

ALASKA LNG PROJECT	DOCKET NO. CP17-____-000 RESOURCE REPORT NO. 1 APPENDIX B – PLOT PLANS OF PROPOSED ABOVEGROUND FACILITIES	DOC No: USAI-PE-SRREG-00- 000001-000 DATE: APRIL 14, 2017 REVISION: 0
	PUBLIC	

APPENDIX B PLOT PLANS OF PROPOSED ABOVEGROUND FACILITIES

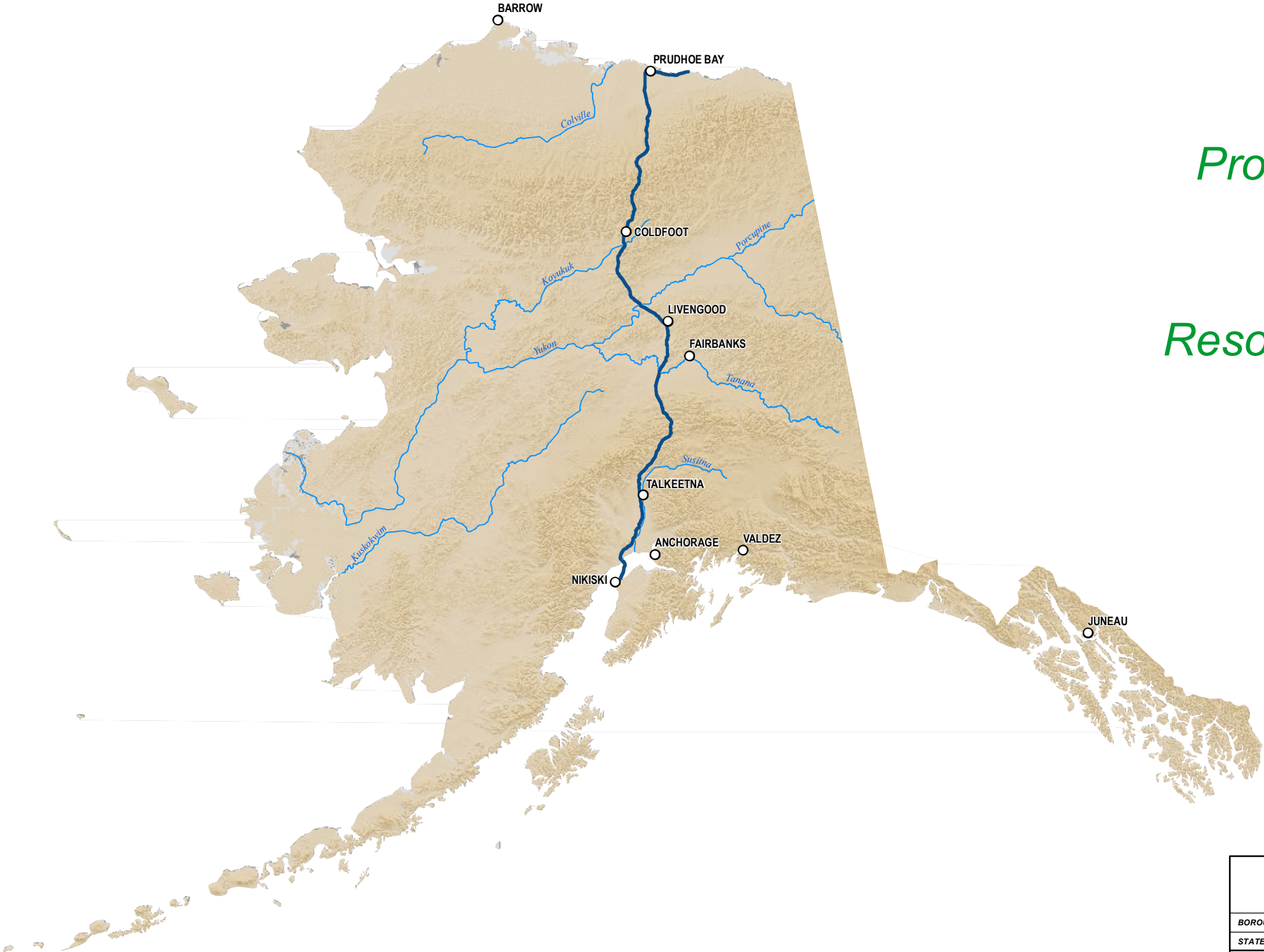
The following maps are included within this appendix (provided under separate cover).

- B1 Proposed Aboveground Facility - LNG, Compressor Station, and GTP Sites; Topographical Mapping
- B2 Proposed Aboveground Facility - LNG, Compressor Station, and GTP Sites; Aerial Mapping
- B3 Proposed Aboveground Facility Typical Layout Drawings

Alaska LNG Project

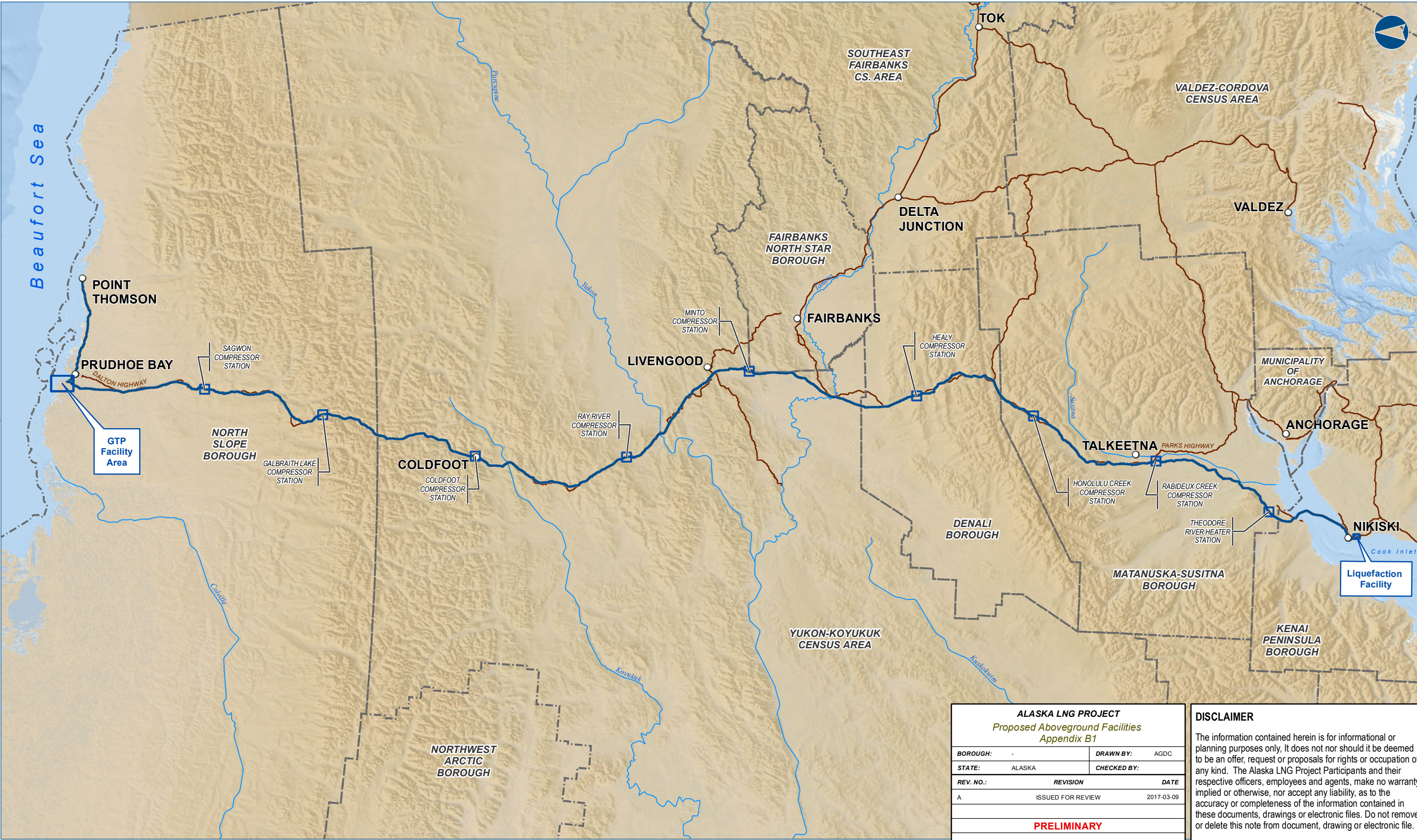
Proposed Aboveground Facility Sites

Resource Report 1, Appendix B1 Topographical Mapping



ALASKA LNG PROJECT		
Proposed Aboveground Facility Sites Appendix B1		
BOROUGH: -	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD 1983 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004	

