XS-08-12-25-15	0.0	5712	13.8
383+60.07	22.63	XS-08-12-25-15	0.0	5711	13.8
383+20.07	22.63	XS-08-12-25-15	0.0	5710	14.1
382+80.07	22.63	XS-08-12-25-15	0.0	5709	14.3
382+30.07	22.63	XG-2.5-12-25-15	0.0	5708	14.2
381+75.07	22.63	XG-2.5-12-25-15	0.0	5707	14.2
381+20.07	22.63	XG-2.5-08-25-15	0.0	5706	14.2
380+65.07	22.63	XG-2.5-08-25-15	0.0	5705	14.5
380+10.07	22.63	XG-2.5-08-25-15	0.0	5704	14.8
379+55.07	22.63	XG-2.5-08-25-15	0.0	5703	14.5
379+00.07	22.63	XG-2.5-08-25-15	0.0	5702	14.4
378+43.07	22.63	XG-2.5-08-25-15	0.0	5701	14.8
377+86.07	22.63	XG-2.5-08-25-15	0.0	5700	14.6
377+31.07	22.63	XG-2.5-08-25-15	0.0	5699	14.6
376+76.07	22.63	XG-2.5-08-25-15	0.0	5698	14.8
376+21.07	22.63	XG-2.5-08-25-15	0.0	5697	15.1
375+66.07	22.63	XG-2.5-08-25-15	0.0	5696	15.2
375+11.07	22.70	XG-2.5-08-25-15	0.0	5695	15.3
374+56.07	22.86	XG-2.5-08-25-15	0.0	5694	15.6
374+01.07	23.01	XG-2.5-08-25-15	0.0	5693	15.9
373+46.07	23.17	XG-2.5-08-25-15	0.0	5692	16.0
372+91.07	23.32	XG-2.5-08-25-15	0.0	5691	16.0
372+36.07	23.47	XG-2.5-08-25-15	0.0	5690	15.7
371+82.07	23.62	XG-2.5-08-25-15	0.0	5689	15.3
371+28.07	23.78	XG-2.5-08-25-15	0.0	5688	15.7
370+74.07	23.93	XG-2.5-08-25-15	0.0	5687	16.0
370+20.07	24.00	XG-2.5-08-25-15	0.0	5686	16.3
369+65.07	24.00	XA-2.5-18-30-20	0.0	5685	16.4
369+10.07	24.00	XG-2.5-08-25-15	0.0	5684	16.5
368+55.07	24.00	XG-2.5-08-25-15	0.0	5683	16.5
368+00.07	24.11	XG-2.5-08-25-15	0.0	5682	16.6
367+45.07	24.36	XG-2.5-08-25-15	0.0	5681	17.0
366+90.07	24.75	XG-2.5-08-25-15	0.0	5680	17.3
366+35.07	25.16	XG-2.5-08-25-15	0.0	5679	17.5
365+80.07	25.57	XG-2.5-08-25-15	0.0	5678	17.8
365+25.07	25.98	XG-2.5-08-25-15	0.0	5677	18.1
364+70.07	26.40	XG-2.5-08-25-15	0.0	5676	18.7
364+15.07	26.78	XG-2.5-08-25-15	0.0	5675	19.3
363+60.07	27.03	XG-2.5-08-25-15	0.0	5674	18.7
363+05.07	27.14	XG-2.5-08-25-15	0.0	5673	19.6

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. JOHNSON — CE 7733 — REGISTERED PROFESSIONAL ENGINEER — 12-28-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RH	JAO	PAG	GMP

ExxonMobil Development

WorleyParsons — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 363+00 TO STA 395+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	JAO
	R. HOBBS	12/11	AS SHOWN	APPD	PAG

DRAWING NO. USPT-WP-YDPAL-060014-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060014-001

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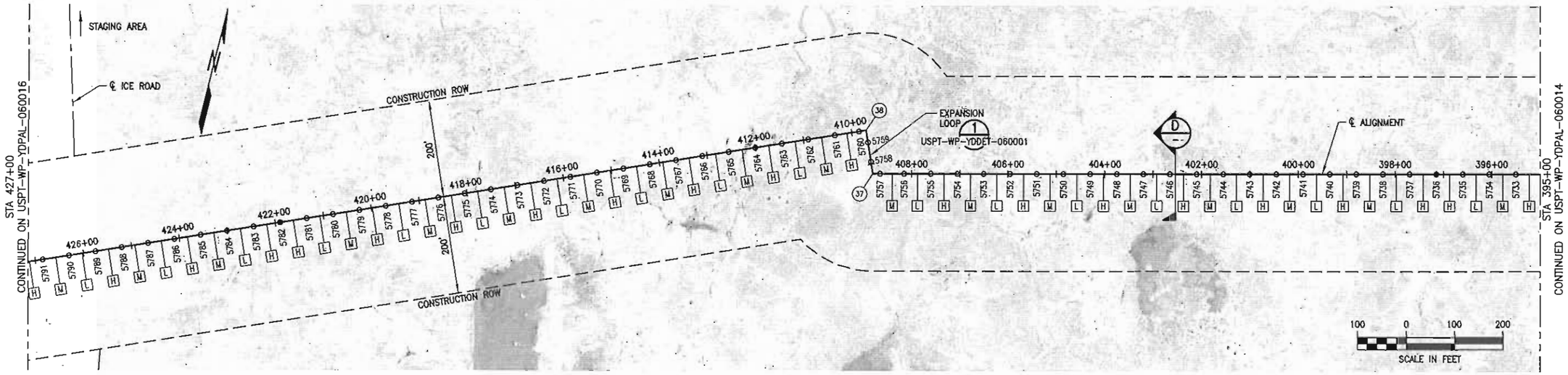


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
395+00 TO 427+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
37	PI	408+80.07	5910254.46	1569822.02	81.0°
38	PI	409+70.07	5910337.30	1569786.86	90.0°

PIPE SUPPORT IDENTIFICATION

VS-08-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

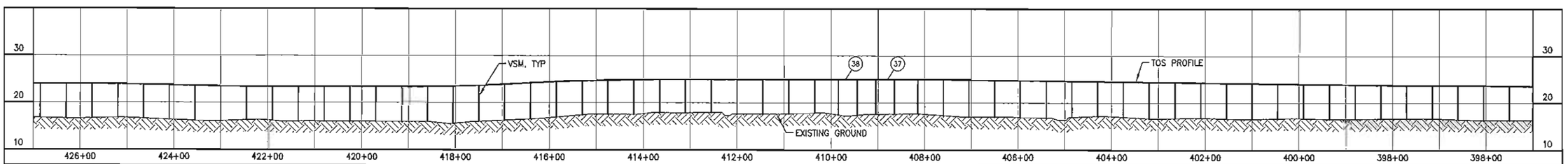
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0048-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- o GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D/- TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	SUPPORT TYPE	STATION & OFFSET (FT)	GROUND ELEV (FT)	TOS ELEV (FT)
5791	XG-2.5-08-25-15	425+85.07 0.0	16.8	23.97
5790	XG-2.5-08-25-15	425+30.07 0.0	16.6	23.97
5789	XG-2.5-08-25-15	425+75.07 0.0	16.7	23.97
5788	XG-2.5-08-25-15	425+20.07 0.0	16.9	23.92
5787	XG-2.5-08-25-15	424+65.07 0.0	16.6	23.81
5786	XG-2.5-08-25-15	424+10.07 0.0	16.4	23.70
5785	XG-2.5-08-25-15	423+55.07 0.0	16.2	23.59
5784	XG-2.5-08-25-15	423+00.07 0.0	16.1	23.48
5783	XG-2.5-08-25-15	422+45.07 0.0	16.3	23.42
5782	XA-2.5-18-30-20	421+90.07 0.0	16.2	23.42
5781	XG-2.5-08-25-15	421+35.07 0.0	16.0	23.42
5780	XG-2.5-08-25-15	420+80.07 0.0	16.0	23.42
5779	XG-2.5-08-25-15	420+25.07 0.0	16.0	23.42
5778	XG-2.5-08-25-15	419+70.07 0.0	16.0	23.42
5777	XG-2.5-08-25-15	419+15.07 0.0	16.0	23.42
5776	XG-2.5-08-25-15	418+60.07 0.0	16.0	23.42
5775	XG-2.5-08-25-15	418+05.07 0.0	15.6	23.51
5774	XG-2.5-08-25-15	417+50.07 0.0	16.0	23.67
5773	XG-2.5-08-25-15	416+95.07 0.0	16.3	23.95
5772	XG-2.5-08-25-15	416+40.07 0.0	16.6	24.22
5771	XG-2.5-08-25-15	415+85.07 0.0	17.0	24.50
5770	XG-2.5-08-25-15	415+30.07 0.0	17.5	24.89
5769	XG-2.5-08-25-15	414+75.07 0.0	17.6	24.80
5768	XG-2.5-08-25-15	414+20.07 0.0	17.6	24.91
5767	XG-2.5-08-25-15	413+65.07 0.0	18.0	24.99
5766	XG-2.5-08-25-15	413+10.07 0.0	17.9	24.99
5765	XG-2.5-08-25-15	412+55.07 0.0	17.9	24.99
5764	XG-2.5-08-25-15	412+00.07 0.0	17.7	24.99
5763	XG-2.5-08-25-15	411+45.07 0.0	17.6	24.99
5762	XG-2.5-08-25-15	410+90.07 0.0	17.7	24.99
5761	XG-2.5-12-25-15	410+35.07 0.0	17.9	24.99
5760	XS-08-12-25-15	409+85.07 0.0	17.4	24.99
5759	XS-08-12-25-15	409+45.07 0.0	17.4	24.99
5758	XS-08-12-25-15	409+05.07 0.0	17.6	24.99
5757	XS-08-12-25-15	408+65.07 0.0	17.7	24.99
5758	XG-2.5-12-25-15	408+15.07 0.0	17.7	24.99
5755	XG-2.5-12-25-15	407+60.07 0.0	17.3	24.99
5754	XG-2.5-08-25-15	407+05.07 0.0	17.0	24.92
5753	XG-2.5-08-25-15	406+50.07 0.0	17.1	24.85
5752	XG-2.5-08-25-15	405+95.07 0.0	17.0	24.79
5751	XG-2.5-08-25-15	405+40.07 0.0	16.9	24.72
5750	XG-2.5-08-25-15	404+85.07 0.0	17.0	24.65
5749	XG-2.5-08-25-15	404+30.07 0.0	17.2	24.58
5748	XG-2.5-08-25-15	403+75.07 0.0	17.0	24.51
5747	XG-2.5-08-25-15	403+20.07 0.0	16.7	24.44
5746	XG-2.5-08-25-15	402+65.07 0.0	16.8	24.37
5745	XG-2.5-08-25-15	402+10.07 0.0	16.9	24.30
5744	XG-2.5-08-25-15	401+55.07 0.0	16.7	24.24
5743	XG-2.5-08-25-15	401+00.07 0.0	16.6	24.17
5742	XG-2.5-08-25-15	400+45.07 0.0	16.7	24.10
5741	XG-2.5-08-25-15	399+90.07 0.0	16.7	24.03
5740	XG-2.5-08-25-15	399+35.07 0.0	16.6	23.96
5739	XG-2.5-08-25-15	398+80.07 0.0	16.6	23.89
5738	XG-2.5-08-25-15	398+25.07 0.0	16.7	23.82
5737	XG-2.5-08-25-15	397+70.07 0.0	16.7	23.75
5736	XA-2.5-18-30-20	397+15.07 0.0	16.7	23.75
5735	XG-2.5-08-25-15	396+60.07 0.0	16.5	23.75
5734	XG-2.5-08-25-15	396+05.07 0.0	16.4	23.75
5733	XG-2.5-08-25-15	395+50.07 0.0	16.4	23.67

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 4911 PAUL A. GUSLEN 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	[illegible]	JWU	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 395+00 TO STA 427+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JWU / PAC

DRAWING NO. USPT-WP-YDPAL-060015-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

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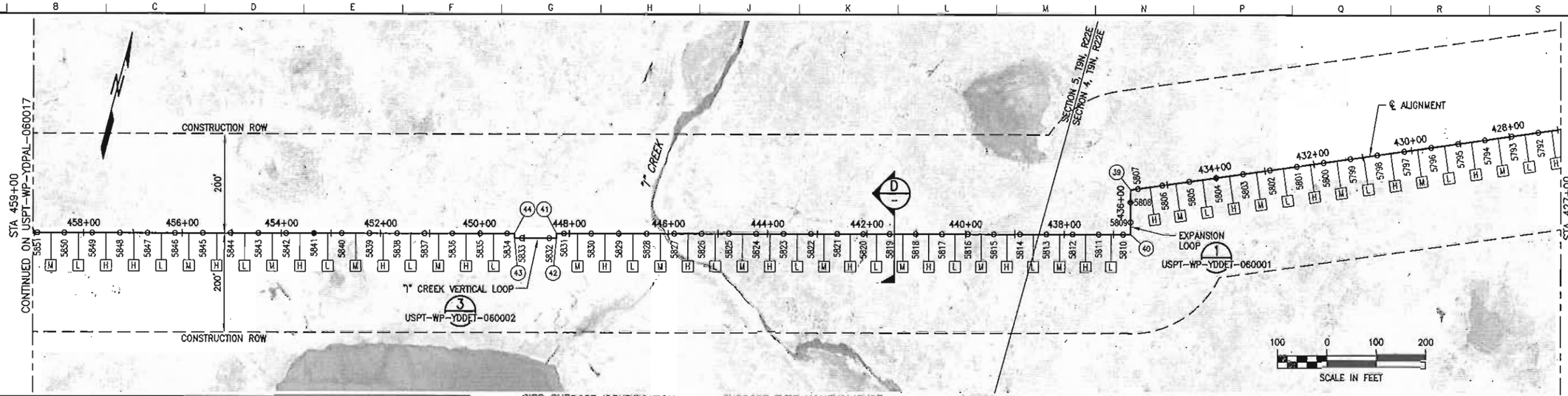


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
427+00 TO 459+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT (ℓ)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
39	PI	435+75.07	5909319.42	1567388.95	82.0°
40	PI	436+65.07	5909232.49	1567412.25	90.0°
41	PI/VPI	448+25.57	5908932.12	1566291.29	90.0° (R)
42	PI/VPI	448+34.82	5908923.18	1566293.69	90.0° (R)
43	PI/VPI	449+19.82	5908901.18	1566211.58	90.0° (R)
44	PI/VPI	449+29.07	5908910.12	1566209.19	90.0° (R)

(R) ANGLE = ROLLED

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

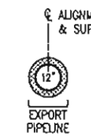
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

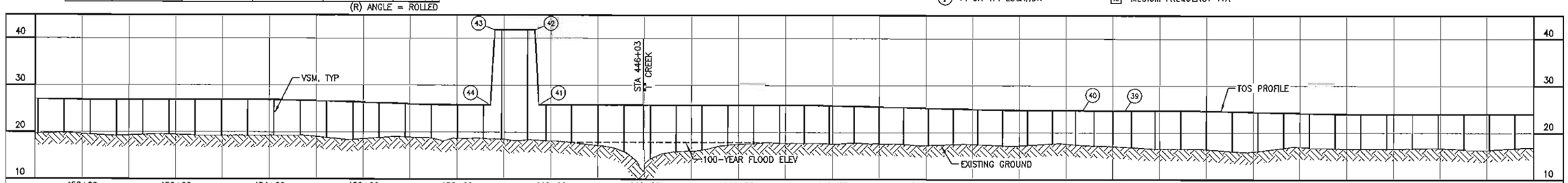
LEGEND

- o GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (ℓ) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



(D) TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5851	458+93.57 0.0	XG-2.5-08-25-15	27.08	19.7
5850	458+38.57 0.0	XG-2.5-08-25-15	26.94	19.8
5849	457+82.57 0.0	XG-2.5-08-25-15	26.88	19.5
5848	457+26.57 0.0	XA-2.5-18-30-20	26.88	19.2
5847	456+70.57 0.0	XG-2.5-08-25-15	26.88	19.4
5846	456+14.57 0.0	XG-2.5-08-25-15	26.88	19.5
5845	455+58.57 0.0	XG-2.5-08-25-15	26.88	19.3
5844	455+02.57 0.0	XG-2.5-08-25-15	26.88	19.2
5843	454+46.57 0.0	XG-2.5-08-25-15	26.88	19.2
5842	453+90.57 0.0	XG-2.5-08-25-15	26.88	19.3
5841	453+34.57 0.0	XG-2.5-08-25-15	28.79	19.4
5840	452+78.57 0.0	XG-2.5-08-25-15	26.61	18.8
5839	452+22.57 0.0	XG-2.5-08-25-15	26.43	18.5
5838	451+66.57 0.0	XG-2.5-08-25-15	26.25	18.8
5837	451+10.57 0.0	XG-2.5-08-25-15	26.07	19.0
5836	450+54.57 0.0	XG-2.5-08-25-15	25.89	18.7
5835	449+98.57 0.0	XG-2.5-12-25-15	25.80	18.7
5834	449+44.07 0.0	XG-2.5-08-25-15	25.80	18.7
5833	449+04.82 0.0	XS-08-18-40-15	41.82	18.5
5832	448+49.82 0.0	XS-08-18-40-15	41.82	18.4
5831	448+10.57 0.0	XG-2.5-08-25-15	25.80	18.2
5830	447+56.07 0.0	XG-2.5-12-25-15	25.80	17.8
5829	447+00.07 0.0	XG-2.5-08-25-15	25.80	17.2
5828	446+44.07 0.0	XG-2.5-08-25-15	25.80	15.9
5827	445+88.07 0.0	XG-2.5-18-30-15	25.80	14.3
5826	445+33.07 0.0	XG-2.5-08-25-15	25.80	15.9
5825	444+78.07 0.0	XG-2.5-08-25-15	25.80	16.3
5824	444+23.07 0.0	XG-2.5-08-25-15	25.80	17.3
5823	443+68.07 0.0	XG-2.5-08-25-15	25.80	17.6
5822	443+13.07 0.0	XG-2.5-08-25-15	25.80	17.7
5821	442+60.07 0.0	XG-2.5-08-25-15	25.80	17.7
5820	442+07.07 0.0	XG-2.5-08-25-15	25.73	17.6
5819	441+54.07 0.0	XG-2.5-08-25-15	25.60	17.7
5818	441+01.07 0.0	XG-2.5-08-25-15	25.47	17.6
5817	440+48.07 0.0	XG-2.5-08-25-15	25.33	17.5
5816	439+95.07 0.0	XG-2.5-08-25-15	25.20	17.3
5815	439+42.07 0.0	XG-2.5-08-25-15	25.06	17.4
5814	438+88.07 0.0	XG-2.5-08-25-15	24.93	17.4
5813	438+36.07 0.0	XG-2.5-08-25-15	24.80	17.2
5812	437+83.07 0.0	XG-2.5-08-25-15	24.73	17.3
5811	437+30.07 0.0	XG-2.5-12-25-15	24.73	17.6
5810	436+80.07 0.0	XS-08-12-25-15	24.73	17.4
5809	436+40.07 0.0	XS-08-12-25-15	24.73	17.2
5808	436+00.07 0.0	XS-08-12-25-15	24.73	17.1
5807	435+60.07 0.0	XS-08-12-25-15	24.73	16.9
5806	435+10.07 0.0	XG-2.5-12-25-15	24.73	16.6
5805	434+55.07 0.0	XG-2.5-12-25-15	24.73	16.6
5804	434+00.07 0.0	XG-2.5-08-25-15	24.67	16.5
5803	433+45.07 0.0	XG-2.5-08-25-15	24.54	16.0
5802	432+90.07 0.0	XG-2.5-08-25-15	24.41	16.1
5801	432+35.07 0.0	XG-2.5-08-25-15	24.29	18.8
5800	431+80.07 0.0	XG-2.5-08-25-15	24.18	16.9
5799	431+25.07 0.0	XG-2.5-08-25-15	24.04	18.7
5798	430+70.07 0.0	XG-2.5-08-25-15	23.97	16.6
5797	430+15.07 0.0	XG-2.5-08-25-15	23.97	16.6
5796	429+60.07 0.0	XG-2.5-08-25-15	23.97	16.7
5795	429+05.07 0.0	XG-2.5-08-25-15	23.97	16.7
5794	428+50.07 0.0	XG-2.5-08-25-15	23.97	16.5
5793	427+95.07 0.0	XG-2.5-08-25-15	23.97	16.4
5792	427+40.07 0.0	XG-2.5-08-25-15	23.97	16.7

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CASON 12-22-11 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 427+00 TO STA 459+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060016-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (21x36)

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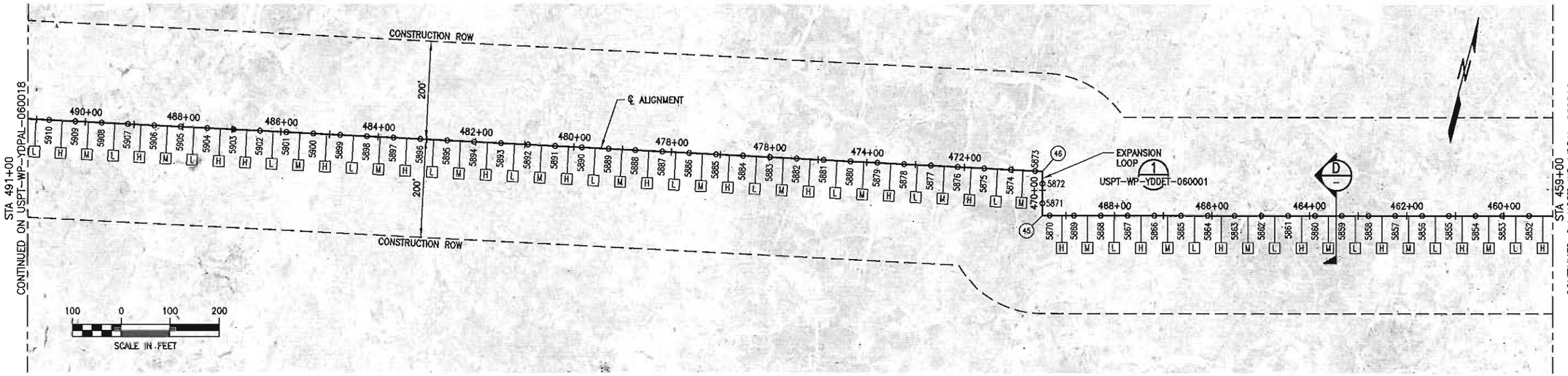


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
459+00 TO 491+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (f)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
45	PI	469+48.57	5908387.41	1564258.51	90.0°
46	PI	470+38.57	5908474.35	1564235.21	87.09°

PIPE SUPPORT IDENTIFICATION

VS-08-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

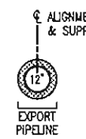
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

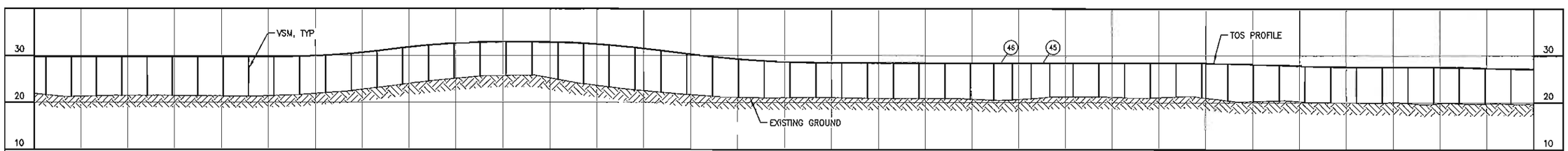
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- O GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (f) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
5910	490+74.57 0.0	XG-2.5-08-25-15	29.75	21.7
5909	490+20.57 0.0	XG-2.5-08-25-15	29.75	21.3
5908	489+66.57 0.0	XG-2.5-08-25-15	29.75	21.4
5907	489+12.57 0.0	XG-2.5-08-25-15	29.75	21.5
5906	488+58.57 0.0	XG-2.5-08-25-15	29.75	21.5
5905	488+04.57 0.0	XG-2.5-08-25-15	29.75	21.5
5904	487+50.57 0.0	XG-2.5-08-25-15	29.75	21.4
5903	486+96.57 0.0	XA-2.5-18-30-20	29.75	21.4
5902	486+42.57 0.0	XG-2.5-08-25-15	29.75	21.3
5901	485+88.57 0.0	XG-2.5-08-25-15	29.75	21.5
5900	485+33.57 0.0	XG-2.5-08-25-15	29.82	21.7
5899	484+78.57 0.0	XG-2.5-08-25-15	30.04	22.1
5898	484+23.57 0.0	XG-2.5-08-25-15	30.43	22.5
5897	483+68.57 0.0	XG-2.5-08-25-15	30.98	23.2
5896	483+13.57 0.0	XG-2.5-08-25-15	31.66	23.9
5895	482+58.57 0.0	XG-2.5-08-25-15	32.21	24.5
5894	482+03.57 0.0	XG-2.5-08-25-15	32.60	25.1
5893	481+48.57 0.0	XG-2.5-08-25-15	32.82	25.6
5892	480+93.57 0.0	XG-2.5-08-25-15	32.89	25.8
5891	480+38.57 0.0	XG-2.5-08-25-15	32.89	25.8
5890	479+83.57 0.0	XG-2.5-08-25-15	32.84	24.9
5889	479+28.57 0.0	XG-2.5-08-25-15	32.62	24.0
5888	478+73.57 0.0	XG-2.5-08-25-15	32.23	23.3
5887	478+18.57 0.0	XG-2.5-08-25-15	31.68	22.7
5886	477+63.57 0.0	XG-2.5-08-25-15	31.04	22.2
5885	477+08.57 0.0	XG-2.5-08-25-15	30.39	21.7
5884	476+53.57 0.0	XG-2.5-08-25-15	29.75	21.3
5883	475+98.57 0.0	XG-2.5-08-25-15	29.20	21.1
5882	475+43.57 0.0	XG-2.5-08-25-15	28.82	21.0
5881	474+88.57 0.0	XG-2.5-08-25-15	28.60	21.0
5880	474+33.57 0.0	XG-2.5-08-25-15	28.46	21.1
5879	473+78.57 0.0	XG-2.5-08-25-15	28.40	21.0
5878	473+23.57 0.0	XG-2.5-08-25-15	28.40	20.9
5877	472+68.57 0.0	XG-2.5-08-25-15	28.40	20.9
5876	472+13.57 0.0	XG-2.5-08-25-15	28.40	20.9
5875	471+58.57 0.0	XG-2.5-12-25-15	28.40	20.9
5874	471+03.57 0.0	XG-2.5-12-25-15	28.40	20.7
5873	470+53.57 0.0	XS-08-12-25-15	28.40	20.5
5872	470+13.57 0.0	XS-08-12-25-15	28.40	20.6
5871	469+73.57 0.0	XS-08-12-25-15	28.40	20.9
5870	469+33.57 0.0	XS-08-12-25-15	28.40	21.2
5869	468+83.57 0.0	XG-2.5-12-25-15	28.40	21.2
5868	468+28.57 0.0	XG-2.5-08-25-15	28.40	21.3
5867	467+73.57 0.0	XG-2.5-08-25-15	28.40	21.1
5866	467+18.57 0.0	XG-2.5-08-25-15	28.40	21.0
5865	466+63.57 0.0	XG-2.5-08-25-15	28.40	21.3
5864	466+08.57 0.0	XG-2.5-08-25-15	28.40	21.1
5863	465+53.57 0.0	XG-2.5-08-25-15	28.32	20.4
5862	464+98.57 0.0	XG-2.5-08-25-15	28.15	20.3
5861	464+43.57 0.0	XG-2.5-08-25-15	27.98	20.4
5860	463+88.57 0.0	XG-2.5-08-25-15	27.80	20.2
5859	463+33.57 0.0	XG-2.5-08-25-15	27.63	20.1
5858	462+78.57 0.0	XG-2.5-08-25-15	27.55	20.0
5857	462+23.57 0.0	XG-2.5-08-25-15	27.55	19.9
5856	461+68.57 0.0	XG-2.5-08-25-15	27.55	19.9
5855	461+13.57 0.0	XG-2.5-08-25-15	27.55	19.7
5854	460+58.57 0.0	XG-2.5-08-25-15	27.48	19.8
5853	460+03.57 0.0	XG-2.5-08-25-15	27.35	19.8
5852	459+48.57 0.0	XG-2.5-08-25-15	27.21	19.7

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARON CE 7733 12-28-11 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 459+00 TO STA 491+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060017-001 SHEET 1 of 1 REV 10

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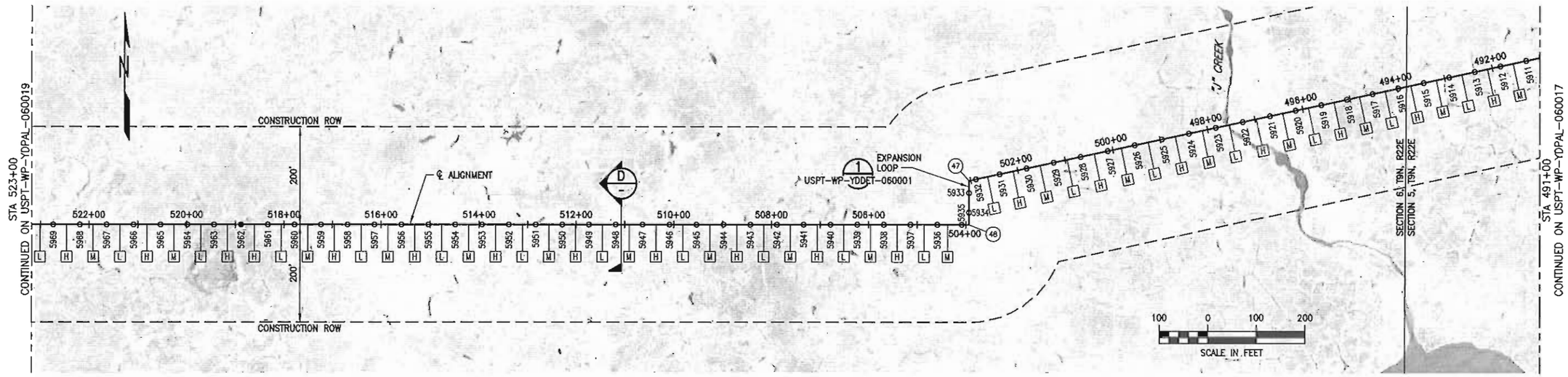


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
491+00 TO 523+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
47	PI	503+03.57	5907790.47	1561042.64	77.91°
48	PI	503+93.57	5907700.47	1561042.64	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

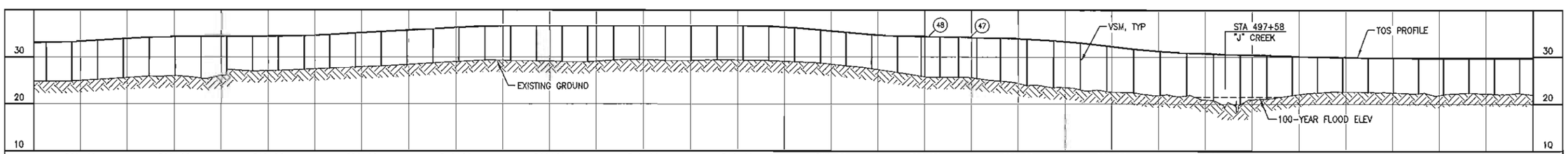
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
522+73.57	33.08	XG-2.5-08-25-15	0.0	5969	24.9
522+18.57	33.25	XG-2.5-08-25-15	0.0	5968	24.9
521+63.57	33.55	XG-2.5-08-25-15	0.0	5967	25.2
521+08.57	33.88	XG-2.5-08-25-15	0.0	5966	25.6
520+53.57	34.18	XG-2.5-08-25-15	0.0	5965	25.9
519+98.57	34.35	XG-2.5-08-25-15	0.0	5964	26.0
519+43.57	34.40	XG-2.5-08-25-15	0.0	5963	25.5
518+88.57	34.40	XA-2.5-18-30-20	0.0	5962	27.0
518+33.57	34.40	XG-2.5-08-25-15	0.0	5961	27.0
517+78.57	34.40	XG-2.5-08-25-15	0.0	5960	27.2
517+23.57	34.52	XG-2.5-08-25-15	0.0	5959	27.4
516+68.57	34.76	XG-2.5-08-25-15	0.0	5958	27.6
516+13.57	35.07	XG-2.5-08-25-15	0.0	5957	27.9
515+58.57	35.37	XG-2.5-08-25-15	0.0	5956	28.1
515+03.57	35.67	XG-2.5-08-25-15	0.0	5955	28.4
514+48.57	35.97	XG-2.5-08-25-15	0.0	5954	28.7
513+93.57	36.28	XG-2.5-08-25-15	0.0	5953	29.0
513+38.57	36.52	XG-2.5-08-25-15	0.0	5952	29.3
512+83.57	36.64	XG-2.5-08-25-15	0.0	5951	29.3
512+28.57	36.64	XG-2.5-08-25-15	0.0	5950	29.2
511+73.57	36.64	XG-2.5-08-25-15	0.0	5949	29.1
511+18.57	36.64	XG-2.5-08-25-15	0.0	5948	29.0
510+63.57	36.64	XG-2.5-08-25-15	0.0	5947	29.4
510+08.57	36.64	XG-2.5-08-25-15	0.0	5946	29.5
509+53.57	36.64	XG-2.5-08-25-15	0.0	5945	29.3
508+98.57	36.64	XG-2.5-08-25-15	0.0	5944	29.3
508+43.57	36.64	XG-2.5-08-25-15	0.0	5943	29.4
507+88.57	36.64	XG-2.5-08-25-15	0.0	5942	29.3
507+33.57	36.52	XG-2.5-08-25-15	0.0	5941	29.2
506+78.57	36.22	XG-2.5-08-25-15	0.0	5940	29.0
506+23.57	35.73	XG-2.5-08-25-15	0.0	5939	28.7
505+68.57	35.25	XG-2.5-08-25-15	0.0	5938	28.1
505+13.57	34.76	XG-2.5-12-25-15	0.0	5937	27.5
504+58.57	34.46	XG-2.5-12-25-15	0.0	5936	26.7
504+08.57	34.36	XS-08-12-25-15	0.0	5935	25.9
503+68.57	34.28	XS-08-12-25-15	0.0	5934	25.7
503+28.57	34.20	XS-08-12-25-15	0.0	5933	25.7
502+88.57	34.12	XS-08-12-25-15	0.0	5932	25.4
502+38.57	34.02	XG-2.5-12-25-15	0.0	5931	24.9
501+81.57	33.82	XG-2.5-12-25-15	0.0	5930	23.9
501+24.57	33.48	XG-2.5-12-25-15	0.0	5929	23.5
500+67.57	33.00	XG-2.5-08-25-15	0.0	5928	23.1
500+10.57	32.37	XG-2.5-08-25-15	0.0	5927	22.7
499+53.57	31.71	XG-2.5-08-25-15	0.0	5926	22.4
498+96.57	31.20	XG-2.5-08-25-15	0.0	5925	21.9
498+39.57	30.88	XG-2.5-08-25-15	0.0	5924	21.8
497+82.57	30.69	XG-2.5-08-25-15	0.0	5923	20.8
497+25.57	30.52	XG-2.5-08-25-15	0.0	5922	19.9
496+68.57	30.34	XG-2.5-08-25-15	0.0	5921	21.2
496+14.57	30.18	XG-2.5-08-25-15	0.0	5920	21.9
495+60.57	30.02	XG-2.5-08-25-15	0.0	5919	22.4
495+06.57	29.91	XG-2.5-08-25-15	0.0	5918	22.6
494+52.57	29.88	XG-2.5-08-25-15	0.0	5917	22.5
493+98.57	29.80	XG-2.5-08-25-15	0.0	5916	22.4
493+44.57	29.75	XG-2.5-08-25-15	0.0	5915	22.3
492+90.57	29.75	XG-2.5-08-25-15	0.0	5914	22.0
492+36.57	29.75	XG-2.5-08-25-15	0.0	5913	22.4
491+82.57	29.75	XG-2.5-08-25-15	0.0	5912	22.1
491+28.57	29.75	XG-2.5-08-25-15	0.0	5911	22.3

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. DARSOW CE 7735 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	TMC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 491+00 TO STA 523+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	JAO
	R. HOBBS	12/11	AS SHOWN	APPD	PAC

DRAWING NO. USPT-WP-YDPAL-060018-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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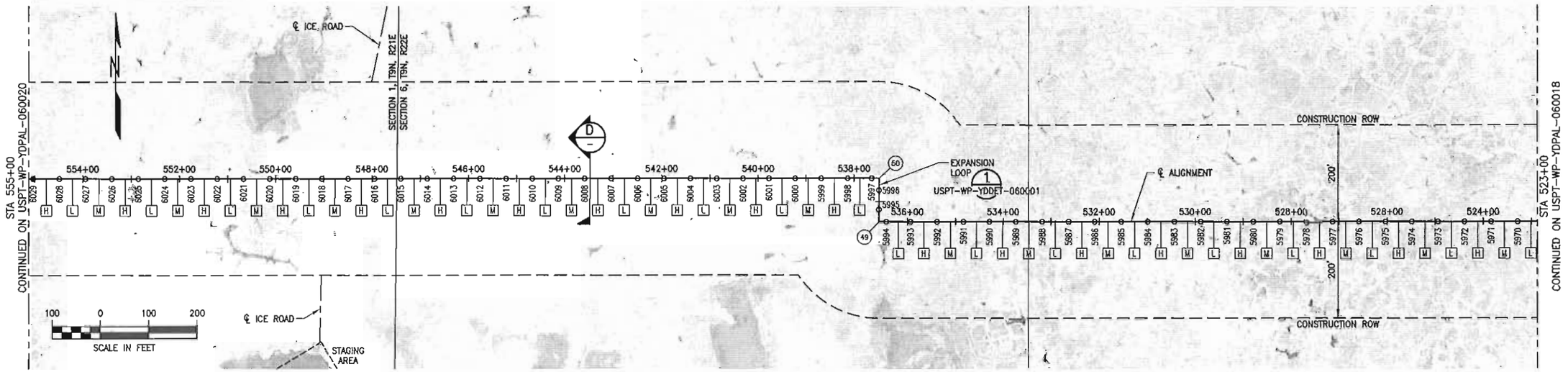


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
523+00 TO 555+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (PI)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
49	PI	536+58.57	5907700.43	1557777.64	90.0°
50	PI	537+48.57	5907790.43	1557777.64	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

