

**APPENDIX G**

**Site-Specific Trenchless Crossing Plans**

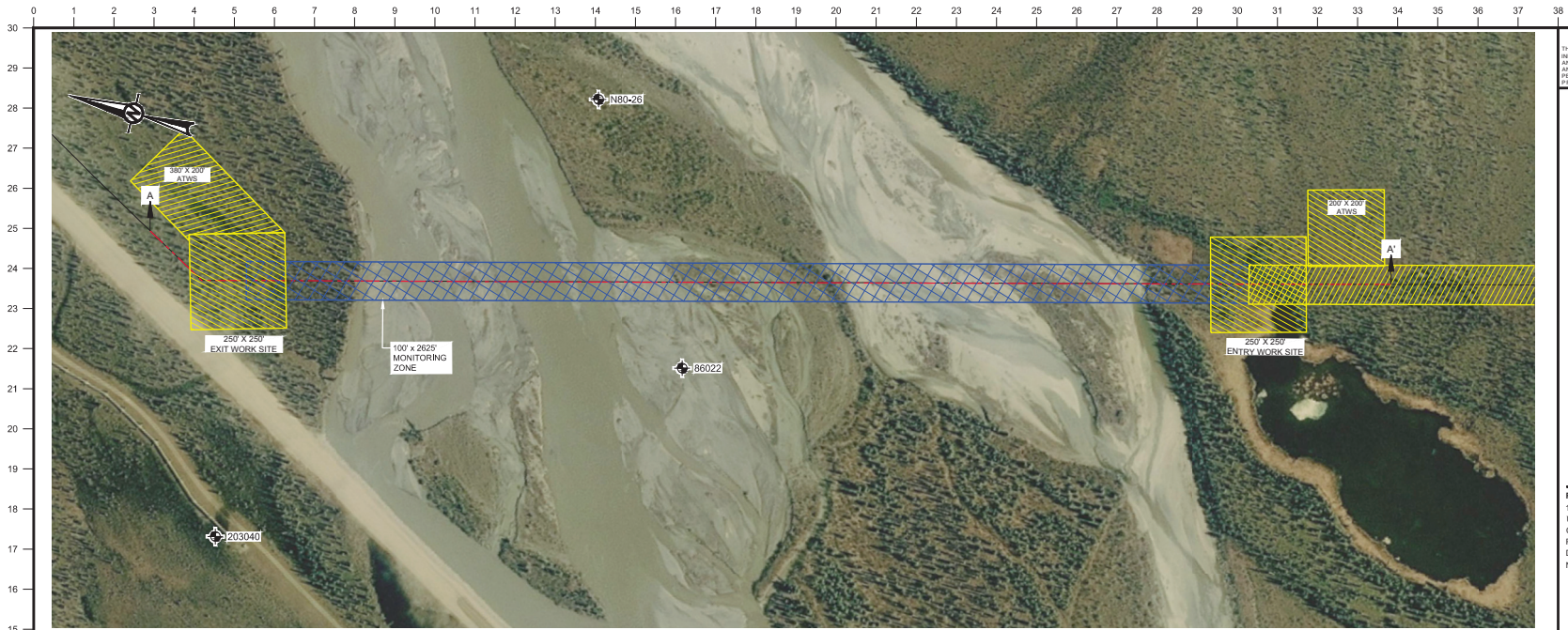
**APPENDIX G: Site-Specific Trenchless Crossing Plans**

**List of Figures**

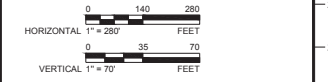
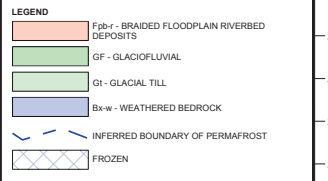
Middle Fork Koyukuk River MP 211.139 .....G-1  
Yukon River MP 356.486 .....G-3  
Tanana River MP 473.002 .....G-5  
Chulitna River MP 641.930 .....G-7  
Deshka River MP 704.867 .....G-9



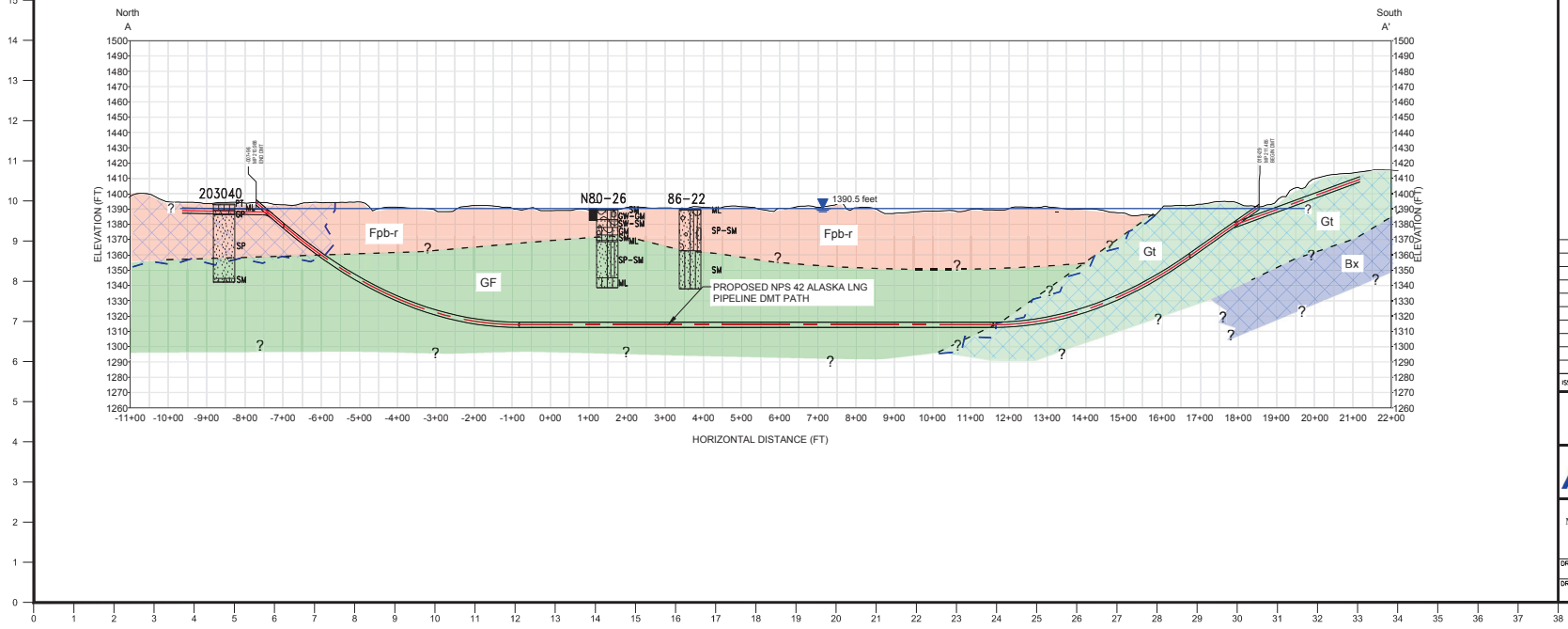
G-2



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**REFERENCE(S)**  
 1. ASSUMED CHANNEL BOTTOM LINE FROM DRAWING NO. USAP-WP-YDPLX-00-000026-000, KOYUKUK RIVER @ MP 211.139 DMT CROSSING PLAN & PROFILE, DATED 20150303, FROM RESOURCE REPORT NO 2, APPENDIX I - SITE-SPECIFIC CONSTRUCTION DRAWINGS - SITE-SPECIFIC WATERSBODY CROSSING PLANS, DOC NO. SAI-PE-SRREG-00-00002-000, DATED 2017-04-14, REV. 0.