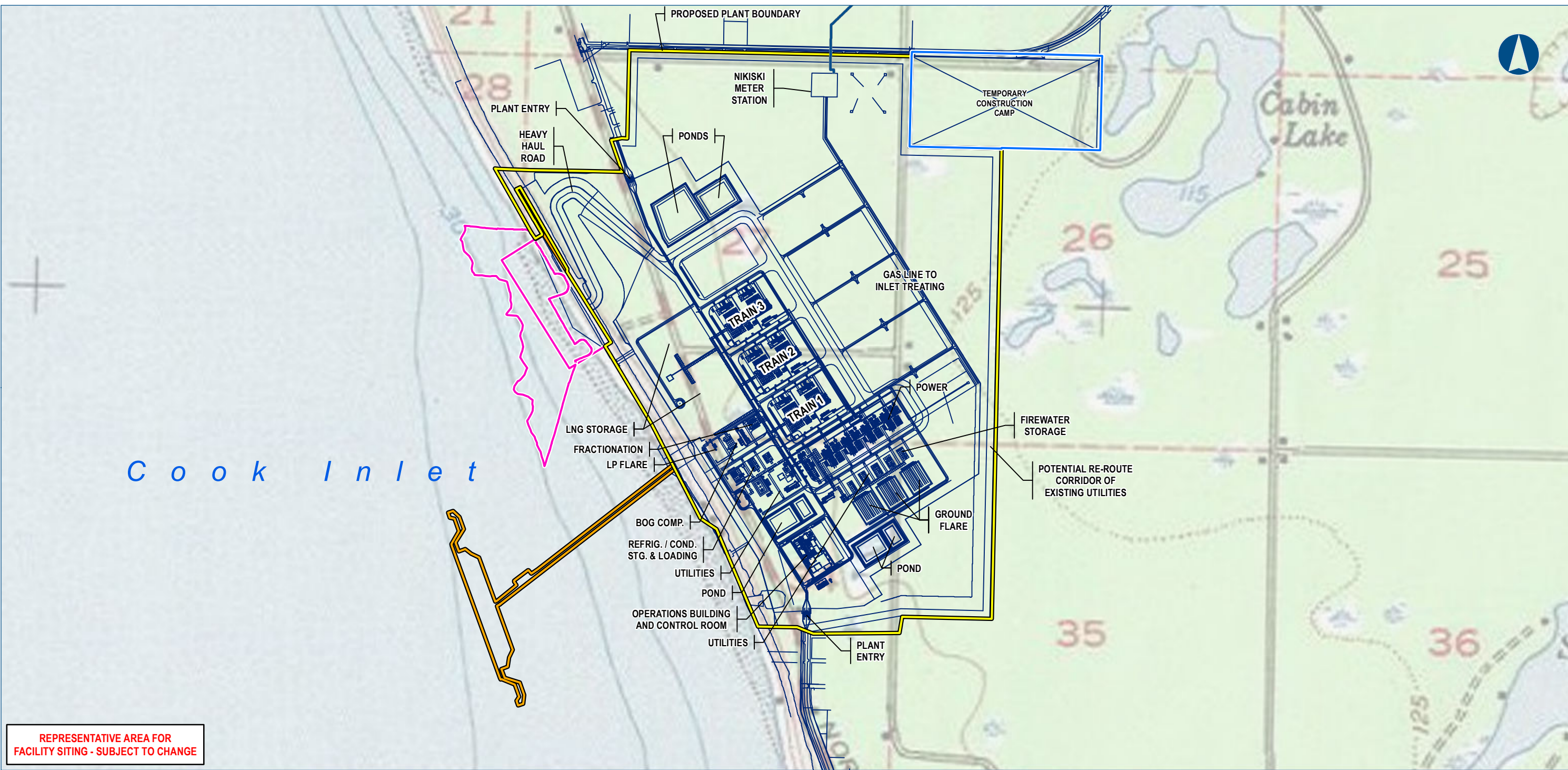
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DWG: RR1_APPENDIX_B1_TOPO_REV_C2_CL_COVER SHEET: COVER PAGE



ALASKA LNG PROJECT Proposed Aboveground Facilities Appendix B1		
BOROUGH:	-	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004	

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REPRESENTATIVE AREA FOR
FACILITY SITING - SUBJECT TO CHANGE



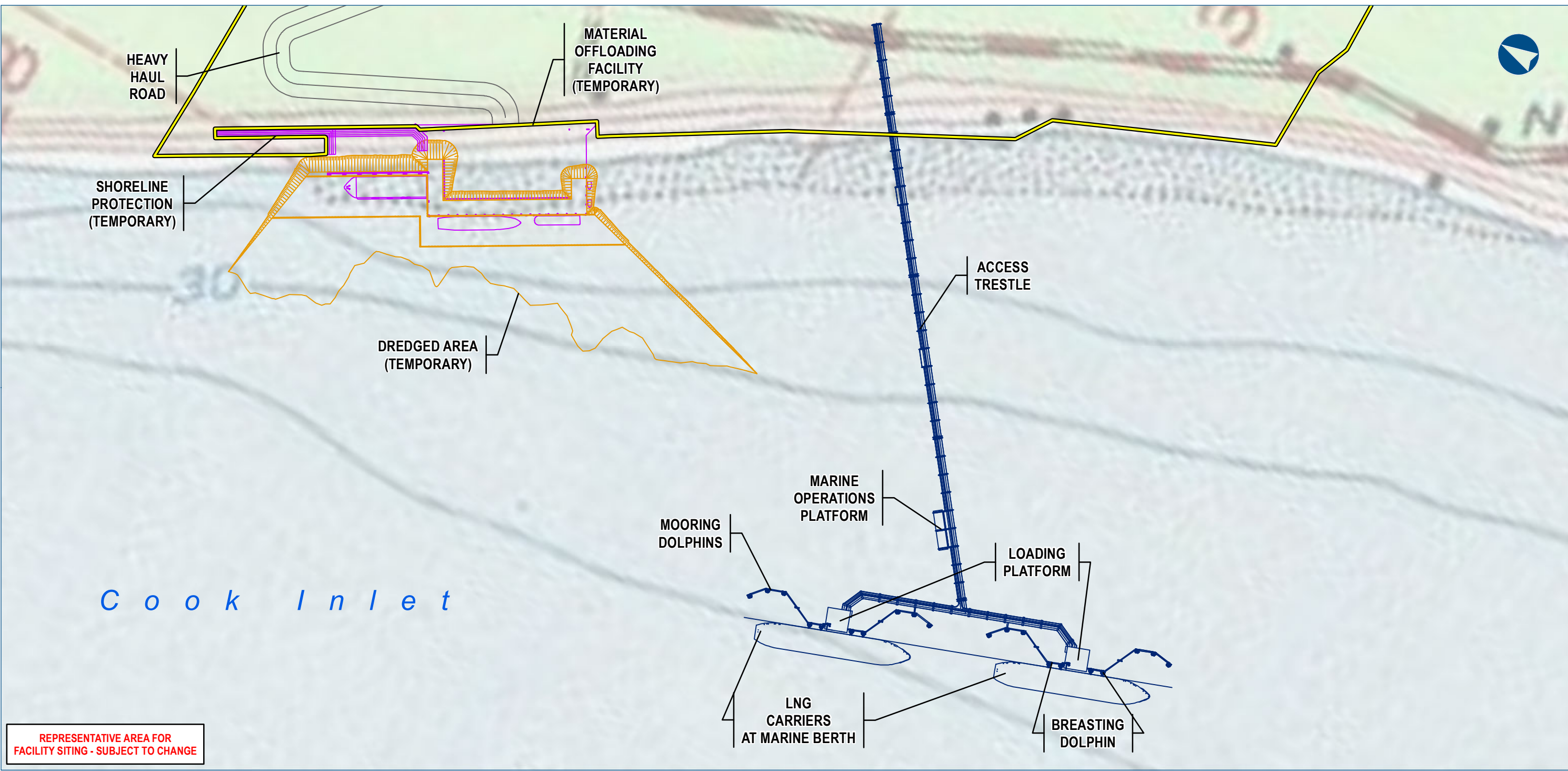
Alaska LNG Project

- Legend
- Alaska LNG Rev C2 Route
 - LNG Plant Generalized Plot Plan Features
 - LNG Plant Operations Area
 - LNG Plant Construction Camp
 - Marine Terminal Footprint Operations Area
 - Temporary MOF and MOF Dredging Area