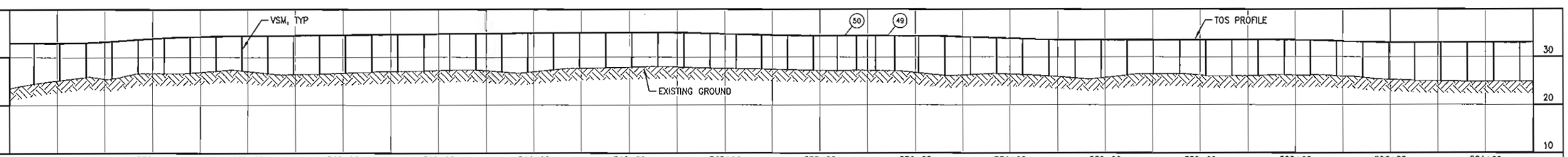
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWTV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (PI) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
554+48.57	32.96	XG-2.5-08-25-15	0.0	6028	24.5
553+94.07	32.96	XG-2.5-08-25-15	0.0	6027	25.2
553+39.57	33.07	XG-2.5-08-25-15	0.0	6026	25.9
552+85.07	33.31	XG-2.5-08-25-15	0.0	6025	25.6
552+30.57	33.72	XG-2.5-08-25-15	0.0	6024	26.6
551+76.07	34.05	XG-2.5-08-25-15	0.0	6023	26.6
551+21.57	34.26	XG-2.5-08-25-15	0.0	6022	26.7
550+67.07	34.37	XG-2.5-08-25-15	0.0	6021	27.1
550+12.57	34.43	XG-2.5-08-25-15	0.0	8020	27.2
549+58.07	34.48	XG-2.5-08-25-15	0.0	6019	26.6
549+03.57	34.54	XG-2.5-08-25-15	0.0	6018	26.4
548+49.07	34.59	XG-2.5-08-25-15	0.0	6017	26.5
547+94.57	34.65	XG-2.5-08-25-15	0.0	6016	26.7
547+40.07	34.70	XG-2.5-08-25-15	0.0	8015	27.0
546+85.57	34.76	XG-2.5-08-25-15	0.0	6014	27.1
546+31.07	34.81	XG-2.5-08-25-15	0.0	6013	27.1
545+76.57	34.86	XG-2.5-08-25-15	0.0	6012	27.3
545+22.07	34.92	XG-2.5-08-25-15	0.0	6011	27.4
544+67.57	34.97	XG-2.5-08-25-15	0.0	6010	26.9
544+13.07	35.03	XG-2.5-08-25-15	0.0	6009	26.9
543+58.57	35.08	XG-2.5-08-25-15	0.0	6008	27.4
543+04.07	35.14	XG-2.5-08-25-15	0.0	6007	27.7
542+49.57	35.14	XG-2.5-08-25-15	0.0	6006	27.8
541+95.07	35.14	XG-2.5-08-25-15	0.0	6005	27.9
541+40.57	35.14	XG-2.5-08-25-15	0.0	6004	28.0
540+86.07	35.08	XG-2.5-08-25-15	0.0	6003	27.9
540+31.57	34.95	XG-2.5-08-25-15	0.0	6002	27.7
539+77.07	34.78	XG-2.5-08-25-15	0.0	6001	27.6
539+22.57	34.62	XG-2.5-08-25-15	0.0	6000	27.5
538+68.07	34.48	XG-2.5-12-25-15	0.0	5999	27.4
538+13.57	34.43	XG-2.5-12-25-15	0.0	5998	27.3
537+63.57	34.43	XS-08-12-25-15	0.0	5997	27.2
537+23.57	34.43	XS-08-12-25-15	0.0	5996	27.2
536+83.57	34.43	XS-08-12-25-15	0.0	5995	27.2
536+43.57	34.43	XS-08-12-25-15	0.0	5994	27.1
535+93.57	34.43	XG-2.5-12-25-15	0.0	5993	26.7
535+38.57	34.33	XG-2.5-12-25-15	0.0	5992	26.1
534+83.57	34.17	XG-2.5-08-25-15	0.0	5991	26.3
534+28.57	34.00	XG-2.5-08-25-15	0.0	5990	26.6
533+73.57	33.84	XG-2.5-08-25-15	0.0	5989	26.3
533+18.57	33.67	XG-2.5-08-25-15	0.0	5988	26.0
532+63.57	33.58	XG-2.5-08-25-15	0.0	5987	25.6
532+08.57	33.58	XG-2.5-08-25-15	0.0	5986	25.7
531+53.57	33.58	XG-2.5-08-25-15	0.0	5985	26.2
530+98.57	33.58	XG-2.5-08-25-15	0.0	5984	28.5
530+43.57	33.58	XG-2.5-08-25-15	0.0	5983	26.5
529+88.57	33.58	XG-2.5-08-25-15	0.0	5982	26.1
529+33.57	33.58	XG-2.5-08-25-15	0.0	5981	26.1
528+78.57	33.58	XG-2.5-08-25-15	0.0	5980	26.1
528+23.57	33.58	XG-2.5-08-25-15	0.0	5979	26.3
527+68.57	33.49	XG-2.5-08-25-15	0.0	5978	26.2
527+13.57	33.30	XG-2.5-08-25-15	0.0	5977	26.0
526+58.57	33.11	XG-2.5-08-25-15	0.0	5976	25.7
526+03.57	33.03	XG-2.5-08-25-15	0.0	5975	25.3
525+48.57	33.03	XG-2.5-08-25-15	0.0	5974	25.1
524+93.57	33.03	XG-2.5-08-25-15	0.0	5973	25.0
524+38.57	33.03	XG-2.5-08-25-15	0.0	5972	24.9
523+83.57	33.03	XG-2.5-08-25-15	0.0	5971	24.9
523+28.57	33.03	XG-2.5-08-25-15	0.0	5970	24.9

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWTV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL L. HARMON CE 7733 12/22/11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	BSH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 523+00 TO STA 555+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060019-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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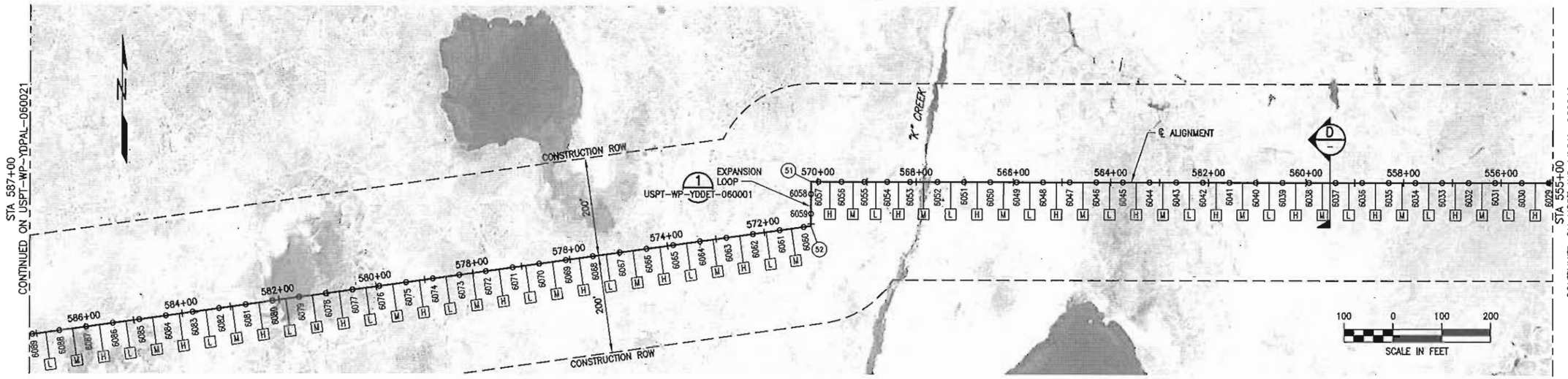


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
555+00 TO 587+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
51	PI	570+13.57	5907790.40	1554512.64	90.0°
52	PI	571+03.57	5907700.40	1554512.64	82.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

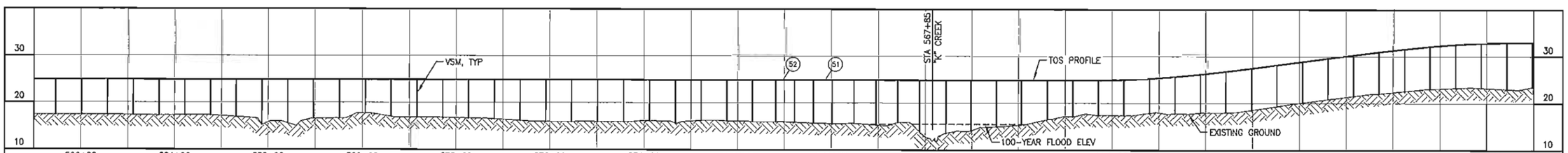
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
6088	586+53.57 0.0	XG-2.5-08-25-15	24.89	17.4
6087	585+98.57 0.0	XG-2.5-08-25-15	24.89	17.4
6086	585+43.57 0.0	XG-2.5-08-25-15	24.89	17.4
6085	584+88.57 0.0	XG-2.5-08-25-15	24.89	17.4
6084	584+33.57 0.0	XG-2.5-08-25-15	24.89	17.3
6083	583+78.57 0.0	XG-2.5-08-25-15	24.89	17.3
6082	583+23.57 0.0	XG-2.5-08-25-15	24.89	17.3
6081	582+68.57 0.0	XG-2.5-08-25-15	24.89	17.0
6080	582+13.57 0.0	XG-2.5-08-25-15	24.89	15.3
6079	581+58.57 0.0	XG-2.5-08-25-15	24.89	15.6
6078	581+03.57 0.0	XG-2.5-08-25-15	24.89	16.6
6077	580+48.57 0.0	XG-2.5-08-25-15	24.89	16.7
6076	579+93.57 0.0	XG-2.5-08-25-15	24.89	17.8
6075	579+38.57 0.0	XG-2.5-08-25-15	24.89	17.0
6074	578+83.57 0.0	XG-2.5-08-25-15	24.89	16.9
6073	578+28.57 0.0	XG-2.5-08-25-15	24.89	16.8
6072	577+73.57 0.0	XG-2.5-08-25-15	24.89	16.7
6071	577+18.57 0.0	XG-2.5-08-25-15	24.89	16.5
6070	576+63.57 0.0	XG-2.5-08-25-15	24.89	16.2
6069	576+08.57 0.0	XG-2.5-08-25-15	24.89	16.0
6068	575+53.57 0.0	XG-2.5-08-25-15	24.89	16.0
6067	574+98.57 0.0	XG-2.5-08-25-15	24.89	16.0
6066	574+43.57 0.0	XG-2.5-08-25-15	24.89	16.0
6065	573+88.57 0.0	XG-2.5-08-25-15	24.89	16.2
6064	573+33.57 0.0	XG-2.5-08-25-15	24.89	15.6
6063	572+78.57 0.0	XG-2.5-08-25-15	24.89	16.2
6062	572+23.57 0.0	XG-2.5-12-25-15	24.89	16.2
6061	571+68.57 0.0	XG-2.5-12-25-15	24.89	16.1
6060	571+18.57 0.0	XS-08-12-25-15	24.89	16.0
6059	570+78.57 0.0	XS-08-12-25-15	24.89	15.9
6058	570+38.57 0.0	XS-08-12-25-15	24.89	15.7
6057	569+98.57 0.0	XS-08-12-25-15	24.89	15.6
6056	569+52.07 0.0	XG-2.5-12-25-15	24.89	15.7
6055	569+05.57 0.0	XG-2.5-12-25-15	24.89	15.3
6054	568+59.07 0.0	XG-2.5-08-25-15	24.89	15.9
6053	568+12.57 0.0	XG-2.5-12-25-15	24.89	13.9
6052	567+56.57 0.0	XG-2.5-12-30-15	24.89	13.6
6051	567+02.07 0.0	XG-2.5-08-25-15	24.89	14.1
6050	566+47.57 0.0	XG-2.5-08-25-15	24.89	15.0
6049	565+93.07 0.0	XG-2.5-08-25-15	24.89	15.4
6048	565+38.57 0.0	XG-2.5-08-25-15	24.89	16.5
6047	564+84.07 0.0	XG-2.5-08-25-15	24.89	17.2
6046	564+29.57 0.0	XG-2.5-08-25-15	24.89	17.4
6045	563+75.07 0.0	XG-2.5-08-25-15	25.00	17.4
6044	563+20.57 0.0	XG-2.5-08-25-15	25.24	17.9
6043	562+66.07 0.0	XG-2.5-08-25-15	25.65	17.8
6042	562+11.57 0.0	XG-2.5-08-25-15	26.20	18.0
6041	561+57.07 0.0	XG-2.5-08-25-15	26.80	18.0
6040	561+02.57 0.0	XG-2.5-08-25-15	27.48	18.6
6039	560+48.07 0.0	XG-2.5-08-25-15	28.19	19.4
6038	559+93.57 0.0	XG-2.5-08-25-15	28.90	20.2
6037	559+39.07 0.0	XG-2.5-08-25-15	29.60	20.9
6036	558+84.57 0.0	XG-2.5-08-25-15	30.31	21.6
6035	558+30.07 0.0	XG-2.5-08-25-15	30.99	22.1
6034	557+75.57 0.0	XG-2.5-08-25-15	31.59	22.6
6033	557+21.07 0.0	XG-2.5-08-25-15	32.14	23.1
6032	556+66.57 0.0	XG-2.5-08-25-15	32.58	23.3
6031	556+12.07 0.0	XG-2.5-08-25-15	32.85	23.3
6030	555+57.57 0.0	XG-2.5-08-25-15	32.96	23.0
6029	555+03.07 0.0	XA-2.5-18-30-20	32.96	23.5

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. EIBSON — 12234 — REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION		JAG	PAC	GUP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 555+00 TO STA 587+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060020-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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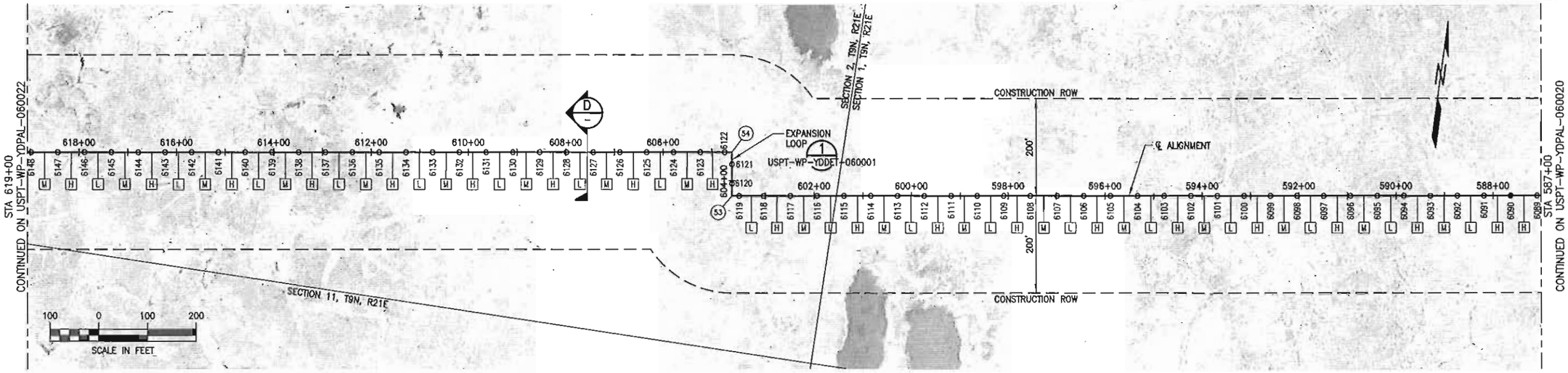


PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
587+00 TO 619+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE

POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
53	PI	603+68.57	5907245.96	1551279.42	90.0°
54	PI	604+58.57	5907335.09	1551266.89	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

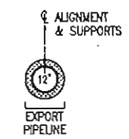
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-UN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNEO VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

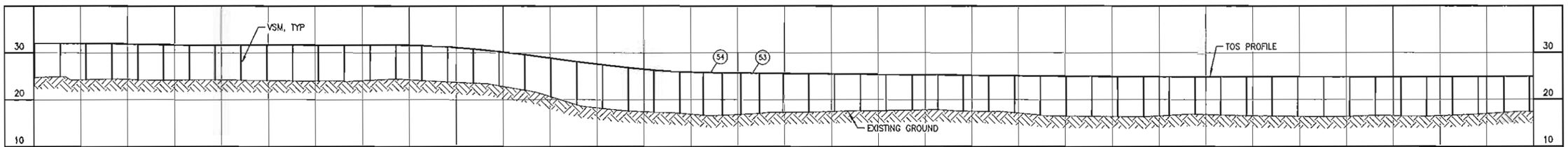
LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



(D) TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	GROUND ELEV (FT)	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)
6148	24.8	32.03	XG-2.5-08-25-15	618+98.57 0.0
6147	25.0	32.03	XG-2.5-08-25-15	618+43.57 0.0
6146	24.3	32.03	XG-2.5-08-25-15	617+88.57 0.0
6145	24.4	31.95	XG-2.5-08-25-15	617+33.57 0.0
6144	24.3	31.84	XG-2.5-08-25-15	616+78.57 0.0
6143	24.2	31.73	XG-2.5-08-25-15	616+23.57 0.0
6142	24.2	31.64	XG-2.5-08-25-15	615+68.57 0.0
6141	24.3	31.64	XG-2.5-08-25-15	615+13.57 0.0
6140	24.2	31.64	XG-2.5-08-25-15	614+58.57 0.0
6139	24.1	31.64	XG-2.5-08-25-15	614+03.57 0.0
6138	24.0	31.64	XG-2.5-08-25-15	613+48.57 0.0
6137	24.0	31.64	XG-2.5-08-25-15	612+93.57 0.0
6136	23.9	31.64	XG-2.5-08-25-15	612+38.57 0.0
6135	24.2	31.64	XG-2.5-08-25-15	611+83.57 0.0
6134	24.4	31.64	XG-2.5-08-25-15	611+28.57 0.0
6133	24.1	31.56	XG-2.5-08-25-15	610+73.57 0.0
6132	23.8	31.29	XG-2.5-08-25-15	610+18.57 0.0
6131	23.6	30.82	XG-2.5-08-25-15	609+63.57 0.0
6130	23.0	30.27	XG-2.5-08-25-15	609+08.57 0.0
6129	22.0	29.61	XG-2.5-08-25-15	608+53.57 0.0
6128	20.6	28.87	XG-2.5-08-25-15	607+98.57 0.0
6127	18.9	28.12	XG-2.5-08-25-15	607+43.57 0.0
6126	18.2	27.46	XG-2.5-08-25-15	606+88.57 0.0
6125	17.6	26.83	XG-2.5-08-25-15	606+33.57 0.0
6124	17.4	26.31	XG-2.5-12-25-15	605+78.57 0.0
6123	17.1	25.95	XG-2.5-12-25-15	605+23.57 0.0
6122	16.7	25.78	XG-2.5-12-25-15	604+73.57 0.0
6121	16.7	25.74	XS-08-12-25-15	604+33.57 0.0
6120	16.9	25.70	XS-08-12-25-15	603+93.57 0.0
6119	17.1	25.66	XS-08-12-25-15	603+53.57 0.0
6118	17.3	25.61	XG-2.5-12-25-15	603+03.57 0.0
6117	17.4	25.55	XG-2.5-12-25-15	602+48.57 0.0
6116	17.5	25.50	XG-2.5-08-25-15	601+93.57 0.0
6115	17.7	25.44	XG-2.5-08-25-15	601+38.57 0.0
6114	17.7	25.39	XG-2.5-08-25-15	600+83.57 0.0
6113	17.8	25.33	XG-2.5-08-25-15	600+28.57 0.0
6112	17.9	25.28	XG-2.5-08-25-15	599+73.57 0.0
6111	17.6	25.22	XG-2.5-08-25-15	599+18.57 0.0
6110	17.5	25.17	XG-2.5-08-25-15	598+63.57 0.0
6109	17.2	25.11	XG-2.5-08-25-15	598+08.57 0.0
6108	16.7	25.06	XG-2.5-08-25-15	597+53.57 0.0
6107	16.5	25.00	XG-2.5-08-25-15	596+98.57 0.0
6106	16.5	24.95	XG-2.5-08-25-15	596+43.57 0.0
6105	16.4	24.89	XG-2.5-08-25-15	595+88.57 0.0
6104	16.4	24.89	XG-2.5-08-25-15	595+33.57 0.0
6103	16.7	24.89	XG-2.5-08-25-15	594+78.57 0.0
6102	16.9	24.89	XG-2.5-08-25-15	594+23.57 0.0
6101	16.7	24.89	XG-2.5-08-25-15	593+68.57 0.0
6100	16.6	24.89	XG-2.5-08-25-15	593+13.57 0.0
6099	16.5	24.89	XG-2.5-08-25-15	592+58.57 0.0
6098	16.4	24.89	XG-2.5-08-25-15	592+03.57 0.0
6097	16.4	24.89	XG-2.5-08-25-15	591+48.57 0.0
6096	16.5	24.89	XG-2.5-08-25-15	590+93.57 0.0
6095	16.6	24.89	XG-2.5-08-25-15	590+38.57 0.0
6094	16.6	24.89	XG-2.5-08-25-15	589+83.57 0.0
6093	16.5	24.89	XG-2.5-08-25-15	589+28.57 0.0
6092	16.7	24.89	XG-2.5-08-25-15	588+73.57 0.0
6091	16.9	24.89	XG-2.5-08-25-15	588+18.57 0.0
6090	17.2	24.89	XA-2.5-18-30-20	587+63.57 0.0
6089	17.4	24.89	XG-2.5-08-25-15	587+08.57 0.0

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAQ	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 587+00 TO STA 619+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAQ / PAC

DRAWING NO. USPT-WP-YDPAL-060021-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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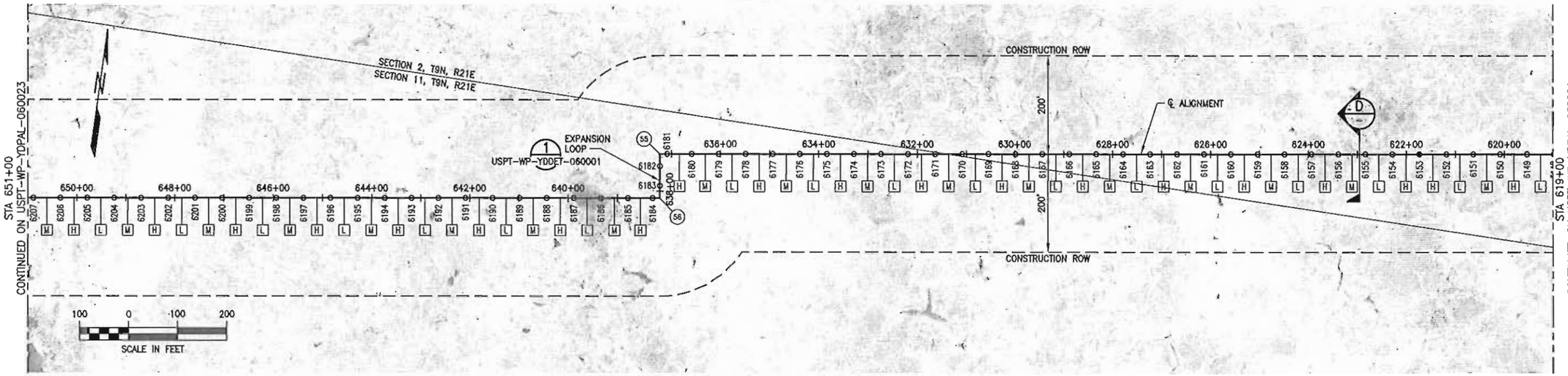


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
619+00 TO 651+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (f)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
55	PI	637+23.57	5906880.65	1548033.67	90.0°
56	PI	638+13.57	5906791.53	1548046.20	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX
- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

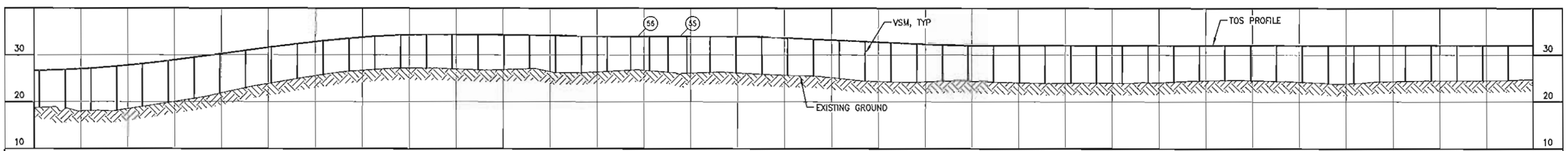
SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND
- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (f) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
650+00	26.89	XG-2.5-08-25-15	650+88.57 0.0	6207	18.8
648+00	28.87	XG-2.5-08-25-15	650+33.57 0.0	6206	18.6
646+00	27.14	XG-2.5-08-25-15	649+78.57 0.0	6205	18.1
644+00	27.58	XG-2.5-08-25-15	649+23.57 0.0	6204	18.2
642+00	28.13	XG-2.5-08-25-15	648+68.57 0.0	6203	19.0
640+00	28.77	XG-2.5-08-25-15	648+13.57 0.0	6202	19.8
638+00	29.45	XG-2.5-08-25-15	647+58.57 0.0	6201	20.7
636+00	30.20	XG-2.5-08-25-15	647+03.57 0.0	6200	21.8
634+00	30.94	XG-2.5-08-25-15	646+48.57 0.0	6199	23.0
632+00	31.68	XG-2.5-08-25-15	645+93.57 0.0	6198	24.0
630+00	32.37	XG-2.5-08-25-15	645+38.57 0.0	6197	25.0
628+00	33.00	XG-2.5-08-25-15	644+83.57 0.0	6196	25.8
626+00	33.55	XG-2.5-08-25-15	644+28.57 0.0	6195	26.5
624+00	33.99	XG-2.5-08-25-15	643+73.57 0.0	6194	26.9
622+00	34.27	XG-2.5-08-25-15	643+18.57 0.0	6193	27.2
620+00	34.38	XG-2.5-08-25-15	642+63.57 0.0	6192	27.2
	34.38	XG-2.5-08-25-15	642+08.57 0.0	6191	27.1
	34.38	XG-2.5-08-25-15	641+53.57 0.0	6190	26.8
	34.29	XG-2.5-08-25-15	640+98.57 0.0	6189	26.9
	34.21	XG-2.5-08-25-15	640+43.57 0.0	6188	27.1
	34.13	XG-2.5-08-25-15	639+88.57 0.0	6187	26.2
	34.05	XG-2.5-12-25-15	639+33.57 0.0	6186	25.2
	33.96	XG-2.5-12-25-15	638+78.57 0.0	6185	25.5
	33.96	XS-08-12-25-15	638+28.57 0.0	6184	26.8
	33.96	XS-08-12-25-15	637+88.57 0.0	6183	26.6
	33.96	XS-08-12-25-15	637+48.57 0.0	6182	26.3
	33.96	XS-08-12-25-15	637+08.57 0.0	6181	26.1
	33.96	XG-2.5-12-25-15	636+58.57 0.0	6180	26.3
	33.96	XG-2.5-12-25-15	636+03.57 0.0	6179	26.2
	33.84	XG-2.5-08-25-15	635+48.57 0.0	6178	25.9
	33.60	XG-2.5-08-25-15	634+93.57 0.0	6177	25.7
	33.36	XG-2.5-08-25-15	634+38.57 0.0	6176	25.5
	33.12	XG-2.5-08-25-15	633+83.57 0.0	6175	25.0
	32.88	XG-2.5-08-25-15	633+28.57 0.0	6174	24.5
	32.63	XG-2.5-08-25-15	632+73.57 0.0	6173	24.3
	32.29	XG-2.5-08-25-15	632+18.57 0.0	6172	24.2
	32.15	XG-2.5-08-25-15	631+63.57 0.0	6171	24.4
	32.03	XG-2.5-08-25-15	631+08.57 0.0	6170	24.4
	32.03	XG-2.5-08-25-15	630+53.57 0.0	6169	24.2
	32.03	XG-2.5-08-25-15	629+98.57 0.0	6168	24.1
	32.03	XG-2.5-08-25-15	629+43.57 0.0	6167	24.0
	32.03	XG-2.5-08-25-15	628+88.57 0.0	6166	24.0
	32.03	XG-2.5-08-25-15	628+33.57 0.0	6165	24.0
	32.03	XG-2.5-08-25-15	627+78.57 0.0	6164	24.0
	32.03	XG-2.5-08-25-15	627+23.57 0.0	6163	24.1
	32.03	XG-2.5-08-25-15	626+68.57 0.0	6162	24.3
	32.03	XG-2.5-08-25-15	626+13.57 0.0	6161	24.5
	32.03	XG-2.5-08-25-15	625+58.57 0.0	6160	24.6
	32.03	XG-2.5-08-25-15	625+03.57 0.0	6159	24.6
	32.03	XG-2.5-08-25-15	624+48.57 0.0	6158	24.4
	32.03	XG-2.5-08-25-15	623+93.57 0.0	6157	24.2
	32.03	XG-2.5-08-25-15	623+38.57 0.0	6156	23.9
	32.03	XG-2.5-08-25-15	622+83.57 0.0	6155	23.9
	32.03	XG-2.5-08-25-15	622+28.57 0.0	6154	24.3
	32.03	XA-2.5-18-30-20	621+73.57 0.0	6153	24.4
	32.03	XG-2.5-08-25-15	621+18.57 0.0	6152	24.5
	32.03	XG-2.5-08-25-15	620+63.57 0.0	6151	24.5
	32.03	XG-2.5-08-25-15	620+08.57 0.0	6150	24.5
620+00	32.03	XG-2.5-08-25-15	619+53.57 0.0	6149	24.6

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 619+00 TO STA 651+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060022-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060022-001

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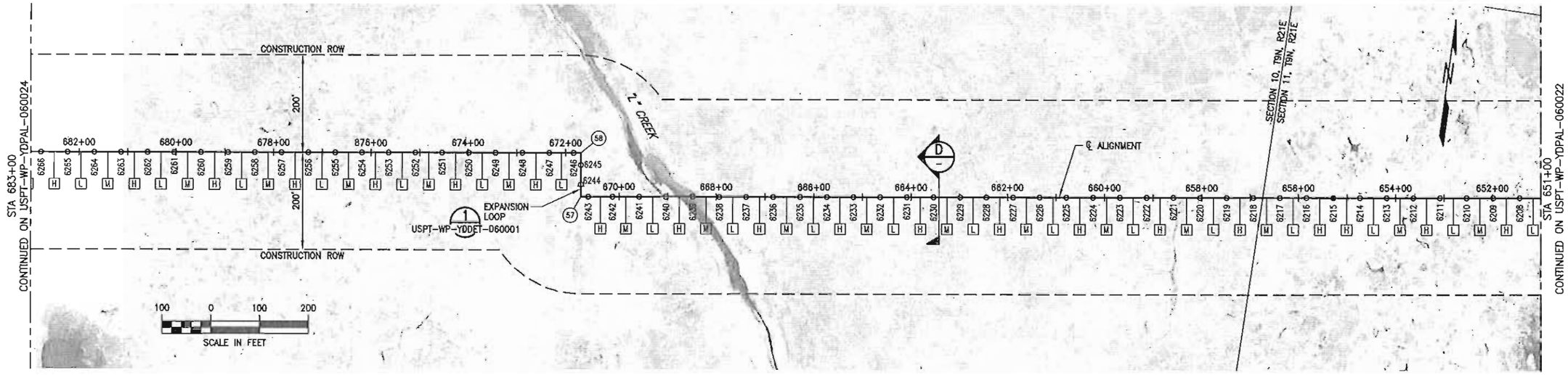


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
651+00 TO 683+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (#)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
57	PI	670+78.57	5906337.10	1544812.98	90.0°
58	PI	671+68.57	5906426.22	1544800.45	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

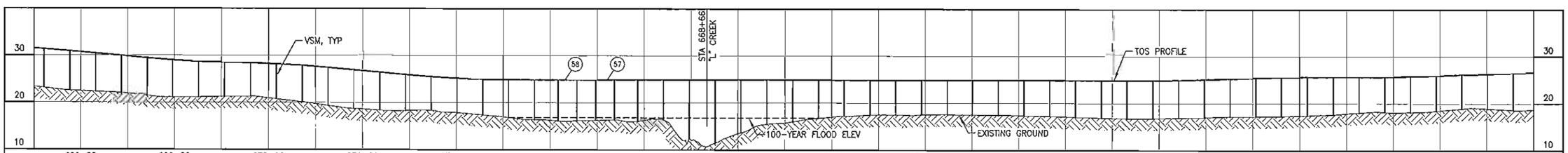
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWTV-D60001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (#) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
6266	682+78.57 0.0	XG-2.5-08-25-15	31.35	23.1
6265	682+23.57 0.0	XG-2.5-08-25-15	30.91	22.6
6264	681+68.57 0.0	XG-2.5-08-25-15	30.41	22.3
6263	681+13.57 0.0	XG-2.5-08-25-15	29.92	22.0
6262	680+58.57 0.0	XG-2.5-08-25-15	29.42	21.5
6261	680+03.57 0.0	XG-2.5-08-25-15	28.98	21.1
6260	679+48.57 0.0	XG-2.5-08-25-15	28.68	21.2
6259	678+93.57 0.0	XG-2.5-08-25-15	28.54	21.2
6258	678+38.57 0.0	XG-2.5-08-25-15	28.41	21.3
6257	677+83.57 0.0	XG-2.5-08-25-15	28.19	20.8
6256	677+28.57 0.0	XG-2.5-08-25-15	27.88	20.1
6255	676+73.57 0.0	XG-2.5-08-25-15	27.44	19.4
6254	676+18.57 0.0	XG-2.5-08-25-15	26.95	18.7
6253	675+63.57 0.0	XG-2.5-08-25-15	26.45	18.4
6252	675+08.57 0.0	XG-2.5-08-25-15	25.96	18.3
6251	674+53.57 0.0	XG-2.5-08-25-15	25.52	18.4
6250	673+98.57 0.0	XG-2.5-08-25-15	25.16	17.9
6249	673+43.57 0.0	XG-2.5-08-25-15	24.94	17.4
6248	672+88.57 0.0	XG-2.5-12-25-15	24.86	16.9
6247	672+33.57 0.0	XG-2.5-12-25-15	24.86	16.4
6246	671+83.57 0.0	XS-08-12-25-15	24.86	16.1
6245	671+43.57 0.0	XS-08-12-25-15	24.86	16.2
6244	671+03.57 0.0	XS-08-12-25-15	24.86	16.3
6243	670+63.57 0.0	XS-08-12-25-15	24.86	16.4
6242	670+13.57 0.0	XG-2.5-12-25-15	24.86	16.1
6241	669+58.57 0.0	XG-2.5-12-25-15	24.86	16.4
6240	669+03.57 0.0	XG-2.5-18-35-23	24.86	12.4
6239	668+48.57 0.0	XG-2.5-18-30-15	24.86	11.5
6238	667+93.57 0.0	XG-2.5-12-30-15	24.86	13.7
6237	667+38.57 0.0	XG-2.5-08-25-15	24.86	15.5
6236	666+83.57 0.0	XG-2.5-09-25-15	24.86	16.0
6235	666+28.57 0.0	XG-2.5-08-25-15	24.86	16.8
6234	665+73.57 0.0	XG-2.5-08-25-15	24.86	17.2
6233	665+18.57 0.0	XG-2.5-08-25-15	24.86	17.5
6232	664+63.57 0.0	XG-2.5-08-25-15	24.86	17.5
6231	664+08.57 0.0	XG-2.5-08-25-15	24.86	17.6
6230	663+53.57 0.0	XG-2.5-09-25-15	24.86	17.6
6229	662+98.57 0.0	XG-2.5-09-25-15	24.86	17.5
6228	662+43.57 0.0	XG-2.5-08-25-15	24.86	17.5
6227	661+88.57 0.0	XG-2.5-08-25-15	24.86	17.4
6226	661+33.57 0.0	XG-2.5-08-25-15	24.86	17.3
6225	660+78.57 0.0	XG-2.5-08-25-15	24.86	17.1
6224	660+23.57 0.0	XG-2.5-08-25-15	24.86	16.9
6223	659+68.57 0.0	XG-2.5-08-25-15	24.86	16.8
6222	659+13.57 0.0	XG-2.5-08-25-15	24.86	16.8
6221	658+58.57 0.0	XG-2.5-08-25-15	24.94	16.9
6220	658+03.57 0.0	XG-2.5-08-25-15	25.11	17.1
6219	657+48.57 0.0	XG-2.5-08-25-15	25.27	17.2
6218	656+93.57 0.0	XG-2.5-08-25-15	25.44	17.3
6217	656+38.57 0.0	XG-2.5-08-25-15	25.60	17.3
6216	655+83.57 0.0	XG-2.5-08-25-15	25.68	17.5
6215	655+28.57 0.0	XG-2.5-08-25-15	25.68	17.7
6214	654+73.57 0.0	XG-2.5-08-25-15	25.68	18.1
6213	654+18.57 0.0	XG-2.5-08-25-15	25.68	18.2
6212	653+63.57 0.0	XG-2.5-08-25-15	25.78	18.2
6211	653+08.57 0.0	XG-2.5-08-25-15	25.95	18.5
6210	652+53.57 0.0	XG-2.5-08-25-15	26.14	18.9
6209	651+98.57 0.0	XG-2.5-08-25-15	26.32	18.9
6208	651+43.57 0.0	XG-2.5-08-25-15	26.51	18.6

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWTV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSH — 12-22-11 — REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GWP

ExxonMobil Development

WorleyParsons RESOURCES & ENERGY — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 651+00 TO STA 683+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060023-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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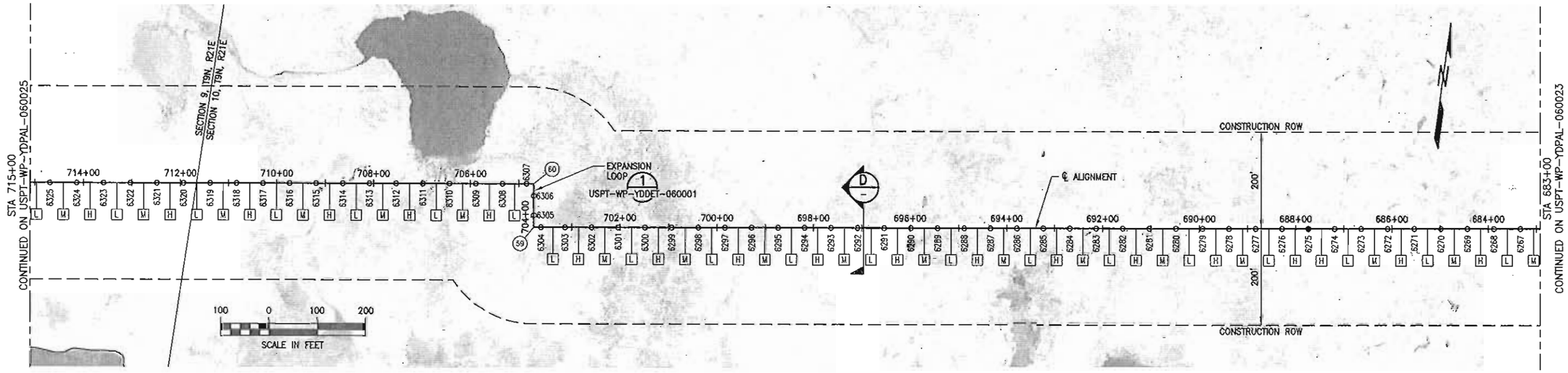


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
683+00 TO 715+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
59	PI	703+78.57	5905979.44	1541621.70	90.0°
60	PI	704+68.57	5906068.56	1541609.17	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VS — VERTICAL SUPPORT
- 06 — LOCATION CODE
- 704 — UNIT/MODULE
- XXXX — SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

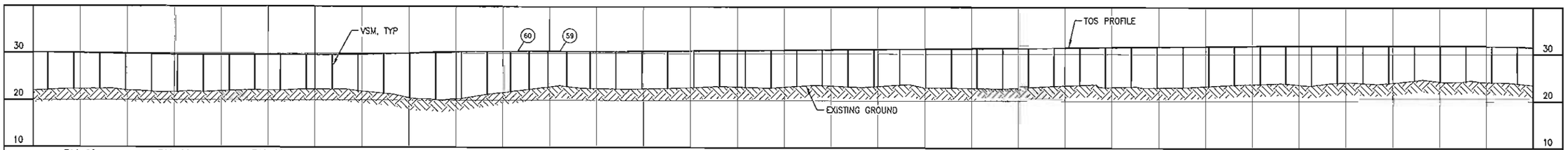
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME6EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	GROUND ELEV (FT)
6325	30.11	XG-2.5-08-25-15	714+68.57 0.0	22.2
6324	30.03	XG-2.5-08-25-15	714+13.57 0.0	22.4
6323	29.95	XG-2.5-08-25-15	713+58.57 0.0	22.4
6322	29.86	XG-2.5-08-25-15	713+03.57 0.0	22.1
6321	29.78	XG-2.5-08-25-15	712+48.57 0.0	21.8
6320	29.70	XG-2.5-08-25-15	711+93.57 0.0	21.8
6319	29.70	XG-2.5-08-25-15	711+38.57 0.0	21.8
6318	29.70	XG-2.5-08-25-15	710+83.57 0.0	22.0
6317	29.70	XG-2.5-08-25-15	710+28.57 0.0	22.2
6316	29.70	XG-2.5-08-25-15	709+73.57 0.0	22.1
6315	29.70	XG-2.5-08-25-15	709+18.57 0.0	22.3
6314	29.70	XG-2.5-08-25-15	708+63.57 0.0	22.3
6313	29.78	XG-2.5-08-25-15	708+08.57 0.0	22.0
6312	29.92	XG-2.5-08-25-15	707+53.57 0.0	21.5
6311	30.06	XG-2.5-08-25-15	706+98.57 0.0	20.5
6310	30.19	XG-2.5-12-25-15	706+43.57 0.0	20.1
6309	30.33	XG-2.5-12-25-15	705+88.57 0.0	20.4
6308	30.41	XG-2.5-12-25-15	705+33.57 0.0	21.3
6307	30.41	XS-08-12-25-15	704+83.57 0.0	21.8
6308	30.41	XS-08-12-25-15	704+43.57 0.0	22.4
6305	30.41	XS-08-12-25-15	704+03.57 0.0	22.8
6304	30.41	XS-08-12-25-15	703+63.57 0.0	23.0
6303	30.41	XG-2.5-12-25-15	703+13.57 0.0	22.6
6302	30.41	XG-2.5-12-25-15	702+58.57 0.0	22.5
6301	30.47	XG-2.5-08-25-15	702+03.57 0.0	22.5
6300	30.52	XG-2.5-08-25-15	701+48.57 0.0	22.6
6299	30.58	XG-2.5-08-25-15	700+93.57 0.0	22.8
6298	30.63	XG-2.5-08-25-15	700+38.57 0.0	23.0
6297	30.69	XG-2.5-08-25-15	699+83.57 0.0	22.9
6296	30.74	XG-2.5-08-25-15	699+28.57 0.0	22.7
6295	30.80	XG-2.5-08-25-15	698+73.57 0.0	23.1
6294	30.85	XG-2.5-08-25-15	698+18.57 0.0	23.3
6293	30.91	XG-2.5-08-25-15	697+63.57 0.0	23.0
6292	30.96	XG-2.5-08-25-15	697+08.57 0.0	23.0
6291	31.02	XG-2.5-08-25-15	696+53.57 0.0	23.4
6290	31.07	XG-2.5-08-25-15	695+98.57 0.0	22.8
6289	31.13	XG-2.5-08-25-15	695+43.57 0.0	22.8
6288	31.18	XG-2.5-08-25-15	694+88.57 0.0	22.7
6287	31.24	XG-2.5-08-25-15	694+33.57 0.0	22.6
6286	31.29	XG-2.5-08-25-15	693+78.57 0.0	22.9
6285	31.35	XG-2.5-08-25-15	693+23.57 0.0	23.2
6284	31.40	XG-2.5-08-25-15	692+68.57 0.0	23.4
6283	31.46	XG-2.5-08-25-15	692+13.57 0.0	22.9
6282	31.51	XG-2.5-08-25-15	691+58.57 0.0	23.1
6281	31.57	XG-2.5-08-25-15	691+03.57 0.0	22.9
6280	31.62	XG-2.5-08-25-15	690+48.57 0.0	23.0
6279	31.68	XG-2.5-08-25-15	689+93.57 0.0	23.2
6278	31.73	XG-2.5-08-25-15	689+38.57 0.0	23.5
6277	31.79	XG-2.5-08-25-15	688+83.57 0.0	23.7
6276	31.84	XG-2.5-08-25-15	688+28.57 0.0	23.8
6275	31.84	XA-2.5-18-30-20	687+73.57 0.0	23.4
6274	31.84	XG-2.5-08-25-15	687+18.57 0.0	23.9
6273	31.84	XG-2.5-08-25-15	686+63.57 0.0	23.9
6272	31.84	XG-2.5-08-25-15	686+08.57 0.0	23.9
6271	31.84	XG-2.5-08-25-15	685+53.57 0.0	24.4
6270	31.84	XG-2.5-08-25-15	684+98.57 0.0	24.2
6269	31.84	XG-2.5-08-25-15	684+43.57 0.0	24.3
6268	31.79	XG-2.5-08-25-15	683+88.57 0.0	24.0
6267	31.65	XG-2.5-08-25-15	683+33.57 0.0	23.8