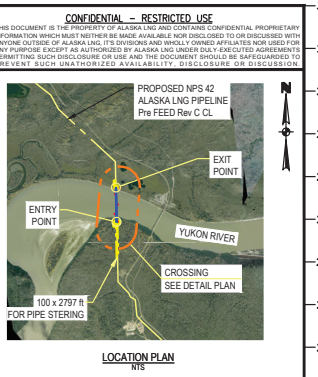
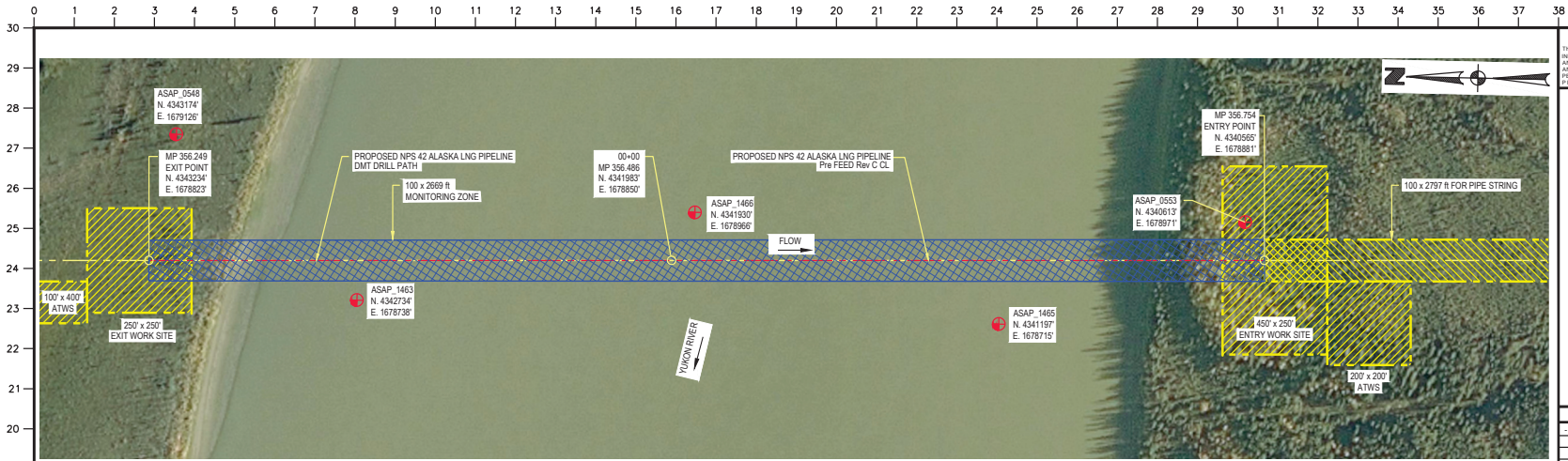
ISSUE	DATE	BY	CHKD	DESCRIPTION	REV/NO	RESP. CODE	APPRD

**ALASKA LNG PROJECT**  
 MIDDLE FORK OF THE KOYUKUK RIVER  
 ALASKA

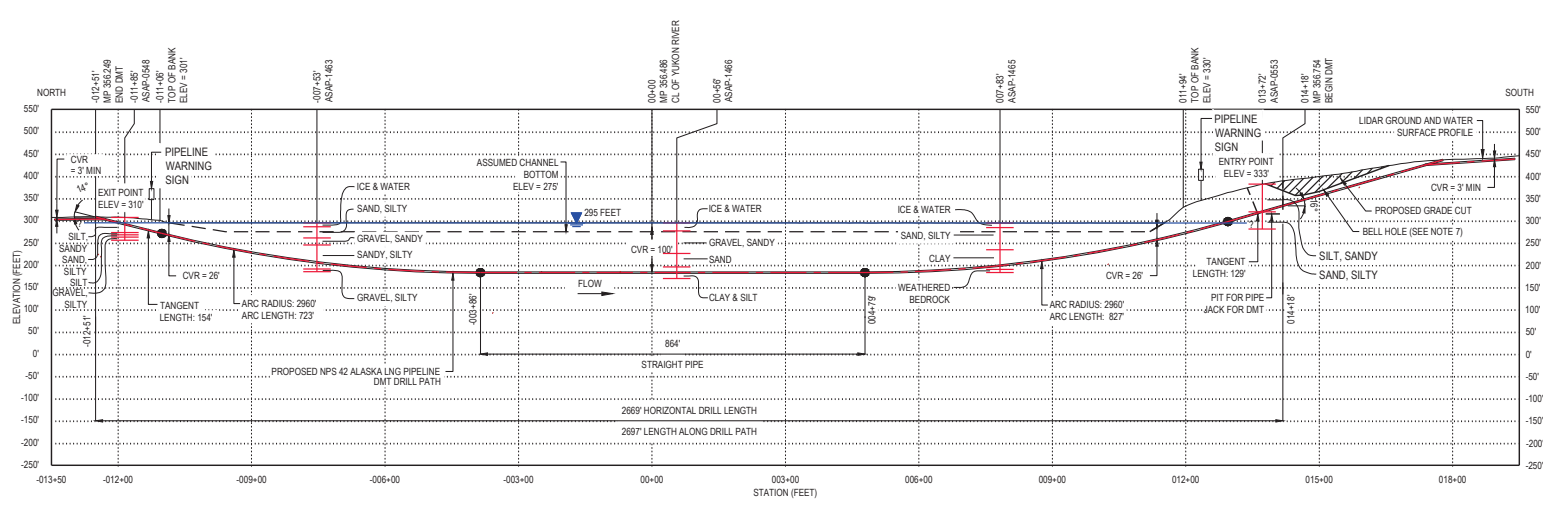
**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
 MIDDLE FORK OF THE KOYUKUK RIVER @MP 211.139  
 DMT CROSSING  
 GENERALIZED GEOLOGIC PLAN AND PROFILE

DRAWN BY ADP	DATE 20191206	SCALE AS SHOWN	CHD ELC
DRAWING NO.		FIGURE NO.	6



DETAIL PLAN  
SCALE: 1" = 128'



PROFILE ALONG PROPOSED NPS 42 ALASKA PIPELINE  
HORIZONTAL SCALE 1" = 128'  
VERTICAL SCALE 1" = 128'

PIPE SPECIFICATION TABLE

PIPE TYPE	PIPE SIZE	OD	WT	PIPE SPECIFICATION	MOP	DESIGN PRESSURE	COATING	CATHODIC PROTECTION
		inch	lb/ft		psig	psig		
LINE PIPE	NPS 42	42	0.677	API 5L Grade X80M PSL2	2075	2075	3 LPE	YES
HEAVY WALL	NPS 42	42	1.24	API 5L Grade X70M PSL2	2075	2075	3 LPE	YES

COORDINATES TABLE

COORD. SYSTEM	DATUM	ZONE
GCS_NAD_1983_NRSR 2007	NAD 83_NRSR 2007	ALASKA ZONE 4

CROSSING COORDINATES @ MP 356.486  
N. 4341983  
E. 1678850

- NOTES:
- ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
  - SUBSOIL INFORMATION IS AVAILABLE.
  - THE GROUND PROFILE IS BASED ON LIDAR OBTAINED IN 2014. ELEVATIONS ARE GEODETIC.
  - THE CROSSING DESIGN IS CONCEPTUAL AND IS TO BE CONFIRMED DURING DETAILED ENGINEERING.
  - THE CONSTRUCTION PERIOD IS TENTATIVELY SCHEDULED DURING SUMMER.
  - THE EXPECTED SOIL CONDITIONS, BASED ON AVAILABLE SUBSURFACE DATA OR TERRAIN MAPPING, CONSIST OF RIVERBED DEPOSITS OF GRAVEL AND SAND WITH FREQUENT COBBLES AND BOULDERS OVER WEATHERED IGNEOUS AND SEDIMENTARY BEDROCK. A THAW BULGE IS EXPECTED BELOW THE YUKON RIVER THAT MAY EXTEND INTO THE NORTH FLOODPLAIN. THE SOUTH BANK CONSISTS OF SILTS WITH INTERMITTENT GRAVEL LAYERS WITH SIGNIFICANT SUBSURFACE ICE.
  - CURRENT TECHNOLOGY LIMITS THE DMT TO MAXIMUM LENGTH OF APPROXIMATELY 2700 FT. HENCE, A BELL HOLE AND SLOPE GRADING ARE REQUIRED. FUTURE TECHNOLOGY MAY REDUCE THE REQUIRED BELL HOLE LENGTH.
  - FOR ADDITIONAL GEOTECHNICAL INFORMATION SEE FEDERAL ENERGY REGULATORY COMMISSION MAJOR WATERBODIES SITE CHARACTERISTICS AND INSTALLATION METHODOLOGY REPORT - USAP-WP-GRZZZ-00-000054-000.