ALASKA LNG PROJECT Proposed Aboveground Facility - Liquefaction Facility		
BOROUGH:	KENAI PENINSULA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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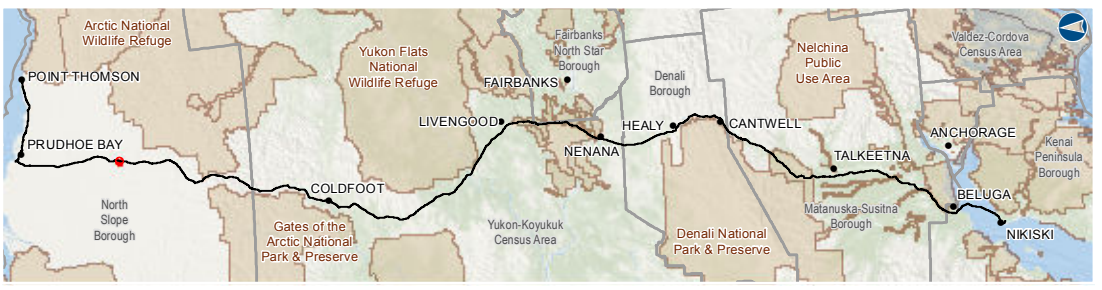
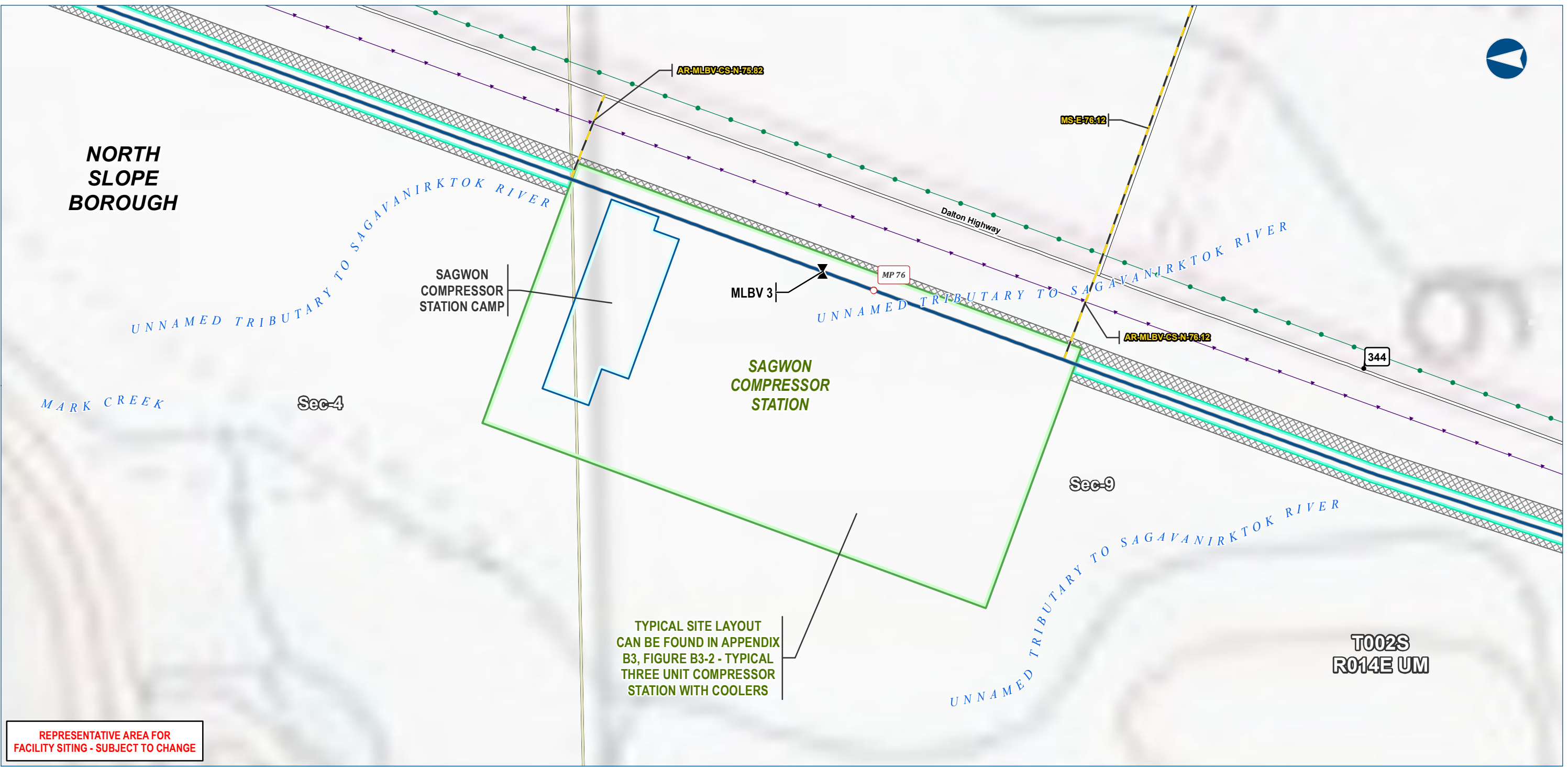


- Legend
- LNG Plant Operations Area
 - Material Offloading Facility
 - Material Offloading Facility Dredging Area
 - Product Loading Facility

ALASKA LNG PROJECT		
Proposed Facility - Marine Terminal		
BOROUGH:	KENAI PENINSULA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Existing Pipeline
- Buried Cable
- Section
- Township

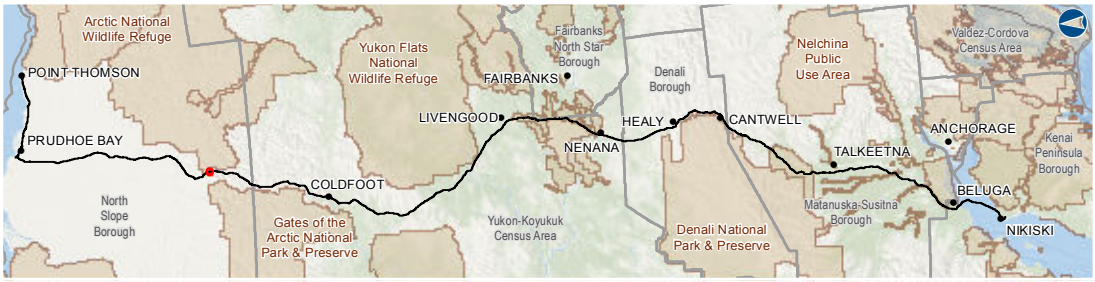
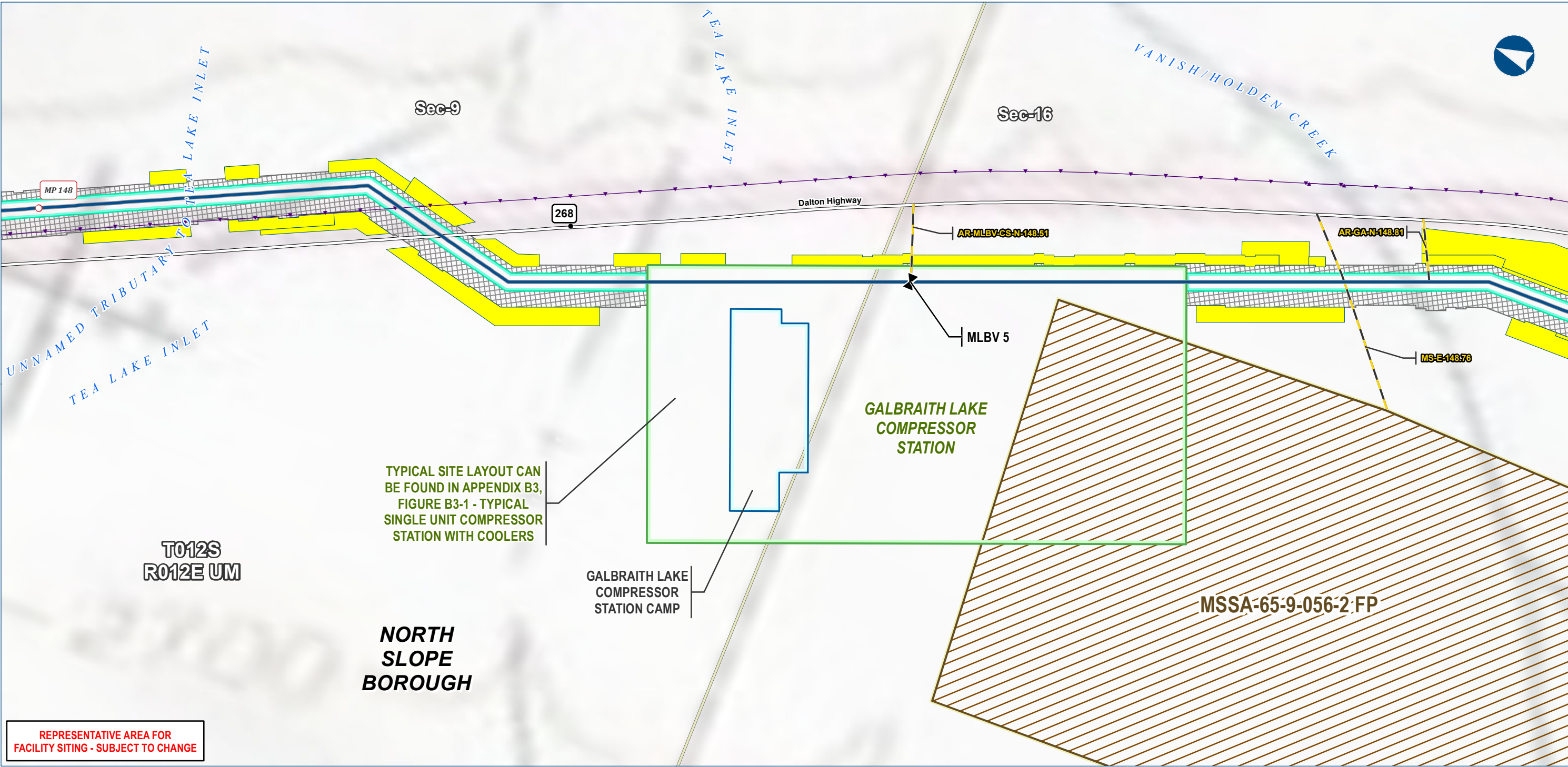
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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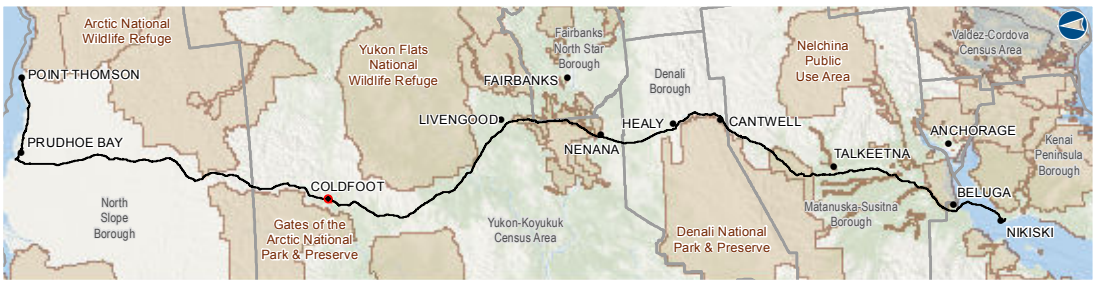
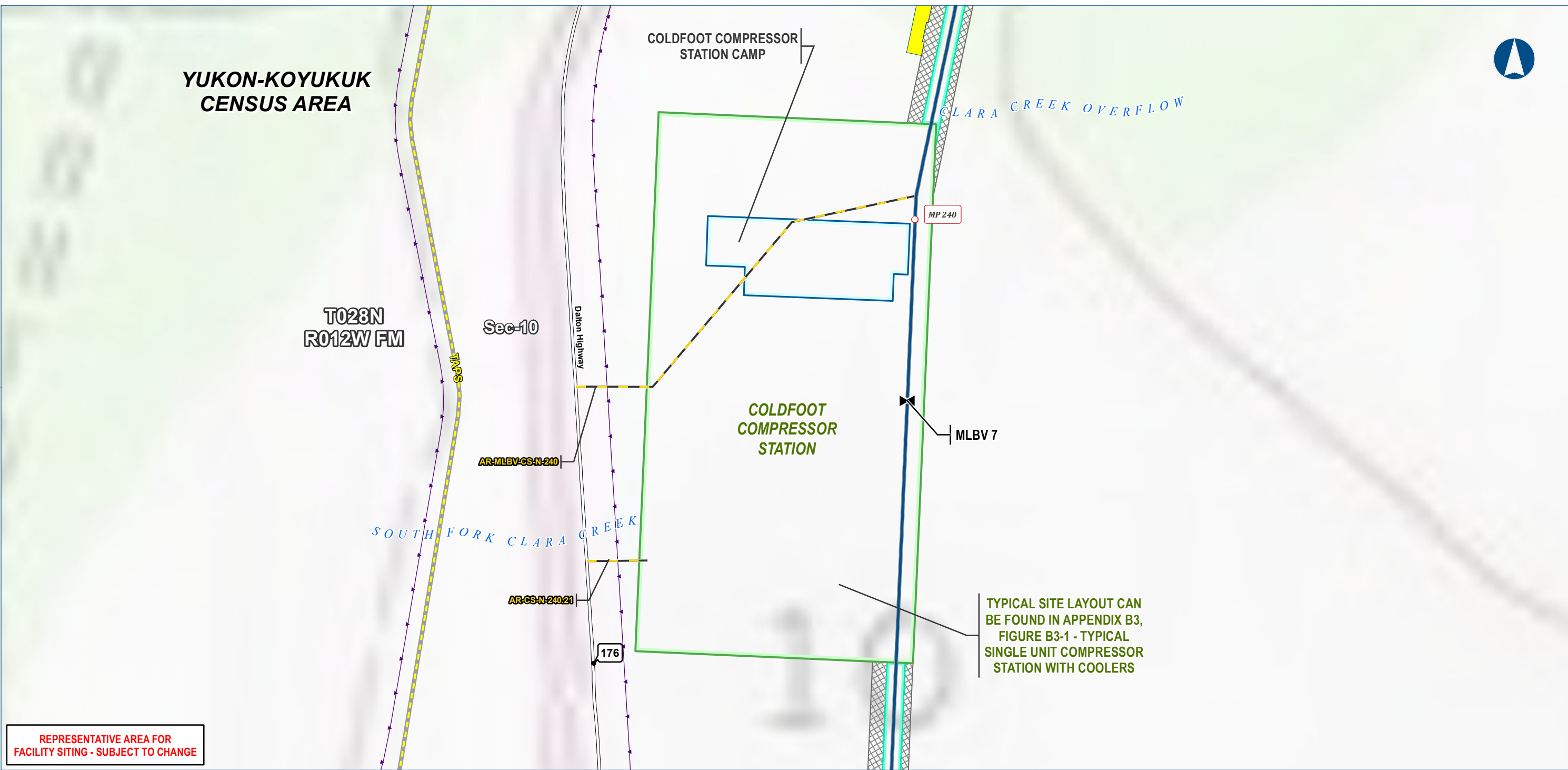
SHEET: B1-4