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARGO — 12-22-11 — PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 683+00 TO STA 715+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060024-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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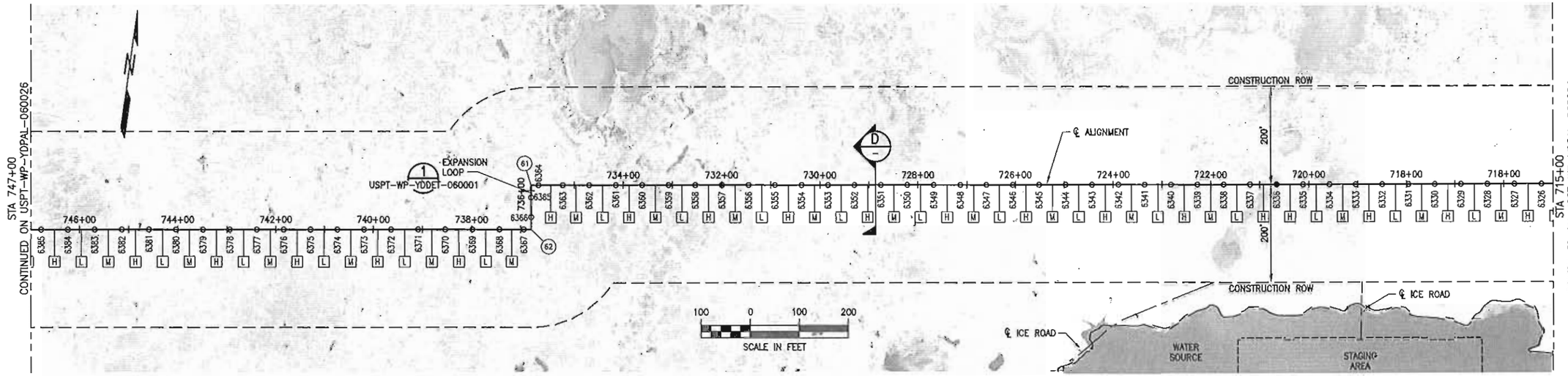


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
715+00 TO 747+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
61	PI	735+88.57	5905634.31	1538519.54	90.0°
62	PI	736+78.57	5905545.19	1538532.06	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

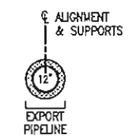
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

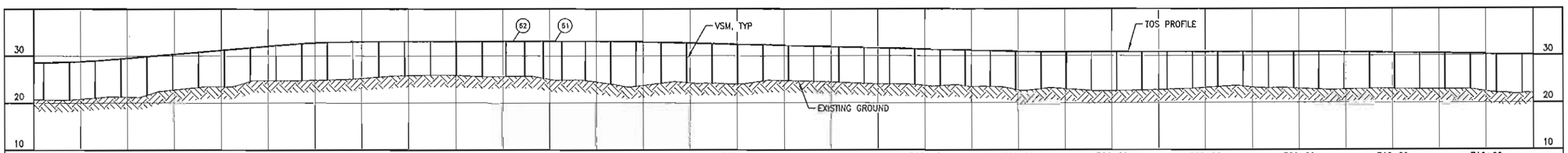
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
746+00	28.58	XG-2.5-08-25-15	746+78.57 0.0	6385	20.7
746+00	28.72	XG-2.5-08-25-15	746+23.57 0.0	6384	20.6
746+00	28.99	XG-2.5-08-25-15	745+68.57 0.0	6383	21.1
745+00	29.41	XG-2.5-08-25-15	745+13.57 0.0	6382	21.3
745+00	29.87	XG-2.5-08-25-15	744+58.57 0.0	6381	21.6
744+00	30.34	XG-2.5-08-25-15	744+03.57 0.0	6380	22.8
744+00	30.81	XG-2.5-08-25-15	743+48.57 0.0	6379	23.3
743+00	31.28	XG-2.5-08-25-15	742+93.57 0.0	6378	23.5
743+00	31.74	XG-2.5-08-25-15	742+38.57 0.0	6377	24.6
742+00	32.21	XG-2.5-08-25-15	741+83.57 0.0	6376	24.8
742+00	32.62	XG-2.5-08-25-15	741+28.57 0.0	6375	24.8
741+00	32.90	XG-2.5-08-25-15	740+73.57 0.0	6374	24.9
741+00	33.04	XG-2.5-08-25-15	740+18.57 0.0	6373	25.1
740+00	33.09	XG-2.5-08-25-15	739+63.57 0.0	6372	25.5
740+00	33.09	XG-2.5-08-25-15	739+08.57 0.0	6371	25.8
739+00	33.09	XG-2.5-08-25-15	738+53.57 0.0	6370	25.9
739+00	33.09	XG-2.5-08-25-15	737+98.57 0.0	6369	25.8
738+00	33.09	XG-2.5-12-25-15	737+43.57 0.0	6368	25.6
738+00	33.09	XS-08-12-25-15	736+93.57 0.0	6367	25.7
737+00	33.09	XS-08-12-25-15	736+53.57 0.0	6366	25.7
737+00	33.09	XS-08-12-25-15	736+13.57 0.0	6365	25.3
736+00	33.09	XS-08-12-25-15	735+73.57 0.0	6364	24.8
736+00	33.09	XS-08-12-25-15	735+23.57 0.0	6363	24.7
735+00	33.09	XG-2.5-12-25-15	734+69.57 0.0	6362	24.0
735+00	33.09	XG-2.5-12-25-15	734+15.57 0.0	6361	23.6
734+00	33.02	XG-2.5-08-25-15	733+61.57 0.0	6360	24.2
734+00	32.88	XG-2.5-08-25-15	733+07.57 0.0	6359	24.3
733+00	32.74	XG-2.5-08-25-15	732+53.57 0.0	6358	24.2
733+00	32.60	XG-2.5-08-25-15	731+99.57 0.0	6357	24.0
732+00	32.46	XG-2.5-09-25-15	731+45.57 0.0	6356	24.6
732+00	32.32	XG-2.5-08-25-15	730+91.57 0.0	6355	24.7
731+00	32.18	XG-2.5-08-25-15	730+37.57 0.0	6354	24.6
731+00	32.04	XG-2.5-08-25-15	729+83.57 0.0	6353	24.4
730+00	31.90	XG-2.5-08-25-15	729+29.57 0.0	6352	24.1
730+00	31.76	XG-2.5-08-25-15	728+75.57 0.0	6351	24.0
729+00	31.62	XG-2.5-08-25-15	728+21.57 0.0	6350	23.9
729+00	31.48	XG-2.5-08-25-15	727+67.57 0.0	6349	23.6
728+00	31.34	XG-2.5-08-25-15	727+13.57 0.0	6348	23.6
728+00	31.20	XG-2.5-08-25-15	726+59.57 0.0	6347	23.5
727+00	31.06	XG-2.5-08-25-15	726+05.57 0.0	6346	22.8
727+00	30.91	XG-2.5-08-25-15	725+51.57 0.0	6345	22.9
726+00	30.84	XG-2.5-08-25-15	724+97.57 0.0	6344	23.0
726+00	30.84	XG-2.5-08-25-15	724+43.57 0.0	6343	22.6
725+00	30.84	XG-2.5-08-25-15	723+89.57 0.0	6342	22.6
725+00	30.84	XG-2.5-08-25-15	723+35.57 0.0	6341	22.7
724+00	30.84	XG-2.5-08-25-15	722+81.57 0.0	6340	22.8
724+00	30.84	XG-2.5-08-25-15	722+27.57 0.0	6339	23.0
723+00	30.84	XG-2.5-08-25-15	721+73.57 0.0	6338	23.4
723+00	30.84	XG-2.5-08-25-15	721+19.57 0.0	6337	23.5
722+00	30.84	XG-2.5-06-25-15	720+65.57 0.0	6336	23.1
722+00	30.84	XA-2.5-18-30-20	720+11.57 0.0	6335	23.1
721+00	30.84	XG-2.5-08-25-15	719+57.57 0.0	6334	22.8
721+00	30.84	XG-2.5-09-25-15	719+03.57 0.0	6333	22.8
720+00	30.84	XG-2.5-09-25-15	718+49.57 0.0	6332	23.0
720+00	30.84	XG-2.5-09-25-15	717+95.57 0.0	6331	23.0
719+00	30.84	XG-2.5-09-25-15	717+41.57 0.0	6330	22.9
719+00	30.84	XG-2.5-09-25-15	716+87.57 0.0	6329	22.9
718+00	30.76	XG-2.5-09-25-15	716+33.57 0.0	6328	22.9
718+00	30.68	XG-2.5-09-25-15	715+78.57 0.0	6327	22.1
718+00	30.60	XG-2.5-09-25-15	715+23.57 0.0	6326	21.9
717+00	30.52	XG-2.5-09-25-15			
717+00	30.44	XG-2.5-09-25-15			
716+00	30.36	XG-2.5-09-25-15			
716+00	30.28	XG-2.5-09-25-15			
715+00	30.19	XG-2.5-09-25-15			

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSON — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 715+00 TO STA 747+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060025-001 — SHEET 1 of 1 — REV 10

FILENAME: USPT-WP-YDPAL-060025-001

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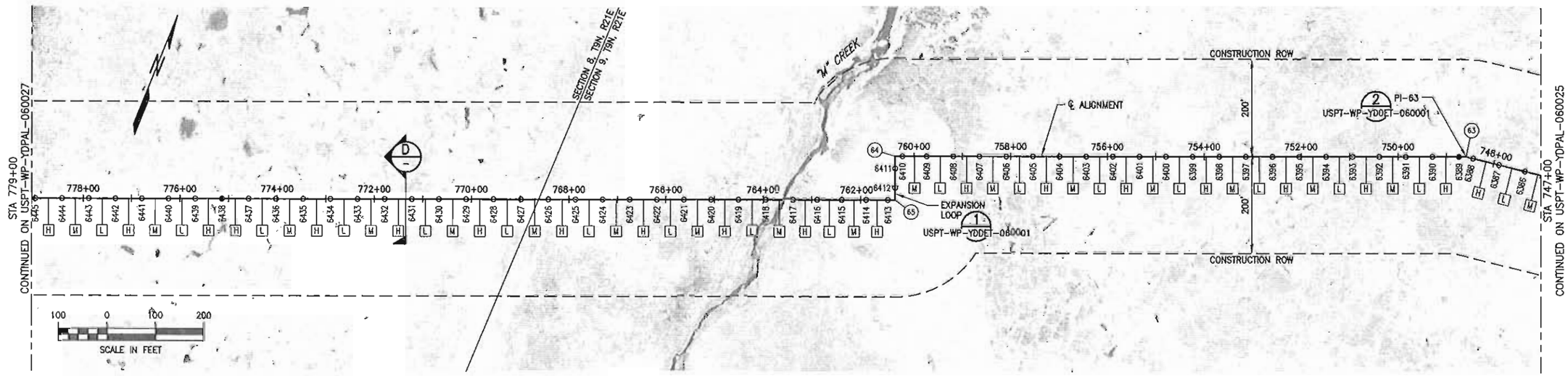


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
747+00 TO 779+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
63	PI	748+58.57	5905380.95	1537363.55	14.0°
64	PI	760+38.57	5904938.90	1536269.48	90.0°
65	PI	781+28.57	5904855.46	1536303.19	90.0°

PIPE SUPPORT IDENTIFICATION

XS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

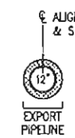
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

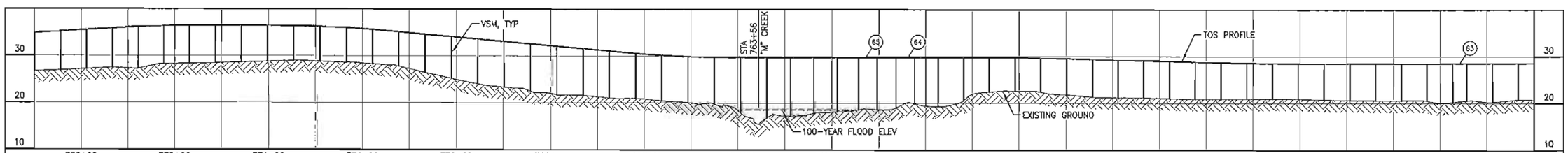
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
778+00	34.86	XG-2.5-08-25-15	778+98.57 0.0	6445	26.7
778+00	35.19	XG-2.5-08-25-15	778+43.57 0.0	6444	26.9
777+00	35.52	XG-2.5-08-25-15	777+88.57 0.0	6443	27.2
777+00	35.85	XG-2.5-08-25-15	777+33.57 0.0	6442	27.5
776+00	36.18	XG-2.5-08-25-15	776+78.57 0.0	6441	27.2
776+00	36.37	XG-2.5-08-25-15	776+23.57 0.0	6440	28.3
775+00	36.46	XG-2.5-08-25-15	775+68.57 0.0	6439	28.4
775+00	36.46	XA-2.5-18-30-20	775+13.57 0.0	6438	28.5
774+00	36.46	XG-2.5-08-25-15	774+58.57 0.0	6437	28.6
774+00	36.46	XG-2.5-08-25-15	774+02.57 0.0	6436	28.8
773+00	36.40	XG-2.5-08-25-15	773+46.57 0.0	6435	29.0
772+00	36.26	XG-2.5-08-25-15	772+90.57 0.0	6434	28.8
772+00	36.01	XG-2.5-08-25-15	772+34.57 0.0	6433	28.6
771+00	35.62	XG-2.5-08-25-15	771+78.57 0.0	6432	28.3
771+00	35.11	XG-2.5-08-25-15	771+22.57 0.0	6431	27.8
770+00	34.61	XG-2.5-08-25-15	770+66.57 0.0	6430	26.5
770+00	34.10	XG-2.5-08-25-15	770+10.57 0.0	6429	25.2
769+00	33.60	XG-2.5-08-25-15	769+54.57 0.0	6428	24.1
769+00	33.10	XG-2.5-08-25-15	768+98.57 0.0	6427	23.3
768+00	32.59	XG-2.5-08-25-15	768+42.57 0.0	6426	22.5
768+00	32.09	XG-2.5-08-25-15	767+86.57 0.0	6425	21.7
767+00	31.58	XG-2.5-08-25-15	767+30.57 0.0	6424	21.6
766+00	31.08	XG-2.5-08-25-15	766+74.57 0.0	6423	21.1
766+00	30.58	XG-2.5-08-25-15	766+18.57 0.0	6422	21.0
765+00	30.18	XG-2.5-08-25-15	765+62.57 0.0	6421	20.5
765+00	29.93	XG-2.5-08-25-15	765+06.57 0.0	6420	20.1
764+00	29.79	XG-2.5-08-25-15	764+50.57 0.0	6419	19.7
763+00	29.74	XG-2.5-08-30-15	763+94.57 0.0	6418	17.9
763+00	29.74	XG-2.5-12-30-15	763+38.57 0.0	6417	16.8
762+00	29.74	XG-2.5-12-30-15	762+88.57 0.0	6416	17.3
762+00	29.74	XG-2.5-12-30-15	762+38.57 0.0	6415	17.8
761+00	29.74	XG-2.5-12-30-15	761+88.57 0.0	6414	18.2
761+00	29.74	XS-08-12-30-15	761+43.57 0.0	6413	18.6
761+00	29.74	XS-08-12-30-15	761+03.57 0.0	6412	18.6
760+00	29.74	XS-08-12-25-15	760+63.57 0.0	6411	19.1
760+00	29.74	XS-08-12-25-15	760+23.57 0.0	6410	19.9
759+00	29.74	XG-2.5-12-25-15	759+73.57 0.0	6409	19.3
759+00	29.74	XG-2.5-12-25-15	759+18.57 0.0	6408	20.6
758+00	29.74	XG-2.5-08-25-15	758+63.57 0.0	6407	22.4
758+00	29.74	XG-2.5-08-25-15	758+08.57 0.0	6406	22.6
757+00	29.68	XG-2.5-08-25-15	757+53.57 0.0	6405	22.4
756+00	29.54	XG-2.5-08-25-15	756+98.57 0.0	6404	21.8
756+00	29.41	XG-2.5-08-25-15	756+43.57 0.0	6403	21.4
755+00	29.27	XG-2.5-08-25-15	755+88.57 0.0	6402	21.3
755+00	29.13	XG-2.5-08-25-15	755+33.57 0.0	6401	21.2
754+00	28.99	XG-2.5-08-25-15	754+78.57 0.0	6400	21.0
754+00	28.86	XG-2.5-08-25-15	754+23.57 0.0	6399	20.9
753+00	28.72	XG-2.5-08-25-15	753+68.57 0.0	6396	20.9
753+00	28.58	XG-2.5-08-25-15	753+13.57 0.0	6397	20.9
752+00	28.53	XG-2.5-08-25-15	752+58.57 0.0	6396	21.0
752+00	28.53	XG-2.5-08-25-15	752+03.57 0.0	6395	20.9
751+00	28.53	XG-2.5-08-25-15	751+48.57 0.0	6394	20.8
750+00	28.53	XG-2.5-08-25-15	750+93.57 0.0	6393	20.7
750+00	28.53	XG-2.5-08-25-15	750+38.57 0.0	6392	20.6
749+00	28.53	XG-2.5-08-25-15	749+83.57 0.0	6391	20.6
749+00	28.53	XG-2.5-08-25-15	749+28.57 0.0	6390	20.5
748+00	28.53	XA-2.5-18-30-20	748+73.57 0.0	6389	20.3
748+00	28.53	XG-2.5-12-25-15	748+43.57 0.0	6388	20.6
747+00	28.53	XG-2.5-08-25-15	747+88.57 0.0	6387	20.3
747+00	28.53	XG-2.5-08-25-15	747+33.57 0.0	6386	20.8

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RSH	JAO	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 747+00 TO STA 779+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAO / PAC

DRAWING NO. USPT-WP-YDPAL-060026-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060026-001

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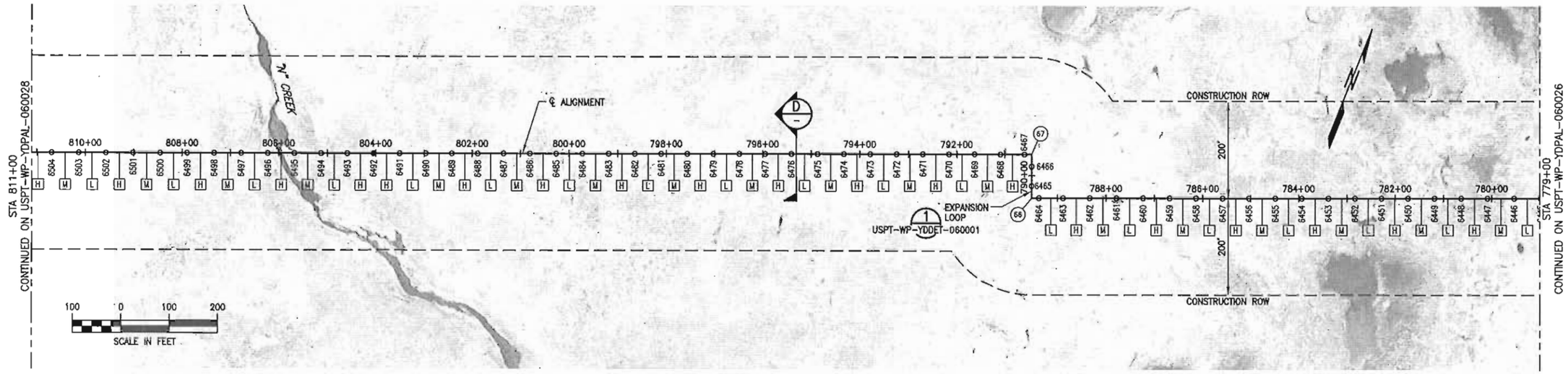


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
779+00 TO 811+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
66	PI	789+53.57	5903797.17	1533683.91	90.0°
67	PI	790+43.57	5903880.61	1533650.19	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX
- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

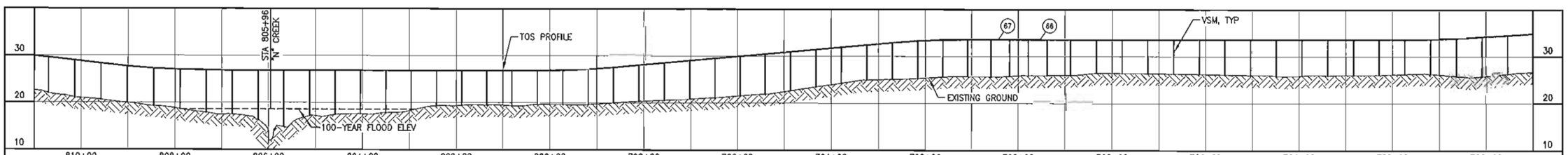
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D – TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
6504	810+69.57 0.0	XG-2.5-08-25-15	29.59	22.0
6503	810+13.57 0.0	XG-2.5-08-25-15	28.95	21.1
6502	809+57.57 0.0	XG-2.5-08-25-15	28.30	20.6
6501	809+01.57 0.0	XG-2.5-08-25-15	27.69	20.0
6500	808+45.57 0.0	XG-2.5-08-25-15	27.27	19.3
6499	807+89.57 0.0	XG-2.5-08-25-15	27.04	18.6
6498	807+33.57 0.0	XG-2.5-08-25-15	26.90	17.9
6497	806+77.57 0.0	XG-2.5-08-25-15	26.85	17.5
6496	806+22.57 0.0	XG-2.5-08-25-15	26.85	16.4
6495	805+67.57 0.0	XG-2.5-12-30-15	26.85	14.9
6494	805+12.57 0.0	XG-2.5-08-25-15	26.85	17.2
6493	804+58.57 0.0	XG-2.5-08-25-15	26.85	17.5
6492	804+04.57 0.0	XA-2.5-18-30-20	26.85	17.6
6491	803+50.57 0.0	XG-2.5-08-25-15	26.85	17.8
6490	802+96.57 0.0	XG-2.5-08-25-15	26.85	18.4
6489	802+42.57 0.0	XG-2.5-08-25-15	26.85	19.4
6488	801+88.57 0.0	XG-2.5-08-25-15	26.85	19.5
6487	801+34.57 0.0	XG-2.5-08-25-15	26.85	19.5
6486	800+80.57 0.0	XG-2.5-08-25-15	26.85	19.4
6485	800+26.57 0.0	XG-2.5-08-25-15	26.85	19.7
6484	799+72.57 0.0	XG-2.5-08-25-15	26.93	19.8
6483	799+18.57 0.0	XG-2.5-08-25-15	27.14	19.6
6482	798+64.57 0.0	XG-2.5-08-25-15	27.55	20.0
6481	798+10.57 0.0	XG-2.5-08-25-15	28.03	20.3
6480	797+56.57 0.0	XG-2.5-08-25-15	28.52	20.6
6479	797+02.57 0.0	XG-2.5-08-25-15	29.01	20.9
6478	796+48.57 0.0	XG-2.5-08-25-15	29.49	21.2
6477	795+94.57 0.0	XG-2.5-08-25-15	29.98	21.6
6476	795+40.57 0.0	XG-2.5-08-25-15	30.46	21.9
6475	794+86.57 0.0	XG-2.5-08-25-15	30.95	22.7
6474	794+32.57 0.0	XG-2.5-08-25-15	31.44	23.5
6473	793+78.57 0.0	XG-2.5-08-25-15	31.92	24.3
6472	793+24.57 0.0	XG-2.5-09-25-15	32.41	25.0
6471	792+70.57 0.0	XG-2.5-08-25-15	32.88	25.1
6470	792+16.57 0.0	XG-2.5-08-25-15	33.30	25.3
6469	791+62.57 0.0	XG-2.5-08-25-15	33.52	25.6
6468	791+08.57 0.0	XG-2.5-12-25-15	33.60	25.8
6467	790+58.57 0.0	XS-08-12-25-15	33.60	25.7
6466	790+18.57 0.0	XS-08-12-25-15	33.60	25.8
6465	789+78.57 0.0	XS-08-12-25-15	33.60	25.9
6464	789+38.57 0.0	XS-08-12-25-15	33.60	26.0
6463	788+88.57 0.0	XG-2.5-12-25-15	33.60	28.0
6462	788+33.57 0.0	XG-2.5-08-25-15	33.60	26.5
6461	787+78.57 0.0	XG-2.5-08-25-15	33.60	26.5
6460	787+23.57 0.0	XG-2.5-08-25-15	33.60	26.4
6459	786+68.57 0.0	XG-2.5-08-25-15	33.60	26.3
6458	786+13.57 0.0	XG-2.5-08-25-15	33.60	26.2
6457	785+58.57 0.0	XG-2.5-08-25-15	33.60	26.1
6456	785+03.57 0.0	XG-2.5-08-25-15	33.60	26.0
6455	784+48.57 0.0	XG-2.5-09-25-15	33.60	25.9
6454	783+93.57 0.0	XG-2.5-08-25-15	33.60	25.9
6453	783+38.57 0.0	XG-2.5-08-25-15	33.60	25.9
6452	782+83.57 0.0	XG-2.5-08-25-15	33.60	26.0
6451	782+28.57 0.0	XG-2.5-08-25-15	33.60	26.1
6450	781+73.57 0.0	XG-2.5-08-25-15	33.60	26.3
6449	781+18.57 0.0	XG-2.5-08-25-15	33.68	26.3
6448	780+63.57 0.0	XG-2.5-08-25-15	33.87	25.8
6447	780+08.57 0.0	XG-2.5-08-25-15	34.20	25.8
6446	779+53.57 0.0	XG-2.5-08-25-15	34.53	26.3

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RRH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 779+00 TO STA 811+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060027-001 SHEET 1 of 1 REV 10

P7-D-BAKCRLD.DWG (24x36)

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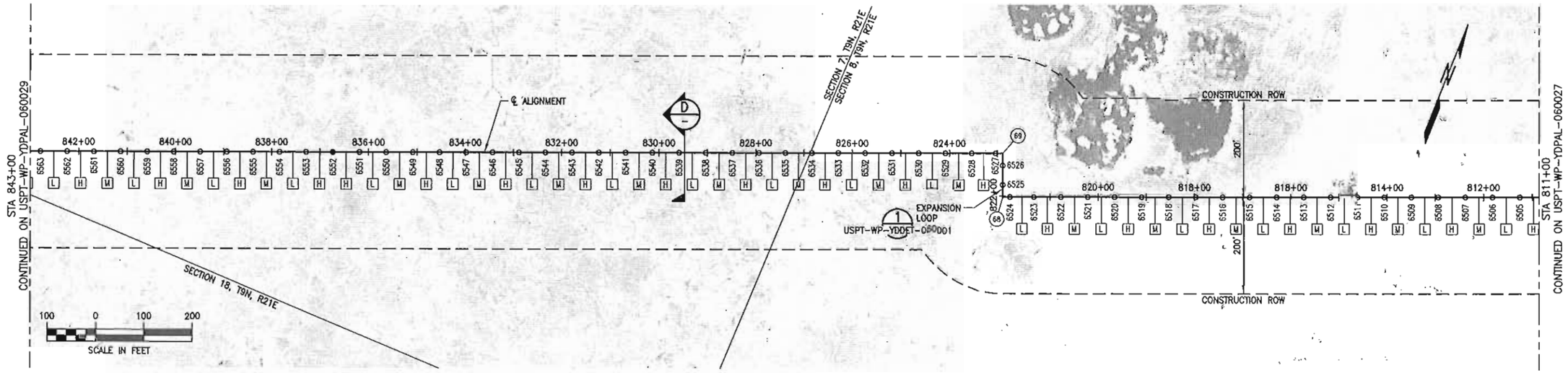


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
811+00 TO 843+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
68	PI	821+98.57	5902698.70	1530724.94	90.0°
69	PI	822+88.57	5902782.14	1530691.23	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

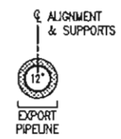
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

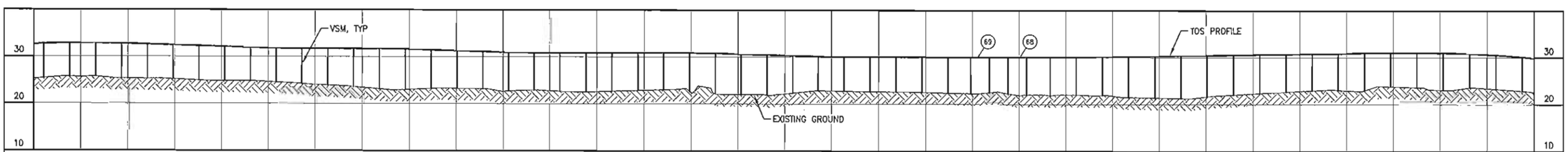
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
842+00	32.71	XG-2.5-08-25-15	842+78.57 0.0	6563	25.4
	32.84	XG-2.5-08-25-15	842+23.57 0.0	6562	25.7
	32.84	XG-2.5-08-25-15	841+68.57 0.0	6561	25.8
	32.76	XG-2.5-08-25-15	841+13.57 0.0	6560	25.4
	32.60	XG-2.5-08-25-15	840+58.57 0.0	6559	25.3
	32.43	XG-2.5-08-25-15	840+03.57 0.0	6558	25.2
	32.27	XG-2.5-08-25-15	839+48.57 0.0	6557	25.0
	32.10	XG-2.5-08-25-15	838+93.57 0.0	6556	24.9
	31.94	XG-2.5-08-25-15	838+38.57 0.0	6555	24.8
	31.77	XG-2.5-08-25-15	837+83.57 0.0	6554	24.6
	31.69	XG-2.5-08-25-15	837+28.57 0.0	6553	24.3
	31.69	XA-2.5-18-30-20	836+73.57 0.0	6552	23.9
	31.69	XG-2.5-08-25-15	836+18.57 0.0	6551	23.6
	31.69	XG-2.5-08-25-15	835+63.57 0.0	6550	23.1
	31.61	XG-2.5-08-25-15	835+08.57 0.0	6549	23.0
	31.44	XG-2.5-08-25-15	834+53.57 0.0	6548	23.2
	31.28	XG-2.5-08-25-15	833+98.57 0.0	6547	23.3
	31.11	XG-2.5-08-25-15	833+43.57 0.0	6546	23.2
840+00	30.95	XG-2.5-08-25-15	832+88.57 0.0	6545	22.8
	30.86	XG-2.5-08-25-15	832+33.57 0.0	6544	23.0
	30.86	XG-2.5-08-25-15	831+78.57 0.0	6543	22.7
	30.86	XG-2.5-08-25-15	831+23.57 0.0	6542	22.5
	30.86	XG-2.5-08-25-15	830+68.57 0.0	6541	22.7
	30.86	XG-2.5-08-25-15	830+13.57 0.0	6540	22.9
	30.86	XG-2.5-08-25-15	829+58.57 0.0	6539	23.0
	30.86	XG-2.5-08-25-15	829+03.57 0.0	6538	22.7
	30.78	XG-2.5-08-25-15	828+48.57 0.0	6537	22.3
	30.62	XG-2.5-08-25-15	827+93.57 0.0	6536	22.0
	30.45	XG-2.5-08-25-15	827+38.57 0.0	6535	21.9
	30.29	XS-08-12-25-15	826+83.57 0.0	6534	22.4
	30.12	XG-2.5-08-25-15	826+28.57 0.0	6533	22.9
	30.04	XG-2.5-08-25-15	825+73.57 0.0	6532	22.8
	30.04	XG-2.5-08-25-15	825+18.57 0.0	6531	22.7
	30.04	XG-2.5-08-25-15	824+63.57 0.0	6530	22.6
	30.04	XG-2.5-08-25-15	824+08.57 0.0	6529	22.6
	30.04	XG-2.5-12-25-15	823+53.57 0.0	6528	22.4
	30.04	XS-08-12-25-15	823+03.57 0.0	6527	22.3
822+00	30.04	XS-08-12-25-15	822+63.57 0.0	6526	22.5
	30.04	XS-08-12-25-15	822+23.57 0.0	6525	22.3
	30.04	XS-08-12-25-15	821+83.57 0.0	6524	22.0
	30.04	XG-2.5-12-25-15	821+33.57 0.0	6523	21.9
820+00	30.04	XG-2.5-12-25-15	820+77.57 0.0	6522	22.0
	30.12	XG-2.5-08-25-15	820+21.57 0.0	6521	22.0
	30.21	XG-2.5-08-25-15	819+65.57 0.0	6520	21.5
	30.29	XG-2.5-08-25-15	819+09.57 0.0	6519	21.4
	30.37	XG-2.5-08-25-15	818+53.57 0.0	6518	21.3
818+00	30.46	XG-2.5-08-25-15	817+97.57 0.0	6517	21.7
	30.54	XG-2.5-08-25-15	817+41.57 0.0	6516	22.1
	30.63	XG-2.5-08-25-15	816+85.57 0.0	6515	22.4
	30.71	XG-2.5-08-25-15	816+29.57 0.0	6514	22.7
	30.79	XG-2.5-08-25-15	815+73.57 0.0	6513	23.0
816+00	30.88	XG-2.5-08-25-15	815+17.57 0.0	6512	23.1
	30.96	XG-2.5-08-25-15	814+61.57 0.0	6511	23.0
	31.05	XG-2.5-08-25-15	814+05.57 0.0	6510	23.9
	31.05	XG-2.5-08-25-15	813+49.57 0.0	6509	23.6
	30.99	XG-2.5-08-25-15	812+93.57 0.0	6508	23.1
	30.85	XG-2.5-08-25-15	812+37.57 0.0	6507	23.6
814+00	30.57	XG-2.5-08-25-15	811+81.57 0.0	6506	23.3
	30.15	XG-2.5-08-25-15	811+25.57 0.0	6505	22.9

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSON — CE 7733 — 12-22-11 — REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RRH	JAD	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 811+00 TO STA 843+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAD / PAC

DRAWING NO. USPT-WP-YDPAL-060028-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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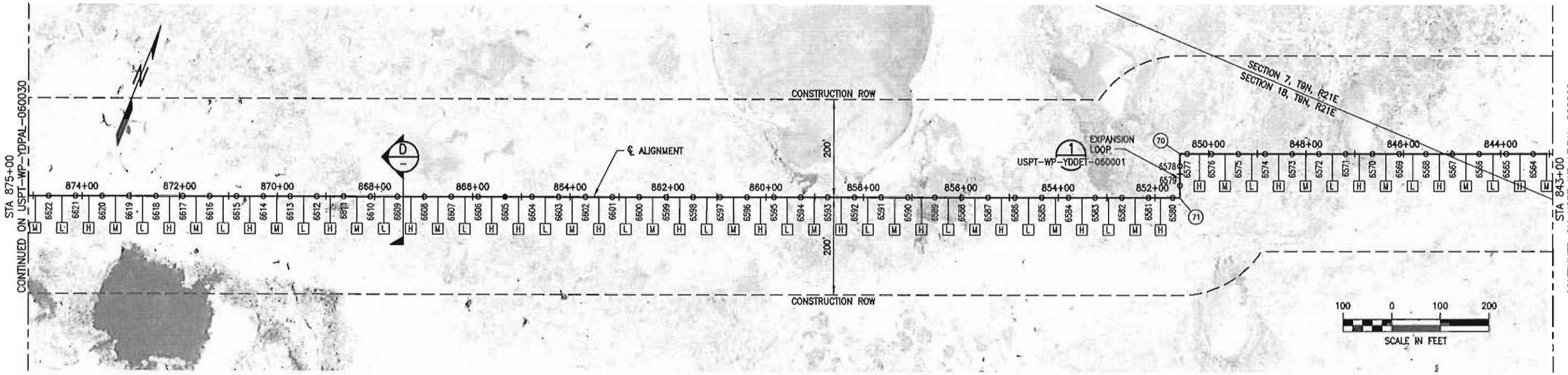


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
843+00 TO 875+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
70	PI	850+58.57	5901744.46	1528122.94	90.0°
71	PI	851+48.57	5901661.01	1528156.65	90.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

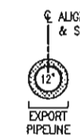
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