REFERENCE DRAWINGS


ABBREVIATIONS & ACRONYMS

- API - AMERICAN PETROLEUM INSTITUTE
- ATWS - ADDITIONAL TEMPORARY WORK SPACE
- CVR - COVER
- DMT - DIRECTIONAL MICROTUNNELLING
- HDD - HORIZONTAL DIRECTIONAL DRILLING
- LIDAR - LIGHT DETECTION AND RANGING
- MIN - MINIMUM
- MP - MILE POST
- MOP - MAXIMUM OPERATING PRESSURE
- MSL - MEAN SEA LEVEL
- NAD - NORTH AMERICAN DATUM
- NAVDS88 - NORTH AMERICAN VERTICAL DATUM OF 1988
- NSRS 2007 - NATIONAL SPATIAL REFERENCE SYSTEM 2007
- psig - POUNDS PER SQUARE INCH GAUGE
- 3LPE - THREE LAYER POLYETHYLENE

- LEGEND:
- - BOREHOLE

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CONSTRUCTION**

ISS#	DATE	BY	CHKD	DESCRIPTION	REV#	RESP	APP'D
2	20191206	LW	JT	RE-ISSUED FOR USE			
1	20160803	LW	JT	RE-ISSUED FOR USE			
0	20160228	LW	JT	ISSUED FOR USE			

ALASKA LNG PROJECT  
LNG FACILITIES  
Niskiik, Alaska

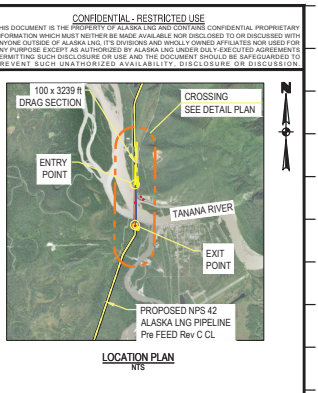
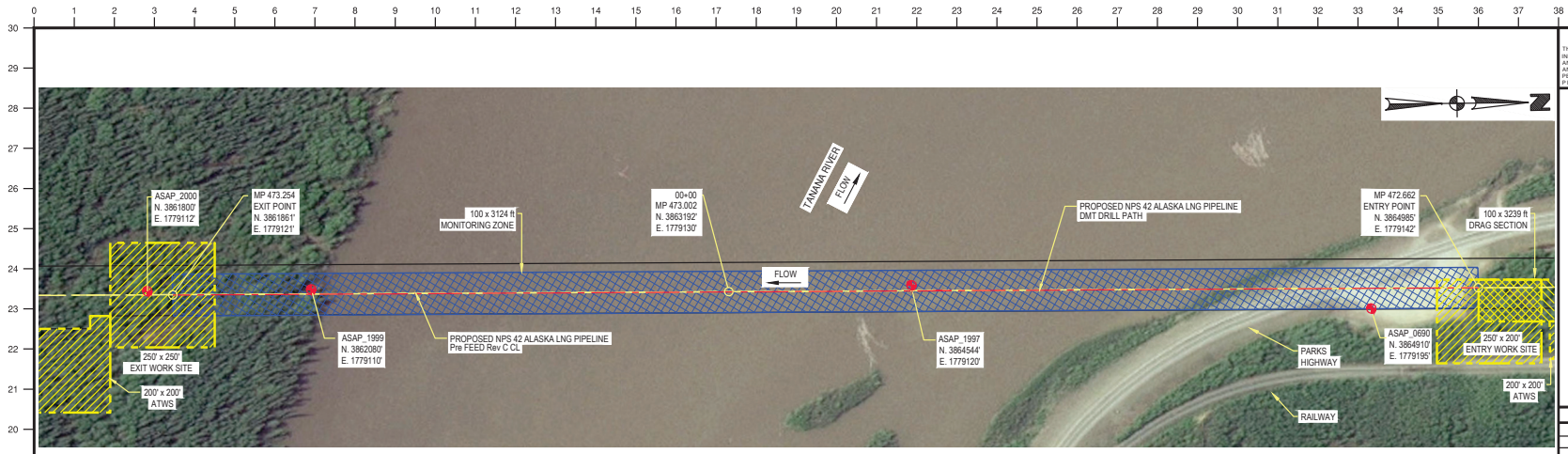
**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
YUKON RIVER @ MP 356.486  
WPC 217  
DMT CROSSING PLAN & PROFILE

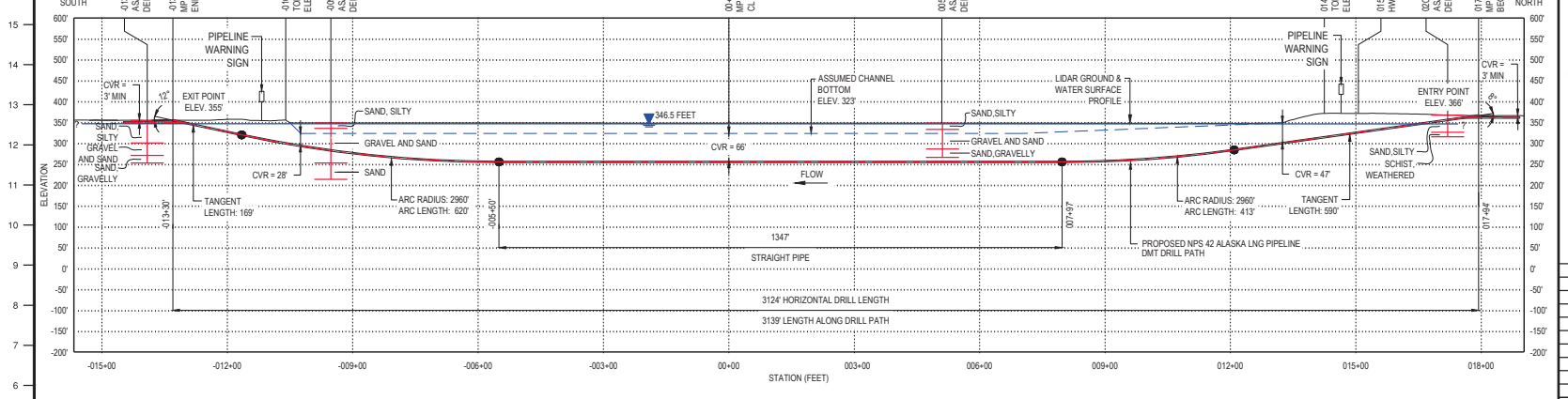
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DRAWING NO.	USAP-WP-YDPLX-00-000062-000			APP'D	JT		
ISSUE NO.	1						

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DETAIL PLAN  
SCALE 1" = 128'



PROFILE ALONG PROPOSED NPS 42 ALASKA LNG PIPELINE  
HORIZONTAL SCALE 1" = 128'  
VERTICAL SCALE 1" = 128'