Legend		
PIPELINE		
	Alaska LNG Rev C2 Route	
	Access Road - Gravel	
	Mainline Blockvalve	
	Permanent ROW	
	Construction ROW	
	ATWS	
	Compressor Station	
	Camp	
	Material Site Study Area (MSSA)	
EXISTING FEATURES		
	Existing Roads	
	Buried Cable	
	Section	
	Township	

ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
1:3,600	0	200
		400 Feet
DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL SHEET: B1-5



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- TAPS
- Buried Cable
- Section
- Township

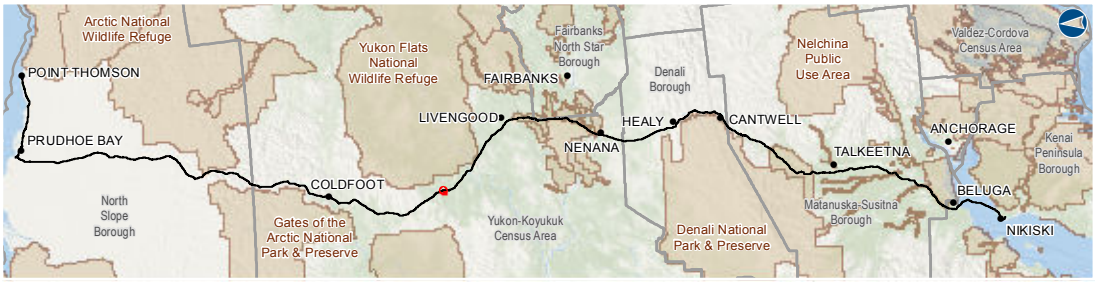
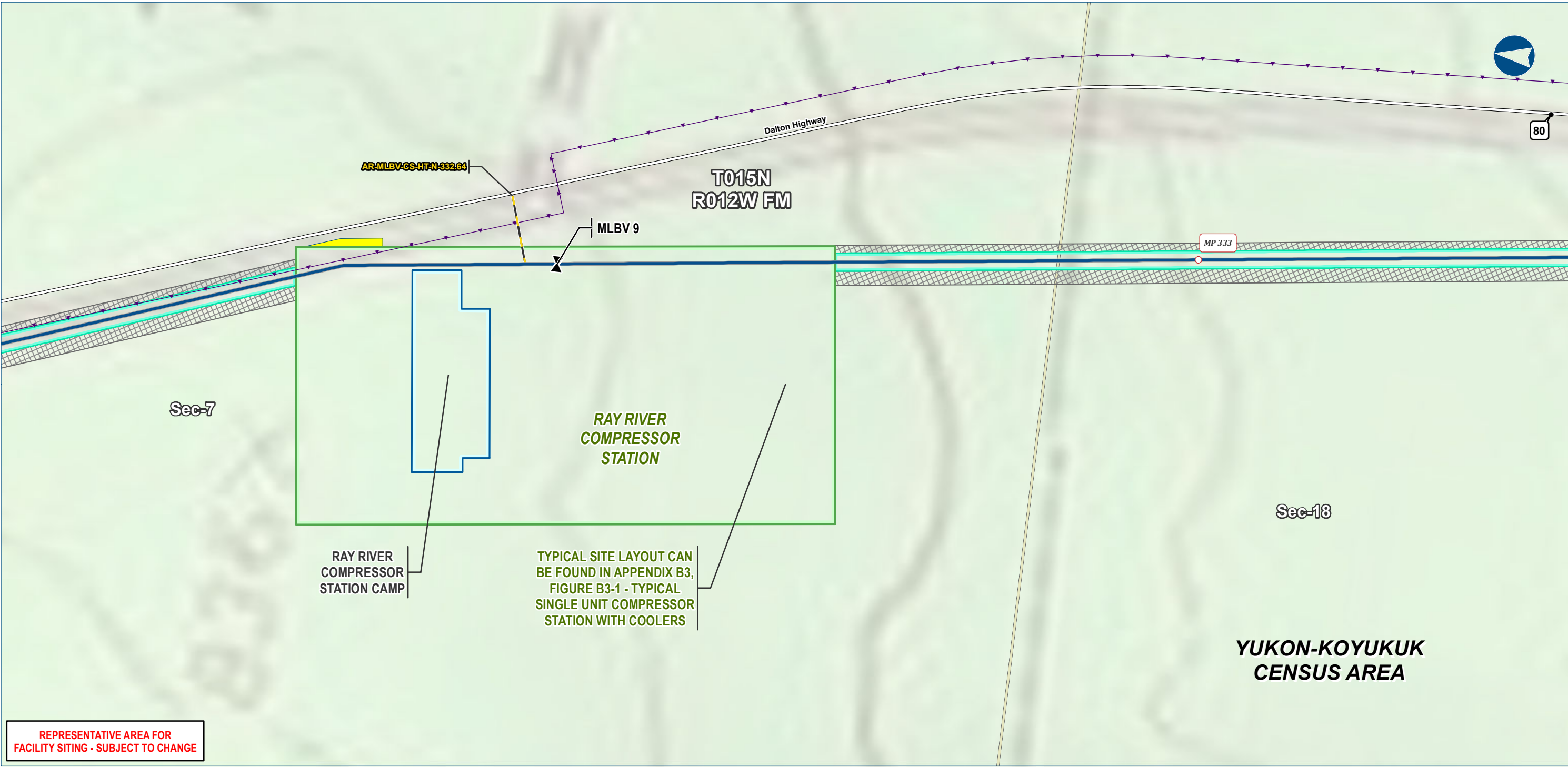
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
CENSUS AREA: YUKON-KOYUKUK	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-6



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Buried Cable
- Section
- Township