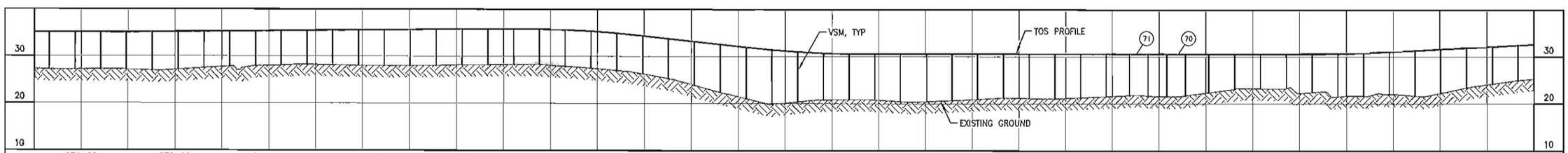
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION & OFFSET (FT)	TOS ELEV (FT)	SUPPORT TYPE	SUPPORT NUMBER	GROUND ELEV (FT)
874+68.57 0.0	35.04	XG-2.5-08-25-15	6622	27.2
874+13.57 0.0	35.04	XG-2.5-08-25-15	6621	27.2
873+58.57 0.0	35.04	XG-2.5-08-25-15	6620	27.3
873+03.57 0.0	35.04	XG-2.5-08-25-15	6619	27.2
872+48.57 0.0	35.10	XG-2.5-08-25-15	6618	27.0
871+93.57 0.0	35.15	XG-2.5-08-25-15	6617	27.2
871+38.57 0.0	35.21	XG-2.5-08-25-15	6616	27.5
870+83.57 0.0	35.26	XG-2.5-08-25-15	6615	27.8
870+28.57 0.0	35.32	XG-2.5-08-25-15	6614	27.9
869+73.57 0.0	35.37	XG-2.5-08-25-15	6613	28.1
869+18.57 0.0	35.43	XG-2.5-08-25-15	6612	28.2
868+63.57 0.0	35.48	XG-2.5-08-25-15	6611	28.1
868+08.57 0.0	35.54	XG-2.5-08-25-15	6610	28.0
867+53.57 0.0	35.59	XG-2.5-08-25-15	6609	28.0
866+98.57 0.0	35.65	XG-2.5-08-25-15	6608	28.0
866+43.57 0.0	35.70	XG-2.5-08-25-15	6607	28.0
865+88.57 0.0	35.76	XG-2.5-08-25-15	6606	28.2
865+33.57 0.0	35.76	XA-2.5-18-30-20	6605	28.2
864+78.57 0.0	35.76	XG-2.5-08-25-15	6604	28.3
864+23.57 0.0	35.76	XG-2.5-08-25-15	6603	28.3
863+68.57 0.0	35.62	XG-2.5-08-25-15	6602	27.9
863+13.57 0.0	35.35	XG-2.5-08-25-15	6601	27.5
862+58.57 0.0	34.93	XG-2.5-08-25-15	6600	27.0
862+03.57 0.0	34.38	XG-2.5-08-25-15	6599	26.3
861+48.57 0.0	33.78	XG-2.5-08-25-15	6598	25.3
860+93.57 0.0	33.17	XG-2.5-08-25-15	6597	23.9
860+38.57 0.0	32.57	XG-2.5-08-25-15	6596	22.4
859+83.57 0.0	31.96	XG-2.5-08-25-15	6595	21.1
859+28.57 0.0	31.41	XG-2.5-08-30-15	6594	19.9
858+73.57 0.0	31.00	XG-2.5-08-25-15	6593	20.4
858+18.57 0.0	30.73	XG-2.5-08-25-15	6592	20.8
857+63.57 0.0	30.59	XG-2.5-08-25-15	6591	20.9
857+08.57 0.0	30.59	XG-2.5-08-25-15	6590	20.8
856+53.57 0.0	30.59	XG-2.5-08-25-15	6589	20.5
855+98.57 0.0	30.59	XG-2.5-08-25-15	6588	20.5
855+43.57 0.0	30.59	XG-2.5-08-25-15	6587	20.7
854+88.57 0.0	30.59	XG-2.5-08-25-15	6586	21.0
854+33.57 0.0	30.59	XG-2.5-08-25-15	6585	21.3
853+78.57 0.0	30.59	XG-2.5-08-25-15	6584	21.1
853+23.57 0.0	30.59	XG-2.5-08-25-15	6583	21.1
852+68.57 0.0	30.59	XG-2.5-12-25-15	6582	21.3
852+13.57 0.0	30.59	XG-2.5-12-25-15	6581	21.5
851+63.57 0.0	30.59	XS-08-12-25-15	6580	21.8
851+23.57 0.0	30.59	XS-08-12-25-15	6579	21.7
850+83.57 0.0	30.59	XS-08-12-25-15	6578	21.6
850+43.57 0.0	30.59	XS-08-12-25-15	6577	21.8
849+93.57 0.0	30.59	XG-2.5-12-25-15	6576	22.4
849+38.57 0.0	30.59	XG-2.5-08-25-15	6575	23.2
848+83.57 0.0	30.59	XG-2.5-08-25-15	6574	23.3
848+28.57 0.0	30.59	XG-2.5-08-25-15	6573	23.3
847+73.57 0.0	30.59	XG-2.5-08-25-15	6572	22.5
847+18.57 0.0	30.64	XG-2.5-08-25-15	6571	21.5
846+63.57 0.0	30.78	XG-2.5-08-25-15	6570	21.7
846+08.57 0.0	31.06	XG-2.5-08-25-15	6569	22.0
845+53.57 0.0	31.33	XG-2.5-08-25-15	6568	21.7
844+98.57 0.0	31.61	XG-2.5-08-25-15	6567	22.3
844+43.57 0.0	31.88	XG-2.5-08-25-15	6566	23.4
843+88.57 0.0	32.16	XG-2.5-08-25-15	6565	24.2
843+33.57 0.0	32.43	XG-2.5-08-25-15	6564	25.0

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSH — CE 7724 — REGISTERED PROFESSIONAL ENGINEER — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RSH	JAO	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 843+00 TO STA 875+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAO
	R. HOBBS	12/11	AS SHOWN	APPD PAC

DRAWING NO. USPT-WP-YDPAL-060029-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060029-001

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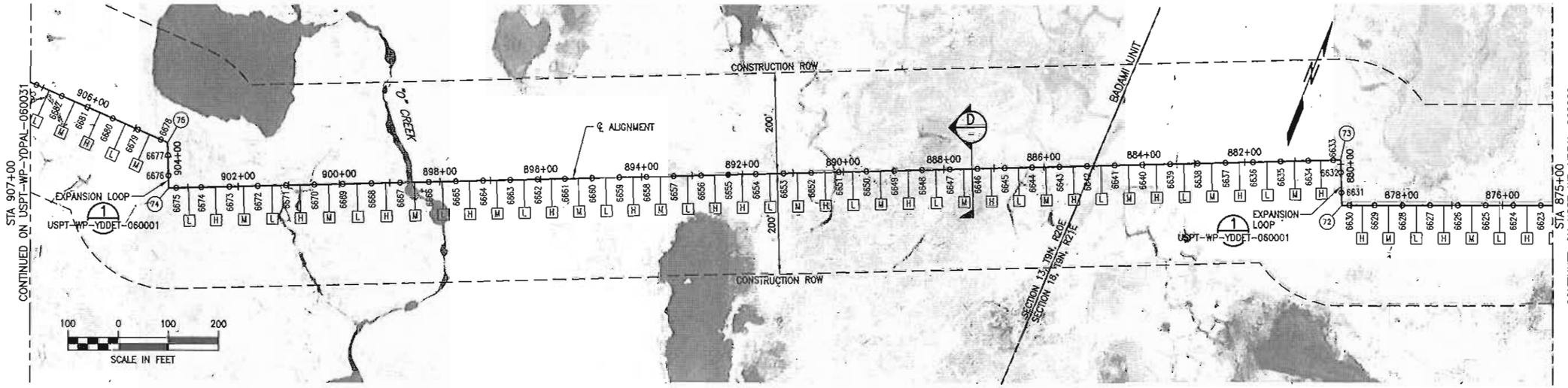


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
875+00 TO 907+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
72	PI	879+18.57	5900623.32	1525588.37	88.5°
73	PI	880+08.57	5900705.86	1525552.48	90.0°
74	PI	903+38.57	5899776.75	1523415.74	90.0°
75	PI	904+28.57	5899659.29	1523379.85	65.0°

PIPE SUPPORT IDENTIFICATION

XS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

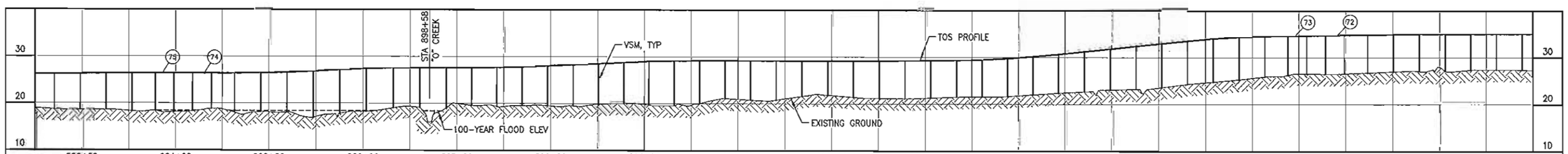
LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

℄ ALIGNMENT & SUPPORTS

12" EXPORT PIPELINE

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
906+58.57	26.22	XG-2.5-08-25-15	0.0	6682	18.7
906+03.57	26.28	XG-2.5-08-25-15	0.0	6681	18.6
905+48.57	26.33	XG-2.5-12-25-15	0.0	6680	18.6
904+93.57	26.39	XG-2.5-12-25-15	0.0	6679	18.3
904+43.57	26.39	XS-08-12-25-15	0.0	6678	18.4
904+03.57	26.39	XS-08-12-25-15	0.0	6677	18.1
903+63.57	26.39	XS-08-12-25-15	0.0	6676	18.3
903+23.57	26.39	XS-08-12-25-15	0.0	6675	18.8
902+73.57	26.39	XG-2.5-12-25-15	0.0	6674	18.0
902+17.57	26.44	XG-2.5-12-25-15	0.0	6673	18.2
901+61.57	26.58	XG-2.5-08-25-15	0.0	6672	18.1
901+05.57	26.83	XG-2.5-08-25-15	0.0	6671	17.0
900+49.57	27.14	XG-2.5-08-25-15	0.0	6670	17.8
899+93.57	27.39	XG-2.5-08-25-15	0.0	6669	18.3
899+36.57	27.54	XG-2.5-08-25-15	0.0	6668	19.0
898+79.57	27.59	XG-2.5-08-25-15	0.0	6667	19.1
898+22.57	27.59	XG-2.5-08-25-15	0.0	6666	19.0
897+68.57	27.59	XG-2.5-08-25-15	0.0	6665	19.6
897+14.57	27.65	XG-2.5-08-25-15	0.0	6664	19.4
896+60.57	27.78	XG-2.5-08-25-15	0.0	6663	19.5
896+06.57	28.02	XG-2.5-08-25-15	0.0	6662	19.6
895+52.57	28.27	XG-2.5-08-25-15	0.0	6661	19.5
894+98.57	28.51	XG-2.5-08-25-15	0.0	6660	19.9
894+44.57	28.75	XG-2.5-08-25-15	0.0	6659	20.1
893+90.57	29.00	XG-2.5-08-25-15	0.0	6658	19.7
893+36.57	29.13	XG-2.5-08-25-15	0.0	6657	19.6
892+82.57	29.19	XG-2.5-08-25-15	0.0	6656	20.1
892+28.57	29.19	XA-2.5-18-30-20	0.0	6655	21.1
891+73.57	29.19	XG-2.5-08-25-15	0.0	6654	20.8
891+18.57	29.19	XG-2.5-08-25-15	0.0	6653	20.8
890+63.57	29.19	XG-2.5-08-25-15	0.0	6652	21.6
890+08.57	29.19	XG-2.5-08-25-15	0.0	6651	21.9
889+53.57	29.19	XG-2.5-08-25-15	0.0	6650	21.4
888+98.57	29.19	XG-2.5-08-25-15	0.0	6649	21.2
888+43.57	29.24	XG-2.5-08-25-15	0.0	6648	21.2
887+88.57	29.30	XG-2.5-08-25-15	0.0	6647	21.3
887+33.57	29.35	XG-2.5-08-25-15	0.0	6646	21.5
886+78.57	29.49	XG-2.5-08-25-15	0.0	6645	21.6
886+23.57	29.76	XG-2.5-08-25-15	0.0	6644	21.7
885+68.57	30.18	XG-2.5-08-25-15	0.0	6643	22.0
885+13.57	30.67	XG-2.5-08-25-15	0.0	6642	22.4
884+58.57	31.25	XG-2.5-08-25-15	0.0	6641	22.7
884+03.57	31.83	XG-2.5-08-25-15	0.0	6640	23.1
883+48.57	32.40	XG-2.5-08-25-15	0.0	6639	23.2
882+93.57	32.98	XG-2.5-08-25-15	0.0	6638	23.6
882+38.57	33.56	XG-2.5-08-25-15	0.0	6637	24.3
881+83.57	34.05	XG-2.5-08-25-15	0.0	6636	24.8
881+28.57	34.38	XG-2.5-12-25-15	0.0	6635	25.3
880+73.57	34.55	XG-2.5-12-25-15	0.0	6634	25.9
880+23.57	34.62	XS-08-12-25-15	0.0	6633	26.3
879+83.57	34.68	XS-08-12-25-15	0.0	6632	26.6
879+43.57	34.74	XS-08-12-25-15	0.0	6631	26.5
879+03.57	34.80	XS-08-12-25-15	0.0	6630	26.6
878+53.57	34.88	XG-2.5-12-25-15	0.0	6629	26.8
877+98.57	34.96	XG-2.5-08-25-15	0.0	6628	27.0
877+43.57	35.04	XG-2.5-08-25-15	0.0	6627	27.1
876+88.57	35.04	XG-2.5-08-25-15	0.0	6626	27.2
876+33.57	35.04	XG-2.5-08-25-15	0.0	6625	27.4
875+78.57	35.04	XG-2.5-08-25-15	0.0	6624	27.4
875+23.57	35.04	XG-2.5-08-25-15	0.0	6623	27.4

REFERENCE DRAWINGS	DESCRIPTION
	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARREY — REGISTERED PROFESSIONAL ENGINEER — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy — FLUOR — Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 875+00 TO STA 907+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060030-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060030-001

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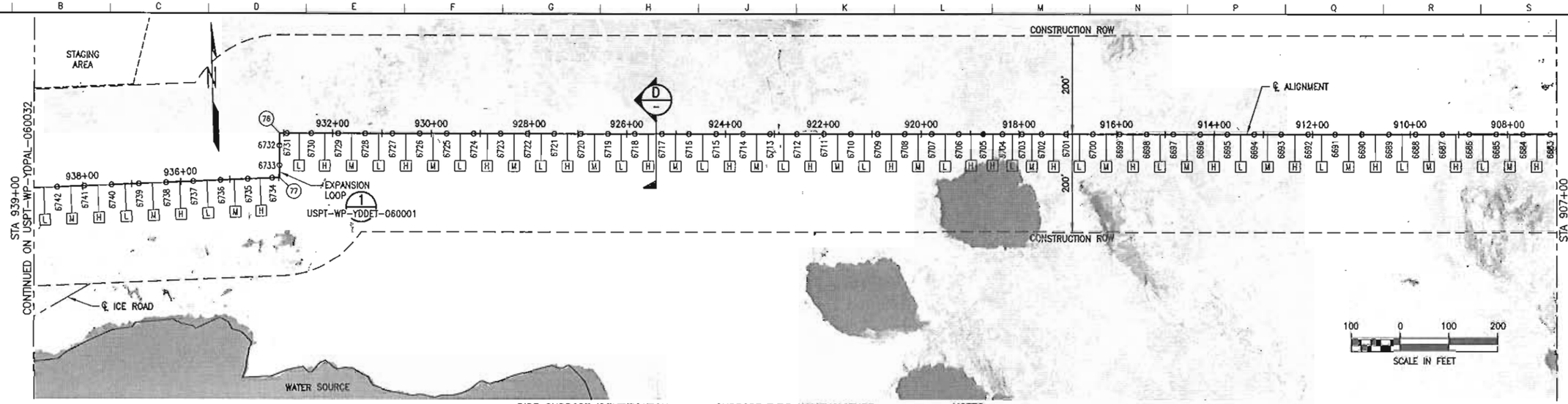


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
907+00 TO 939+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
76	PI	933+08.57	5899934.65	1520500.83	90.0°
77	PI	933+98.57	5899844.68	1520498.48	87.44°

PIPE SUPPORT IDENTIFICATION

XS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

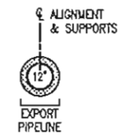
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

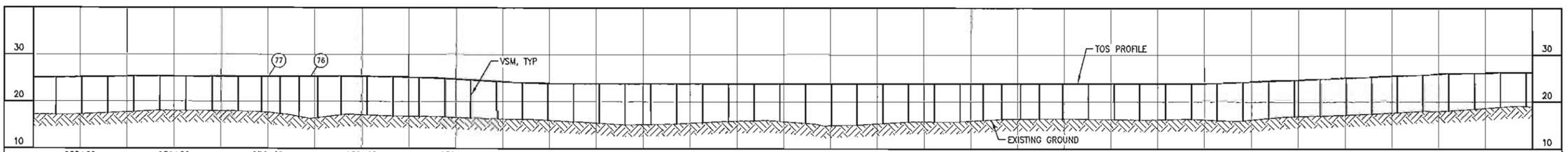
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D – TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
938+00	25.09	XG-2.5-08-25-15	938+52.07 0.0	6742	17.2
937+00	25.17	XG-2.5-08-25-15	937+96.57 0.0	6741	17.3
937+00	25.26	XG-2.5-08-25-15	937+41.07 0.0	6740	17.5
936+00	25.34	XG-2.5-08-25-15	936+85.57 0.0	6739	17.8
936+00	25.34	XG-2.5-08-25-15	936+30.07 0.0	6738	18.1
935+00	25.34	XG-2.5-08-25-15	935+74.57 0.0	6737	18.0
935+00	25.34	XS-2.5-12-25-15	935+19.07 0.0	6736	18.0
934+00	25.34	XG-2.5-12-25-15	934+63.57 0.0	6735	18.0
934+00	25.34	XS-08-12-25-15	934+13.57 0.0	6734	17.8
933+00	25.34	XS-08-12-25-15	933+73.57 0.0	6733	17.4
933+00	25.34	XS-08-12-25-15	933+33.57 0.0	6732	16.8
932+00	25.34	XS-08-12-25-15	932+93.57 0.0	6731	16.5
932+00	25.34	XG-2.5-12-25-15	932+43.57 0.0	6730	17.2
931+00	25.34	XG-2.5-12-25-15	931+88.57 0.0	6729	17.1
931+00	25.29	XG-2.5-08-25-15	931+33.57 0.0	6728	16.9
930+00	25.15	XG-2.5-08-25-15	930+78.57 0.0	6727	16.9
930+00	24.90	XG-2.5-08-25-15	930+23.57 0.0	6726	16.7
929+00	24.60	XG-2.5-08-25-15	929+68.57 0.0	6725	16.5
929+00	24.30	XG-2.5-08-25-15	929+13.57 0.0	6724	16.3
928+00	24.05	XG-2.5-08-25-15	928+58.57 0.0	6723	16.2
928+00	23.91	XG-2.5-08-25-15	928+03.57 0.0	6722	16.0
927+00	23.86	XG-2.5-08-25-15	927+48.57 0.0	6721	15.8
926+00	23.86	XG-2.5-08-25-15	926+93.57 0.0	6720	15.4
926+00	23.86	XG-2.5-08-25-15	926+38.57 0.0	6719	15.1
925+00	23.86	XG-2.5-08-25-15	925+83.57 0.0	6718	15.2
925+00	23.86	XG-2.5-08-25-15	925+28.57 0.0	6717	15.3
924+00	23.86	XS-2.5-08-25-15	924+73.57 0.0	6716	15.6
924+00	23.86	XG-2.5-08-25-15	924+18.57 0.0	6715	15.8
923+00	23.86	XG-2.5-08-25-15	923+63.57 0.0	6714	16.0
923+00	23.86	XG-2.5-08-25-15	923+08.57 0.0	6713	15.9
922+00	23.86	XG-2.5-08-25-15	922+53.57 0.0	6712	15.4
922+00	23.86	XG-2.5-08-25-15	921+98.57 0.0	6711	14.9
921+00	23.86	XG-2.5-08-25-15	921+43.57 0.0	6710	15.1
920+00	23.86	XG-2.5-08-25-15	920+88.57 0.0	6709	15.4
920+00	23.86	XG-2.5-08-25-15	920+33.57 0.0	6708	15.7
919+00	23.86	XG-2.5-08-25-15	919+78.57 0.0	6707	15.7
919+00	23.86	XG-2.5-08-25-15	919+23.57 0.0	6706	15.8
918+00	23.86	XA-2.5-18-30-20	918+73.57 0.0	6705	16.1
918+00	23.86	XG-2.5-08-25-15	918+33.57 0.0	6704	16.3
917+00	23.86	XG-2.5-08-25-15	917+93.57 0.0	6703	16.4
917+00	23.86	XG-2.5-08-25-15	917+53.57 0.0	6702	16.4
917+00	23.86	XG-2.5-08-25-15	917+03.57 0.0	6701	16.4
916+00	23.86	XG-2.5-08-25-15	916+48.57 0.0	6700	16.4
915+00	23.86	XG-2.5-08-25-15	915+93.57 0.0	6699	16.3
915+00	23.86	XG-2.5-08-25-15	915+38.57 0.0	6698	16.2
914+00	23.86	XG-2.5-08-25-15	914+83.57 0.0	6697	16.3
914+00	23.91	XG-2.5-08-25-15	914+28.57 0.0	6696	16.4
913+00	24.05	XG-2.5-08-25-15	913+73.57 0.0	6695	16.1
913+00	24.27	XG-2.5-08-25-15	913+18.57 0.0	6694	16.1
912+00	24.49	XG-2.5-08-25-15	912+63.57 0.0	6693	16.6
912+00	24.71	XG-2.5-08-25-15	912+08.57 0.0	6692	16.9
911+00	24.93	XG-2.5-08-25-15	911+53.57 0.0	6691	17.1
910+00	25.15	XG-2.5-08-25-15	910+98.57 0.0	6690	17.3
910+00	25.37	XG-2.5-08-25-15	910+43.57 0.0	6689	17.5
909+00	25.59	XG-2.5-08-25-15	909+88.57 0.0	6688	17.8
909+00	25.81	XG-2.5-08-25-15	909+33.57 0.0	6687	18.1
908+00	26.03	XG-2.5-08-25-15	908+78.57 0.0	6686	18.2
908+00	26.17	XG-2.5-08-25-15	908+23.57 0.0	6685	18.5
907+00	26.22	XG-2.5-08-25-15	907+68.57 0.0	6684	18.9
907+00	26.22	XG-2.5-08-25-15	907+13.57 0.0	6683	19.1

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RJN	JAD	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 907+00 TO STA 939+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAD / PAC

DRAWING NO. USPT-WP-YDPAL-060031-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

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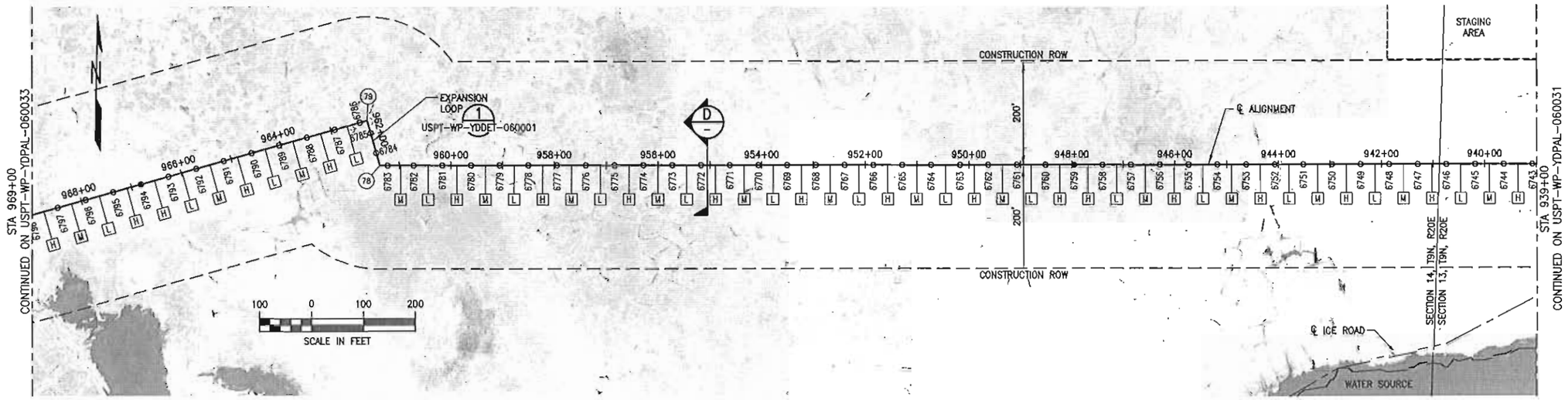


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
939+00 TO 969+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
78	PI	961+37.55	5899793.74	1517759.97	74.32'
79	PI	962+27.55	5899879.92	1517734.04	90.0'

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

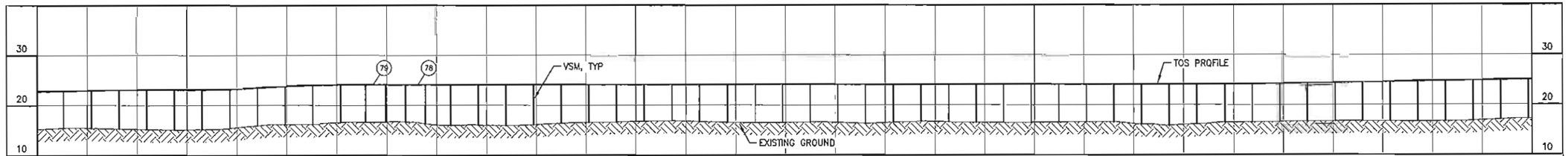
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNEO VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- O GUIDED OR SLIDING SUPPORT
- ⊠ ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
6797	968+47.55 0.0	XG-2.5-08-25-15	22.88	15.5
6796	967+92.05 0.0	XG-2.5-08-25-15	23.00	15.5
6795	967+36.55 0.0	XG-2.5-08-25-15	23.12	15.3
6794	966+81.05 0.0	XA-2.5-18-30-20	23.12	15.2
6793	966+25.55 0.0	XG-2.5-08-25-15	23.12	15.1
6792	965+70.05 0.0	XG-2.5-08-25-15	23.12	15.2
6791	965+14.55 0.0	XG-2.5-08-25-15	23.20	15.4
6790	964+59.05 0.0	XG-2.5-08-25-15	23.51	15.9
6789	964+03.55 0.0	XG-2.5-08-25-15	23.81	16.2
6788	963+48.05 0.0	XG-2.5-08-25-15	24.04	16.2
6787	962+92.55 0.0	XG-2.5-12-25-15	24.12	16.6
6786	962+42.55 0.0	XS-08-12-25-15	24.12	16.7
6785	962+02.55 0.0	XS-08-12-25-15	24.12	16.7
6784	961+62.55 0.0	XS-08-12-25-15	24.12	16.7
6783	961+22.55 0.0	XS-08-12-25-15	24.12	16.3
6782	960+72.07 0.0	XG-2.5-12-25-15	24.12	16.0
6781	960+16.57 0.0	XG-2.5-12-25-15	24.12	16.1
6780	959+61.07 0.0	XG-2.5-08-25-15	24.12	16.0
6779	959+05.57 0.0	XG-2.5-08-25-15	24.12	16.1
6778	958+50.07 0.0	XG-2.5-08-25-15	24.12	16.4
6777	957+94.57 0.0	XG-2.5-08-25-15	24.12	16.6
6776	957+39.07 0.0	XG-2.5-08-25-15	24.12	16.7
6775	956+83.57 0.0	XG-2.5-08-25-15	24.12	16.8
6774	956+28.07 0.0	XG-2.5-08-25-15	24.12	16.9
6773	955+72.57 0.0	XG-2.5-08-25-15	24.12	16.8
6772	955+17.07 0.0	XG-2.5-08-25-15	24.12	16.6
6771	954+61.57 0.0	XG-2.5-08-25-15	24.12	16.5
6770	954+06.07 0.0	XG-2.5-08-25-15	24.12	16.5
6769	953+50.57 0.0	XG-2.5-08-25-15	24.12	16.7
6768	952+95.07 0.0	XG-2.5-08-25-15	24.12	16.5
6767	952+39.57 0.0	XG-2.5-08-25-15	24.12	16.4
6766	951+84.07 0.0	XG-2.5-08-25-15	24.12	16.6
6765	951+28.57 0.0	XG-2.5-08-25-15	24.12	16.8
6764	950+73.07 0.0	XG-2.5-08-25-15	24.12	16.7
6763	950+17.57 0.0	XG-2.5-08-25-15	24.12	16.6
6762	949+62.07 0.0	XG-2.5-08-25-15	24.12	16.5
6761	949+06.57 0.0	XG-2.5-08-25-15	24.12	15.5
6760	948+51.07 0.0	XG-2.5-08-25-15	24.12	15.6
6759	947+95.57 0.0	XA-2.5-18-30-20	24.12	16.6
6758	947+40.07 0.0	XG-2.5-08-25-15	24.12	16.6
6757	946+84.57 0.0	XG-2.5-08-25-15	24.12	16.1
6756	946+29.07 0.0	XG-2.5-08-25-15	24.12	15.9
6755	945+73.57 0.0	XG-2.5-08-25-15	24.12	15.2
6754	945+18.07 0.0	XG-2.5-08-25-15	24.12	16.5
6753	944+62.57 0.0	XG-2.5-08-25-15	24.17	16.6
6752	944+07.07 0.0	XG-2.5-08-25-15	24.26	15.6
6751	943+51.57 0.0	XG-2.5-08-25-15	24.34	16.7
6750	942+96.07 0.0	XG-2.5-08-25-15	24.42	15.8
6749	942+40.57 0.0	XG-2.5-08-25-15	24.51	16.8
6748	941+85.07 0.0	XG-2.5-08-25-15	24.59	16.7
6747	941+29.57 0.0	XG-2.5-08-25-15	24.67	15.7
6746	940+74.07 0.0	XG-2.5-08-25-15	24.75	15.7
6745	940+18.57 0.0	XG-2.5-08-25-15	24.84	16.8
6744	939+63.07 0.0	XG-2.5-08-25-15	24.92	17.1
6743	939+07.57 0.0	XG-2.5-08-25-15	25.01	17.2

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSON — CE 7733 — PROFESSIONAL ENGINEER — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 939+00 TO STA 969+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG / APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDPAL-060032-001 — SHEET 1 of 1 — REV 10

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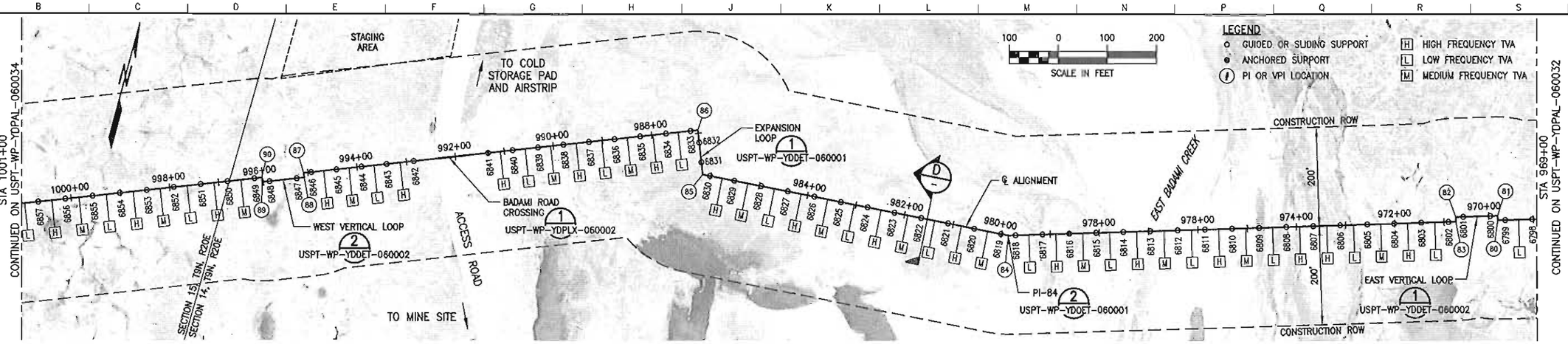


COORDINATE TABLE

POINT (ℓ)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
80	PI/VPI	969+72.55	5899665.21	1517020.64	90.0° (R)
81	PI/VPI	969+81.80	5899674.07	1517017.98	90.0° (R)
82	PI/VPI	970+66.80	5899649.58	1516936.59	90.0° (R)
83	PI/VPI	970+76.05	5899640.72	1516939.25	90.0° (R)
84	PI	979+86.05	5899378.46	1516067.86	13.0°
85	PI	986+16.05	5899337.26	1515439.21	72.5°
86	PI	987+06.05	5899421.14	1515406.59	90.0°
86A	VPI	992+58.13	5899221.04	1514892.04	45.0°
86B	VPI	992+67.81	5899217.53	1514883.03	45.0°
87	PI/VPI	995+08.05	5899130.46	1514659.12	90.0° (R)
88	PI/VPI	995+17.30	5899121.84	1514662.47	90.0° (R)
89	PI/VPI	996+02.30	5899091.03	1514583.25	90.0° (R)
90	PI/VPI	996+11.55	5899099.65	1514579.90	90.0° (R)

(R) ANGLE = ROLLED

PIPELINE DATA TABLE

LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
969+00 TO 1001+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
8. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

PIPE SUPPORT IDENTIFICATION

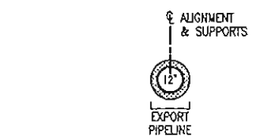
VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

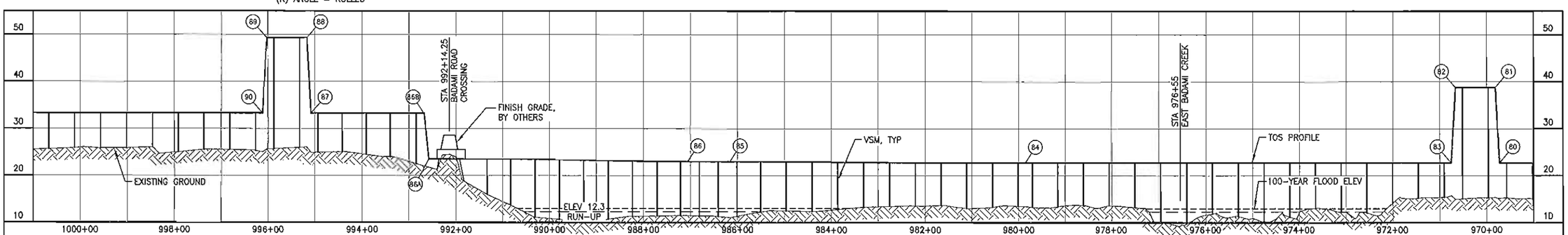
SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	SUPPORT NUMBER	GROUND ELEV (FT)	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)
1000+66.55	6857	25.6	1000+66.55 0.0	XG-2.5-08-25-15	33.25
1000+11.55	6856	25.9	1000+11.55 0.0	XG-2.5-08-25-15	33.25
999+56.55	6855	25.8	999+56.55 0.0	XG-2.5-08-25-15	33.25
999+01.55	6854	25.9	999+01.55 0.0	XG-2.5-08-25-15	33.25
998+46.55	6853	26.1	998+46.55 0.0	XG-2.5-08-25-15	33.25
997+91.55	6852	25.0	997+91.55 0.0	XG-2.5-08-25-15	33.25
997+36.55	6851	25.5	997+36.55 0.0	XG-2.5-08-25-15	33.25
996+81.55	6850	25.5	996+81.55 0.0	XG-2.5-12-25-15	33.25
996+26.55	6849	25.3	996+26.55 0.0	XG-2.5-08-25-15	33.25
995+87.30	6848	25.7	995+87.30 0.0	XS-08-18-40-15	49.28
995+32.30	6847	26.0	995+32.30 0.0	XS-08-18-40-15	49.28
994+93.05	6846	24.9	994+93.05 0.0	XG-2.5-08-25-15	33.25
994+42.05	6845	25.0	994+42.05 0.0	XG-2.5-12-25-15	33.25
993+91.05	6844	24.5	993+91.05 0.0	XG-2.5-08-25-15	33.25
993+40.05	6843	24.0	993+40.05 0.0	XG-2.5-08-25-15	33.25
992+85.05	6842	22.5	992+85.05 0.0	XG-2.5-12-25-15	33.25
991+33.05	6841	16.0	991+33.05 0.0	XA-2.5-18-30-20	23.49
990+83.05	6840	13.7	990+83.05 0.0	XG-2.5-08-25-15	23.49
990+31.05	6839	11.1	990+31.05 0.0	XG-2.5-12-30-15	23.49
989+78.05	6838	10.7	989+78.05 0.0	XG-2.5-12-30-15	23.39
989+27.05	6837	10.0	989+27.05 0.0	XG-2.5-12-30-15	23.29
988+75.05	6836	10.7	988+75.05 0.0	XG-2.5-12-30-15	23.18
988+23.05	6835	11.3	988+23.05 0.0	XG-2.5-12-30-15	23.08
987+71.05	6834	11.4	987+71.05 0.0	XG-2.5-12-30-15	22.97
987+21.05	6833	11.5	987+21.05 0.0	XS-08-12-30-15	22.97
986+81.05	6832	11.4	986+81.05 0.0	XS-08-12-30-15	22.97
986+41.05	6831	11.3	986+41.05 0.0	XS-08-12-30-15	22.97
986+01.05	6830	11.4	986+01.05 0.0	XS-08-12-30-15	22.97
985+51.05	6829	12.3	985+51.05 0.0	XG-2.5-12-25-15	22.97
984+96.05	6828	12.5	984+96.05 0.0	XG-2.5-12-25-15	22.97
984+41.05	6827	12.4	984+41.05 0.0	XG-2.5-12-25-15	22.92
983+86.05	6826	12.8	983+86.05 0.0	XG-2.5-08-25-15	22.86
983+31.05	6825	13.3	983+31.05 0.0	XG-2.5-08-25-15	22.81
982+76.05	6824	13.5	982+76.05 0.0	XG-2.5-08-25-15	22.78
982+21.05	6823	13.6	982+21.05 0.0	XG-2.5-08-25-15	22.75
981+66.05	6822	13.6	981+66.05 0.0	XG-2.5-08-25-15	22.75
981+11.05	6821	13.1	981+11.05 0.0	XG-2.5-08-25-15	22.75
980+56.05	6820	13.3	980+56.05 0.0	XG-2.5-12-25-15	22.75
980+01.05	6819	13.5	980+01.05 0.0	XG-2.5-12-25-15	22.75
979+71.05	6818	13.3	979+71.05 0.0	XG-2.5-12-25-15	22.75
979+16.05	6817	13.4	979+16.05 0.0	XG-2.5-08-25-15	22.75
978+61.05	6816	13.7	978+61.05 0.0	XA-2.5-18-30-20	22.75
978+06.05	6815	13.6	978+06.05 0.0	XG-2.5-08-25-15	22.75
977+51.05	6814	13.2	977+51.05 0.0	XG-2.5-08-25-15	22.75
976+96.05	6813	10.0	976+96.05 0.0	XG-2.5-18-40-24	22.75
976+41.05	6812	9.8	976+41.05 0.0	XG-2.5-18-40-24	22.75
975+86.05	6811	11.9	975+86.05 0.0	XG-2.5-12-30-20	22.75
975+31.05	6810	11.3	975+31.05 0.0	XG-2.5-18-35-24	22.75
974+76.05	6809	10.2	974+76.05 0.0	XG-2.5-18-40-24	22.75
974+21.05	6808	11.2	974+21.05 0.0	XG-2.5-18-35-24	22.75
973+66.05	6807	13.1	973+66.05 0.0	XG-2.5-08-25-15	22.75
973+11.05	6806	12.2	973+11.05 0.0	XG-2.5-08-25-15	22.75
972+56.05	6805	12.1	972+56.05 0.0	XG-2.5-12-25-15	22.75
972+01.05	6804	14.1	972+01.05 0.0	XG-2.5-08-25-15	22.75
971+46.05	6803	15.2	971+46.05 0.0	XG-2.5-12-25-15	22.75
970+91.05	6802	15.4	970+91.05 0.0	XG-2.5-12-25-15	22.75
970+51.80	6801	15.1	970+51.80 0.0	XS-08-18-40-15	38.78
969+96.80	6800	15.3	969+96.80 0.0	XS-08-18-40-15	38.78
969+57.55	6799	15.3	969+57.55 0.0	XG-2.5-08-25-15	22.75
969+02.55	6798	15.2	969+02.55 0.0	XG-2.5-12-25-15	22.75

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDDET-060002	VERTICAL LOOP DETAILS
USPT-WP-YDPLX-060002	ROAD CROSSING PLAN AND SECTION BADAMI ACCESS ROAD

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 969+00 TO STA 1001+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060033-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060033-001

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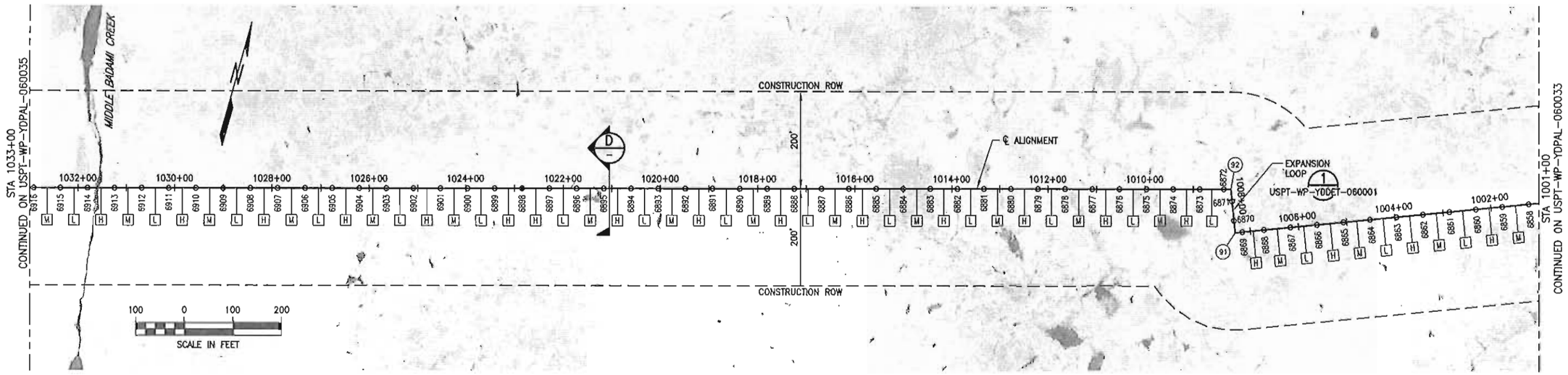


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1001+00 TO 1033+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
91	PI	1007+31.55	5898693.72	1513536.05	90.0°
92	PI	1008+21.55	5898777.60	1513503.43	84.5°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

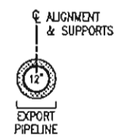
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