REFERENCE DRAWINGS


- ABBREVIATIONS & ACRONYMS**
- API - AMERICAN PETROLEUM INSTITUTE
  - ATWS - ADDITIONAL TEMPORARY WORK SPACE
  - CVR - COVER
  - DMT - DIRECTIONAL MICROTUNNELLING
  - HDD - HORIZONTAL DIRECTIONAL DRILLING
  - LIDAR - LIGHT DETECTION AND RANGING
  - MIN - MINIMUM
  - MP - MILE POST
  - MOP - MAXIMUM OPERATING PRESSURE
  - MSL - MEAN SEA LEVEL
  - NAD - NORTH AMERICAN DATUM
  - NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
  - NSRS 2007 - NATIONAL SPATIAL REFERENCE SYSTEM 2007
  - psig - POUNDS PER SQUARE INCH GAUGE
  - 3LPE - THREE LAYER POLYETHYLENE

**LEGEND:**  
 - BOREHOLE

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ISSUE	DATE	BY / CMT	DESCRIPTION	REV'D	RESP	APP'D
2	2019/206		RE-ISSUED FOR USE			
1	2018/130		RE-ISSUED WITH FINALISED ASAP BOREHOLE COORDINATES			
0	2015/0708	UV/SM	ISSUED FOR USE			JT

ALASKA LNG PROJECT  
LNG FACILITIES  
Nikiski, Alaska

**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
TANANA RIVER @ MP 473.002  
WPC 276 - B  
DMT CROSSING PLAN & PROFILE

<b>DRAWN BY</b>	LW	<b>DATE</b>	20150303	<b>SCALE</b>	AS SHOWN	<b>CH'D</b>	
<b>DRAWING NO.</b>	USAP-WP-YDPLX-00-000029-000	<b>ISSUE NO.</b>	0	<b>APP'D</b>			

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PIPE SPECIFICATION TABLE

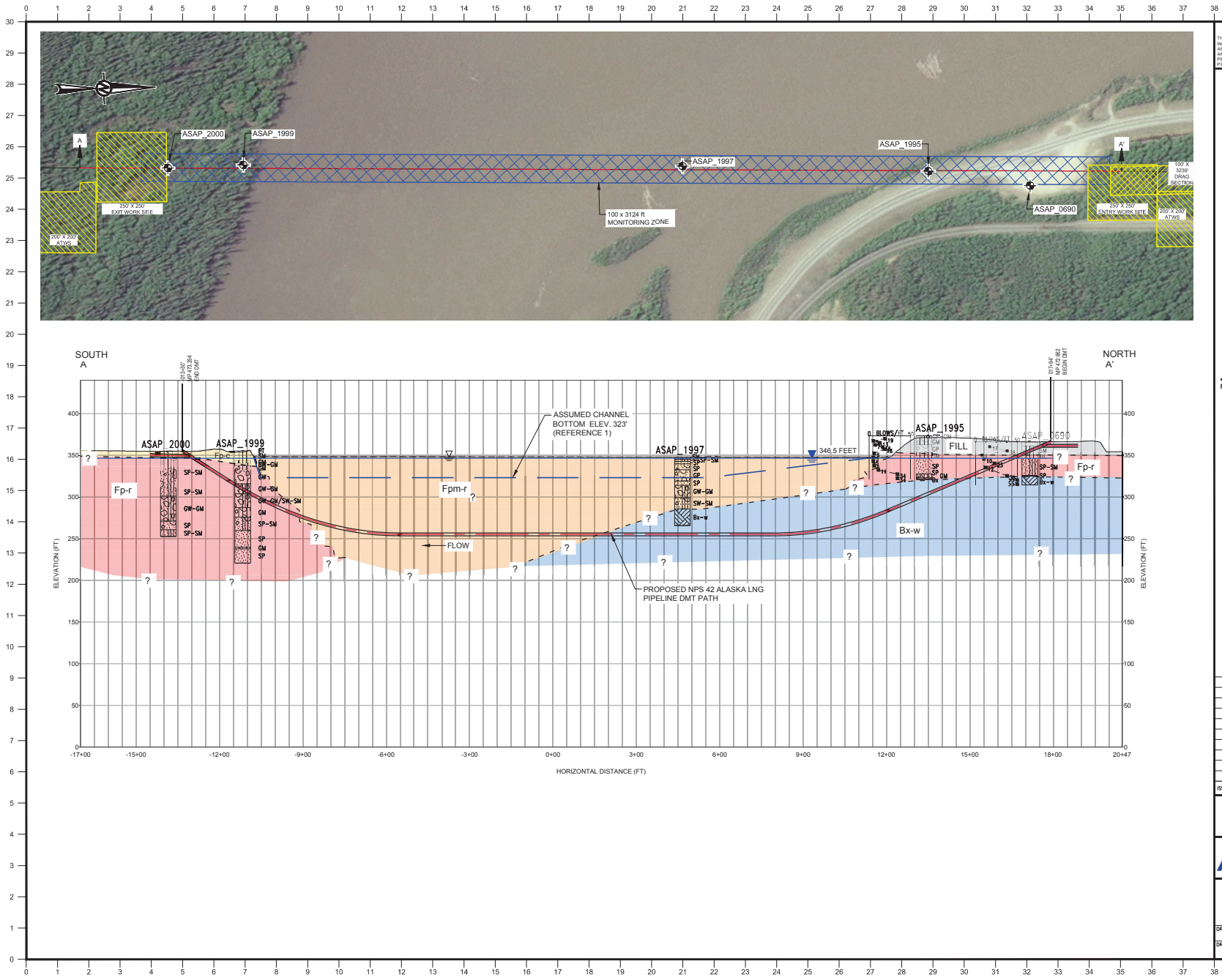
PIPE TYPE	PIPE SIZE	OD	WT	PIPE SPECIFICATION	MOP	DESIGN PRESSURE	COATING	CATHODIC PROTECTION
		inch	inch		psig	psig		
LINE PIPE	NPS 42	42	0.677	API 5L Grade X80M PSL2	2075	2075	3 LPE	YES
HEAVY WALL	NPS 42	42	1.24	API 5L Grade X70M PSL2	2075	2075	3 LPE	YES

COORDINATES TABLE

COORD. SYSTEM	DATUM	ZONE
GCS_NAD_1983_NSR5 2007	NAD 83_NSR5 2007	ALASKA ZONE 4
CROSSING COORDINATES @ MP 473.002		
N. 3863192 E. 1779130		

**NOTES:**

1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
2. LIMITED SUBSOIL INFORMATION IS AVAILABLE.
3. THE GROUND PROFILE IS BASED ON LIDAR OBTAINED IN 2014. ELEVATIONS ARE GEODETIC.
4. THE CROSSING DESIGN IS CONCEPTUAL AND IS TO BE CONFIRMED DURING DETAILED ENGINEERING.
5. THE CONSTRUCTION PERIOD IS TENTATIVELY SCHEDULED DURING SUMMER.
6. THE EXPECTED SOIL CONDITIONS, BASED ON AVAILABLE SUBSURFACE DATA OR TERRAIN MAPPING, CONSIST OF SAND, SILT AND FINE TO COARSE, SUB-ANGULAR GRAVEL OVERLYING HIGHLY WEATHERED SCHIST. SOILS ARE GENERALLY UNFROZEN.
7. FOR ADDITIONAL GEOTECHNICAL INFORMATION SEE FEDERAL ENERGY REGULATORY COMMISSION MAJOR WATERBODIES SITE CHARACTERISTICS AND INSTALLATION METHODOLOGY REPORT - USAP-WP-GRZZZ-00-000054-000.