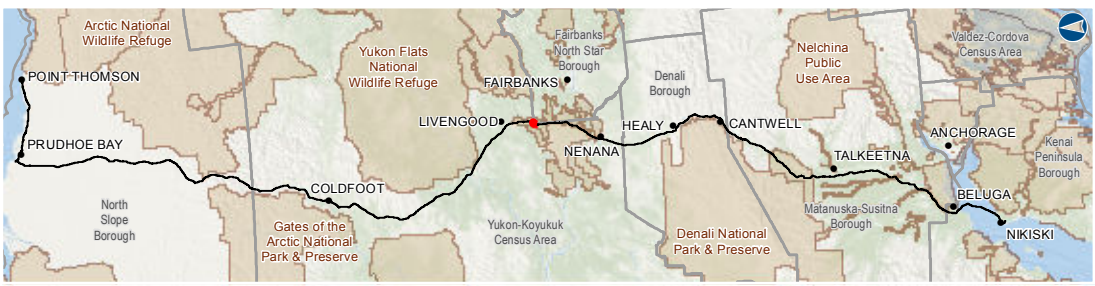
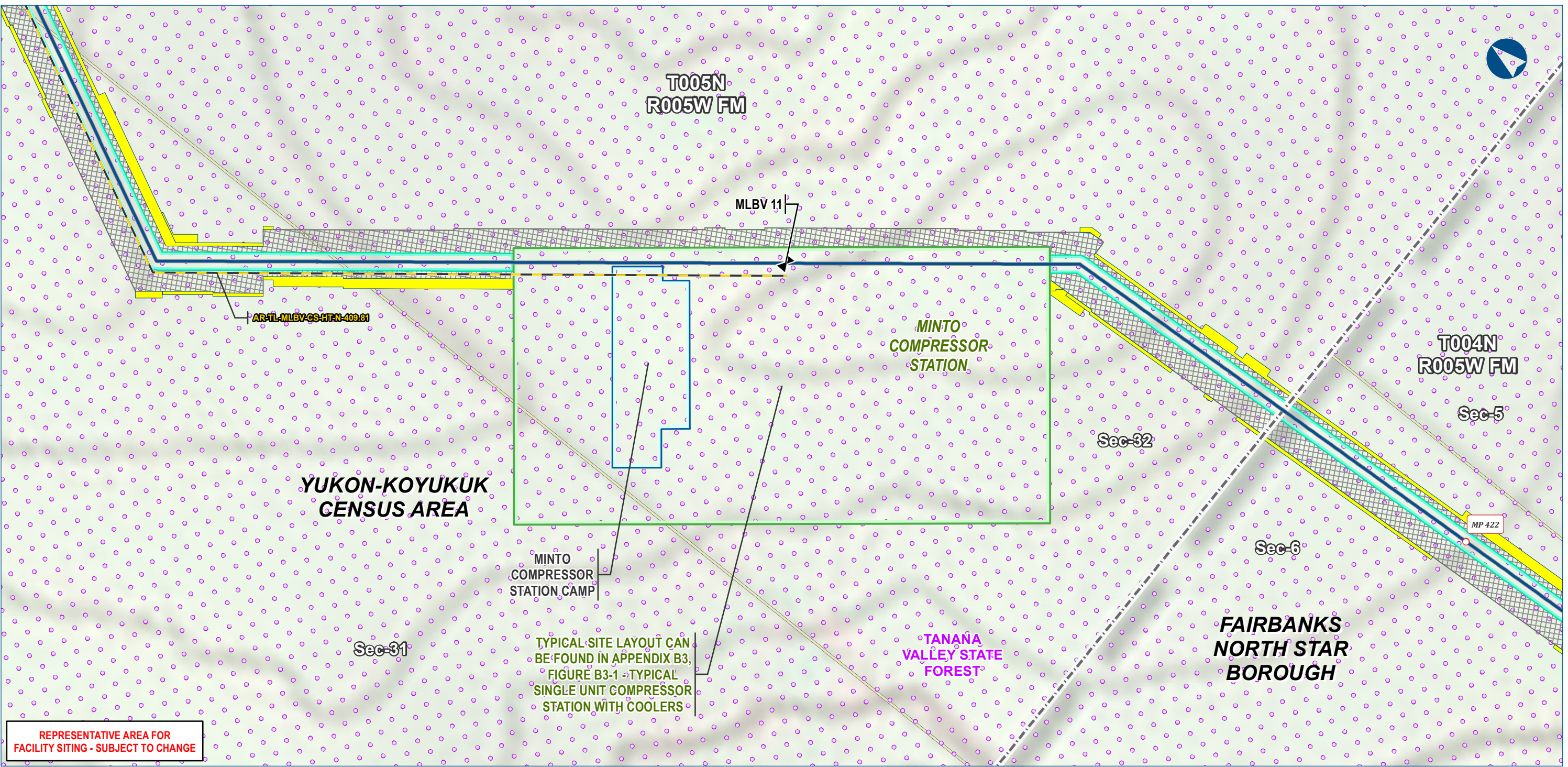
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
CENSUS AREA: YUKON-KOYUKUK	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-7



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

Legend

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Borough / Census Area
- Conservation Lands
- Section
- Township

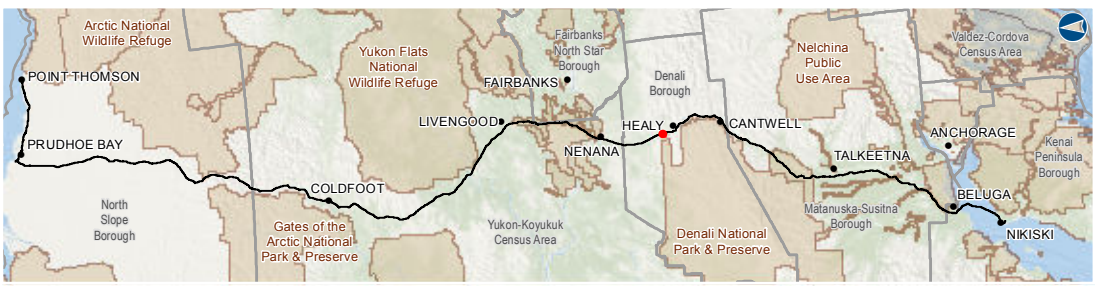
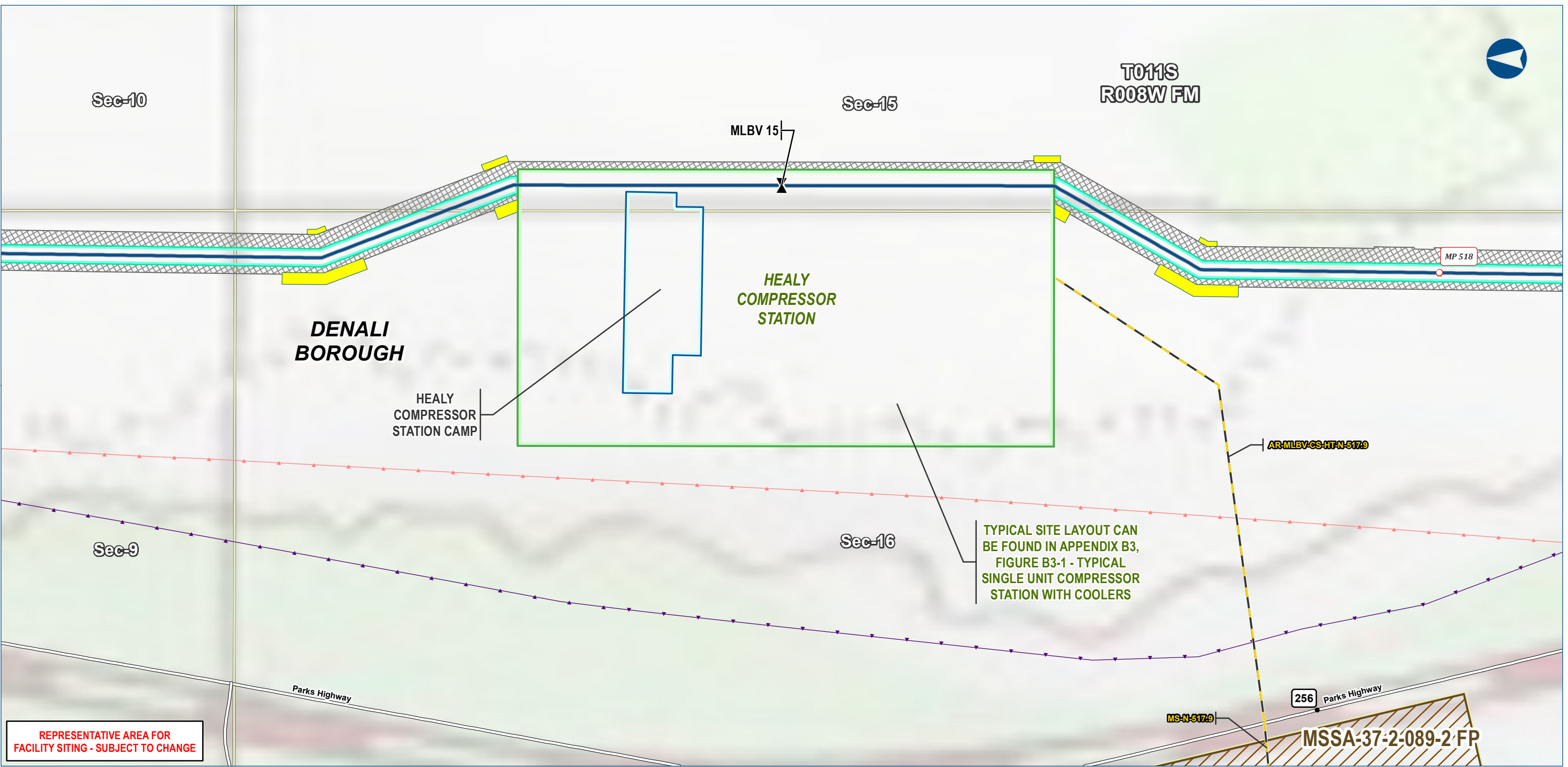
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
CENSUS AREA: YUKON-KOYUKUK	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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		400 Feet
DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-8