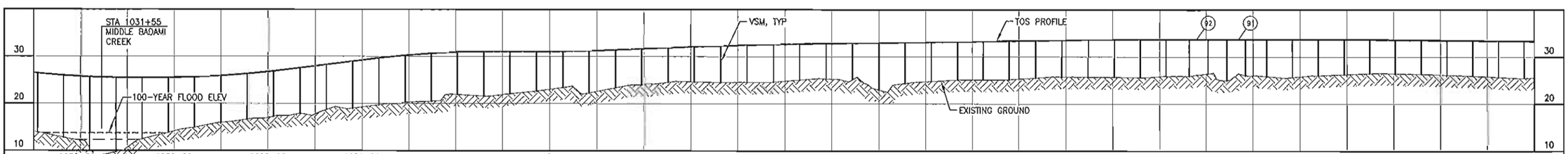
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- O GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
1032+00	26.41	XG-2.5-12-30-15	1032+91.55 0.0	6916	13.9
1032+36.55	25.97	XG-2.5-12-30-15	1032+36.55 0.0	6915	12.8
1031+80.55	25.63	XG-2.5-12-30-15	1031+80.55 0.0	6914	10.5
1031+24.55	25.46	XG-2.5-18-30-15	1031+24.55 0.0	6913	9.7
1030+68.55	25.46	XG-2.5-12-30-15	1030+68.55 0.0	6912	12.4
1030+12.55	25.46	XG-2.5-12-30-15	1030+12.55 0.0	6911	13.8
1029+55.55	25.60	XG-2.5-08-25-15	1029+55.55 0.0	6910	15.0
1029+00.55	25.88	XG-2.5-08-25-15	1029+00.55 0.0	6909	16.0
1028+44.55	26.30	XG-2.5-08-25-15	1028+44.55 0.0	6908	16.7
1027+88.55	26.86	XG-2.5-08-25-15	1027+88.55 0.0	6907	17.3
1027+32.55	27.56	XG-2.5-08-25-15	1027+32.55 0.0	6906	17.9
1026+76.55	28.26	XG-2.5-08-25-15	1026+76.55 0.0	6905	18.7
1026+20.55	28.96	XG-2.5-08-25-15	1026+20.55 0.0	6904	19.0
1025+64.55	29.66	XG-2.5-08-25-15	1025+64.55 0.0	6903	19.7
1025+08.55	30.22	XG-2.5-08-25-15	1025+08.55 0.0	6902	20.3
1024+52.55	30.64	XG-2.5-08-25-15	1024+52.55 0.0	6901	20.5
1023+96.55	30.92	XG-2.5-08-25-15	1023+96.55 0.0	6900	21.9
1023+40.55	31.06	XG-2.5-08-25-15	1023+40.55 0.0	6899	21.6
1022+84.55	31.06	XA-2.5-18-30-20	1022+84.55 0.0	6898	22.1
1022+28.55	31.08	XG-2.5-08-25-15	1022+28.55 0.0	6897	22.7
1021+72.55	31.06	XG-2.5-08-25-15	1021+72.55 0.0	6896	23.5
1021+16.55	31.06	XG-2.5-08-25-15	1021+16.55 0.0	6895	22.3
1020+60.55	31.20	XG-2.5-08-25-15	1020+60.55 0.0	6894	23.4
1020+04.55	31.43	XG-2.5-08-25-15	1020+04.55 0.0	6893	24.0
1019+48.55	31.65	XG-2.5-08-25-15	1019+48.55 0.0	6892	24.5
1018+92.55	31.87	XG-2.5-08-25-15	1018+92.55 0.0	6891	24.6
1018+36.55	32.10	XG-2.5-08-25-15	1018+36.55 0.0	6890	24.5
1017+80.55	32.27	XG-2.5-08-25-15	1017+80.55 0.0	6889	24.5
1017+24.55	32.43	XG-2.5-08-25-15	1017+24.55 0.0	6888	24.6
1016+68.55	32.60	XG-2.5-08-25-15	1016+68.55 0.0	6887	25.1
1016+12.55	32.69	XG-2.5-08-25-15	1016+12.55 0.0	6886	25.3
1015+56.55	32.77	XG-2.5-08-25-15	1015+56.55 0.0	6885	25.1
1015+00.55	32.85	XG-2.5-08-25-15	1015+00.55 0.0	6884	23.0
1014+44.55	32.94	XG-2.5-08-25-15	1014+44.55 0.0	6883	24.3
1013+88.55	33.02	XG-2.5-08-25-15	1013+88.55 0.0	6882	24.8
1013+32.55	33.11	XG-2.5-08-25-15	1013+32.55 0.0	6881	25.1
1012+76.55	33.19	XG-2.5-08-25-15	1012+76.55 0.0	6880	25.1
1012+20.55	33.27	XG-2.5-08-25-15	1012+20.55 0.0	6879	25.2
1011+64.55	33.36	XG-2.5-08-25-15	1011+64.55 0.0	6878	25.5
1011+08.55	33.44	XG-2.5-08-25-15	1011+08.55 0.0	6877	25.7
1010+52.55	33.53	XG-2.5-08-25-15	1010+52.55 0.0	6876	25.7
1009+96.55	33.61	XG-2.5-08-25-15	1009+96.55 0.0	6875	25.7
1009+41.55	33.69	XG-2.5-12-25-15	1009+41.55 0.0	6874	25.6
1008+86.55	33.69	XG-2.5-12-25-15	1008+86.55 0.0	6873	25.9
1008+36.55	33.69	XS-08-12-25-15	1008+36.55 0.0	6872	25.9
1007+96.55	33.69	XS-08-12-25-15	1007+96.55 0.0	6871	26.4
1007+56.55	33.69	XS-08-08-25-15	1007+56.55 0.0	6870	25.0
1007+16.55	33.69	XS-08-08-25-15	1007+16.55 0.0	6869	26.0
1006+71.55	33.69	XG-2.5-12-25-15	1006+71.55 0.0	6868	25.8
1006+16.55	33.69	XG-2.5-08-25-15	1006+16.55 0.0	6867	25.7
1005+61.55	33.69	XG-2.5-08-25-15	1005+61.55 0.0	6866	26.0
1005+06.55	33.69	XG-2.5-08-25-15	1005+06.55 0.0	6865	26.2
1004+51.55	33.64	XG-2.5-08-25-15	1004+51.55 0.0	6864	26.5
1003+96.55	33.58	XG-2.5-08-25-15	1003+96.55 0.0	6863	26.5
1003+41.55	33.53	XG-2.5-08-25-15	1003+41.55 0.0	6862	26.3
1002+86.55	33.47	XG-2.5-08-25-15	1002+86.55 0.0	6861	26.1
1002+31.55	33.42	XG-2.5-08-25-15	1002+31.55 0.0	6860	25.9
1001+76.55	33.36	XG-2.5-08-25-15	1001+76.55 0.0	6859	25.7
1001+21.55	33.31	XG-2.5-08-25-15	1001+21.55 0.0	6858	25.5

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 40TH PAUL A. CARSON CE 7755 REGISTERED PROFESSIONAL ENGINEER 12-28-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1001+00 TO STA 1033+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060034-001 SHEET 1 of 1 REV 10

FILENAME: USPT-WP-YDPAL-060034-001

PT-D-BAKERLNG (24x36)

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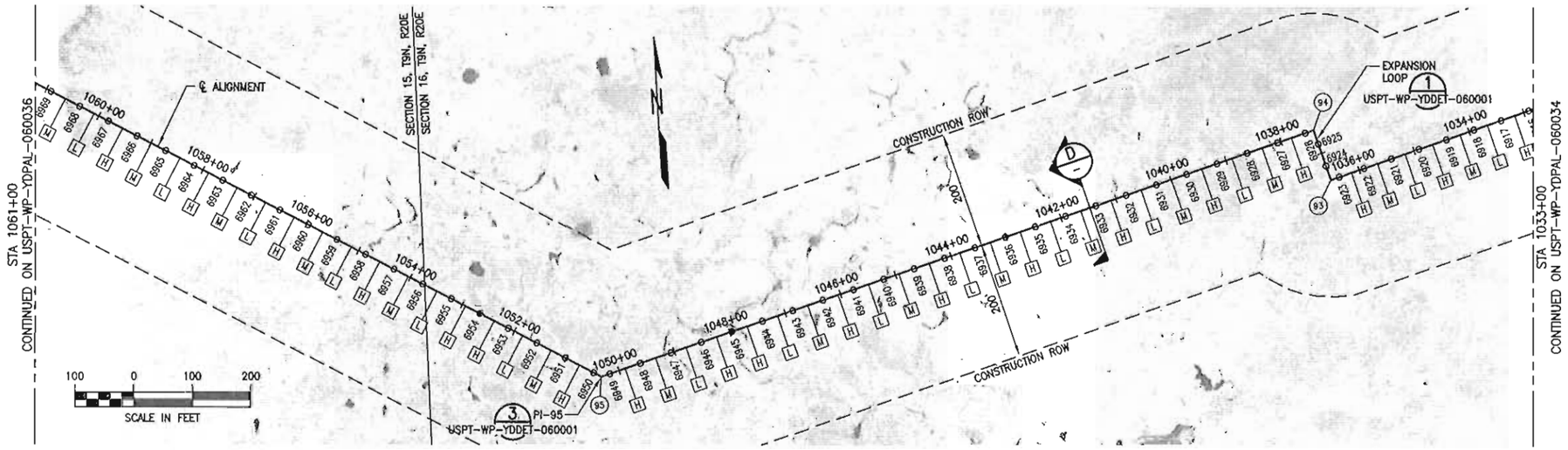


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1033+00 TO 1061+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (ℓ)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
93	PI	1036+51.55	5898009.43	1510779.68	90.0°
94	PI	1037+41.55	5898096.05	1510755.25	90.0°
95	PI	1050+31.55	5897745.89	1509513.69	46.5°

PIPE SUPPORT IDENTIFICATION

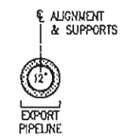
VS-08-704-XXXX
- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

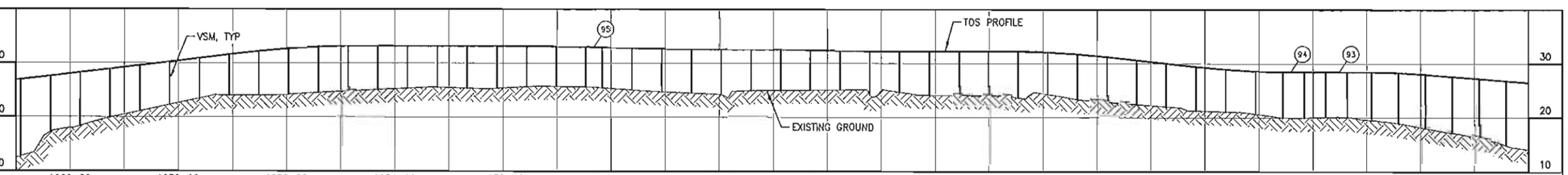
XX-XX-XX-XX-XX
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-844-0049-ME6EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND
- o GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (ℓ) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	STATION & OFFSET (FT)	SUPPORT TYPE	TOS ELEV (FT)	GROUND ELEV (FT)
6969	1060+91.55 0.0	XG-2.5-12-30-15	26.91	12.7
6968	1060+36.55 0.0	XG-2.5-08-25-15	27.57	17.2
6967	1059+81.55 0.0	XG-2.5-08-25-15	28.23	18.4
6966	1059+26.55 0.0	XG-2.5-08-25-15	28.89	19.9
6965	1059+71.55 0.0	XG-2.5-08-25-15	29.55	21.1
6964	1058+16.55 0.0	XG-2.5-08-25-15	30.21	22.3
6963	1057+61.55 0.0	XG-2.5-08-25-15	30.87	23.5
6962	1057+06.55 0.0	XG-2.5-08-25-15	31.53	24.0
6961	1056+51.55 0.0	XG-2.5-08-25-15	32.19	24.0
6960	1055+96.55 0.0	XG-2.5-08-25-15	32.68	24.2
6959	1055+41.55 0.0	XG-2.5-08-25-15	33.01	24.6
6958	1054+86.55 0.0	XG-2.5-08-25-15	33.18	24.8
6957	1054+31.55 0.0	XG-2.5-08-25-15	33.18	25.1
6956	1053+76.55 0.0	XG-2.5-08-25-15	33.18	25.4
6955	1053+21.55 0.0	XG-2.5-08-25-15	33.18	25.6
6954	1052+66.55 0.0	XA-2.5-18-30-20	33.18	25.4
6953	1052+11.55 0.0	XG-2.5-08-25-15	33.18	25.4
6952	1051+56.55 0.0	XG-2.5-08-25-15	33.18	25.6
6951	1051+01.55 0.0	XG-2.5-12-25-15	33.07	25.7
6950	1050+46.55 0.0	XS-08-12-25-15	32.96	25.6
6949	1050+16.55 0.0	XS-08-12-25-15	32.90	25.5
6948	1049+61.55 0.0	XG-2.5-12-25-15	32.79	25.1
6947	1049+06.55 0.0	XG-2.5-12-25-15	32.68	24.7
6946	1048+51.55 0.0	XG-2.5-08-25-15	32.57	24.5
6945	1047+96.55 0.0	XA-2.5-18-30-20	32.57	24.2
6944	1047+41.55 0.0	XG-2.5-08-25-15	32.57	25.0
6943	1046+86.55 0.0	XG-2.5-08-25-15	32.57	25.0
6942	1046+31.55 0.0	XG-2.5-08-25-15	32.46	25.0
6941	1045+76.55 0.0	XG-2.5-08-25-15	32.35	25.1
6940	1045+21.55 0.0	XG-2.5-08-25-15	32.24	24.2
6939	1044+66.55 0.0	XG-2.5-08-25-15	32.24	24.7
6938	1044+11.55 0.0	XG-2.5-08-25-15	32.24	24.1
6937	1043+56.55 0.0	XG-2.5-08-25-15	32.24	24.1
6936	1043+01.55 0.0	XG-2.5-08-25-15	32.24	24.0
6935	1042+46.55 0.0	XG-2.5-08-25-15	32.24	23.6
6934	1041+91.55 0.0	XG-2.5-08-25-15	32.07	24.3
6933	1041+36.55 0.0	XG-2.5-08-25-15	31.74	23.4
6932	1040+81.55 0.0	XG-2.5-08-25-15	31.25	22.9
6931	1040+26.55 0.0	XG-2.5-08-25-15	30.64	22.5
6930	1039+71.55 0.0	XG-2.5-08-25-15	30.04	22.0
6929	1039+16.55 0.0	XG-2.5-08-25-15	29.43	21.3
6928	1038+61.55 0.0	XG-2.5-12-25-15	28.94	21.1
6927	1038+06.55 0.0	XG-2.5-12-25-15	28.61	20.7
6926	1037+56.55 0.0	XS-08-12-25-15	28.46	20.0
6925	1037+16.55 0.0	XS-08-12-25-15	28.46	20.0
6924	1036+76.55 0.0	XS-08-12-25-15	28.46	20.2
6923	1036+36.55 0.0	XS-08-12-25-15	28.46	20.1
6922	1035+91.55 0.0	XG-2.5-12-25-15	28.46	19.5
6921	1035+41.55 0.0	XG-2.5-12-25-15	28.31	18.9
6920	1034+91.55 0.0	XG-2.5-08-25-15	28.01	18.0
6919	1034+41.55 0.0	XG-2.5-08-25-15	27.61	17.2
6918	1033+91.55 0.0	XG-2.5-08-25-15	27.21	16.2
6917	1033+41.55 0.0	XG-2.5-08-30-15	26.81	14.9

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — 49TH — PAUL A. CARSON — 98 7733 — REGISTERED PROFESSIONAL ENGINEER — 12-28-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1033+00 TO STA 1061+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG / APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDPAL-060035-001 — SHEET 1 of 1 — REV 10

FILENAME: USPT-WP-YDPAL-060035-001

PI-D-BAKER.DWG (24x36)

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PIPE SUPPORT IDENTIFICATION

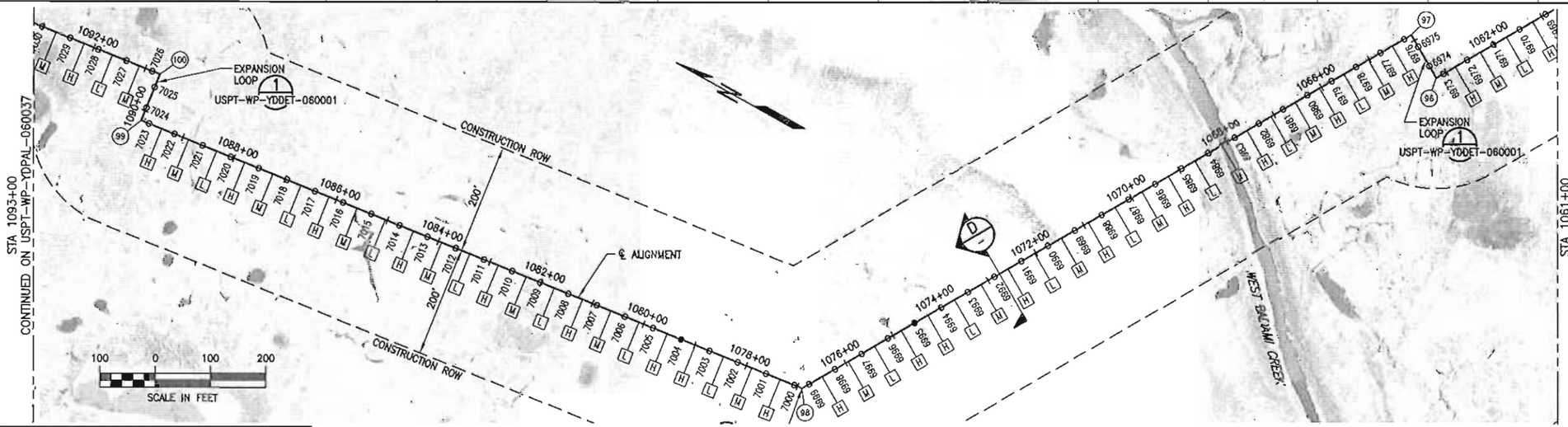
VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX-XX

- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)



PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1061+00 TO 1093+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

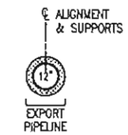
COORDINATE TABLE					
POINT	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
96	PI	1063+21.55	5898405.46	1508405.05	90.0°
97	PI	1064+11.55	5898482.80	1508451.07	90.0°
98	PI	1076+91.55	5899137.26	1507351.03	52.0°
99	PI	1089+81.55	5900416.95	1507188.23	90.0°
100	PI	1090+71.55	5900428.30	1507277.51	90.0°

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME6EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

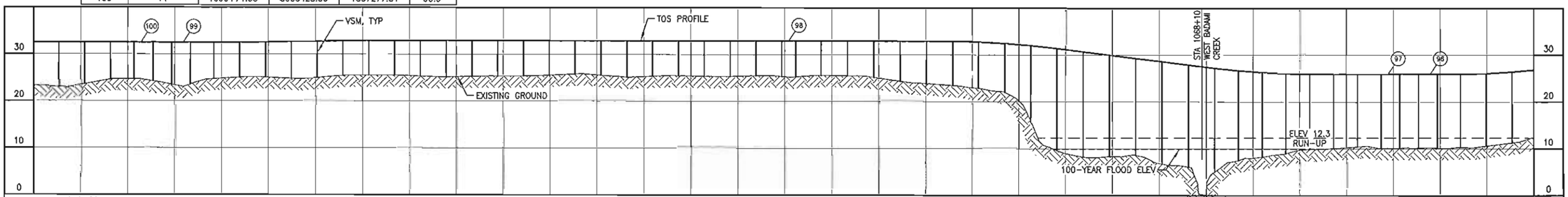
LEGEND

- GUIDED OR SLIDING SUPPORT
- ANCHORED SUPPORT
- PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	GROUND ELEV (FT)	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)
7029	23.0	32.49	XG-2.5-12-25-15	1092+46.55 0.0
7028	23.6	32.49	XG-2.5-12-25-15	1091+91.55 0.0
7027	24.6	32.49	XG-2.5-12-25-15	1091+36.55 0.0
7026	24.6	32.49	XS-08-12-25-15	1090+86.55 0.0
7025	24.2	32.49	XS-08-12-25-15	1090+46.55 0.0
7024	23.5	32.49	XS-08-12-25-15	1090+06.55 0.0
7023	23.6	32.49	XS-08-12-25-15	1089+66.55 0.0
7022	24.7	32.49	XG-2.5-12-25-15	1089+16.55 0.0
7021	25.0	32.49	XG-2.5-12-25-15	1088+61.55 0.0
7020	25.1	32.57	XG-2.5-08-25-15	1088+06.55 0.0
7019	24.8	32.66	XG-2.5-08-25-15	1087+51.55 0.0
7018	25.0	32.74	XG-2.5-08-25-15	1086+96.55 0.0
7017	25.4	32.82	XG-2.5-08-25-15	1086+41.55 0.0
7016	25.5	32.90	XG-2.5-08-25-15	1085+86.55 0.0
7015	25.6	32.90	XG-2.5-08-25-15	1085+31.55 0.0
7014	25.3	32.90	XG-2.5-08-25-15	1084+76.55 0.0
7013	25.2	32.90	XG-2.5-08-25-15	1084+21.55 0.0
7012	25.3	32.90	XG-2.5-08-25-15	1083+66.55 0.0
7011	25.4	32.90	XG-2.5-08-25-15	1083+11.55 0.0
7010	25.4	32.90	XG-2.5-08-25-15	1082+56.55 0.0
7009	25.6	32.90	XG-2.5-08-25-15	1082+01.55 0.0
7008	25.8	32.90	XG-2.5-08-25-15	1081+46.55 0.0
7007	25.6	32.90	XG-2.5-08-25-15	1080+91.55 0.0
7006	25.2	32.90	XG-2.5-08-25-15	1080+36.55 0.0
7005	25.3	32.90	XG-2.5-08-25-15	1079+81.55 0.0
7004	25.5	32.90	XA-2.5-18-30-20	1079+26.55 0.0
7003	25.4	32.90	XG-2.5-08-25-15	1078+71.55 0.0
7002	25.3	32.90	XG-2.5-12-25-15	1078+16.55 0.0
7001	25.5	32.90	XG-2.5-12-25-15	1077+61.55 0.0
7000	25.3	32.90	XS-08-12-25-15	1077+06.55 0.0
6999	25.3	32.90	XS-08-12-25-15	1076+76.55 0.0
6998	25.6	32.90	XG-2.5-12-25-15	1076+22.55 0.0
6997	25.5	32.90	XG-2.5-08-25-15	1075+68.55 0.0
6996	25.2	32.90	XG-2.5-08-25-15	1075+10.55 0.0
6995	24.4	32.90	XA-2.5-18-30-20	1074+54.55 0.0
6994	23.9	32.90	XG-2.5-08-25-15	1073+98.55 0.0
6993	23.5	32.90	XG-2.5-08-25-15	1073+42.55 0.0
6992	22.9	32.76	XG-2.5-08-25-15	1072+86.55 0.0
6991	22.0	32.46	XG-2.5-08-25-15	1072+30.55 0.0
6990	15.9	32.01	XG-2.5-12-35-15	1071+74.55 0.0
6989	9.6	31.39	XG-2.5-18-40-15	1071+18.55 0.0
6988	8.2	30.69	XG-2.5-18-40-15	1070+62.55 0.0
6987	8.4	29.98	XG-2.5-18-40-15	1070+06.55 0.0
6986	8.6	29.23	XG-2.5-12-35-15	1069+50.55 0.0
6985	6.7	28.59	XG-2.5-18-40-15	1068+94.55 0.0
6984	6.1	27.89	XG-2.5-18-40-15	1068+38.55 0.0
6983	5.1	27.19	XG-2.5-18-40-15	1067+82.55 0.0
6982	7.5	26.68	XG-2.5-12-35-15	1067+31.55 0.0
6981	8.2	26.30	XG-2.5-12-35-15	1066+80.55 0.0
6980	9.0	26.04	XG-2.5-12-35-15	1066+29.55 0.0
6979	9.9	25.92	XG-2.5-12-30-15	1065+78.55 0.0
6978	10.1	25.92	XG-2.5-12-30-15	1065+27.55 0.0
6977	10.4	25.92	XG-2.5-18-30-15	1064+76.55 0.0
6976	10.2	25.92	XS-08-12-30-15	1064+26.55 0.0
6975	10.1	25.92	XS-08-12-30-15	1063+86.55 0.0
6974	10.2	25.92	XS-08-12-30-15	1063+46.55 0.0
6973	10.2	25.92	XS-08-12-30-15	1063+06.55 0.0
6972	10.3	25.92	XG-2.5-18-30-15	1062+56.55 0.0
6971	10.6	26.08	XG-2.5-12-30-15	1062+01.55 0.0
6970	11.3	26.41	XG-2.5-12-30-15	1061+46.55 0.0

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RSH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1061+00 TO STA 1093+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060036-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

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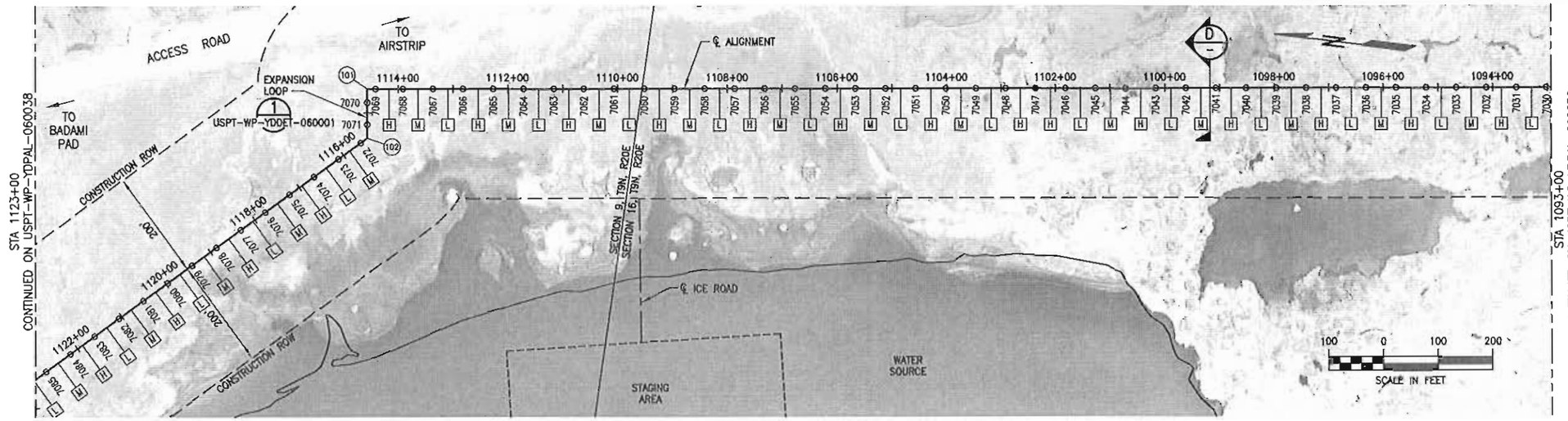


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1093+00 TO 1123+00	12.75" OIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
101	PI	1114+56.55	5902794.24	1506976.53	90.0°
102	PI	1115+46.55	5902782.88	1506887.25	54.0°

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

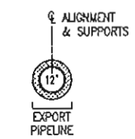
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES

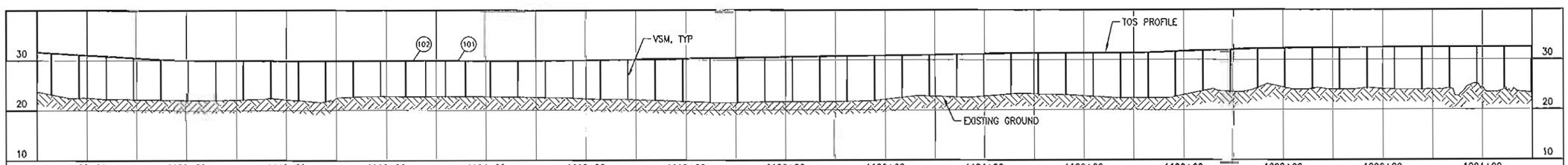
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D — TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	GROUND ELEV (FT)
7085	31.47	XG-2.5-08-25-15	1122+71.55 0.0	23.2
7084	31.14	XG-2.5-08-25-15	1122+18.55 0.0	22.5
7083	30.81	XG-2.5-08-25-15	1121+81.55 0.0	22.2
7082	30.48	XG-2.5-08-25-15	1121+06.55 0.0	22.1
7081	30.15	XG-2.5-08-25-15	1120+51.55 0.0	22.1
7080	29.96	XG-2.5-08-25-15	1119+96.55 0.0	22.0
7079	29.88	XG-2.5-08-25-15	1119+41.55 0.0	22.0
7078	29.88	XG-2.5-08-25-15	1118+86.55 0.0	22.1
7077	29.88	XG-2.5-08-25-15	1118+31.55 0.0	22.4
7076	29.88	XG-2.5-08-25-15	1117+76.55 0.0	22.0
7075	29.88	XG-2.5-08-25-15	1117+21.55 0.0	21.8
7074	29.88	XG-2.5-08-25-15	1116+66.55 0.0	22.7
7073	29.88	XG-2.5-12-25-15	1116+11.55 0.0	22.8
7072	29.88	XS-08-12-25-15	1115+81.55 0.0	22.8
7071	29.88	XS-08-12-25-15	1115+21.55 0.0	22.8
7070	29.88	XS-08-12-25-15	1114+81.55 0.0	22.8
7069	29.88	XS-08-12-25-15	1114+41.55 0.0	22.8
7068	29.88	XG-2.5-12-25-15	1113+91.55 0.0	22.7
7067	29.88	XG-2.5-12-25-15	1113+36.55 0.0	22.7
7066	29.88	XG-2.5-08-25-15	1112+81.55 0.0	22.6
7065	29.96	XG-2.5-08-25-15	1112+26.55 0.0	22.5
7064	30.04	XG-2.5-08-25-15	1111+71.55 0.0	22.2
7063	30.13	XG-2.5-08-25-15	1111+16.55 0.0	22.2
7062	30.21	XG-2.5-08-25-15	1110+61.55 0.0	22.0
7061	30.29	XG-2.5-08-25-15	1110+06.55 0.0	21.8
7060	30.37	XG-2.5-08-25-15	1109+51.55 0.0	21.6
7059	30.46	XG-2.5-08-25-15	1108+36.55 0.0	21.6
7058	30.54	XG-2.5-08-25-15	1108+41.55 0.0	21.7
7057	30.62	XG-2.5-08-25-15	1107+86.55 0.0	21.7
7056	30.70	XG-2.5-08-25-15	1107+31.55 0.0	21.6
7055	30.79	XG-2.5-08-25-15	1106+76.55 0.0	21.7
7054	30.87	XG-2.5-08-25-15	1106+21.55 0.0	21.9
7053	30.95	XG-2.5-08-25-15	1105+66.55 0.0	22.5
7052	31.03	XG-2.5-08-25-15	1105+11.55 0.0	22.8
7051	31.12	XG-2.5-08-25-15	1104+56.55 0.0	22.6
7050	31.20	XG-2.5-08-25-15	1104+01.55 0.0	22.7
7049	31.28	XG-2.5-08-25-15	1103+46.55 0.0	23.2
7048	31.36	XG-2.5-08-25-15	1102+91.55 0.0	23.2
7047	31.36	XA-2.5-18-30-20	1102+36.55 0.0	23.0
7046	31.36	XG-2.5-08-25-15	1101+81.55 0.0	22.7
7045	31.36	XG-2.5-08-25-15	1101+26.55 0.0	22.4
7044	31.45	XG-2.5-08-25-15	1100+71.55 0.0	22.4
7043	31.64	XG-2.5-08-25-15	1100+16.55 0.0	22.7
7042	31.83	XG-2.5-08-25-15	1099+61.55 0.0	23.8
7041	32.02	XG-2.5-08-25-15	1099+06.55 0.0	23.6
7040	32.22	XG-2.5-08-25-15	1098+51.55 0.0	24.4
7039	32.27	XG-2.5-08-25-15	1097+96.55 0.0	24.4
7038	32.33	XG-2.5-08-25-15	1097+41.55 0.0	24.2
7037	32.38	XG-2.5-08-25-15	1096+86.55 0.0	24.0
7036	32.44	XG-2.5-08-25-15	1096+31.55 0.0	24.3
7035	32.49	XG-2.5-08-25-15	1095+76.55 0.0	24.1
7034	32.49	XG-2.5-08-25-15	1095+21.55 0.0	24.0
7033	32.49	XG-2.5-08-25-15	1094+66.55 0.0	24.3
7032	32.49	XG-2.5-08-25-15	1094+11.55 0.0	25.2
7031	32.49	XG-2.5-08-25-15	1093+56.55 0.0	24.6
7030	32.49	XG-2.5-08-25-15	1093+01.55 0.0	23.4

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA — PAUL A. CARSON — PROFESSIONAL ENGINEER — 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1093+00 TO STA 1123+00

POINT THOMSON — ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDPAL-060037-001 — SHEET 1 of 1 — REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060037-001

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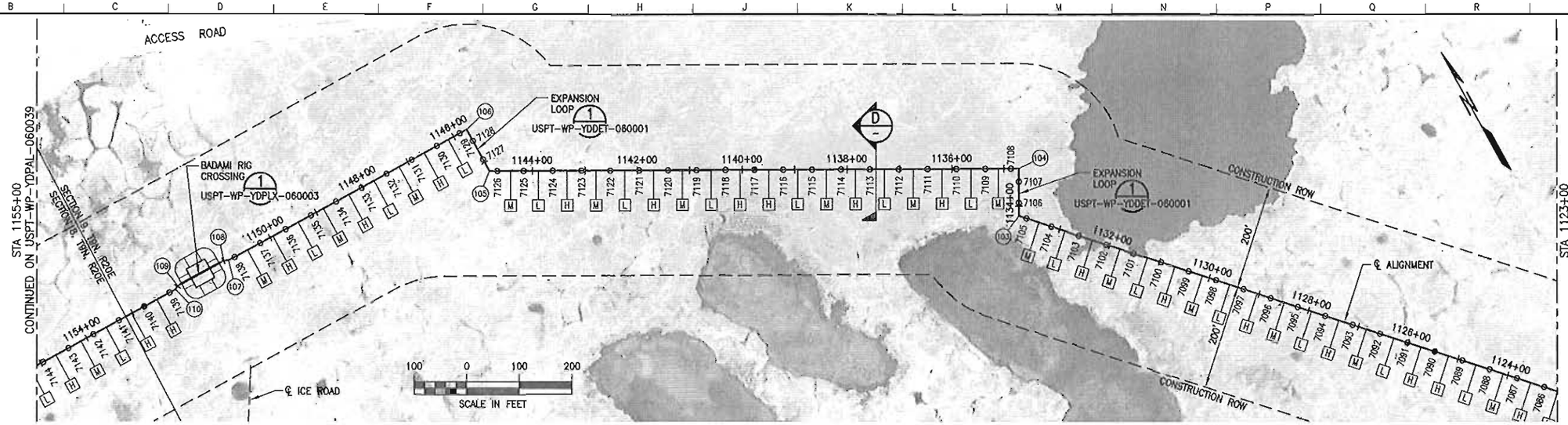


PIPELINE DATA TABLE				
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1123+00 TO 1155+00	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0

COORDINATE TABLE					
POINT (i)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
103	PI	1133+81.55	5904119.44	1505629.94	71.7°
104	PI	1134+71.55	5904198.55	1505672.85	90.0°
105	PI	1144+81.55	5904680.14	1504785.06	61.5°
106	PI	1145+71.55	5904770.14	1504785.06	90.0°
107	PI/VPI	1150+89.72	5904770.14	1504266.90	27.6°
108	PI/VPI	1150+98.35	5904774.14	1504259.24	27.6°
109	PI/VPI	1151+98.70	5904774.14	1504158.89	31.1°
110	PI/VPI	1152+06.88	5904770.14	1504151.99	31.1°

PIPE SUPPORT IDENTIFICATION

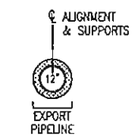
VS-06-704-XXXX
- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

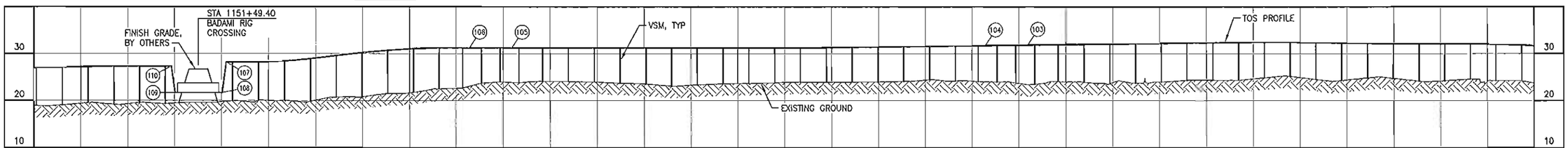
XX-XX-XX-XX-XX
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND
- ○ GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (i) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA



D ~ TYPICAL PIPELINE SECTION
SCALE: 3/8" = 1'-0"



STATION	TOS ELEV (FT)	SUPPORT TYPE	STATION & OFFSET (FT)	SUPPORT NUMBER	GROUND ELEV (FT)
1154+94.84	26.97	XG-2.5-08-25-15	0.0	7144	19.0
1154+39.84	27.09	XG-2.5-08-25-15	0.0	7143	19.1
1153+84.84	27.21	XG-2.5-08-25-15	0.0	7142	19.6
1153+29.84	27.33	XG-2.5-08-25-15	0.0	7141	19.2
1152+74.84	27.33	XA-2.5-18-30-20	0.0	7140	19.6
1152+19.84	27.33	XG-2.5-12-25-15	0.0	7139	19.4
1150+76.55	28.20	XG-2.5-12-25-15	0.0	7138	20.0
1150+21.55	28.20	XG-2.5-08-25-15	0.0	7137	20.1
1149+66.55	28.42	XG-2.5-08-25-15	0.0	7136	20.1
1149+11.55	28.92	XG-2.5-08-25-15	0.0	7135	19.8
1148+56.55	29.56	XG-2.5-08-25-15	0.0	7134	20.8
1148+01.55	30.24	XG-2.5-08-25-15	0.0	7133	20.8
1147+46.55	30.73	XG-2.5-08-25-15	0.0	7132	21.5
1146+91.55	31.06	XG-2.5-12-25-15	0.0	7131	21.8
1146+36.55	31.23	XG-2.5-12-25-15	0.0	7130	22.5
1145+86.55	31.23	XS-08-12-25-15	0.0	7129	22.7
1145+46.55	31.23	XS-08-12-25-15	0.0	7128	23.7
1145+06.55	31.23	XS-08-12-25-15	0.0	7127	24.0
1144+66.55	31.23	XS-08-12-25-15	0.0	7126	23.8
1144+16.55	31.23	XG-2.5-12-25-15	0.0	7125	24.1
1143+61.55	31.23	XG-2.5-08-25-15	0.0	7124	24.1
1143+06.55	31.23	XG-2.5-08-25-15	0.0	7123	24.0
1142+51.55	31.23	XG-2.5-08-25-15	0.0	7122	23.8
1141+96.55	31.23	XG-2.5-08-25-15	0.0	7121	23.5
1141+41.55	31.23	XG-2.5-08-25-15	0.0	7120	23.1
1140+86.55	31.23	XG-2.5-08-25-15	0.0	7119	23.4
1140+31.55	31.23	XG-2.5-08-25-15	0.0	7118	23.6
1139+76.55	31.23	XA-2.5-18-30-20	0.0	7117	23.7
1139+21.55	31.23	XG-2.5-08-25-15	0.0	7116	23.8
1138+66.55	31.23	XG-2.5-08-25-15	0.0	7115	23.9
1138+11.55	31.30	XG-2.5-08-25-15	0.0	7114	24.0
1137+56.55	31.35	XG-2.5-08-25-15	0.0	7113	24.0
1137+01.55	31.43	XG-2.5-08-25-15	0.0	7112	24.0
1136+46.55	31.50	XG-2.5-08-25-15	0.0	7111	24.1
1135+91.55	31.57	XG-2.5-08-25-15	0.0	7110	24.5
1135+36.55	31.64	XG-2.5-12-25-15	0.0	7109	24.2
1134+85.55	31.70	XS-08-12-25-15	0.0	7108	24.1
1134+46.55	31.75	XS-08-12-25-15	0.0	7107	24.0
1134+06.55	31.80	XS-08-12-25-15	0.0	7106	23.8
1133+66.55	31.85	XS-08-12-25-15	0.0	7105	23.5
1133+16.55	31.91	XG-2.5-12-25-15	0.0	7104	24.1
1132+61.55	31.98	XG-2.5-08-25-15	0.0	7103	24.0
1132+06.55	32.05	XG-2.5-08-25-15	0.0	7102	23.6
1131+51.55	32.12	XG-2.5-08-25-15	0.0	7101	23.7
1130+95.55	32.19	XG-2.5-08-25-15	0.0	7100	24.0
1130+41.55	32.25	XG-2.5-08-25-15	0.0	7099	24.4
1129+85.55	32.33	XG-2.5-08-25-15	0.0	7098	24.4
1129+31.55	32.40	XG-2.5-08-25-15	0.0	7097	24.4
1128+76.55	32.46	XG-2.5-08-25-15	0.0	7096	24.9
1128+21.55	32.46	XG-2.5-08-25-15	0.0	7095	25.2
1127+66.55	32.37	XG-2.5-08-25-15	0.0	7094	24.5
1127+11.55	32.27	XG-2.5-08-25-15	0.0	7093	24.3
1126+56.55	32.18	XG-2.5-08-25-15	0.0	7092	24.8
1126+01.55	32.08	XG-2.5-08-25-15	0.0	7091	24.8
1125+46.55	32.08	XA-2.5-18-30-20	0.0	7090	24.2
1124+91.55	32.08	XG-2.5-08-25-15	0.0	7089	24.2
1124+36.55	32.08	XG-2.5-08-25-15	0.0	7088	24.6
1123+81.55	32.00	XG-2.5-08-25-15	0.0	7087	24.3
1123+26.55	31.80	XG-2.5-08-25-15	0.0	7086	24.2

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN
USPT-WP-YDPLX-060003	ROAD CROSSING PLAN AND SECTION BADAMI RIG CROSSING

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1123+00 TO STA 1155+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPAL-060038-001 SHEET 1 of 1 REV 10

PT-O-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060038-001

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NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.
7. FOR WIND-INDUCED VIBRATION MITIGATION PLAN AND TUNED VIBRATION ABSORBER (TVA) INSTALLATION, SEE USPT-WP-YDWIV-060001.