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**LEGEND**

- FILL
- Fp-c - FLOODPLAIN COVER DEPOSITS
- Fp-r FLOODPLAIN RIVERBED DEPOSITS
- Fp-m-r - MEANDER FLOODPLAIN RIVERBED
- Bx-w - WEATHERED BEDROCK

HORIZONTAL 1" = 300' FEET  
 VERTICAL 1" = 100' FEET

- REFERENCES**
- ASSUMED CHANNEL BOTTOM LINE FROM DRAWING NO. USAP-WP-YDPLX-00-000029-000, TANANA RIVER @ MP 473 DMT CROSSING PLAN & PROFILE, DATED 20150303, FROM RESOURCE REPORT NO 2, APPENDIX I - SITE-SPECIFIC CONSTRUCTION DRAWINGS - SITE-SPECIFIC WATERBODY CROSSING PLANS, DOC NO: SA-PE-SRREG-00-000002-000, DATED 2017-04-14, REV 0.

ISSUE	DATE	BY	CHKD	DESCRIPTION	REV#	RESP	APP'D

**GOLDER** ALASKA LNG PROJECT  
 TANANA RIVER, ALASKA

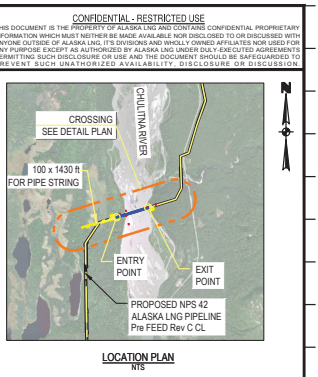
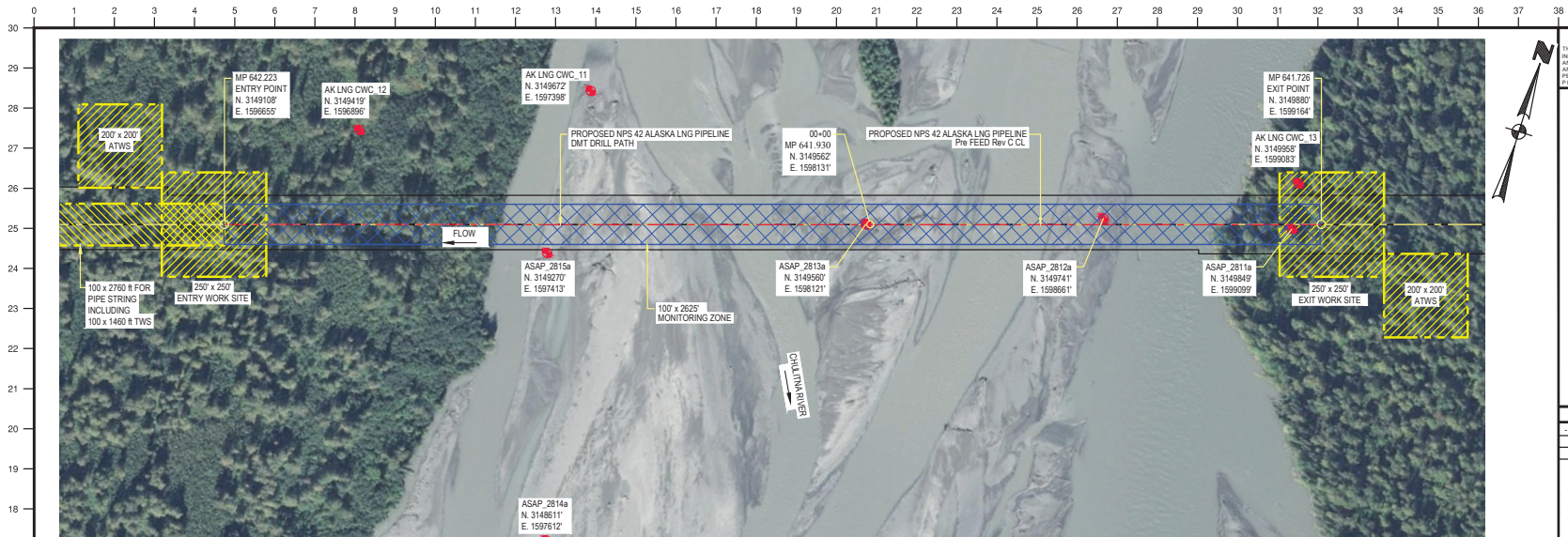
**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
 TANANA RIVER @ MP473.002  
 DMT CROSSING  
 GENERALIZED GEOLOGIC PLAN AND PROFILE

DRAWN BY: ADP	DATE: 20191206	SCALE: AS SHOWN	CHD: EUC
DRAWING NO.:			FIGURE NO. 6

G-6





**REFERENCE DRAWINGS**


**ABBREVIATIONS & ACRONYMS**

- API - AMERICAN PETROLEUM INSTITUTE
- ATWS - ADDITIONAL TEMPORARY WORK SPACE
- CVR - COVER
- DMT - DIRECTIONAL MICROTUNNELLING
- HDD - HORIZONTAL DIRECTIONAL DRILLING
- LIDAR - LIGHT DETECTION AND RANGING
- MIN - MINIMUM
- MP - MILE POST
- MOP - MAXIMUM OPERATING PRESSURE
- MSL - MEAN SEA LEVEL
- NAD - NORTH AMERICAN DATUM
- NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
- NSRS 2007 - NATIONAL SPATIAL REFERENCE SYSTEM 2007
- plg - POUNDS PER SQUARE INCH GAUGE
- 3LPE - THREE LAYER POLYETHYLENE

**LEGEND:**

- - BOREHOLE

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ISS#	DATE	BY / CWD	DESCRIPTION	REV'D	RESP	APP'D
2	20191205		RE-ISSUED FOR USE			
3	20181112		RE-ISSUED WITH REVISIONS			
2	20160829		RE-ISSUED FOR USE			JT
1	20160602		RE-ISSUED FOR USE			JT
0	20160114		ISSUED FOR USE			JT

ALASKA LNG PROJECT  
LNG FACILITIES  
Nikiski, Alaska

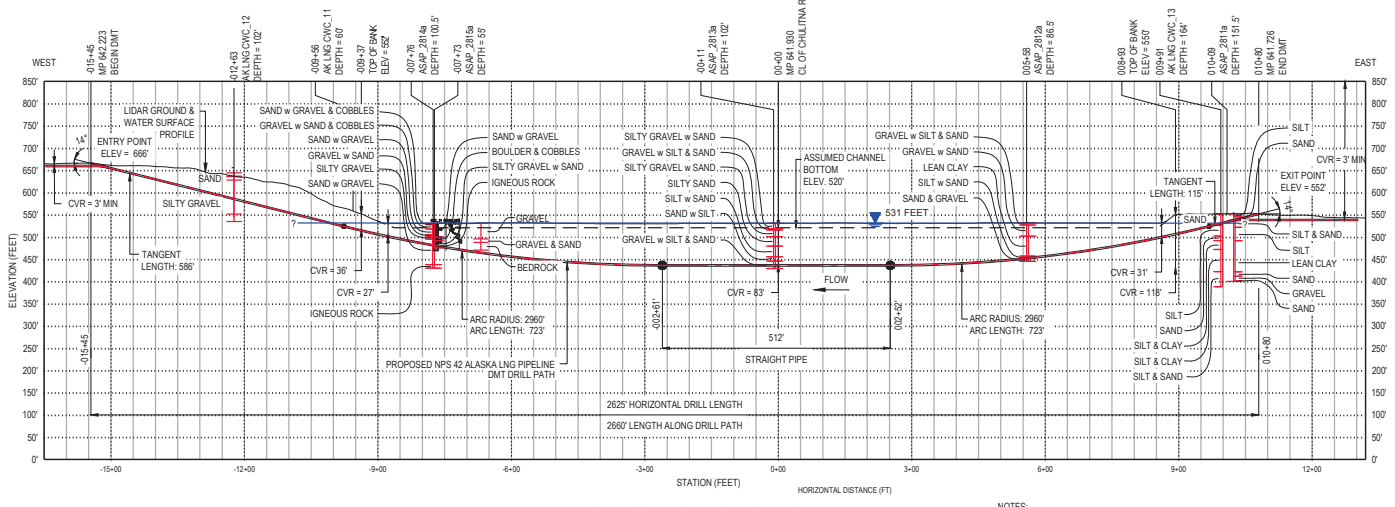
**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
CHULITNA RIVER @ MP 641.930  
WPC 350  
DMT CROSSING PLAN & PROFILE