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Material Site Study Area (MSSA)

EXISTING FEATURES

- Existing Roads
- Buried Cable
- Overhead Powerline
- Section
- Township

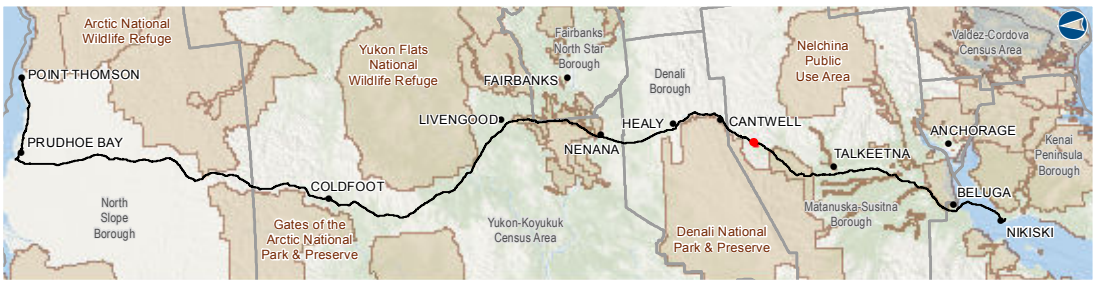
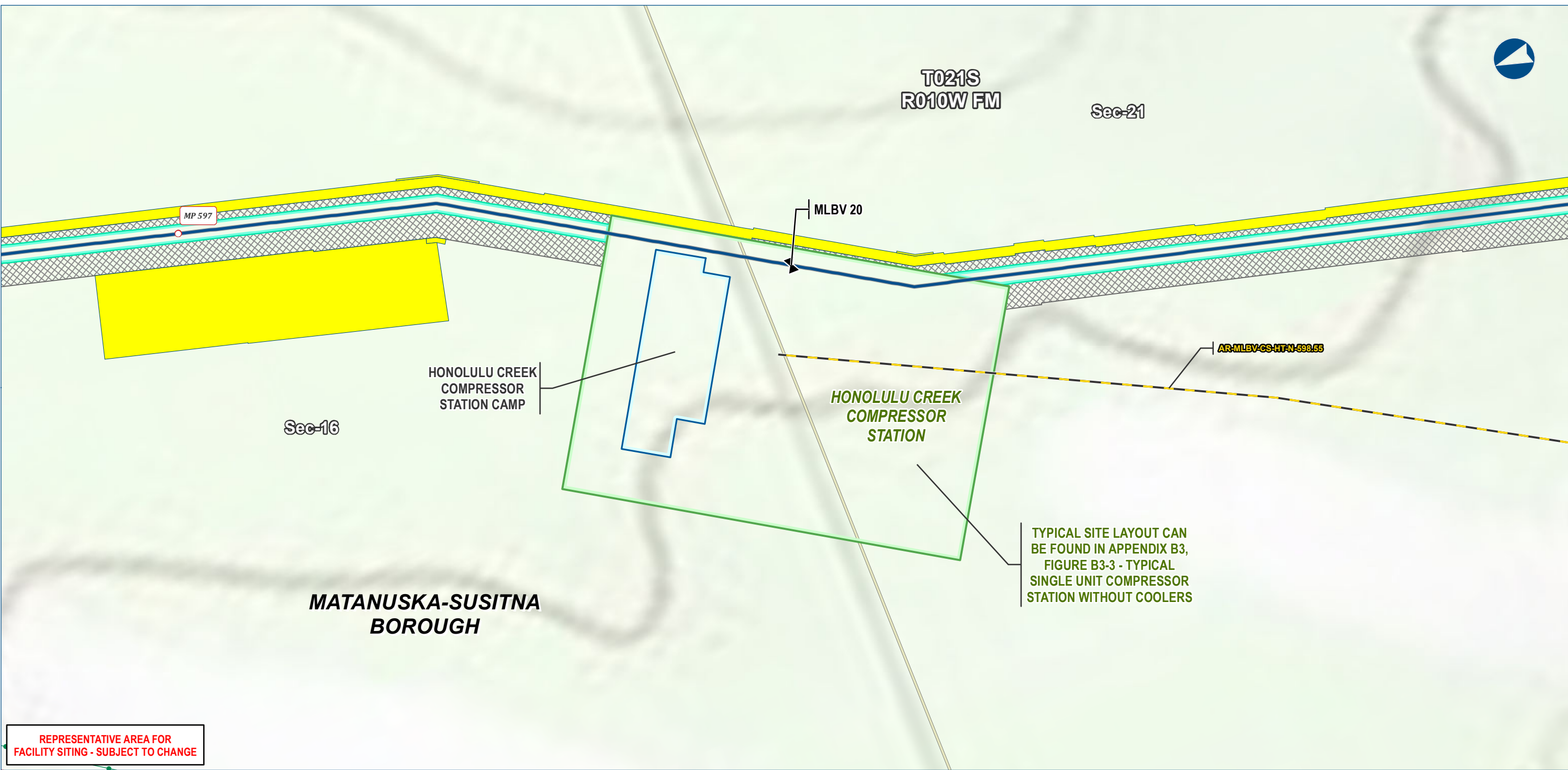
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	DENALI	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
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DATE:	2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-9

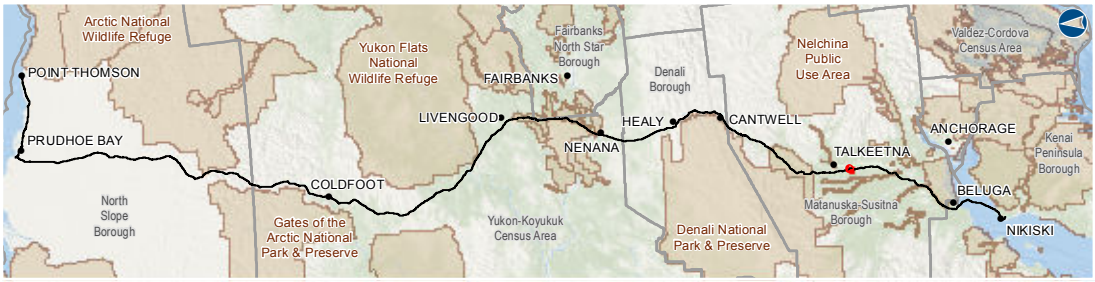
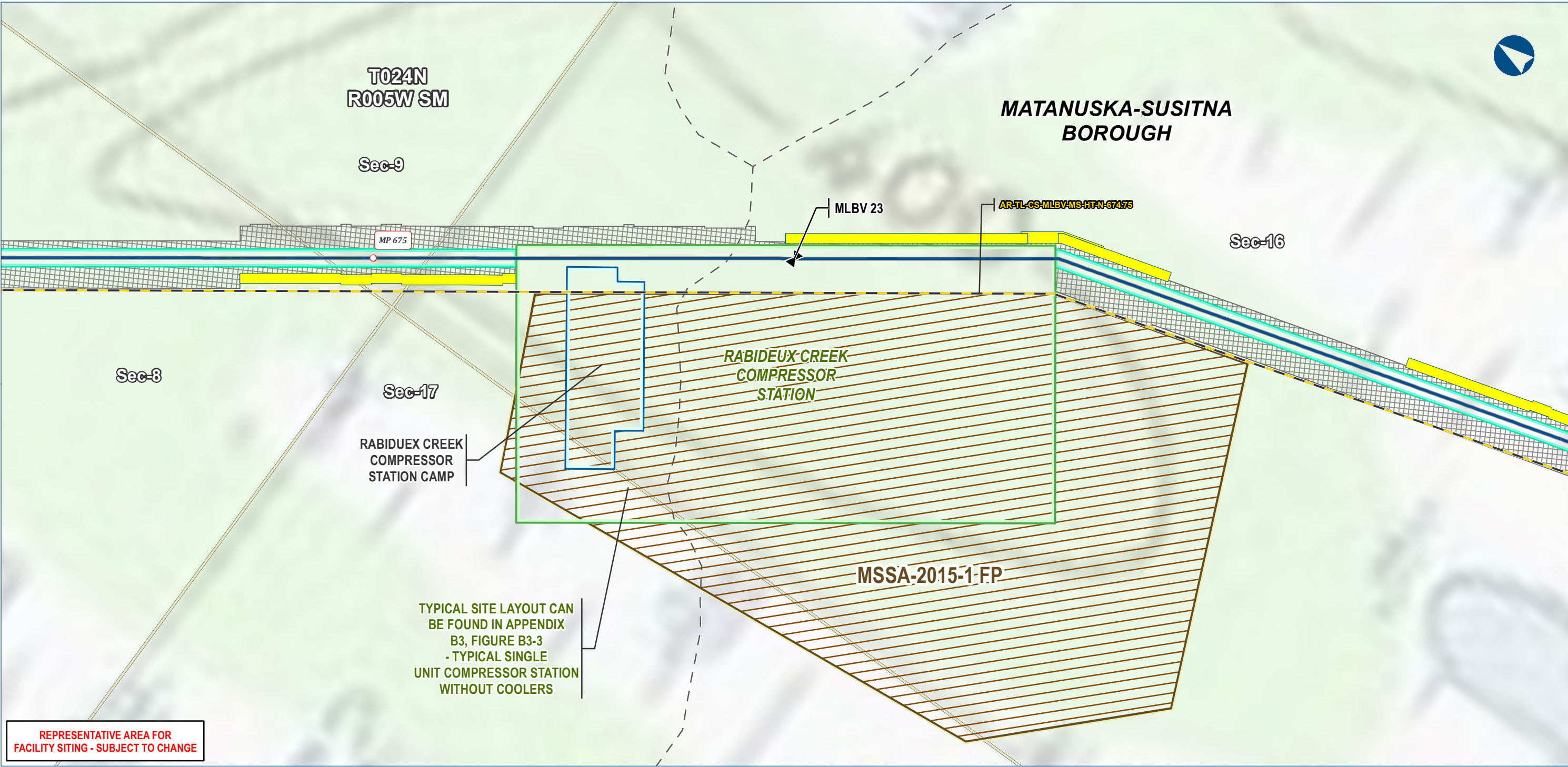