LEGEND

- o GUIDED OR SLIDING SUPPORT
- ● ANCHORED SUPPORT
- (I) PI OR VPI LOCATION
- [H] HIGH FREQUENCY TVA
- [L] LOW FREQUENCY TVA
- [M] MEDIUM FREQUENCY TVA

PIPE SUPPORT IDENTIFICATION

VS-06-704-XXXX

- VERTICAL SUPPORT
- LOCATION CODE
- UNIT/MODULE
- SEQUENTIAL NUMBER (SHOWN ON PLAN & PROFILE)

SUPPORT TYPE NOMENCLATURE

XX-XX-XX-XX-XX

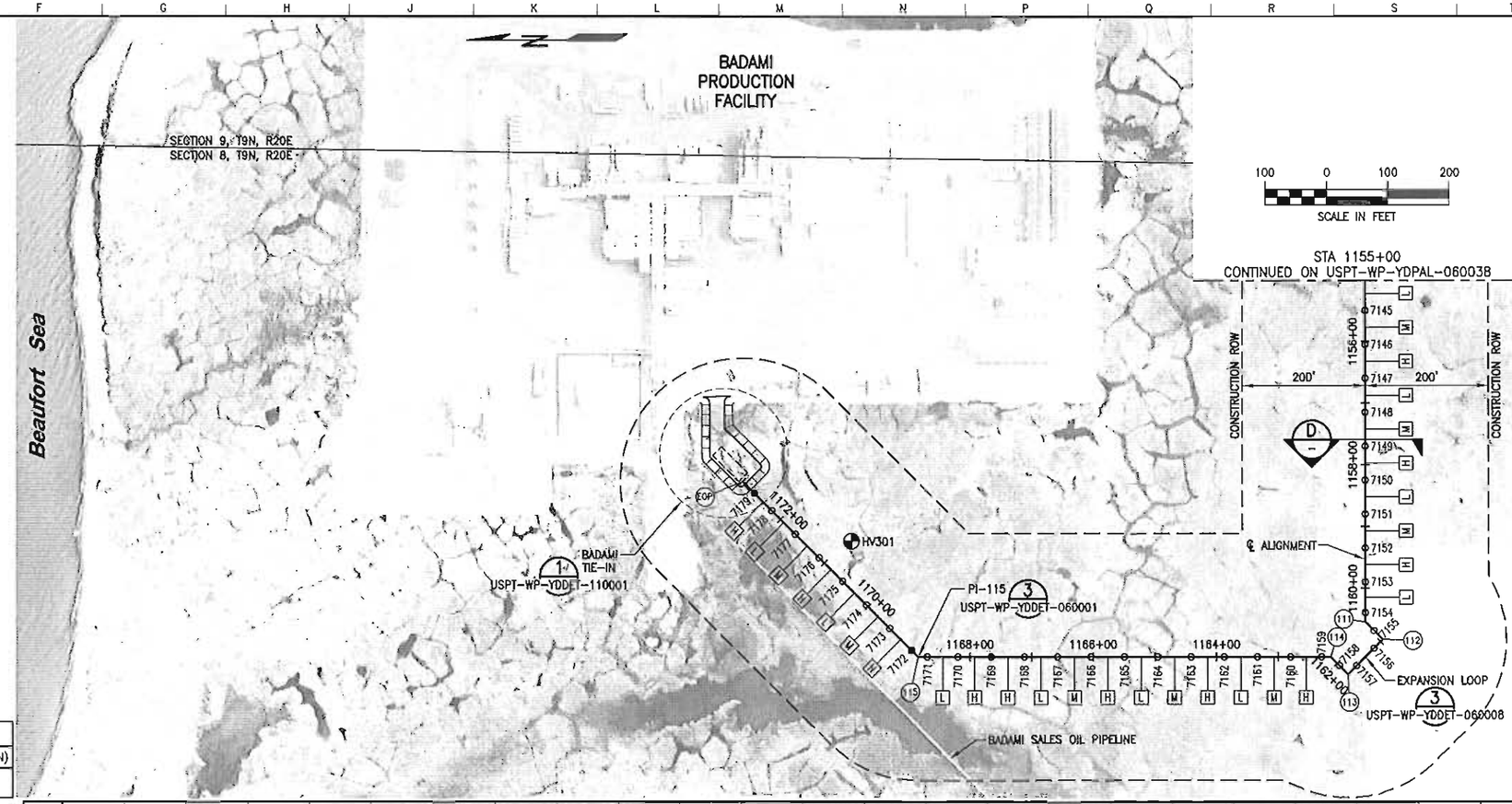
- EXPORT = "X"
- GUIDE = "G"
- SLIDE = "S"
- ANCHOR = "A"
- HSM LENGTH (FT)
- NOMINAL VSM DIAMETER (IN)
- VSM LENGTH (FT)
- MINIMUM EMBEDMENT (FT)

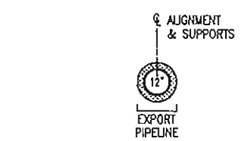
COORDINATE TABLE

POINT (I)	DESCRIPTION	STATION	NORTHING	EASTING	ANGLE
111	PI	1160+54.84	5904770.14	1503303.83	45.0°
112	PI	1160+94.84	5904741.86	1503275.55	90.0°
113	PI	1161+74.84	5904798.43	1503218.98	90.0°
114	PI	1162+14.84	5904826.71	1503247.26	45.0°
115	PI	1168+84.84	5905496.71	1503247.26	45.0°
EOP	END OF PIPELINE	1172+86.84	5905780.97	1503531.52	--

PIPELINE DATA TABLE

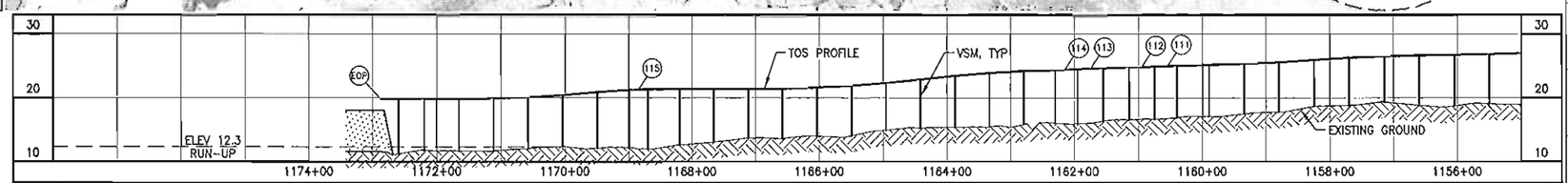
LOCATION	MATERIAL	WALL THK (IN)	FBE COATING (MIL)	INSULATION (IN)
1155+00 TO EOP	12.75" DIA API 5L X65	0.406	SHOP: 20 MIN, 32 MAX FIELD: 25 MIN, 39 MAX	3.0





(D) TYPICAL PIPELINE SECTION

SCALE: 3/8" = 1'-0"



SUPPORT NUMBER	SUPPORT TYPE	STATION & OFFSET (FT)	GROUND ELEV (FT)	TOS ELEV (FT)
7179	XA-2.5-18-30-20	1172+59.84 0.0	11.2	19.75
7178	XG-2.5-08-25-15	1172+19.84 0.0	11.8	19.75
7177	XG-2.5-08-25-15	1171+65.84 0.0	11.7	19.75
7176	XG-2.5-08-25-15	1171+11.84 0.0	11.7	19.87
7175	XG-2.5-08-25-15	1170+57.84 0.0	12.0	20.05
7174	XG-2.5-08-25-15	1170+03.84 0.0	12.4	20.40
7173	XG-2.5-12-25-15	1169+49.84 0.0	12.1	20.88
7172	XS-08-12-25-15	1168+99.84 0.0	12.2	21.21
7171	XS-08-12-25-15	1168+69.84 0.0	12.0	21.31
7170	XG-2.5-12-25-15	1168+19.84 0.0	12.7	21.42
7169	XA-2.5-18-30-20	1167+65.84 0.0	13.1	21.42
7168	XG-2.5-08-25-15	1167+11.84 0.0	13.7	21.42
7167	XG-2.5-08-25-15	1166+57.84 0.0	13.8	21.42
7166	XG-2.5-08-25-15	1166+03.84 0.0	14.0	21.60
7165	XG-2.5-08-25-15	1165+49.84 0.0	14.1	21.89
7164	XG-2.5-08-25-15	1164+95.84 0.0	15.0	22.34
7163	XG-2.5-08-25-15	1164+41.84 0.0	15.3	22.90
7162	XG-2.5-08-25-15	1163+87.84 0.0	15.4	23.47
7161	XG-2.5-08-25-15	1163+33.84 0.0	15.5	23.91
7160	XG-2.5-12-25-15	1162+79.84 0.0	15.9	24.21
7159	XG-2.5-08-25-15	1162+29.84 0.0	16.1	24.37
7158	XS-08-08-25-15	1161+94.84 0.0	16.0	24.49
7157	XS-08-12-25-15	1161+54.84 0.0	16.3	24.62
7156	XS-08-12-25-15	1161+14.84 0.0	16.5	24.75
7155	XS-08-08-25-15	1160+74.84 0.0	16.7	24.88
7154	XG-2.5-12-25-15	1160+39.84 0.0	16.9	25.00
7153	XG-2.5-12-25-15	1159+89.84 0.0	17.1	25.16
7152	XG-2.5-08-25-15	1159+34.84 0.0	17.5	25.35
7151	XG-2.5-08-25-15	1158+79.84 0.0	17.8	25.58
7150	XG-2.5-08-25-15	1158+24.84 0.0	18.7	25.92
7149	XG-2.5-08-25-15	1157+69.84 0.0	18.8	26.27
7148	XG-2.5-08-25-15	1157+14.84 0.0	19.3	26.50
7147	XG-2.5-08-25-15	1156+58.84 0.0	18.8	25.62
7146	XG-2.5-08-25-15	1156+04.84 0.0	18.8	26.74
7145	XG-2.5-08-25-15	1155+49.84 0.0	19.1	26.86

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDSYM-060001	PROJECT NOTES, ABBREVIATIONS AND LEGEND
USPT-WP-YDPAL-060001	SITE PLAN
USPT-WP-YDDET-060001	TYPICAL EXPANSION LOOP DETAIL
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDDET-110001	BADAMI TIE-IN PLAN AND DETAILS
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA 49TH PAUL A. CARSON CE 7715 REGISTERED PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RRH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE ALIGNMENT SHEET
PLAN & PROFILE
STA 1155+00 TO EOP

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	JAG
	R. HOBBS	12/11	AS SHOWN	APPD	PAC

DRAWING NO. USPT-WP-YDPAL-060039-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPAL-060039-001

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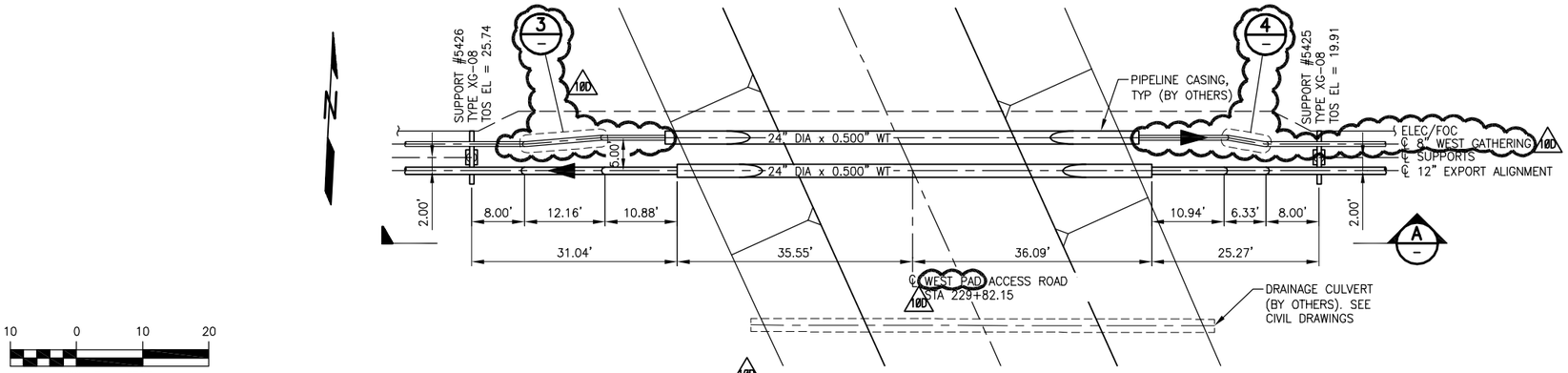
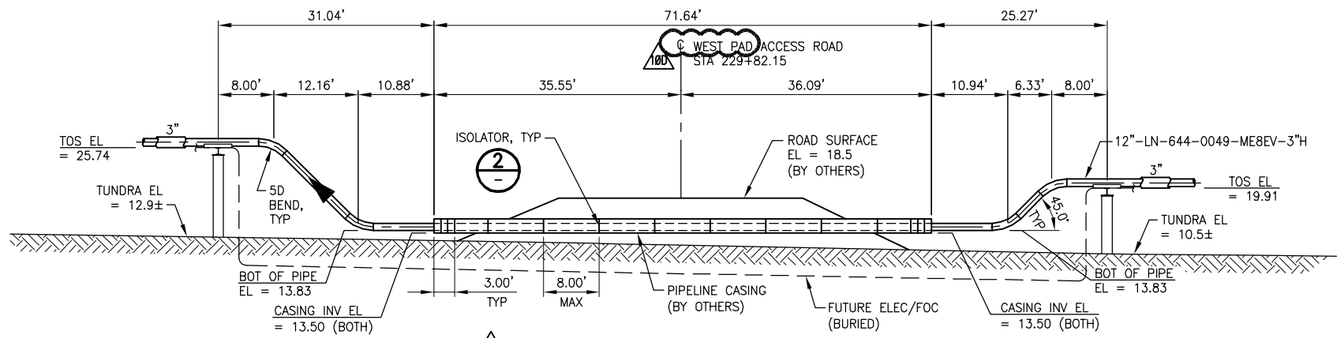


1 WEST PAD ACCESS ROAD – PLAN

USPT-WP-YDPAL-060009 SCALE: 1" = 10'

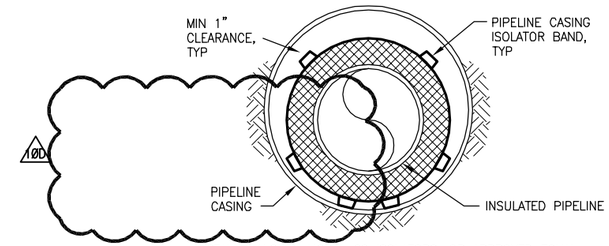


A WEST PAD ACCESS ROAD – SECTION

SCALE: 1" = 10'

NOTES

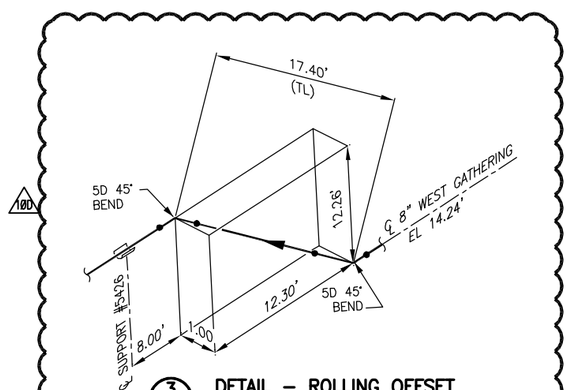
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. ALL PIPELINE BENDS ARE 5D UNLESS NOTED OTHERWISE.
6. PROPOSED GRAVEL ROADWAYS AND PIPELINE CASINGS ARE BY OTHERS.



INSTALL MALONEY MODEL 60 ISOLATORS, OR APPROVED EQUAL, ON THE PIPE AT A MAXIMUM SPACING OF 8-FEET WITHIN CASING. INSTALL THREE (3) ISOLATOR BANDS AT 1-FOOT SPACING WITHIN THE FIRST 3-FEET FROM THE ENDS OF THE CASING.

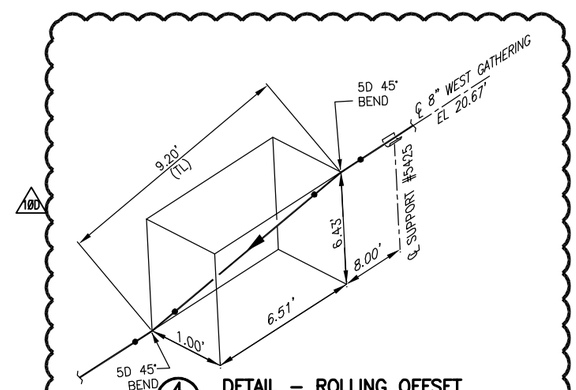
2 PIPELINE CASING ISOLATORS DETAIL

NOT TO SCALE



3 DETAIL – ROLLING OFFSET

NOT TO SCALE



4 DETAIL – ROLLING OFFSET

NOT TO SCALE

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060009	PLAN & PROFILE

PRELIMINARY NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP
10A	05/14/12	ISSUED FOR INTERNAL REVIEW	RFH	JAG	PAC	GMP
10B	05/21/12	ISSUED FOR SQUAD CHECK	RFH	JAG	PAC	GMP
10C	06/08/12	ISSUED FOR CLIENT REVIEW	RFH	JAG	PAC	GMP
10D	06/29/12	ISSUED FOR QUOTE	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy FLUOR Baker

EXPORT PIPELINE – PIPELINE PIPELINE CROSSING DETAIL
WEST PAD ACCESS ROAD

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPLX-060001-001 SHEET 1 of 1 REV 10D

PT-D-BAKER.DWG (24x36)

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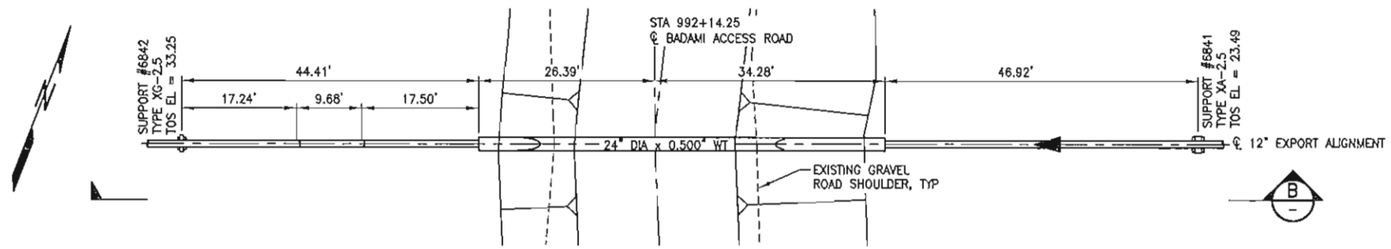
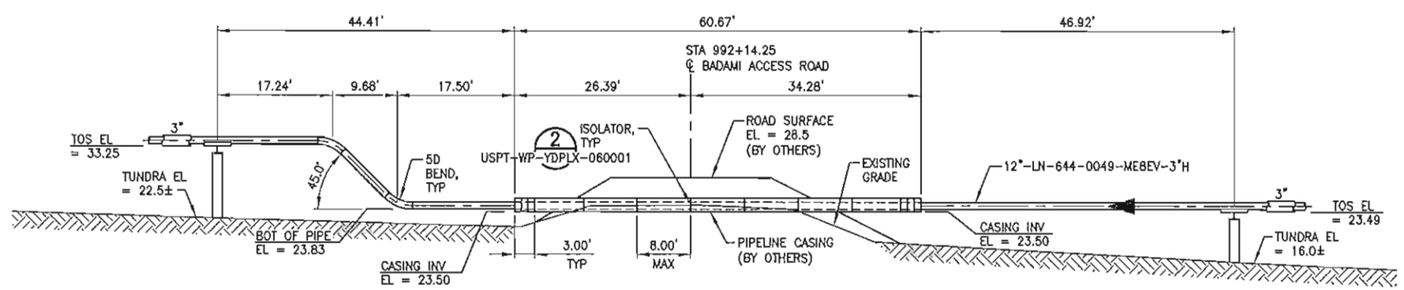
FILENAME: USPT-WP-YDPLX-060001-001

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. ALL PIPELINE BENDS ARE 50 UNLESS NOTED OTHERWISE.
6. PROPOSED GRAVEL ROADWAYS AND PIPELINE CASINGS ARE BY OTHERS.



1 BADAMI ACCESS ROAD – PLAN
USPT-WP-YDPAL-060033 SCALE: 1" = 10'



B BADAMI ACCESS ROAD – SECTION
SCALE: 1" = 10'

10 0 10 20
SCALE IN FEET

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060033	PLAN & PROFILE

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAO	PAC	GWP

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER 12/22/11

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE CROSSING DETAIL
BADAMI ACCESS ROAD

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK APPD	JAO PAC
	R. HOBBS	12/11	AS SHOWN		

DRAWING NO. USPT-WP-YDPLX-060002-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

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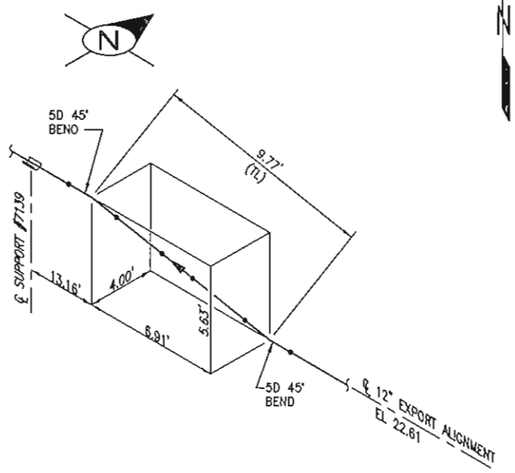
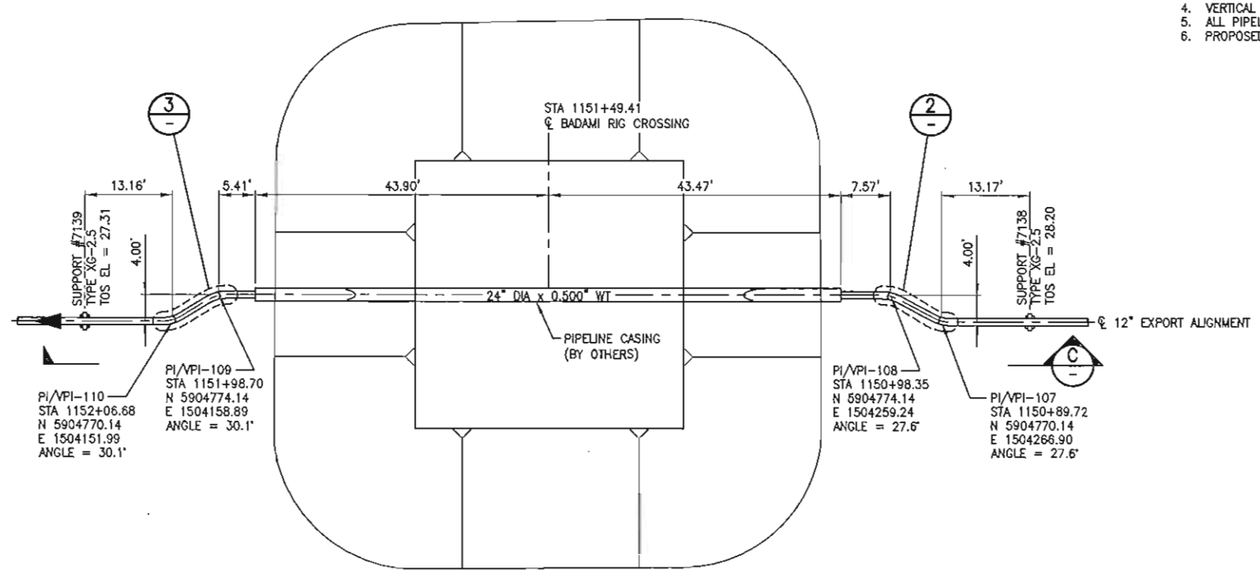
FILENAME: USPT-WP-YDPLX-060002-001

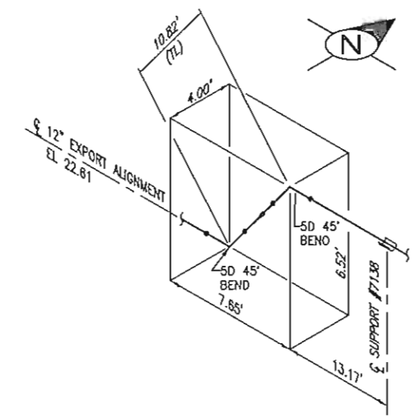
NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. ALL PIPELINE BENDS ARE 5D UNLESS NOTED OTHERWISE.
6. PROPOSED GRAVEL ROADWAYS AND PIPELINE CASINGS ARE BY OTHERS.



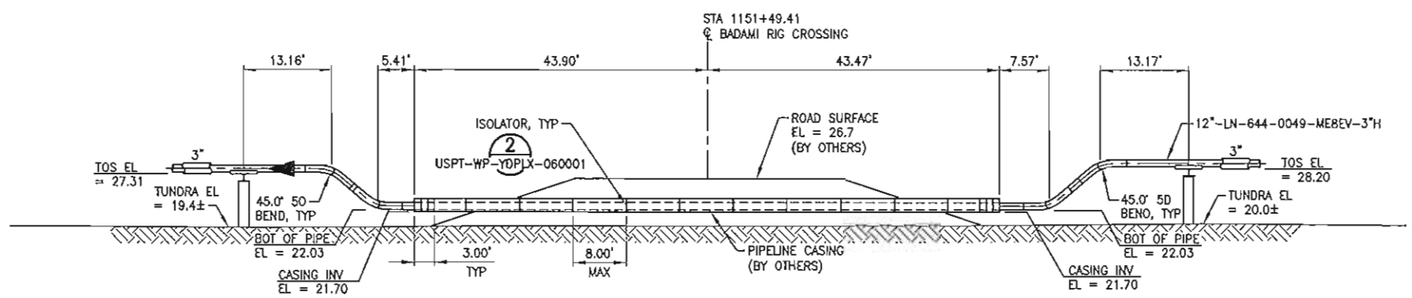
3 DETAIL – ROLLING OFFSET
NOT TO SCALE



1 BADAMI RIG CROSSING – PLAN
USPT-WP-YDPAL-080D38 SCALE: 1" = 10'



2 DETAIL – ROLLING OFFSET
NOT TO SCALE



C BADAMI RIG CROSSING – SECTION
SCALE: 1" = 10'

10 0 10 20
SCALE IN FEET

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-080038	PLAN & PROFILE

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RPH	JAG	PAC	GMP

ExxonMobil Development
WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
PIPELINE CROSSING DETAIL
BADAMI RIG CROSSING

POINT THOMSON ALASKA

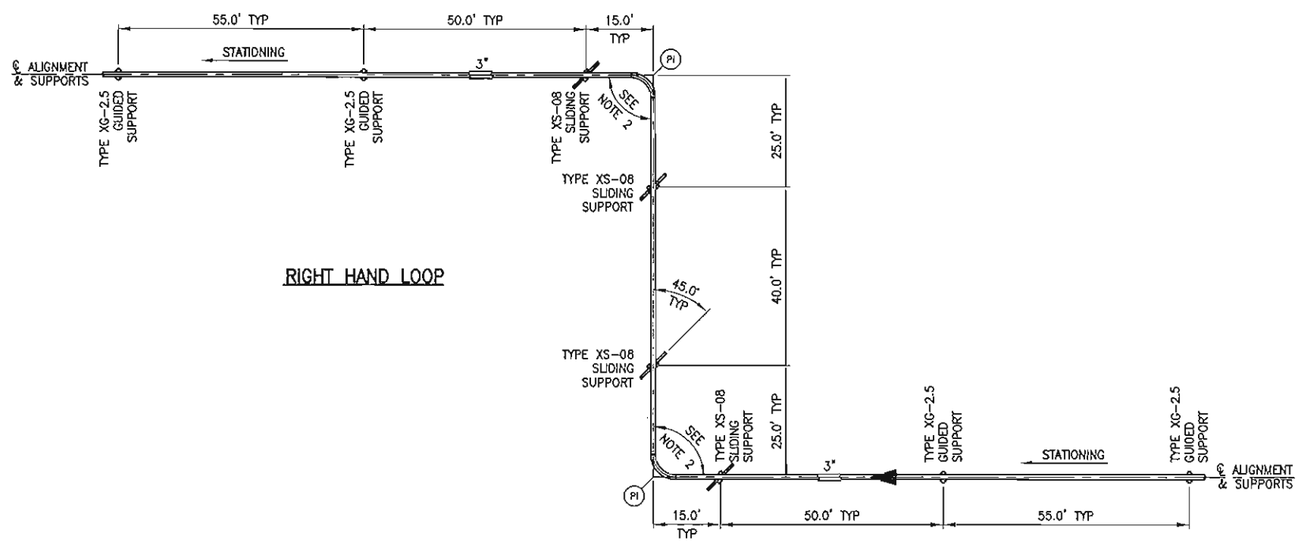
MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDPLX-060003-001 SHEET 1 of 1 REV 10

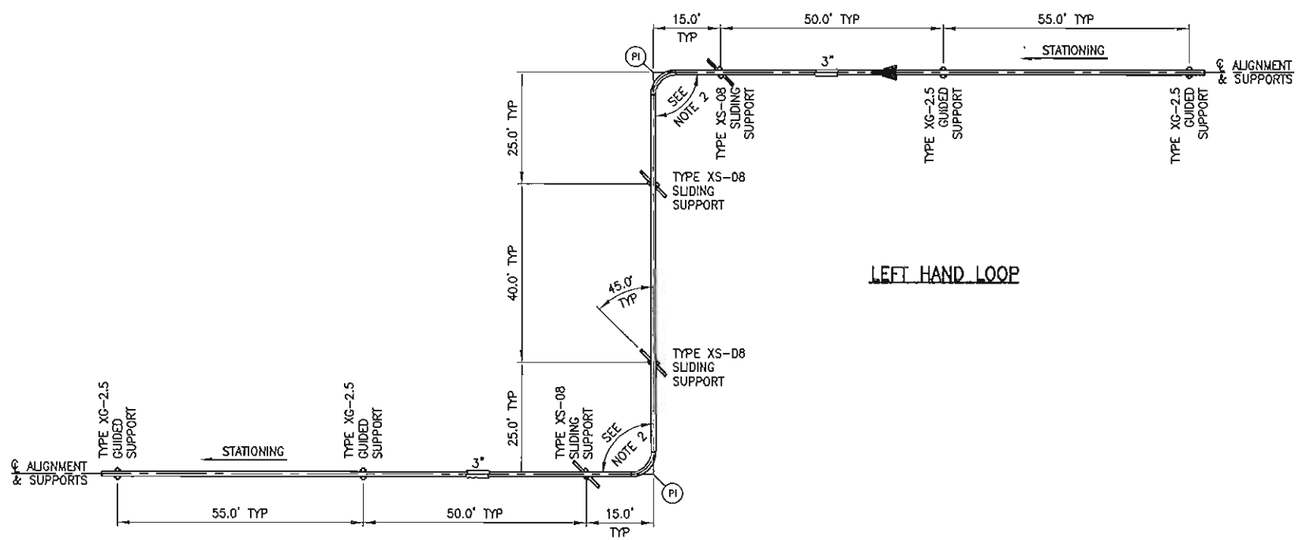
PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDPLX-060003-001

T:\122293 - Point Thomson EPC\03 - CADD\01 - Export\USPT-WP-YDPLX-060001 - 060003.dwg, 060003, 12/21/2011 11:33:15 AM, JAuburn



RIGHT HAND LOOP



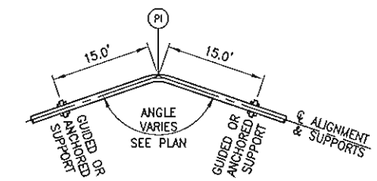
LEFT HAND LOOP

1 TYPICAL EXPANSION LOOP DETAILS
USPT-WP-YDPAL-060010 THRU USPT-WP-YDPAL-060039
SCALE: 1" = 15'

15 0 15 30
SCALE IN FEET

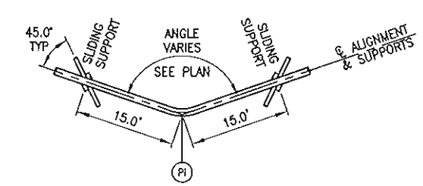
NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. HORIZONTAL BEND ANGLE IS 90 DEGREES TYPICAL, BUT DOES VARY. SEE COORDINATE TABLE ON PLAN AND PROFILE DRAWINGS FOR HORIZONTAL BEND ANGLES AT PI'S (USPT-WP-YDPAL-060010 THRU USPT-WP-YDPAL-060039).
3. HSM LENGTHS VARY. SEE PIPELINE SUPPORT DETAILS ON USPT-WP-YDDET-060010 AND USPT-WP-YDDET-060011.
4. ALL PIPELINE BENDS ARE 5D UNLESS NOTED OTHERWISE.
5. SUPPORT SPACINGS SHOWN ARE TYPICAL, BUT MAY VARY. REFER TO PLAN AND PROFILE DRAWINGS.