<b>DRAWN BY</b>		<b>DATE</b>		<b>SCALE</b>		<b>Chd</b>		
	LW		20150908		AS SHOWN			
<b>DRAWING NO.</b>	USAP-WP-YDPLX-00-000030-000						<b>ISSUE NO.</b>	2

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**DETAIL PLAN**  
SCALE: 1" = 100'



**PROFILE ALONG PROPOSED NPS 42 ALASKA LNG PIPELINE**  
HORIZONTAL SCALE: 1" = 100'  
VERTICAL SCALE: 1" = 10'

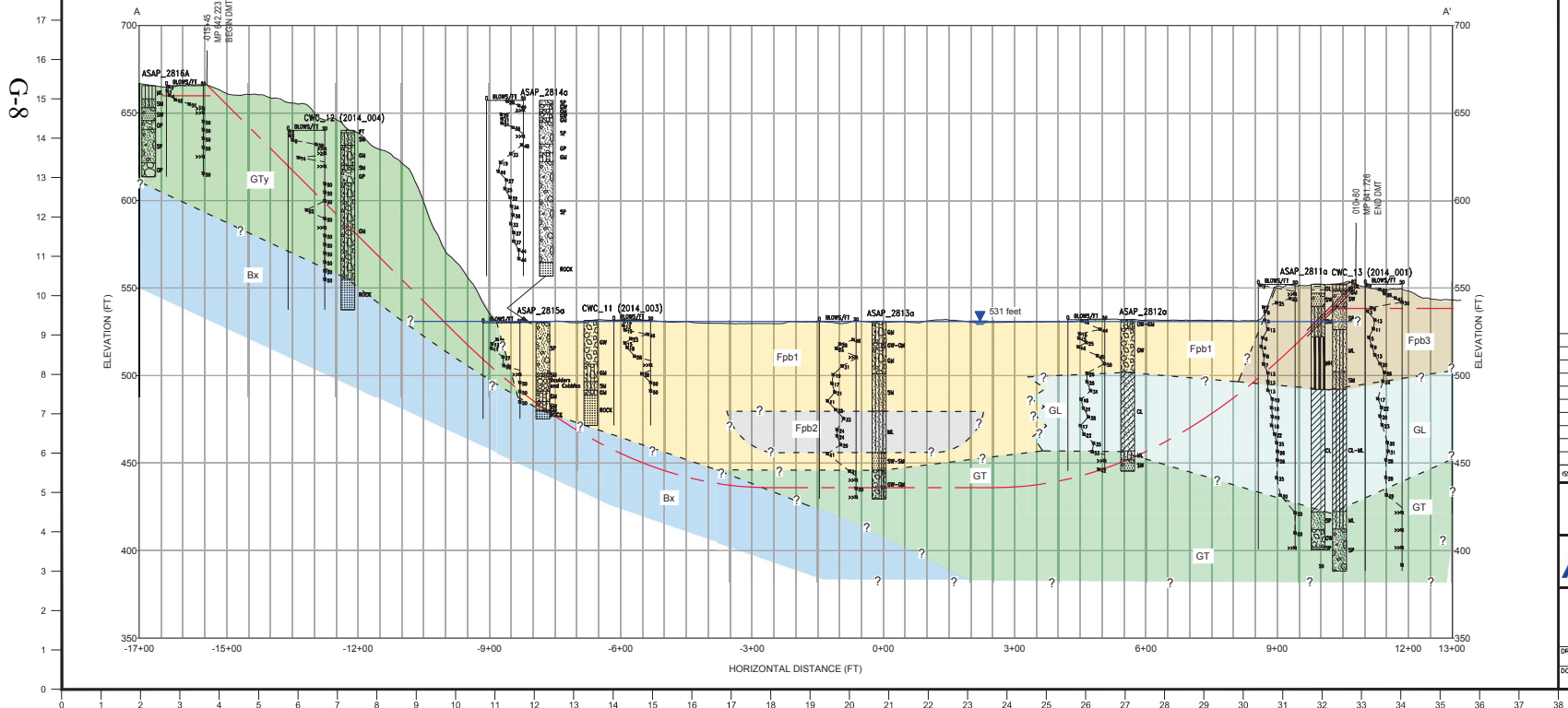
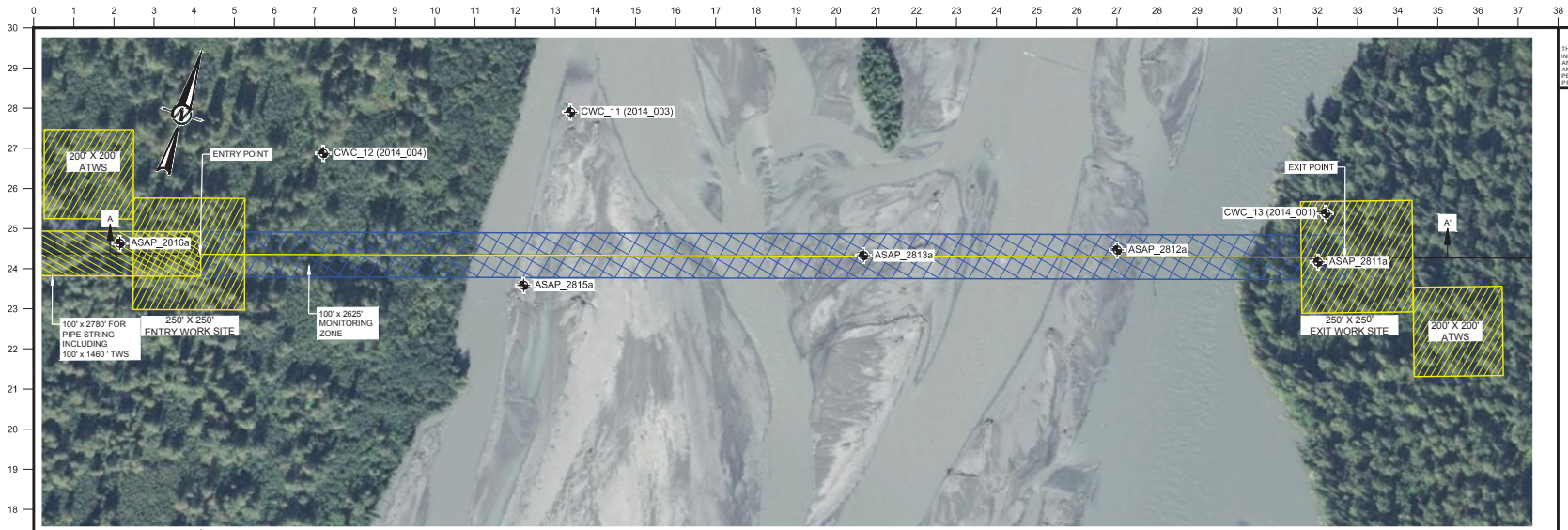
- NOTES:**
- ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
  - SUBSOIL INFORMATION IS AVAILABLE.
  - THE GROUND PROFILE IS BASED ON LIDAR OBTAINED IN 2014. ELEVATIONS ARE GEODETIC.
  - THE CROSSING DESIGN IS CONCEPTUAL AND IS TO BE CONFIRMED DURING DETAILED ENGINEERING.
  - THE CONSTRUCTION PERIOD IS TENTATIVELY SCHEDULED DURING SUMMER.
  - THE EXPECTED SOIL CONDITIONS WITHIN THE CHANNEL, BASED ON AVAILABLE SUBSURFACE DATA OR TERRAIN MAPPING, CONSIST OF SILT AND SAND OVERLYING SILTY CLAY. IGNEOUS ROCK IS EXPECTED AT DEPTH NEAR THE WEST BANK. FURTHER INVESTIGATION IS REQUIRED TO CONFIRM THE EXPECTED CONDITIONS.
  - FOR ADDITIONAL GEOTECHNICAL INFORMATION SEE FEDERAL ENERGY REGULATORY COMMISSION MAJOR WATERBODIES SITE CHARACTERISTICS AND INSTALLATION METHODOLOGY REPORT - USAP-WP-GRZZ2-00-000054-000.