- Legend
- PIPELINE**
- Alaska LNG Rev C2 Route
 - Access Road - Gravel
 - Mainline Blockvalve
 - Permanent ROW
 - Construction ROW
 - ATWS
- EXISTING FEATURES**
- Existing Roads
 - Existing Pipeline
 - Overhead Powerline
 - Section
 - Township
- Compressor Station**
- Camp

ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY:
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
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DATE:	2017-03-09	PROJECTION:
NAD83 NSRS2007 ALASKAZONE4 FTUS 54392		

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Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Material Site Study Area (MSSA)

EXISTING FEATURES

- Existing Roads
- Off Road Trails
- Section
- Township

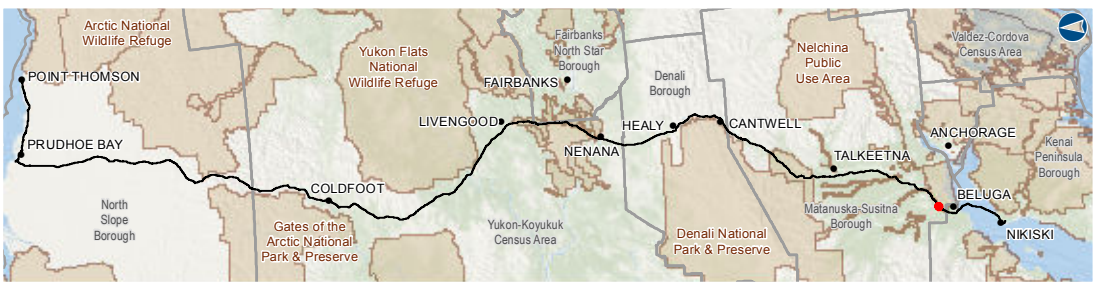
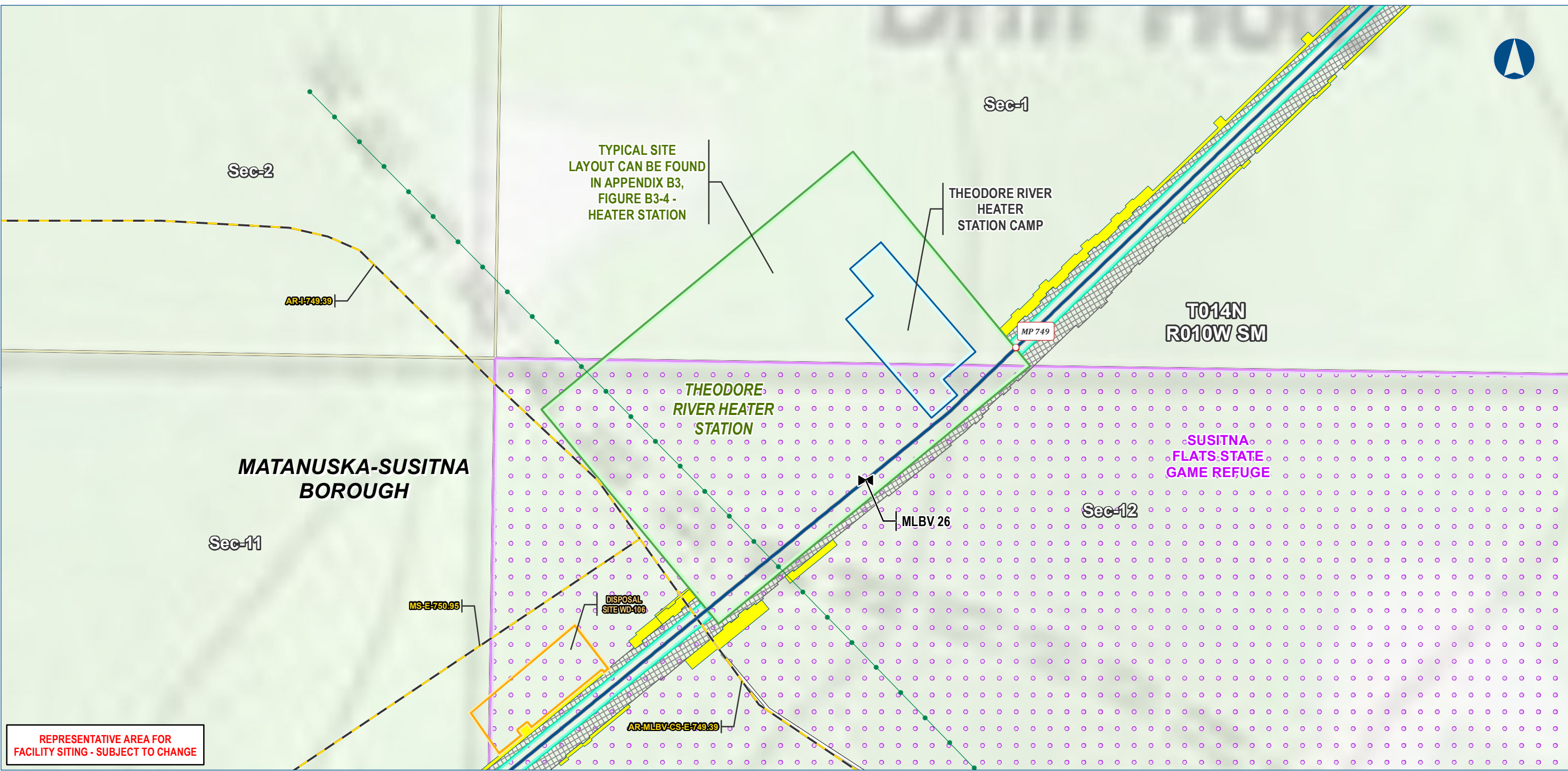
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Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-11



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Disposal Site

EXISTING FEATURES

- Existing Roads
- Existing Pipeline
- Conservation Lands
- Section
- Township

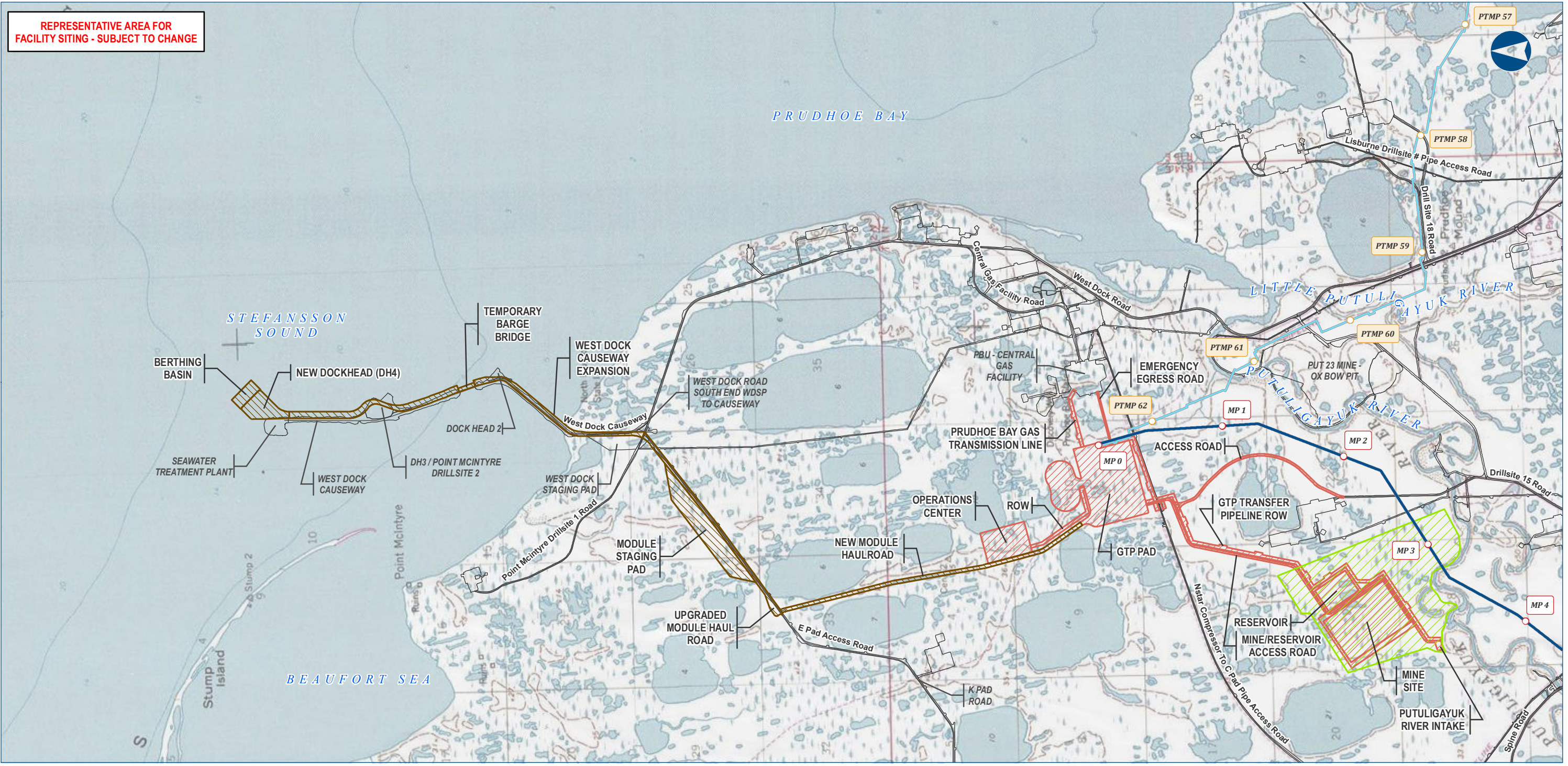
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B1_CS_TOPO_REV_C2_CL