TYPICAL FOR PI'S 32, 83, AND 84

2 TYPICAL PI DETAIL
GUIDED OR ANCHORED SUPPORTS
SCALE: 1" = 10'



TYPICAL FOR PI'S 95, 98, AND 115

3 TYPICAL PI DETAIL
SLIDING SUPPORTS
SCALE: 1" = 10'

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060010 THRU 060039	PLANS & PROFILES
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS

STATE OF ALASKA 49TH PAUL A. GARSON CE 7735 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RTH	JAQ	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
TYPICAL PI AND EXPANSION LOOP DETAILS
WEST WELL PAD JUNCTION TO BADAMI

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAQ
	R. HOBBS	12/11	AS SHOWN	APPD PAC

DRAWING NO. USPT-WP-YDDET-060001-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDDET-060001-001

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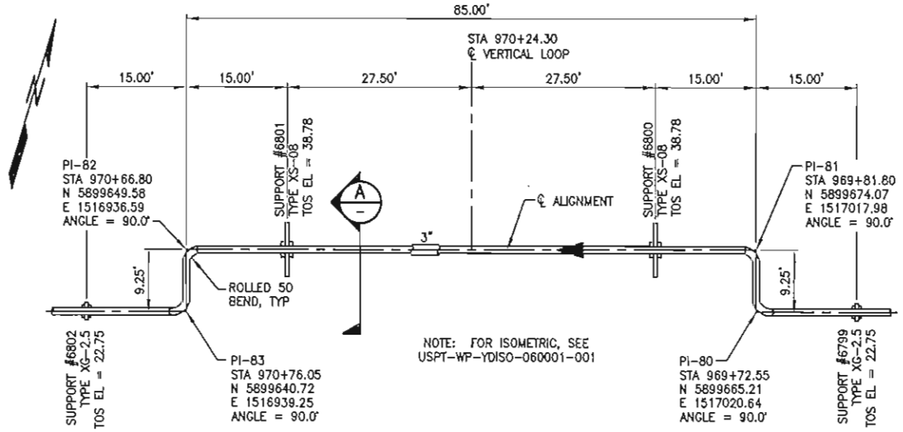
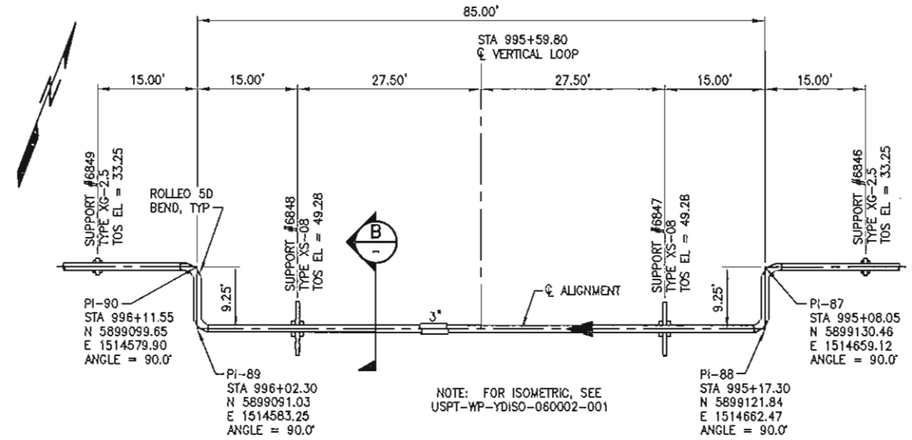
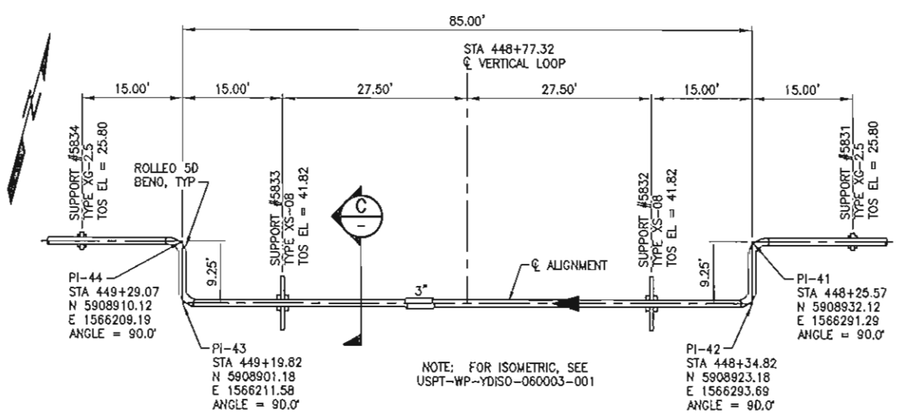


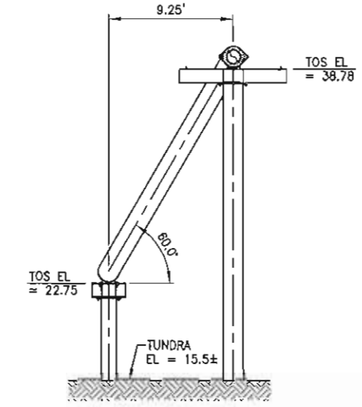
1 BADAMI CREEK
EAST VERTICAL LOOP – PLAN
USPT-WP-YDPAL-060033 SCALE: 1" = 10'



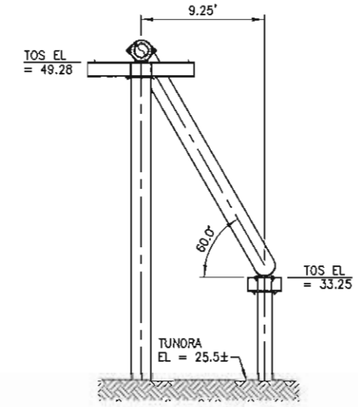
2 BADAMI CREEK
WEST VERTICAL LOOP – PLAN
USPT-WP-YDPAL-060033 SCALE: 1" = 10'



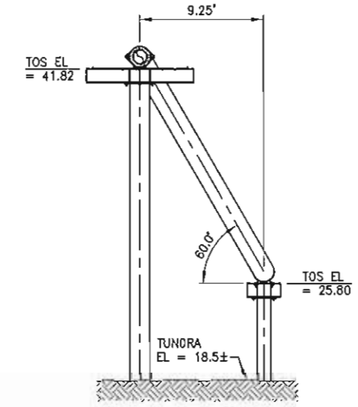
3 "I" CREEK
VERTICAL LOOP – PLAN
USPT-WP-YDPAL-060018 SCALE: 1" = 10'



A BADAMI CREEK
EAST VERTICAL LOOP – ELEVATION
SCALE: 1" = 5'



B BADAMI CREEK
WEST VERTICAL LOOP – ELEVATION
SCALE: 1" = 5'



C "I" CREEK
VERTICAL LOOP – ELEVATION
SCALE: 1" = 5'

10 0 10 20
SCALE IN FEET

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. ALL PIPELINE BENDS ARE 5D UNLESS NOTED OTHERWISE.
5. FOR GUIDED AND ANCHORED SUPPORT DETAILS, SEE USPT-WP-YDDET-060010.
6. FOR SLIDING SUPPORT DETAILS, SEE USPT-WP-YDDET-060011.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060018	PLAN & PROFILE
USPT-WP-YDPAL-060033	PLAN & PROFILE
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS
USPT-WP-YDISO-060001	BADAMI CREEK EAST VERTICAL LOOP ISOMETRIC
USPT-WP-YDISO-060002	BADAMI CREEK WEST VERTICAL LOOP ISOMETRIC
USPT-WP-YDISO-060003	"I" CREEK VERTICAL LOOP ISOMETRIC

STATE OF ALASKA 49TH PAUL A. GIBSON CE 7731 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAG	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
VERTICAL LOOP DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG APPD PAG
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDDET-060002-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDDET-060002-001

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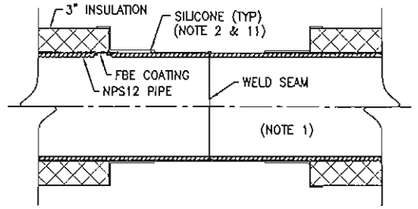
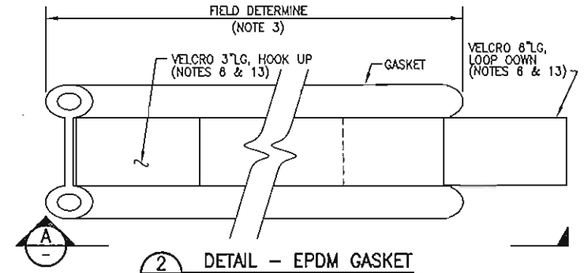
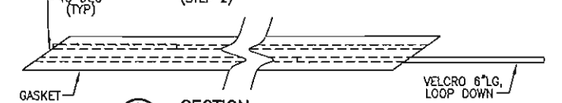


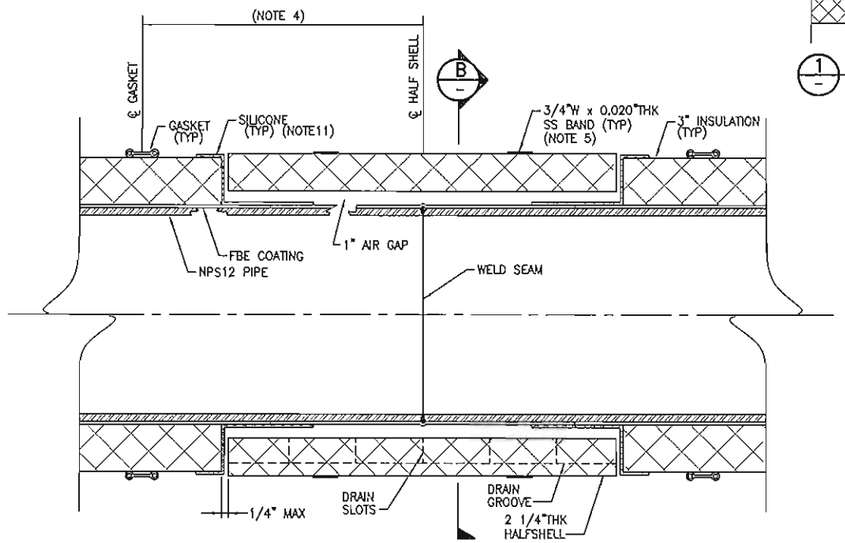
1 DETAIL – SURFACE & INSUL PREP
NOT TO SCALE
(STEP 1)



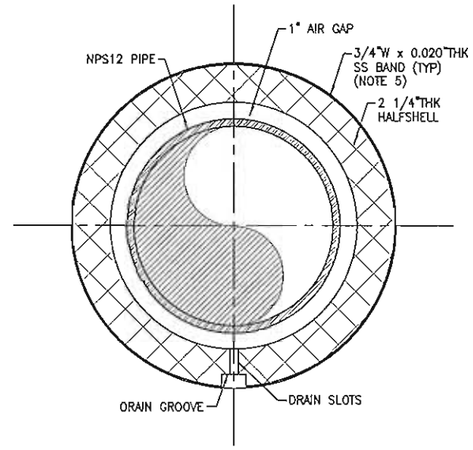
2 DETAIL – EPDM GASKET
NOT TO SCALE
(STEP 2)



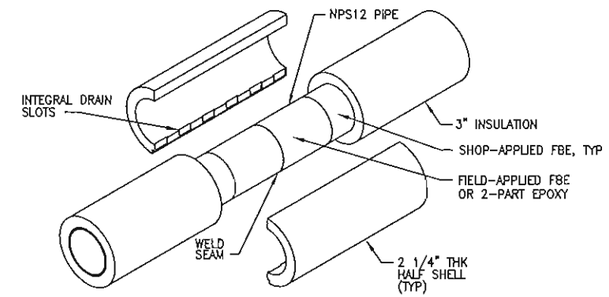
A SECTION
NOT TO SCALE
(STEP 2)



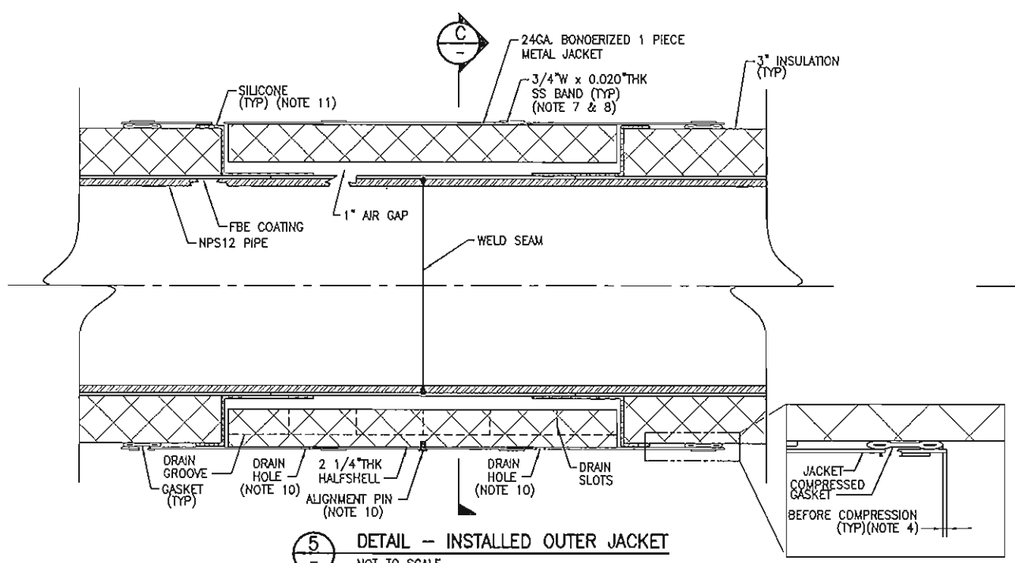
4 DETAIL – INSTALLED HALF SHELL
NOT TO SCALE
(STEP 4)



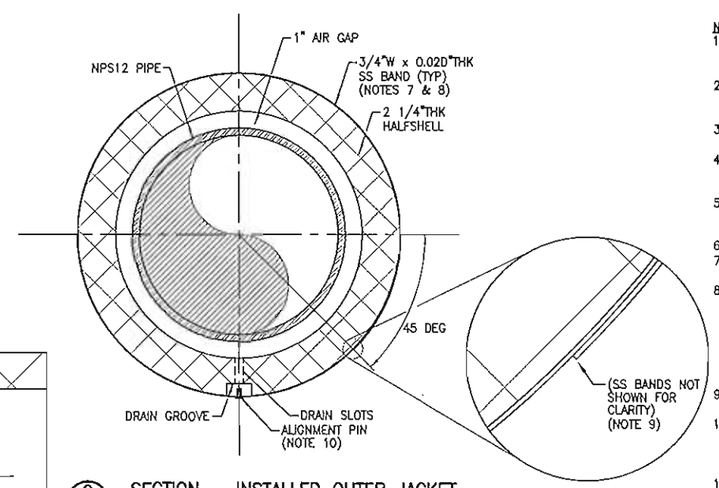
B SECTION – HALF SHELL ASSEMBLY
NOT TO SCALE
(STEP 4)



3 DETAIL – HALF SHELL INSTALLATION
NOT TO SCALE
(STEP 3)



5 DETAIL – INSTALLED OUTER JACKET
NOT TO SCALE
(STEP 5)



C SECTION – INSTALLED OUTER JACKET
NOT TO SCALE
(STEP 5)

NOTES

1. PREP SHALL INCLUDE A CLEAN AND MOISTURE FREE PIPE AND EXPOSED INSULATION SURFACE. BURNED, BROKEN, OR CONTAMINATED INSULATION WILL REQUIRE A SQUARE (PERPENDICULAR TO AXIS OF PIPE) CUTBACK.
2. WATERSTOP REQUIRED. GE SILPRUF SILICONE SHALL BE HAND TROWELED TO A CONTINUOUS FILM OVER EXPOSED INSULATION, EXTENDING MINIMUM 1" ONTO EXTERNAL JACKETING, AND 1 1/2" ONTO CARRIER PIPE.
3. END GASKET TO BE SMOOTH CUT TO A 45 DEG BEVEL. LENGTH TO BE EQUAL TO CIRCUMFERENCE OF THE SHOP INSULATED PIPE & JACKETING. TOLERANCE IS −1"/+0".
4. FIELD TO INSTALL GASKETS SO THAT THE 24 GA METAL JACKET EXTENDS 1/4" PAST THE EDGE OF THE UNCOMPRESSED GASKET. GASKET & 24 GA METAL JACKET TO BE INSTALLED CENTERED OVER THE HALF SHELLS.
5. FIELD TO CUT TO LENGTH & INSTALL SUPPLIED HALF SHELLS IN INSULATION GAP & BAND W/ TWO SS BANDS AS SHOWN IN DETAIL 4. CARE SHALL BE TAKEN TO LEAVE GE SILPRUF SILICONE INTACT WHILE INSTALLING HALF SHELLS.
6. ATTACH HOOK AND LOOP MATERIAL WITH CYANOACRYLATE ADHESIVE.
7. SS BAND LENGTH TO BE THE CIRCUMFERENCE OF THE OUTER JACKET PLUS A 12" TAIL. HEAVY DUTY WING SEAL TO BE WELDED AT ONE END.
8. FIELD TO CENTER 3/4" SS BANDS OVER GASKETS & COMPRESS UNTIL 1/4" THK (TOLERANCE IS 1/8" TO 3/8") W/ TWO SPIN TYPE BANDING TOOLS W/ TENSION LIMITER. LEAVE TOOLS IN PLACE UNTIL MIDDLE BANDS HAVE BEEN INSTALLED, SPACED EQUALLY BETWEEN THE FIRST OUTER BANDS. CARE TO BE TAKEN TO NOT OVERTIGHTEN MIDDLE BANDS AS THEY WILL BUCKLE JACKETING. DO NOT COVER ANY DRAIN HOLES W/ THE BANDS. 4 BAND ASSEMBLIES FOR 18" & 24" GAP KITS, 5 BAND ASSEMBLIES FOR 36", 42", & 48" GAP KITS. RE-CHECK GASKET THICKNESS & BAND TENSION, THEN CRIMP WING SEALS, AND REMOVE TOOLS.
9. OUTER JACKET LAP SEAM LOCATED AT 4:30. A MINIMUM OF 5" OVERLAP IS REQUIRED ON LAP SEAM.
10. ALIGNMENT PIN TO BE INSERTED INTO 1/2" PRE-DRILLED HOLE. ADDITIONALLY, INLINE, TWO 1/2" DRAIN HOLES SHALL EXIST 14" APART, CENTERED ON THE JACKET, FOR 18" GAP KITS. LONGER GAP KITS SHALL REQUIRE ONE DRAIN HOLE AT EACH END, AND ADDITIONAL HOLES, SPACED EVENLY, SO AS TO LIMIT THE MAX. DISTANCE BETWEEN HOLES TO 24".
11. SILICONE SHOWN OVERSIZED FOR CLARITY.
12. INSTALLATION DETAILS MAY VARY SLIGHTLY BASED ON MODEL AND/OR MANUFACTURER CHOSEN.
13. FIELD TO TRIM HOOK AND LOOP MATERIAL AS REQUIRED.
14. FIELD TO VERIFY THAT FIELD APPLIED 2-PART EPOXY OR FBE COATING IS IN PLACE PRIOR TO THE INSTALLATION OF EACH WELD PACK.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060002 THRU 060009	PLANS & PROFILES

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	JRA	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons resources & energy FLUOR Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
WELD PACK INSULATION KITS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG / APPD PAC
	J. AUBURN	12/11	NONE	

DRAWING NO. USPT-WP-YDDET-060009-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

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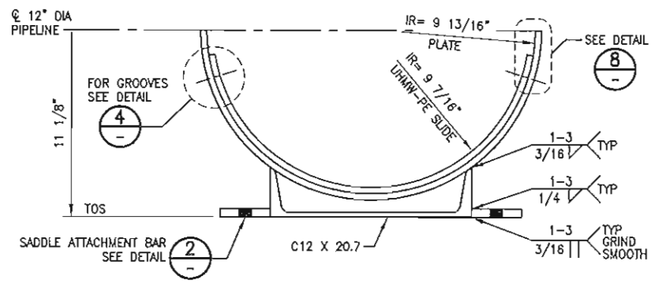
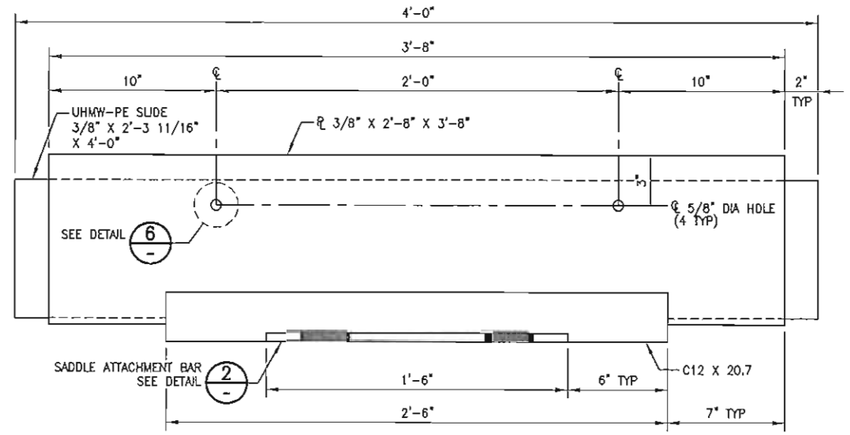


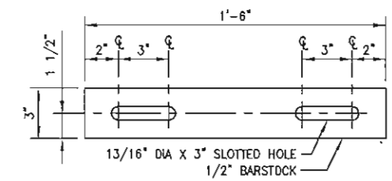
END VIEW



SIDE VIEW

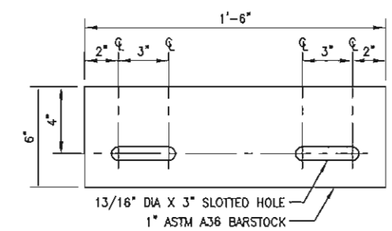
1 TYPICAL GUIDED SADDLE DETAIL

USPT-WP-YDDET-D6DD10 SCALE: 3" = 1'-0"



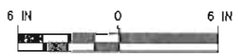
2 SADDLE ATTACHMENT BAR DETAIL

SCALE: 3" = 1'-0"

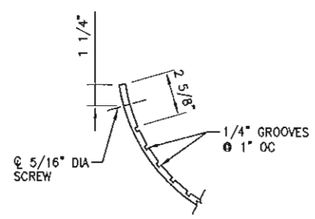


3 SHIM ATTACHMENT BAR DETAIL

SCALE: 3" = 1'-0"

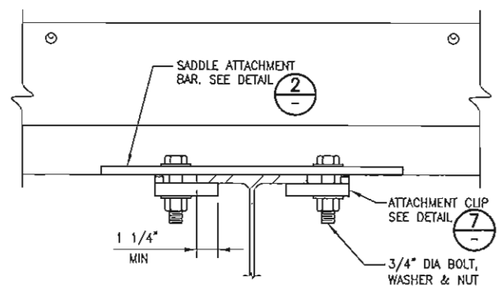


SCALE: 3" = 1'-0"



4 UHMW-PE GROOVE DETAIL

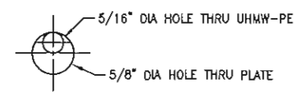
SCALE: 3" = 1'-0"



SIDE VIEW

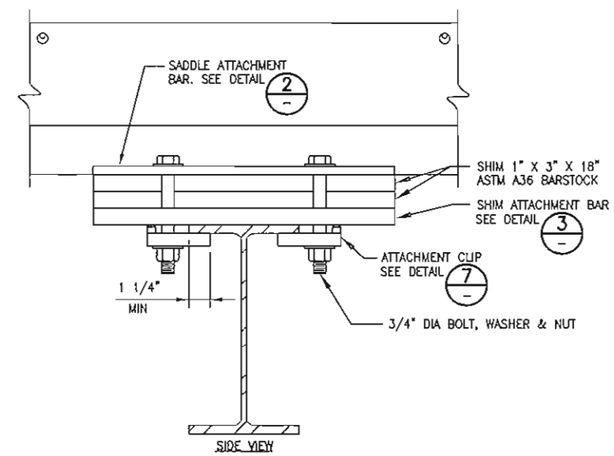
5 SADDLE ATTACHMENT DETAIL

SCALE: 3" = 1'-0"

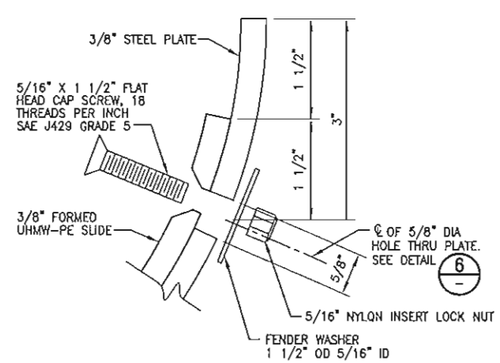


6 SHOE PENETRATION DETAIL

SCALE: 1" = 1"

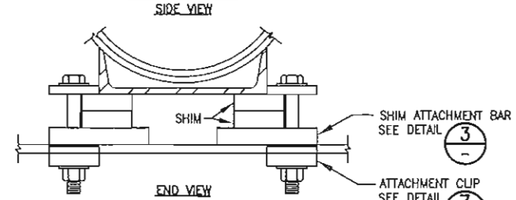


SIDE VIEW



8 UHMW-PE CONNECTION DETAIL

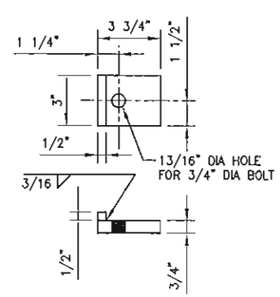
SCALE: 1" = 1"



END VIEW

9 SADDLE SHIM DETAIL

SCALE: 3" = 1'-0"



7 ATTACHMENT CLIP DETAIL

SCALE: 3" = 1'-0"

SADDLE NOTES

1. DRILL OR PUNCH (4) 5/8" DIA HOLES THRU 3/8" STEEL PLATE.
2. DRILL AND INSTALL UHMW-PE AT ROOM TEMPERATURE (APPROX. 65° F).
3. CLAMP UHMW-PE AS REQUIRED TO ENSURE A CLOSE FIT BEFORE DRILLING.
4. DRILL 5/16" DIA HOLE THRU UHMW-PE AT THE TOP CENTER OF THE 5/8" DIA HOLE.
5. COUNTERSINK INNER SURFACE OF UHMW-PE FOR FLAT HEAD SCREW. USE 5/8 X 32° COUNTERSINK BIT, TO A DEPTH OF 1/4". TOP SURFACE OF SCREW MUST BE BELOW UHMW-PE SURFACE.
6. INSTALL SCREW, WASHER AND NUT. TORQUE NUT TO A SNUG FIT, THEN LOOSEN BY ONE TURN.
7. ALL BOLTS 3/4" DIA OR LARGER SHALL BE ASTM A320 GRADE L7 WITH ASTM A194 GRADE 7 S4 NUT AND F436 WASHERS. ALL SADDLE PLATES AND SHAPES SHALL BE ASTM A36.

ATTACHMENT NOTES

1. TORQUE BOLTS PER AISC TURN-OF-NUT PRETENSIONING.
2. CENTER SADDLE LENGTHWISE ON THE BEAM.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
GUIDED SADDLE DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAG APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDDET-060013-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDDET-060013-001

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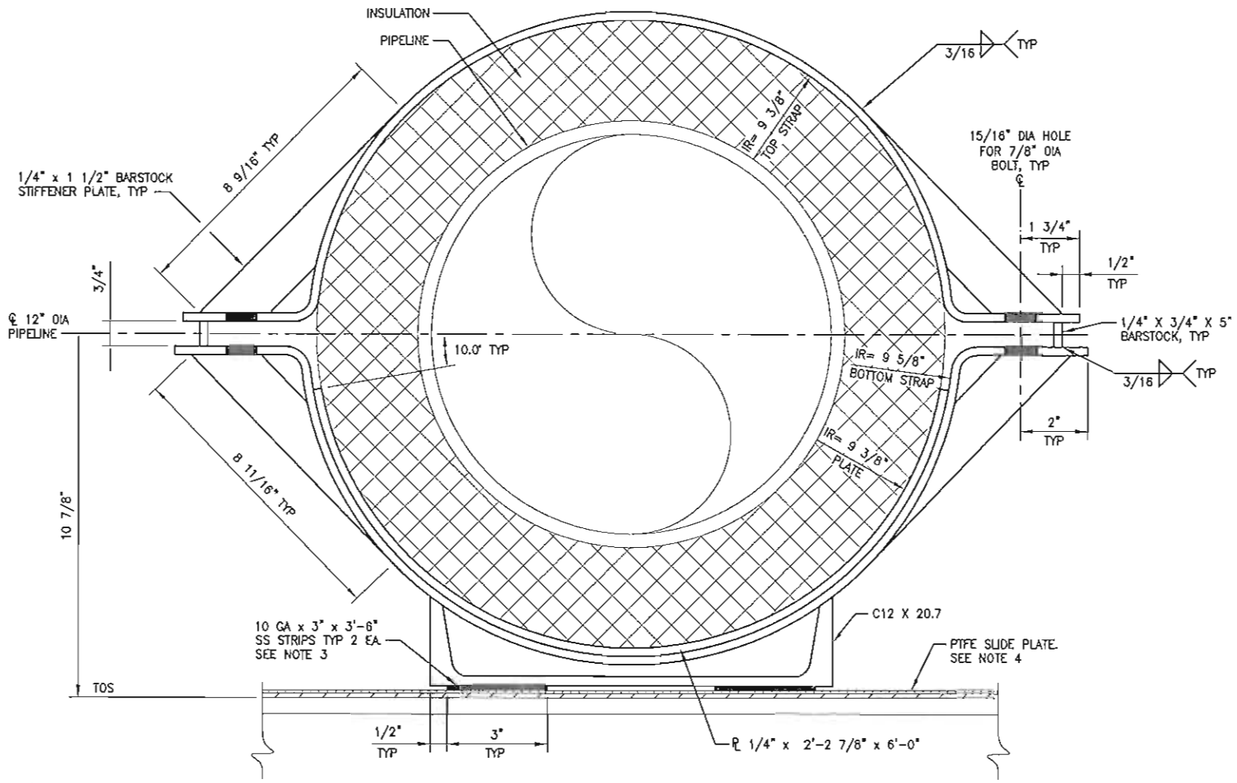
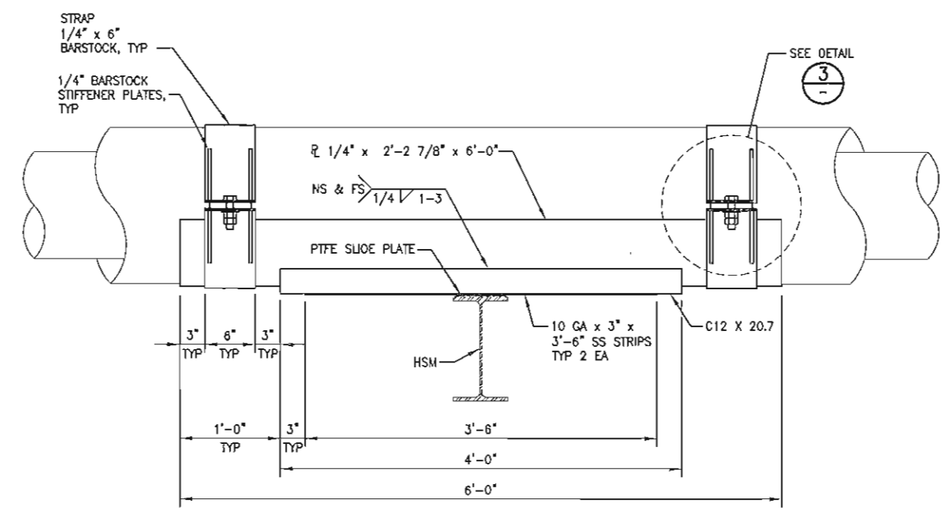
NOTES

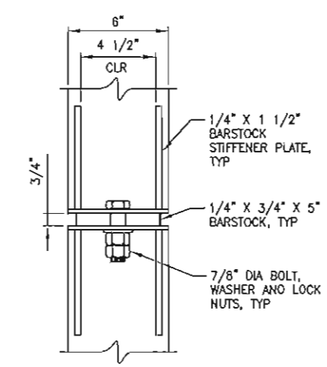
1. ALL SADDLE PLATES AND SHAPES SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL BOLTS SHALL BE 7/8" DIA ASTM A320 GRADE L7 WITH ASTM A194 GRADE 7 S4 NUTS AND F436 WASHER. TORQUE BOLTS TO 100 FT-LB WITH SINGLE NUT AND TIGHTEN LOCK NUT.
3. STAINLESS STEEL STRIPS SHALL HAVE A CLASS 2B FINISH.
4. FOR THE COMPLETE SPECIFICATIONS OF THE PTFE SLIDE PLATE, SEE SPECIFICATION USPT-WP-YSPDS-000030.



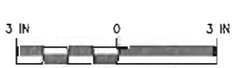
1 TYPICAL SLIDING SADDLE DETAIL
USPT-WP-YDDET-060011 SCALE: 6" = 1'-0"



2 TYPICAL SLIDING SADDLE ELEVATION
SCALE: 1 1/2" = 1'-0"



3 STRAP CONNECTION DETAIL
SCALE: 3" = 1'-0"



SCALE: 6" = 1'-0"

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS

STATE OF ALASKA 49TH PAUL A. DARSON CE 7333 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAD	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
SLIDING SADDLE DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	APPD
	R. HOBBS	12/11	AS SHOWN	JAD	PAC

DRAWING NO. USPT-WP-YDDET-060014-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDDET-060014-001

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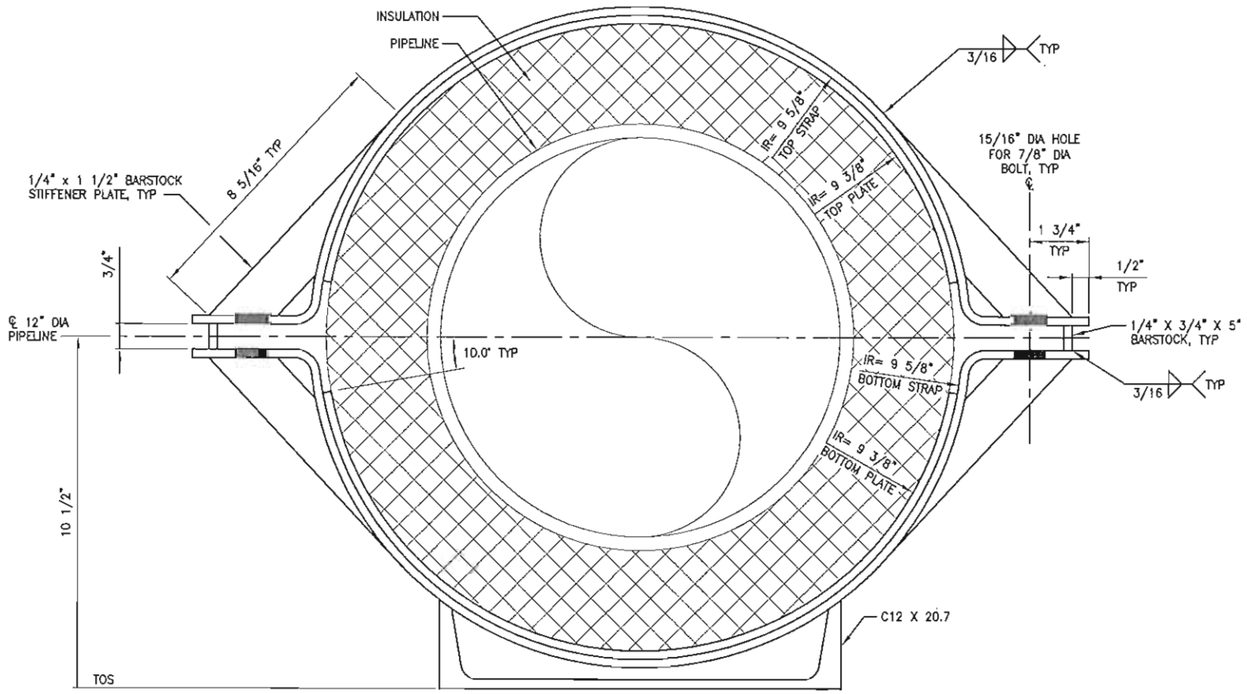
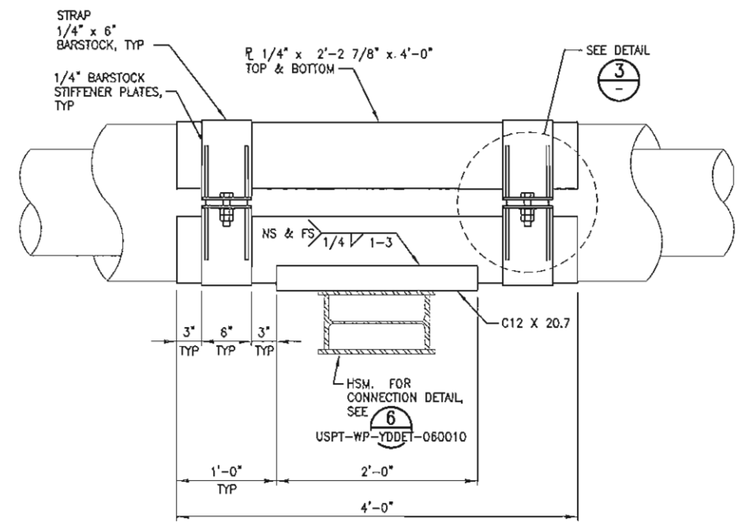
NOTES

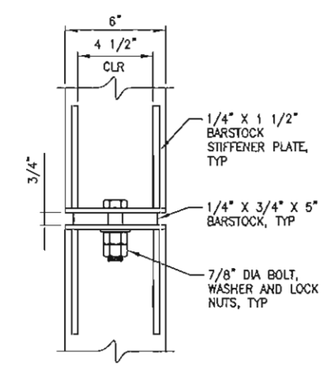
1. BOLTS SHALL BE ASTM A320 GRADE L7 WITH ASTM A194 GRADE 7 S4 NUTS AND F436 WASHER. TORQUE BOLTS TO 220 FT-LB WITH SINGLE NUT AND TIGHTEN LOCK NUT.
2. ALL SADDLE PLATES AND SHAPES SHALL BE ASTM A572 GR 50 LT STEEL OR BETTER, UNLESS OTHERWISE NOTED.



1 TYPICAL ANCHOR SADDLE DETAIL
USPT-WP-YDDET-060010 SCALE: 6" = 1'-0"



2 TYPICAL SLIDING SADDLE ELEVATION
SCALE: 1 1/2" = 1'-0"



3 STRAP CONNECTION DETAIL
SCALE: 3" = 1'-0"

3 IN 0 3 IN
SCALE: 6" = 1'-0"

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS

STATE OF ALASKA 49TH PAUL A. CARSON NO. 7733 12-22-11 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR

Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
ANCHOR SADDLE DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	APPD
	R. HOBBS	12/11	AS SHOWN	JAG	PAC

DRAWING NO. USPT-WP-YDDET-060015-001 SHEET 1 of 1 REV 10

FILENAME: USPT-WP-YDDET-060015-001

PT-D-BAKER.DWG (24x36)

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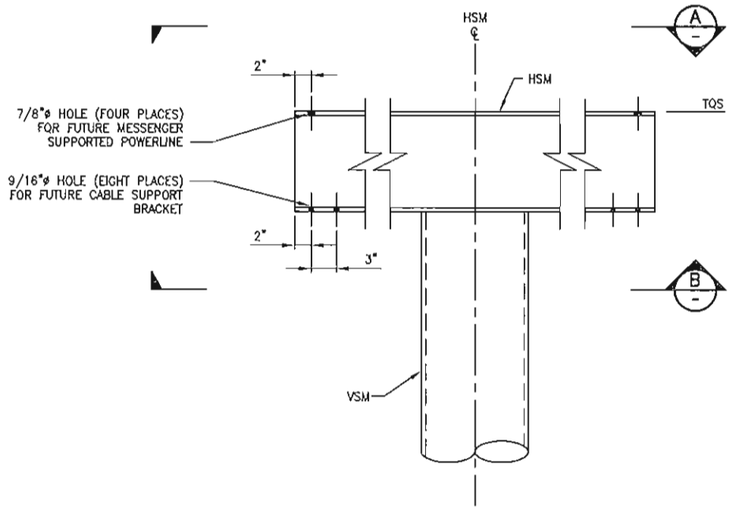
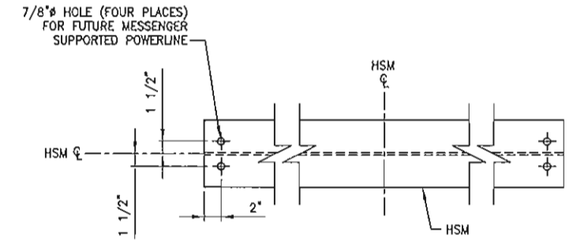
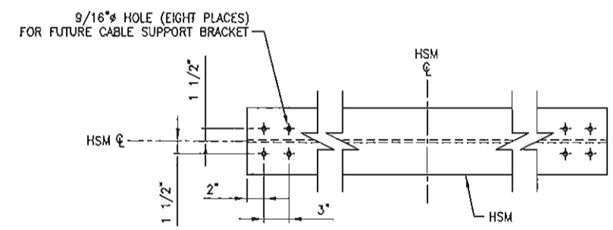


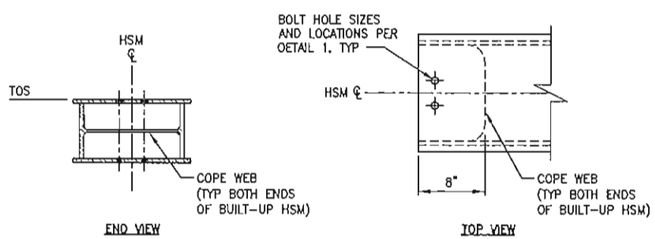
1 HSM SIDE VIEW
NOT TO SCALE
USPT-WP-YDDET-060010
USPT-WP-YDDET-060011



A HSM TOP VIEW
NOT TO SCALE



B HSM BOTTOM VIEW
NOT TO SCALE



2 W12x35 BUILT-UP HSM COPING DETAIL
USPT-WP-YDDET-060010
NOT TO SCALE

NOTES
1. ATTACHMENT CONCEPT DEVELOPED BY DRYDEN & LARUE, INC. CONSULTING ENGINEERS.