**PIPE SPECIFICATION TABLE**

PIPE TYPE	PIPE SIZE	OD	WT	PIPE SPECIFICATION	MOP	DESIGN PRESSURE	COATING	CATHODIC PROTECTION
		inch			psig	psig		
LINE PIPE	NPS 42	42	0.677	API 5L Grade X80M PSL2	2075	2075	3 LPE	YES
HEAVY WALL	NPS 42	42	1.24	API 5L Grade X70M PSL2	2075	2075	3 LPE	YES

**COORDINATES TABLE**

COORD. SYSTEM	DATUM	ZONE
GCS_NAD_1983_NSRS 2007	NAD 83_NSRS 2007	ALASKA ZONE 4
CROSSING COORDINATES @ MP 641.930		
N. 3149562 E. 1598131		



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**LEGEND**

- Fpb1 - BRAIDED FLOODPLAIN DEPOSITS
- Fpb2 - SILT WITH SAND DEPOSITS
- Fpb3 - ABANDONED BRAIDED FLOODPLAIN DEPOSITS
- GTy - GLACIAL TILL DEPOSITS, NAFTOWNE STAGE
- GT - GLACIAL TILL DEPOSITS
- GL - GLACIOLACUSTRINE DEPOSITS
- Bx - BEDROCK

HORIZONTAL 1" = 240' FEET  
 VERTICAL 1" = 60' FEET

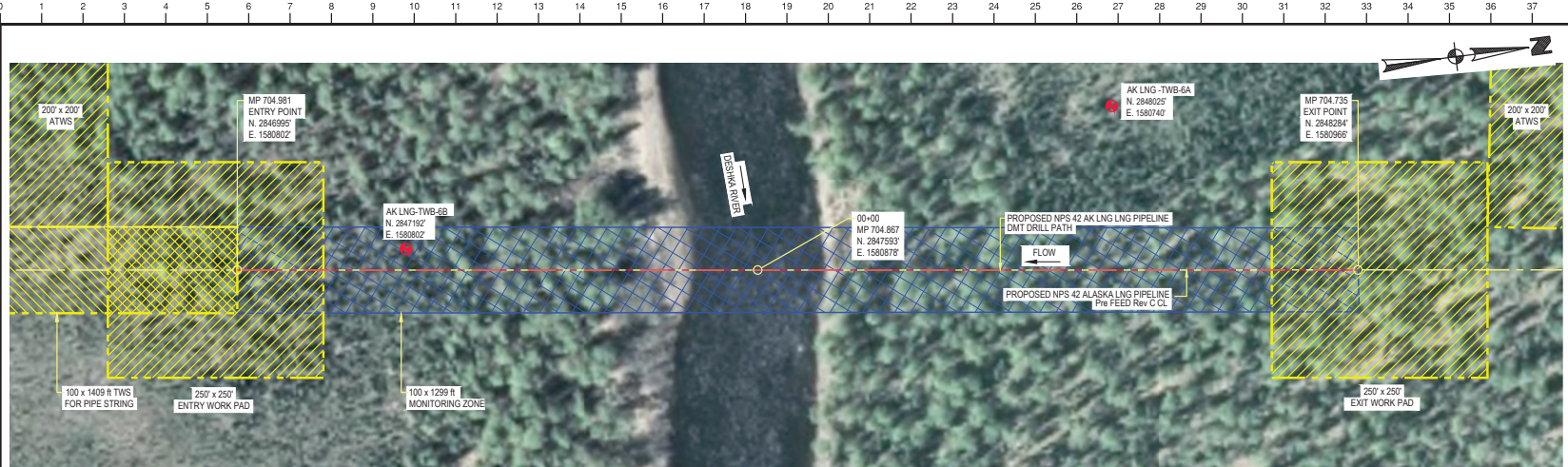
ISSUE	DATE	BY / CODE	DESCRIPTION	REVISED	RESP. CODE	APP'D

**GOLDER** ALASKA LNG PROJECT  
 CHULITNA RIVER, Alaska

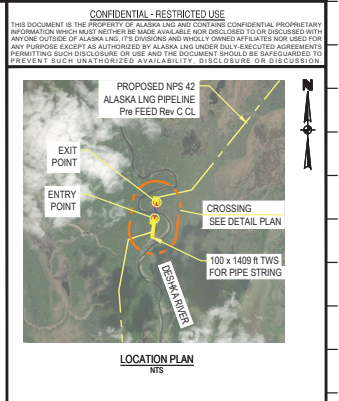
**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
 CHULITNA RIVER @ MP 641.930  
 DMT CROSSING  
 GENERALIZED GEOLOGIC PLAN AND PROFILE

DRAWN BY: ANP DATE: 20191204 SCALE: AS SHOWN CHD: Etc  
 DOCUMENT NO. AKLNG-4020-YYY-STD-DOC-00086 FIGURE NO. 6



DETAIL PLAN  
SCALE 1" = 80'



LOCATION PLAN  
NTS

REFERENCE DRAWINGS

ABBREVIATIONS & ACRONYMS

- API - AMERICAN PETROLEUM INSTITUTE
- ATWS - ADDITIONAL TEMPORARY WORK SPACE
- CVR - COVER
- DEM - DIGITAL ELEVATION MODEL
- DMT - DIRECTIONAL MICROTUNNELING
- HDD - HORIZONTAL DIRECTIONAL DRILLING
- LIDAR - LIGHT DETECTION AND RANGING
- MOP - MAXIMUM OPERATING PRESSURE
- MSL - MEAN SEA LEVEL
- NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
- NDZ - NO DRILL ZONE
- psig - POUNDS PER SQUARE INCH GAUGE
- 3LPE - THREE LAYER POLYETHYLENE
- 3LPP - THREE LAYER POLYPROPYLENE

LEGEND:

- - 2016 BOREHOLE

**PRELIMINARY ONLY  
NOT FOR  
CONSTRUCTION**

ISS#	DATE	BY/ CHKD	DESCRIPTION	REV'D DATE	RESP CODE	APPRO
2	20191206		ISSUED FOR USE			
1	20181127		REVISED WITH TWS # BOREHOLE			
0	20160828	UV	ISSUED FOR USE			JT

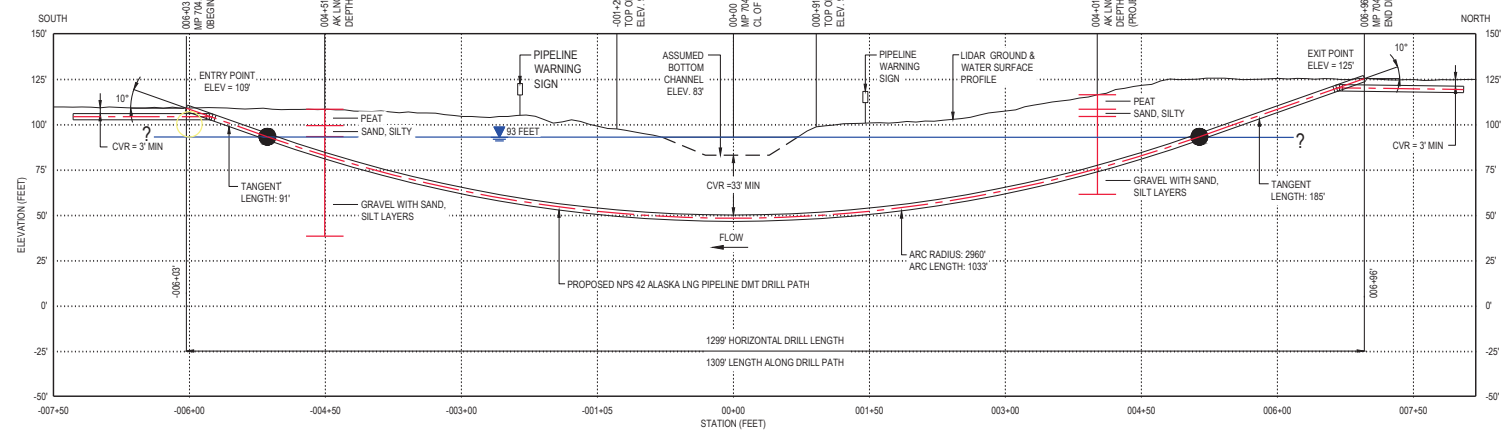
ALASKA LNG PROJECT  
LNG FACILITIES  
Nisiki, Alaska

**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
DESHKA RIVER @ MP 704.867  
WPC 373-B  
DMT CROSSING PLAN & PROFILE

DRAWN BY	LW	DATE	20160418	SCALE	AS SHOWN	COND APPRO	IT
DRAWING NO.							

USAP-WP-YDPLX-00-000065-000



PROFILE ALONG PROPOSED NPS 42 ALASKA LNG PIPELINE  
HORIZONTAL SCALE 1" = 60'  
VERTICAL SCALE 1" = 32'

- NOTES:
- ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
  - SUBSOIL INFORMATION IS LIMITED.
  - THE GROUND PROFILE IS BASED ON LIDAR OBTAINED IN 2014. ELEVATIONS ARE GEODETIC.
  - THE CROSSING DESIGN IS CONCEPTUAL AND IS TO BE CONFIRMED DURING DETAILED ENGINEERING.
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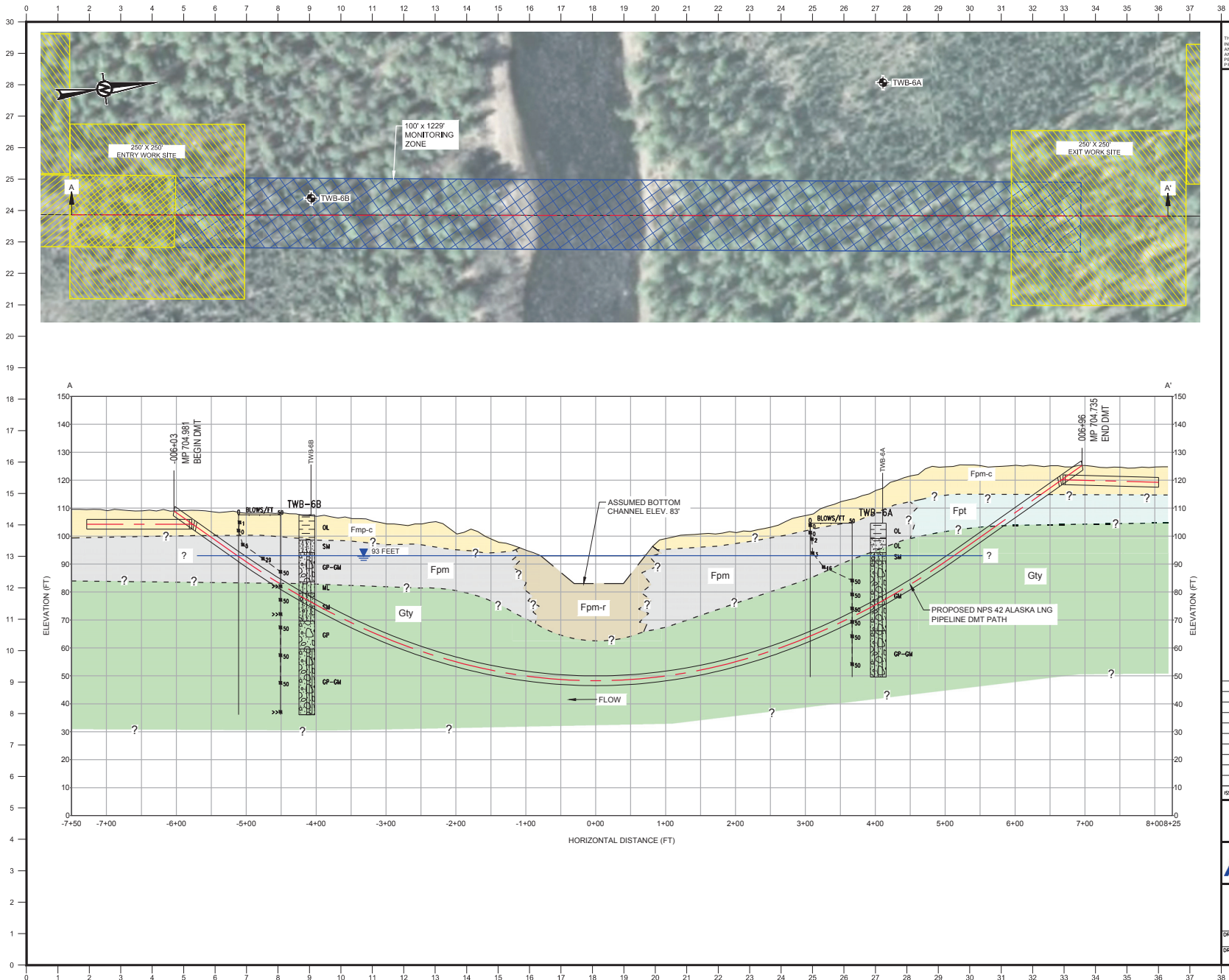
PIPE SPECIFICATION TABLE

PIPE TYPE	PIPE SIZE	OD WT		PIPE SPECIFICATION	MOP psig	DESIGN PRESSURE psig	COATING	CATHODIC PROTECTION
		inch	lb/ft					
LINE PIPE	NPS 42	42	0.677	API 5L Grade X80M PSL2	2075	2075	3LPE	YES
HEAVY WALL	NPS 42	42	1.24	API 5L Grade X70M PSL2	2075	2075	3LPE	YES

COORDINATES TABLE

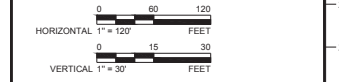
COORD. SYSTEM	DATUM	ZONE
GCS_NAD_1983_NSR5 2007	NAD 83_NSR5 2007	ALASKA ZONE 4
CROSSING COORDINATES @ MP 704.867 N. 2847593' E. 1580878'		

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- LEGEND**
- Fpm-c - MEANDER FLOODPLAIN COVER DEPOSITS
  - Fpm - MEANDER FLOODPLAIN DEPOSITS
  - Fpm-r - MEANDER FLOODPLAIN RIVERBED DEPOSITS
  - Fpt - FLUVIAL DEPOSITS (OLD HIGH LEVEL TERRACE)
  - Gly - GLACIAL TILL DEPOSITS, NAPTOWNE GLACIATION



ISSUE	DATE	BY / CHK'D	DESCRIPTION	REV'Y / EDC	RESP / EDC	APP'D

**GOLDER** ALASKA LNG PROJECT  
 DESHKA RIVER, ALASKA

**ALASKA LNG**

ALASKA LNG PIPELINE PROJECT  
 DESHKA RIVER @ MP704.867  
 DMT CROSSING  
 GENERALIZED GEOLOGIC PLAN AND PROFILE

DRAWN BY: ADPI	DATE: 20191206	SCALE: AS SHOWN	CHWD: EDC
DRAWING NO.:			FIGURE NO. 6