SCHEDULE/QUANTITY
HSM'S REQUIRING BOLT HOLES FOR MESSENGER/ELEC ATTACHMENT SUPPORTS 5007 THRU 5432

SUPPORT TYPE	HSM TYPE	HSM LENGTH (FT)	QUANTITY
XA-08	W12x35 BUILT-UP	8	10
XA-11	W12x35 BUILT-UP	11	2
XC-08	W12x50	8	347
XC-11	W12x50	11	22
XS-12	W12x35	12	21
XS-15	W12x35	15	18
XS-18	W12x35	18	6

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDDET-060010	GUIDED AND ANCHORED SUPPORT DETAILS
USPT-WP-YDDET-060011	SLIDING SUPPORT DETAILS

STATE OF ALASKA 49TH PAUL A. CARSON CE 9733 REGISTERED PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GWP

ExxonMobil Development
WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
DETAIL DRAWING
MESSENGER/ELEC ATTACHMENT BOLT HOLE DETAILS
SUPPORTS 5007 THRU 5432

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	NONE	JAG / PAC

DRAWING NO. USPT-WP-YDDET-060016-001 SHEET 1 of 1 REV 10

PT-D-BAKERLDWG (24x36)

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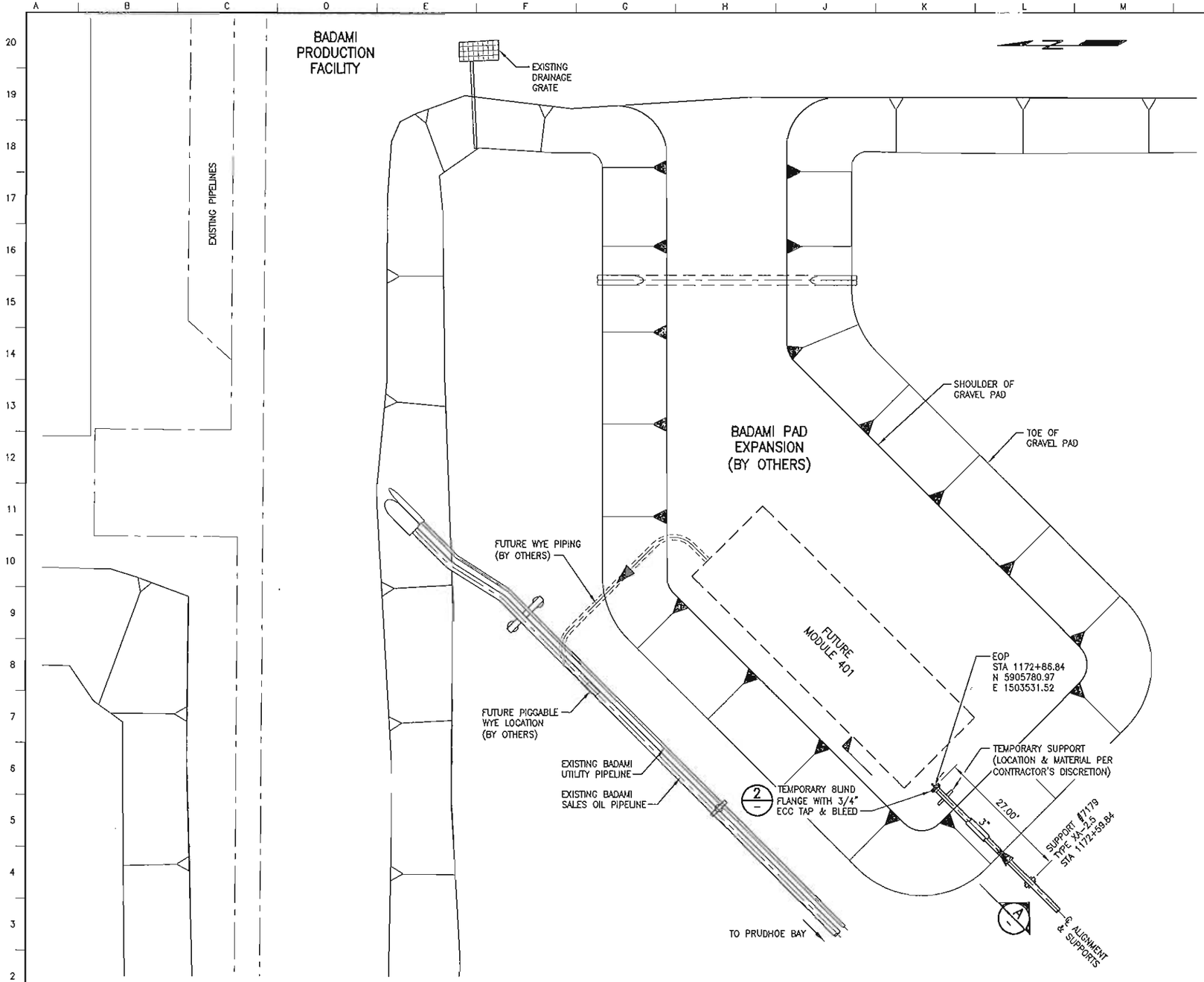
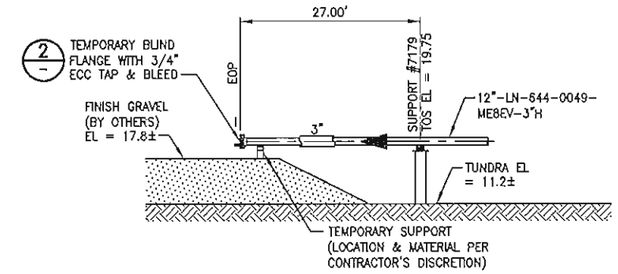
FILENAME: USPT-WP-YDDET-060016-001



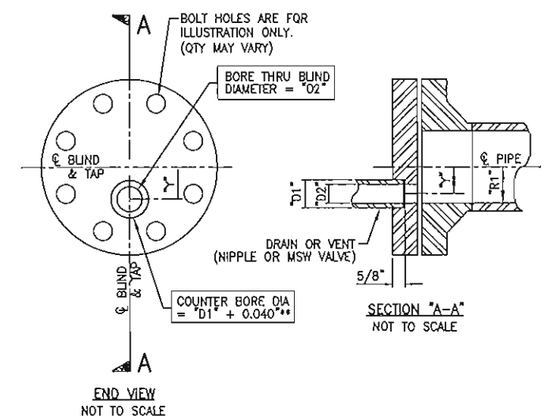
1 BADAMI TIE-IN PLAN

USPT-WP-YDPAL-060039 SCALE: 1" = 10'



A BADAMI TIE-IN ELEVATION

SCALE: 1" = 10'



** COUNTER BORE NOT TO EXCEED MAX ALLOWABLE PER ASME B16.5

QTY	BLIND DESCRIPTION	TAP SIZE	"D1"	"D2"	"R1"	"Y"
1	12"-900# RJ LTCS A707 L3	3/4" SCH 160	1.050"	.612"	5.969"	5.663"

2 ECC TAPPED BLIND FLANGE FOR SW CONNECTION

NOT TO SCALE

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. PROPOSED GRAVEL WELL PADS, ACCESS ROADS AND FACILITIES ARE BY OTHERS.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060039	PLAN & PROFILE

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAO	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

PT FACILITIES AT BADAMI – PIPELINE
DETAIL DRAWING
BADAMI TIE-IN PLAN AND DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK JAO APPD PAC
	R. HOBBS	12/11	AS SHOWN	

DRAWING NO. USPT-WP-YDDET-110001-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDDET-110001-001

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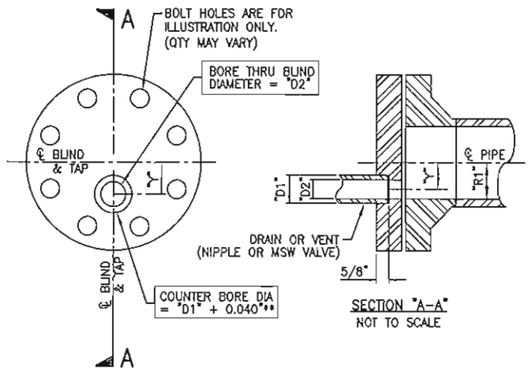


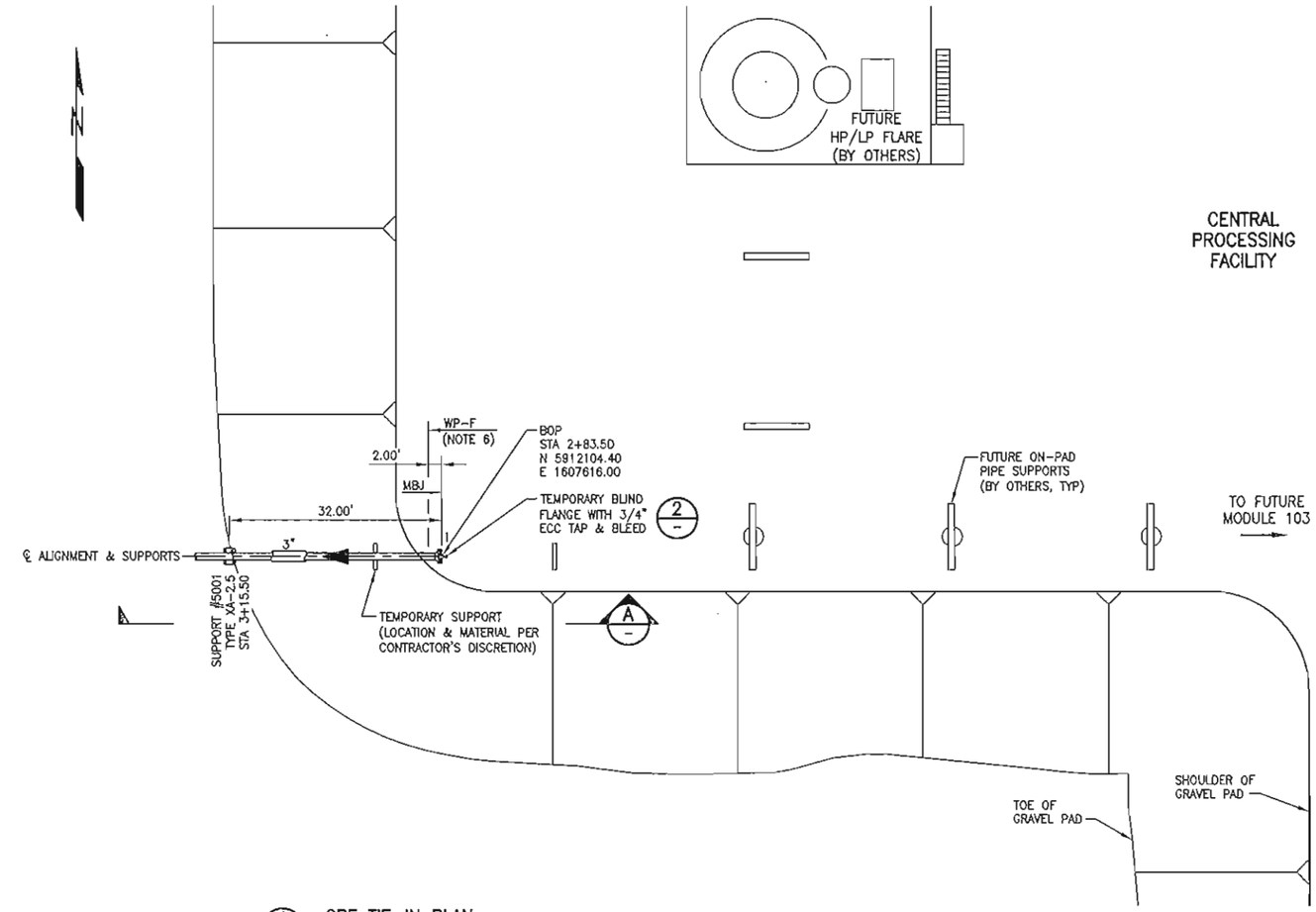
END VIEW
NOT TO SCALE

SECTION "A-A"
NOT TO SCALE

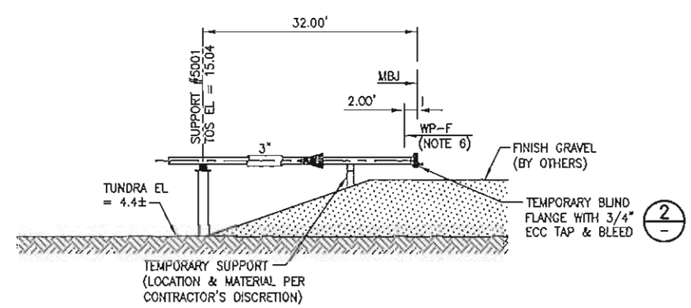
** COUNTER BORE NOT TO EXCEED MAX ALLOWABLE PER ASME B16.5

QTY	BLIND DESCRIPTION	TAP SIZE	"D1"	"D2"	"R1"	"Y"
1	12"-900# RJ LTCS A707 L3	3/4" SCH 160	1.050"	.612"	5.875"	5.569"

2 ECC TAPPED BLIND FLANGE FOR SW CONNECTION
NOT TO SCALE



1 CPF TIE-IN PLAN
USPT-WP-YDPAL-060002 SCALE: 1" = 10'



A CPF TIE-IN ELEVATION
SCALE: 1" = 10'

10 0 10 20
SCALE IN FEET

NOTES
1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. HORIZONTAL DATUM IS NAD83, ALASKA STATE PLANE ZONE 3, US FOOT.
4. VERTICAL DATUM IS POINT THOMSON UNIT MEAN LOWER LOW WATER (PTU MLLW).
5. PROPOSED GRAVEL WELL PADS, ACCESS ROADS AND FACILITIES ARE BY OTHERS.
6. WP-F TO MAKE FUTURE COLD CUT 2.00' FROM FLANGE FACE (BOP) FOR FUTURE TIE-IN:
   STA 2+85.50
   N 5912104.40
   E 1607614.00
   BOT OF PIPE EL = 15.469

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060002	PLAN & PROFILE

STATE OF ALASKA 49TH PAUL A. CARSON CE 7735 REGISTERED PROFESSIONAL ENGINEER 12.22.11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development
WorleyParsons FLUOR, Baker

EXPORT PIPELINE FACILITIES AT CPF – PIPELINE
DETAIL DRAWING
CPF TIE-IN PLAN AND DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDDET-280001-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

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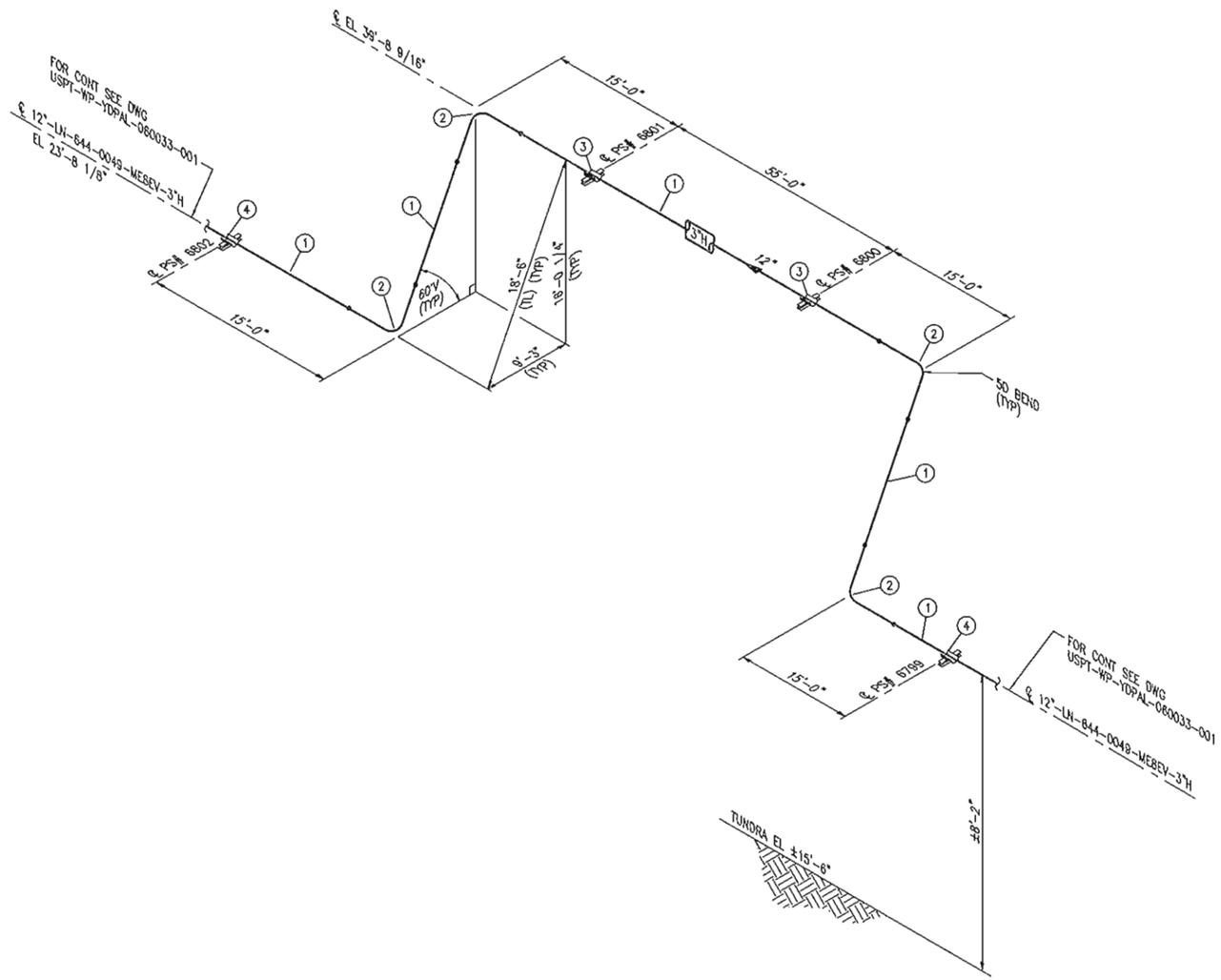
FILENAME: USPT-WP-YDDET-280001-001



BILL OF MATERIAL

ITM	S/F	QUANTITY	SIZE	SCH/RTG	DESCRIPTION	ITEM ID
1	F	160 LF	12"	0.406"WT	PIPE LTCS API 5L X65Q-PSL2 HFW BE	
					10.31MM (0.406") WT B36.10M CVN @ -46C(-50F)	
2	F	4	12"	0.406"WT	INDUCTION BEND LTCS API 5L X65Q-PSL2 HFW BE	
					12.70 MM (0.500") WT B36.10M 9D DEG 5D WITH	
					2D TANGENTS EA END CVN @ -46C (-50F)	
3	F	2	12"		SADDLE SLIDING SEE DWG	
					USPT-WP-YDDET-060014-001 FOR DETAILS.	
4	F	2	12"		SADDLE GUIDED SEE DWG	
					USPT-WP-YDDET-060013-001 FOR DETAILS.	

DESIGN DATA

CODE: B31.4	CLEAN: PER SPEC	WELD PROC: PER SPEC
CLASS: ME8EV	PAINT: FBE	STRESS RELIEVE: NO
DESIGN PRESS: 2035 PSIG	INSULATION: 3"H	NUMBER OF WELDS:
DESIGN TEMP: 200° F	HYDRO TEST: 3053 PSIG	
OPERATING PRESS: 325 PSIG	X-RAY QTY: PER SPEC	SERVICE: CONDENSATE
OPERATING TEMP: 150° F	INTERP: B31.4	
LINE NO.: 12"-LN-644-0049-ME8EV-3"H	P&ID NO.: USPT-WP-YDPFD-000001-001	PLAN NO.: USPT-WP-YDDET-060002-001

NOTES:

1. NORTH ARROW SHOWN FOR REFERENCE ONLY, SEE DWG USPT-WP-YDPAL-060033-001 FOR ACTUAL ORIENTATION.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060033	PLAN & PROFILE
USPT-WP-YDDET-060002	VERTICAL LOOPS

STATE OF ALASKA 4911 PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	JNA	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR Baker

EXPORT PIPELINE – PIPELINE
ISOMETRIC
BADAMI CREEK EAST VERTICAL LOOP
12"-LN-644-0049-ME8EV-3"H

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	J. AUBURN	12/11	NONE	JAG / PAC

DRAWING NO. USPT-WP-YDISO-060001-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDISO-060001-001

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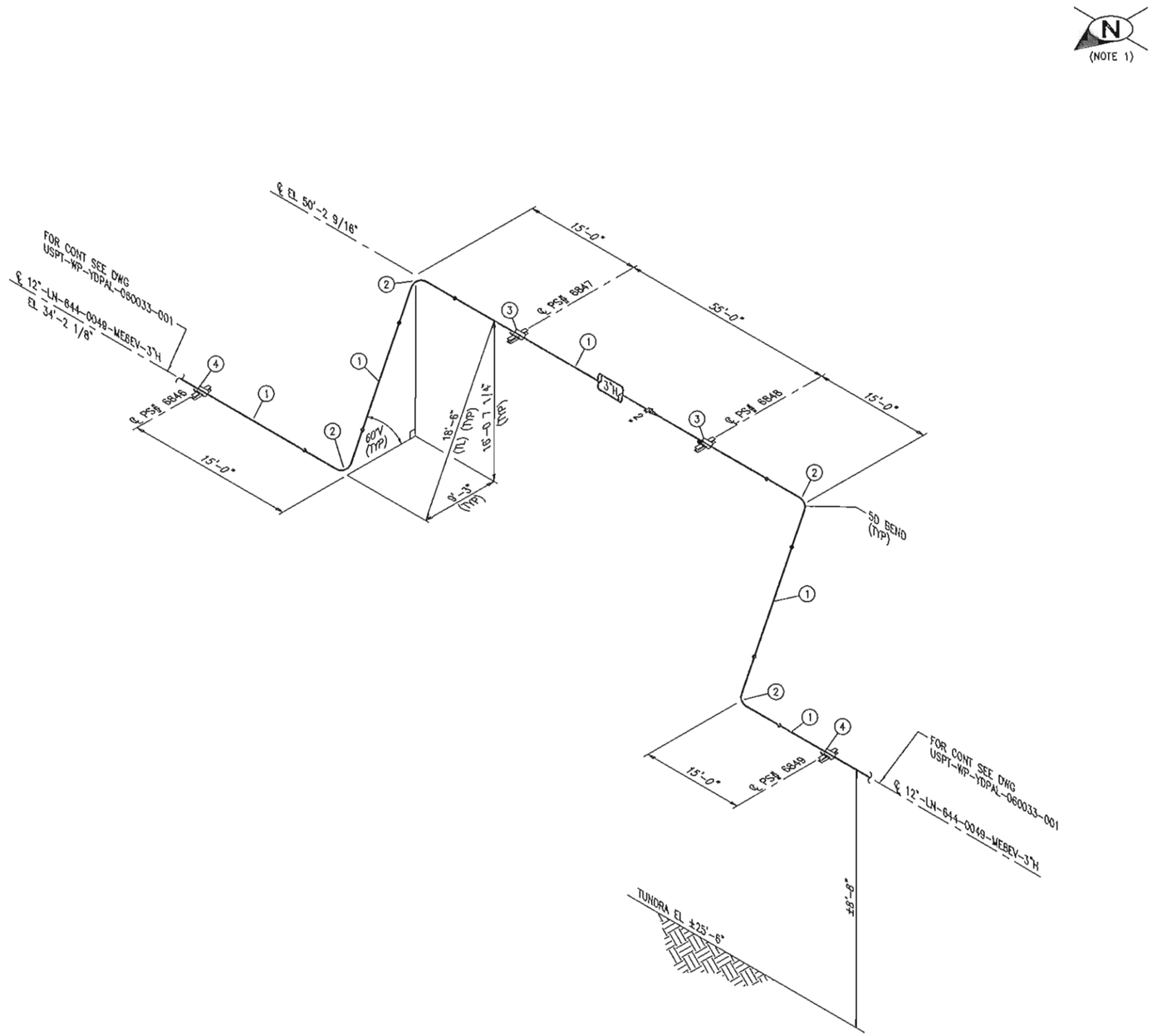

BILL OF MATERIAL

ITM	S/F	QUANTITY	SIZE	SCH/RTG	DESCRIPTION	ITEM ID
1	F	160 LF	12"	0.406"WT	PIPE LTCS API 5L X65Q-PSL2 HFW BE	
					10.31MM (0.406") WT B36.10M CVN @ -46C(-50F)	
2	F	4	12"	0.406"WT	INDUCTION BEND LTCS API 5L X65Q-PSL2 HFW BE	
					12.70MM (0.500") WT B36.10M 90 DEG 5D WITH	
					2D TANGENTS EA END CVN @ -46C (-50F)	
3	F	2	12"		SADDLE SLIDING SEE DWG	
					USPT-WP-YDDET-060014-001 FOR DETAILS.	
4	F	2	12"		SADDLE GUIDED SEE DWG	
					USPT-WP-YDDET-060013-001 FOR DETAILS.	

DESIGN DATA

CODE: B31.4	CLEAN: PER SPEC	WELD PROC: PER SPEC
CLASS: ME8EV	PAINT: FBE	STRESS RELIEVE: NO
DESIGN PRESS: 2035 PSIG	INSULATION: 3"H	NUMBER OF WELDS:
DESIGN TEMP: 200° F	HYDRO TEST: 3053 PSIG	
OPERATING PRESS: 325 PSIG	X-RAY QTY: PER SPEC	SERVICE: CONDENSATE
OPERATING TEMP: 150° F	INTERP: B31.4	
LINE NO.: 12"-LN-644-0049-ME8EV-3"H	P&ID NO.: USPT-WP-YDPFD-000001-001	PLAN NO.: USPT-WP-YDDET-060002-001

NOTES:

1. NORTH ARROW SHOWN FOR REFERENCE ONLY. SEE DWG USPT-WP-YDPAL-060033-001 FOR ACTUAL ORIENTATION.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060033	PLAN & PROFILE
USPT-WP-YDDET-060002	VERTICAL LOOPS

STATE OF ALASKA 49TH PAUL A. CARSON CE 7736 REGISTERED PROFESSIONAL ENGINEER 12-22-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	JNA	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. resources & energy

Baker

EXPORT PIPELINE – PIPELINE
ISOMETRIC
BADAMI CREEK WEST VERTICAL LOOP
12"-LN-644-0049-ME8EV-3"H

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	APPD
	J. AUBURN	12/11	NONE	JAG	PAC

DRAWING NO. USPT-WP-YDISO-060002-001 SHEET 1 of 1 REV 10

FILENAME: USPT-WP-YDISO-050002-001

PT-D-BAKER.DWG (24x36)

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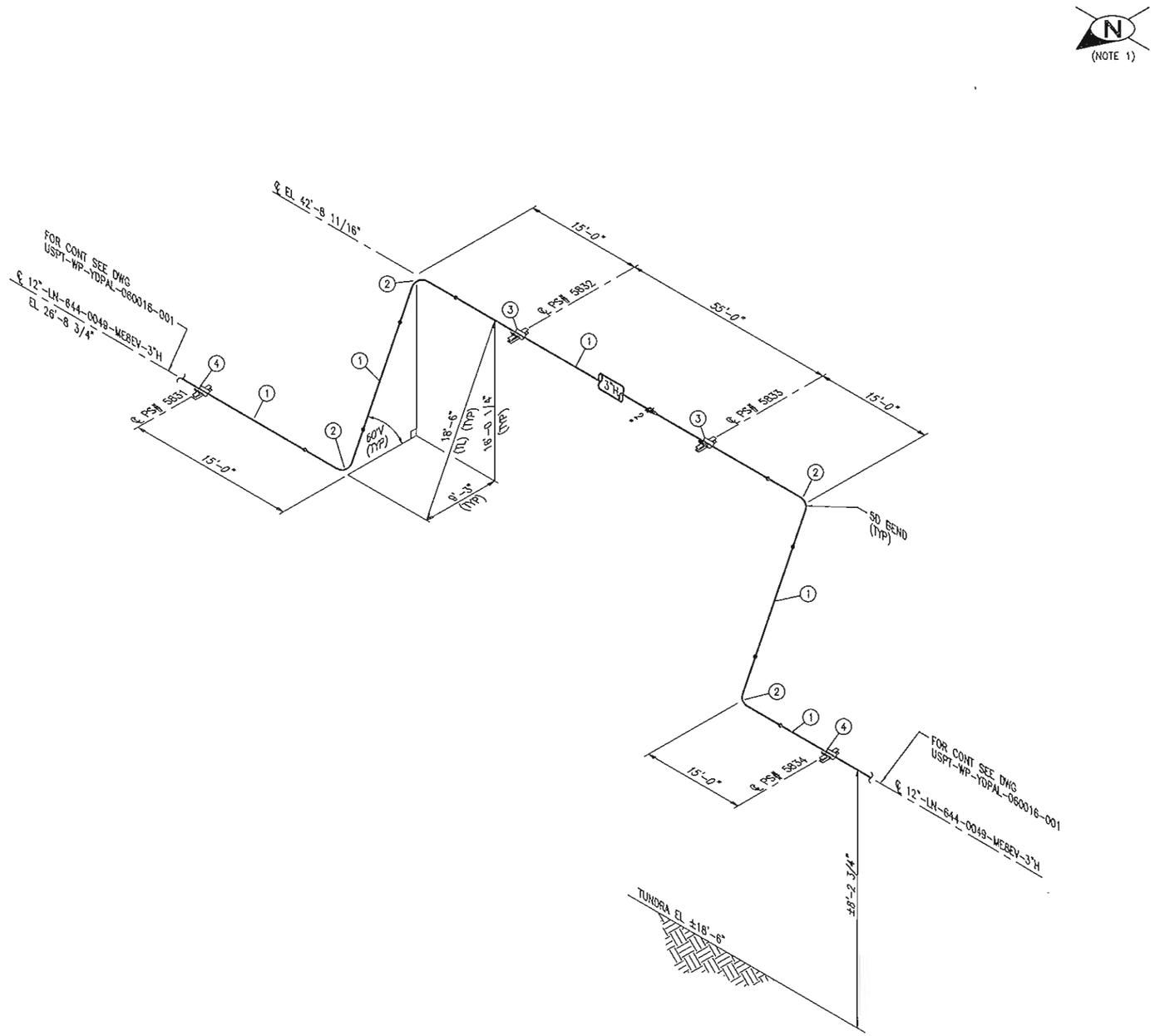

BILL OF MATERIAL

ITM	S/F	QUANTITY	SIZE	SCH/RTG	DESCRIPTION	ITEM ID
1	F	160 LF	12"	0.406"WT	PIPE LTCS API 5L X65Q-PSL2 HFW BE	
					10.31MM (0.406") WT B36.10M CVN @ -46C(-50F)	
2	F	4	12"	0.406"WT	INDUCTION BEND LTCS API 5L X65Q-PSL2 HFW BE	
					12.70MM (0.500") WT B36.10M 90 DEG 5D WITH	
					2D TANGENTS EA END CVN @ -46C (-50F)	
3	F	2	12"		SADDLE SLIDING SEE DWG	
					USPT-WP-YDDET-060014-001 FOR DETAILS.	
4	F	2	12"		SADDLE GUIDED SEE DWG	
					USPT-WP-YDDET-060013-001 FOR DETAILS.	

DESIGN DATA

CODE: B31.4	CLEAN: PER SPEC	WELD PROC: PER SPEC
CLASS: ME8EV	PAINT: FBE	STRESS RELIEVE: NO
DESIGN PRESS: 2035 PSIG	INSULATION: 3"H	NUMBER OF WELDS:
DESIGN TEMP: 200° F	HYDRO TEST: 3053 PSIG	
OPERATING PRESS: 325 PSIG	X-RAY QTY: PER SPEC	SERVICE: CONDENSATE
OPERATING TEMP: 150° F	INTERP: B31.4	
LINE NO.: 12"-LN-644-0049-ME8EV-3"H	P&ID NO.: USPT-WP-YDPFD-000001-001	PLAN NO.: USPT-WP-YDDET-060002-001

NOTES:

1. NORTH ARROW SHOWN FOR REFERENCE ONLY. SEE DWG USPT-WP-YDPAL-060016-001 FOR ACTUAL ORIENTATION.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060016	PLAN & PROFILE
USPT-WP-YDDET-060002	VERTICAL LOOPS

STATE OF ALASKA
PAUL A. CARSON
CE 7733
12-22-11
REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	JHA	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR.

Baker

EXPORT PIPELINE – PIPELINE
ISOMETRIC
"I" CREEK VERTICAL LOOP
12"-LN-644-0049-ME8EV-3"H

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK	APPD
	J. AUBURN	12/11	NONE	JAG	PAC

DRAWING NO. USPT-WP-YDISO-060003-001 SHEET 1 of 1 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDISO-060003-001

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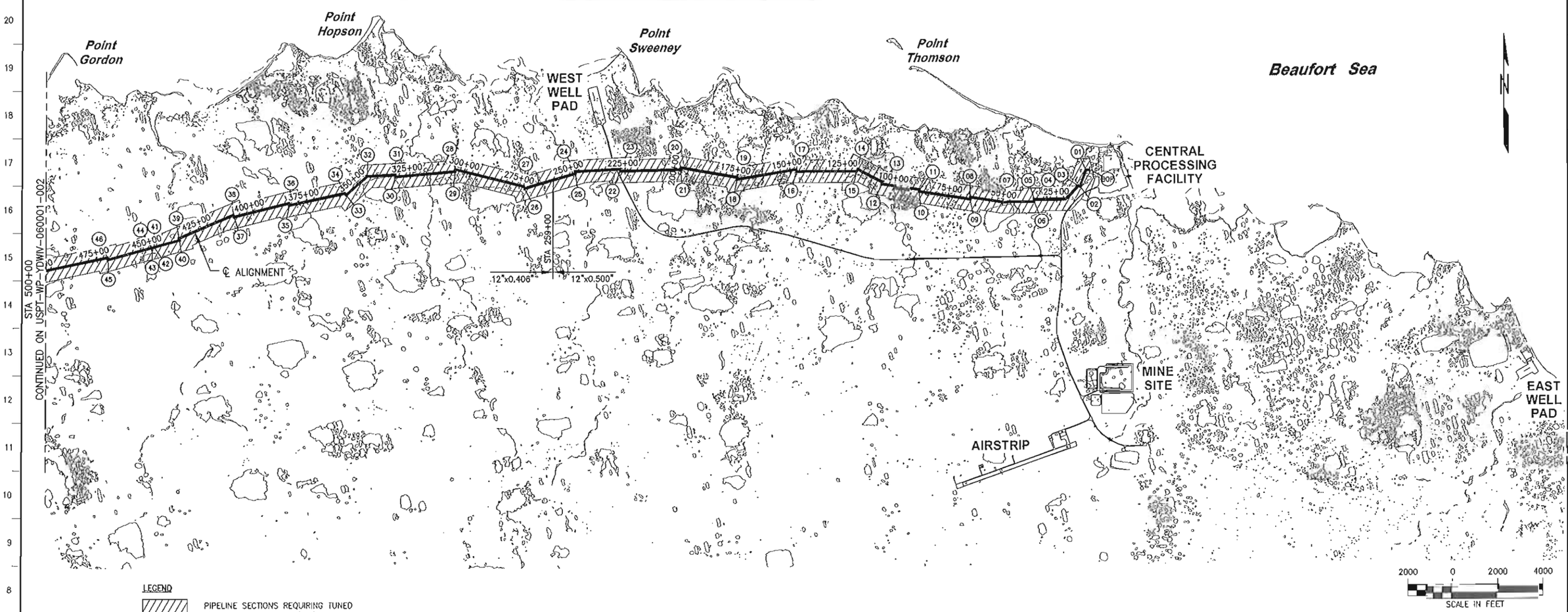


LEGEND

PIPELINE SECTIONS REQUIRING TUNED VIBRATION ABSORBERS (TVA)

PIPELINE PI LOCATION

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-644-0049-MEBEV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. FOR PLANS AND PROFILES, SEE DRAWINGS USPT-WP-YOPAL-060002 THRU USPT-WP-YOPAL-060039.
4. FOR TYPICAL TUNED VIBRATION ABSORBER (TVA) DETAILS, SEE USPT-WP-YDWIV-060002.
5. NOTE THAT DEVICE "L" IS DIFFERENT ON THE 0.500" WT PIPELINE AND THE 0.406" WT PIPELINE. (11)

TVA DEVICE CONFIGURATIONS FOR THE 12"x0.500" POINT THOMSON EXPORT PIPELINE (PTEP) – BOP TO STA 259+00

PIPELINE	QUANTITY	DEVICE	INSULATED DIAMETER (IN)	TVA PART NUMBER	PLATE ASSEMBLY PART NUMBER	NUMBER OF PLATES	DISTANCE FROM END OF ARM (IN)	BASE WEIGHT (LBS)	PLATE WEIGHT (LBS)	STRAP WEIGHT (LBS)	TOTAL WEIGHT (LBS)	SPECIALTY ITEM NUMBER (NOTE 5)
12"x0.500"(3") PTEP@55'	147	L	18.75	J-21784-460-186-2	Y-47006-6-1	6	1.875	18	90	9.0	117	SP-644704-01
	139	M	18.75	J-21784-350-186-1	Y-47006-4-1	4	3.875	17	60	9.0	86	SP-644704-02
	156	H	18.75	J-21784-140-186-1	Y-47006-3-1	3	1.875	23	45	9.0	77	SP-644704-03

TVA DEVICE CONFIGURATIONS FOR THE 12"x0.406" POINT THOMSON EXPORT PIPELINE (PTEP) – STA 259+00 TO EOP

PIPELINE	QUANTITY	DEVICE	INSULATED DIAMETER (IN)	TVA PART NUMBER	PLATE ASSEMBLY PART NUMBER	NUMBER OF PLATES	DISTANCE FROM END OF ARM (IN)	BASE WEIGHT (LBS)	PLATE WEIGHT (LBS)	STRAP WEIGHT (LBS)	TOTAL WEIGHT (LBS)	SPECIALTY ITEM NUMBER (NOTE 5)
12"x0.406"(3") PTEP@55'	522	L	18.75	J-21784-550-186-1	Y-47006-5-1	5	0.750	18	75	9.0	102	SP-644704-04
	503	M	18.75	J-21784-350-186-1	Y-47006-4-1	4	3.875	17	60	9.0	86	SP-644704-02
	556	H	18.75	J-21784-140-186-1	Y-47006-3-1	3	1.875	23	45	9.0	77	SP-644704-03

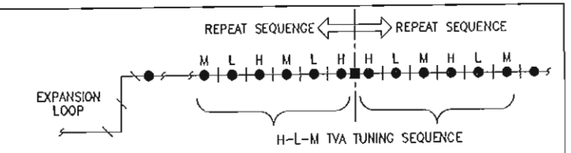
LEGEND

PIPE ANCHOR

PIPE SUPPORT

TVA

H SPAN WITH HIGH FREQUENCY DAMPER
M SPAN WITH MEDIUM FREQUENCY DAMPER
L SPAN WITH LOW FREQUENCY DAMPER



TVA INSTALLATION PROCEDURE

WHEN LAYING OUT THE TVA DEVICES, ALWAYS START AT AN ANCHOR AND MOVE TOWARDS AN EXPANSION LOOP. CONTINUE THE (H-L-M) SEQUENCE OF TVA DESIGNATIONS UNTIL THE LOOP IS REACHED. THE LAST TVA DEVICES IN A STRAIGHT RUN WILL NOT ALWAYS BE THE SAME DUE TO DIFFERENCES IN NUMBER OF SPANS. TVA'S ARE NOT TYPICALLY REQUIRED WITHIN EXPANSION LOOPS. LOCATE EACH TVA AT MID SPAN ±5% OF SPAN.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YOPAL-060002 THRU 060039	PLANS & PROFILES
USPT-WP-YDWIV-060002	TYPICAL TUNED VIBRATION ABSORBER DETAILS

STATE OF ALASKA 49TH PAUL A. CHISOM OF 7775 REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	CMP
11	03/02/12	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	CMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
WIND-INDUCED VIBRATION MITIGATION
SITE PLAN
BOP TO STA 500+00

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	AS SHOWN	JAG / PAC

DRAWING NO. USPT-WP-YDWIV-060001-001 SHEET 1 of 2 REV 11

FILENAME: USPT-WP-YDWIV-060001-001

LEGEND

PIPELINE SECTIONS REQUIRING TUNED VIBRATION ABSORBERS (TVA)

PIPELINE PI LOCATION

NOTES

1. CENTERLINE OF ALIGNMENT = CENTERLINE OF 12"-LN-844-0049-ME8EV-3"H.
2. STATIONING ALONG ALIGNMENT REFLECTS HORIZONTAL DISTANCE.
3. FOR PLANS AND PROFILES, SEE DRAWINGS USPT-WP-YDPAL-060002 THRU USPT-WP-YDPAL-060039.
4. FOR TYPICAL TUNED VIBRATION ABSORBER (TVA) DETAILS, SEE USPT-WP-YDWIV-060002.

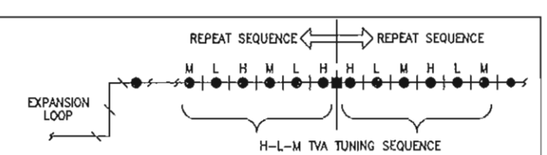
LEGEND

PIPE ANCHOR

PIPE SUPPORT

TVA

H SPAN WITH HIGH FREQUENCY DAMPER
M SPAN WITH MEDIUM FREQUENCY DAMPER
L SPAN WITH LOW FREQUENCY DAMPER



TVA INSTALLATION PROCEDURE

WHEN LAYING OUT THE TVA DEVICES, ALWAYS START AT AN ANCHOR AND MOVE TOWARDS AN EXPANSION LOOP. CONTINUE THE (H-L-M) SEQUENCE OF TVA DESIGNATIONS UNTIL THE LOOP IS REACHED. THE LAST TVA DEVICES IN A STRAIGHT RUN WILL NOT ALWAYS BE THE SAME DUE TO DIFFERENCES IN NUMBER OF SPANS. TVA'S ARE NOT TYPICALLY REQUIRED WITHIN EXPANSION LOOPS. LOCATE EACH TVA AT MID SPAN ±5% OF SPAN.

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDPAL-060002 THRU 060039	PLANS & PROFILES
USPT-WP-YDWIV-060002	TYPICAL TUNED VIBRATION ABSORBER DETAILS

STATE OF ALASKA 49TH PAUL A. CARSON CE 7733 REGISTERED PROFESSIONAL ENGINEER 12-28-11

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JWB	PAC	GNP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
WIND-INDUCED VIBRATION MITIGATION
SITE PLAN
STA 500+00 TO EOP

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK APPD	JWB PAC
	R. HOBBS	12/11	AS SHOWN		

DRAWING NO. USPT-WP-YDWIV-060001-002 SHEET 2 of 2 REV 10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDWIV-060001-002

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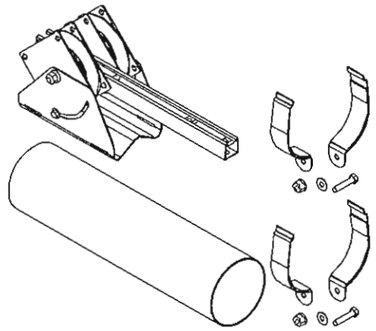
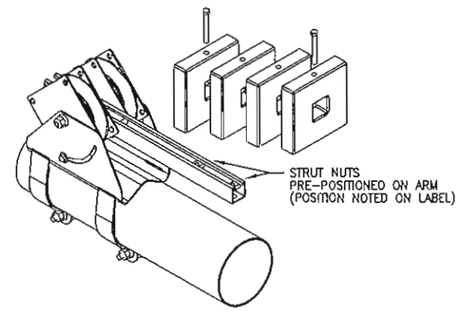
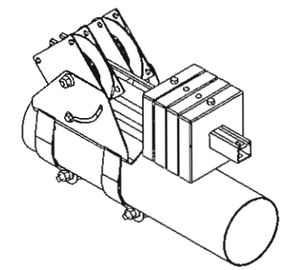


1 TVA DAMPER ASSEMBLY
NOT TO SCALE



2 TVA PIPELINE DAMPER
NOT TO SCALE



3 ASSEMBLED TVA PIPELINE DAMPER
NOT TO SCALE

REFERENCE DRAWINGS	DESCRIPTION
USPT-WP-YDWIV-060001	WIND-INDUCED VIBRATION MITIGATION PLAN

STATE OF ALASKA
PAUL A. CLARSON
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY	CHK	APPD	PROJ
10	12/28/11	ISSUED FOR CONSTRUCTION	RFH	JAG	PAC	GMP

ExxonMobil Development

WorleyParsons FLUOR. Baker

EXPORT PIPELINE – PIPELINE
WIND-INDUCED VIBRATION MITIGATION
TYPICAL TUNED VIBRATION ABSORBER DETAILS

POINT THOMSON ALASKA

MODULE	DRAWN	DATE	SCALE	CHK / APPD
	R. HOBBS	12/11	NONE	JAG / PAC

DRAWING NO.	SHEET	REV
USPT-WP-YDWIV-060002-001	1 of 1	10

PT-D-BAKER.DWG (24x36)

FILENAME: USPT-WP-YDWIV-060002-001

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