SHEET: B1-12



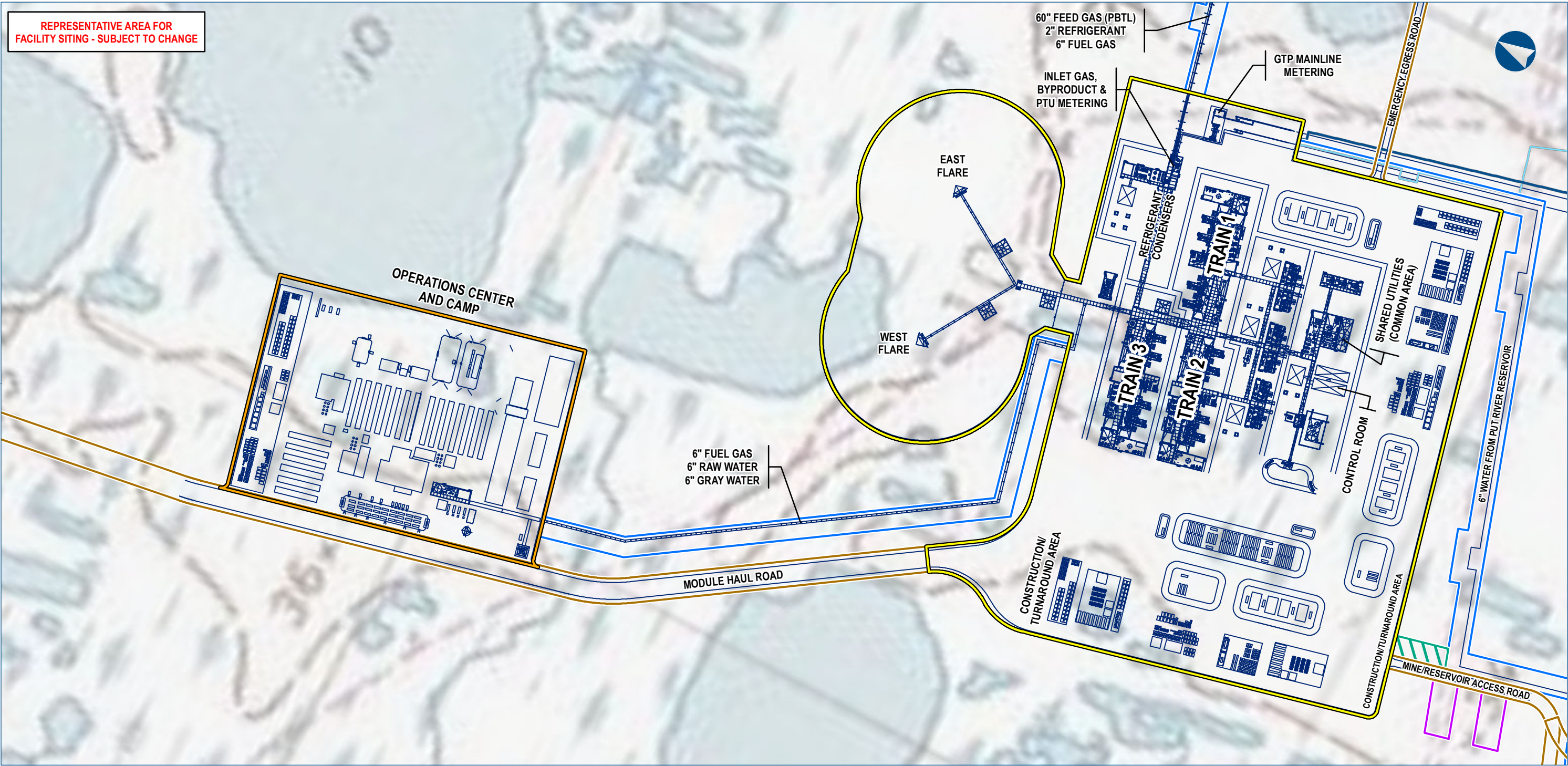
- Legend
- Alaska LNG Rev C2 Route
 - Point Thomson Transmission Line
 - GTP Footprint - Permanent
 - GTP Footprint - Construction
 - GTP Mine/Reservoir Study Area
 - Existing Roads
 - Existing Infrastructure

ALASKA LNG PROJECT		
Proposed Aboveground Facility - GTP Facility		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-29
PRELIMINARY		
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DATE: 2017-03-29	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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DWG: RR1_APPENDIX_B1_GTP_OV_TOPO_REV_C2_CL SHEET: B1-13



Alaska LNG Project

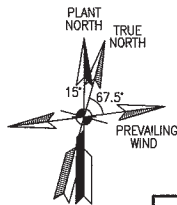
- Legend
- Alaska LNG Rev C2 Route
 - Point Thomson Transmission Line
 - GTP Generalized Plot Plan Features
 - GTP Pad Footprint
 - GTP Operations Center Footprint
 - GTP Pipeline ROW
 - GTP Access Road Footprint
 - GTP Ice Pad
 - GTP Ice Road

ALASKA LNG PROJECT		
Proposed Aboveground Facility - GTP Plot Plan		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-29
PRELIMINARY		
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DATE: 2017-03-29	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

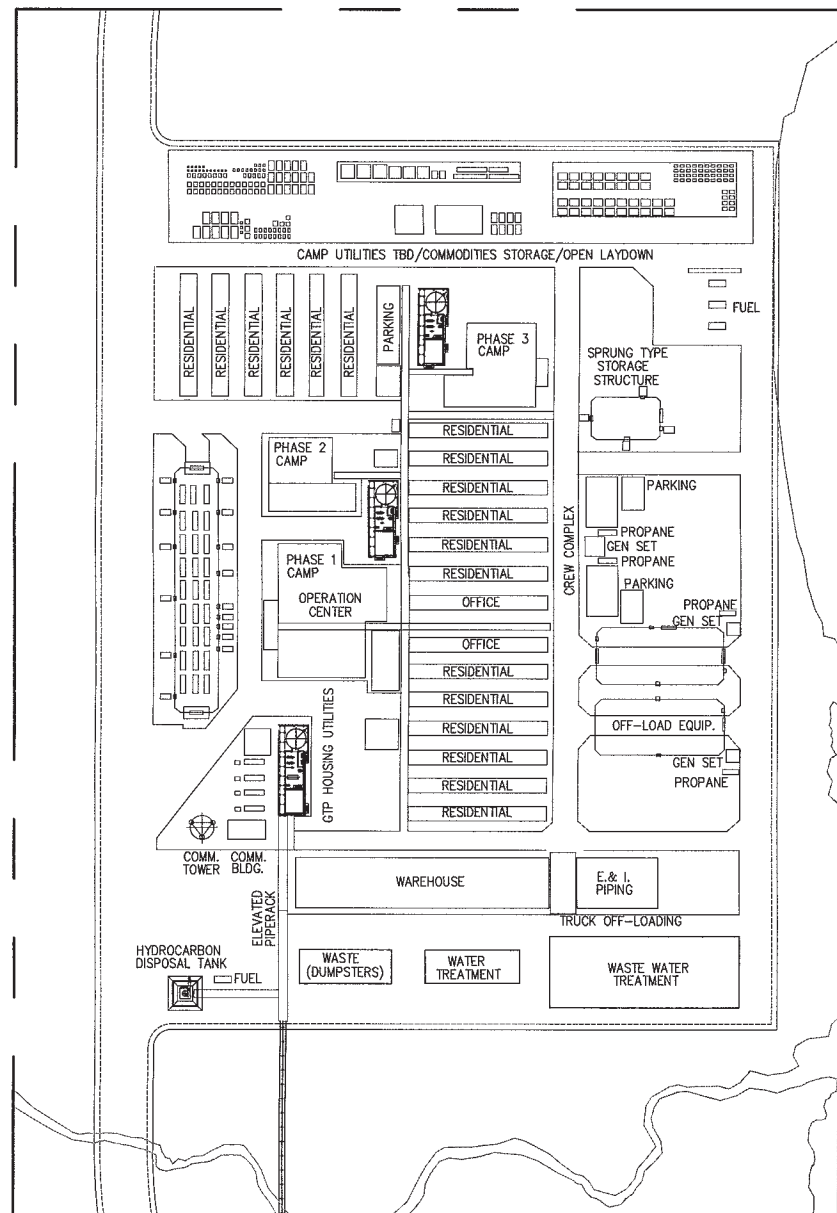
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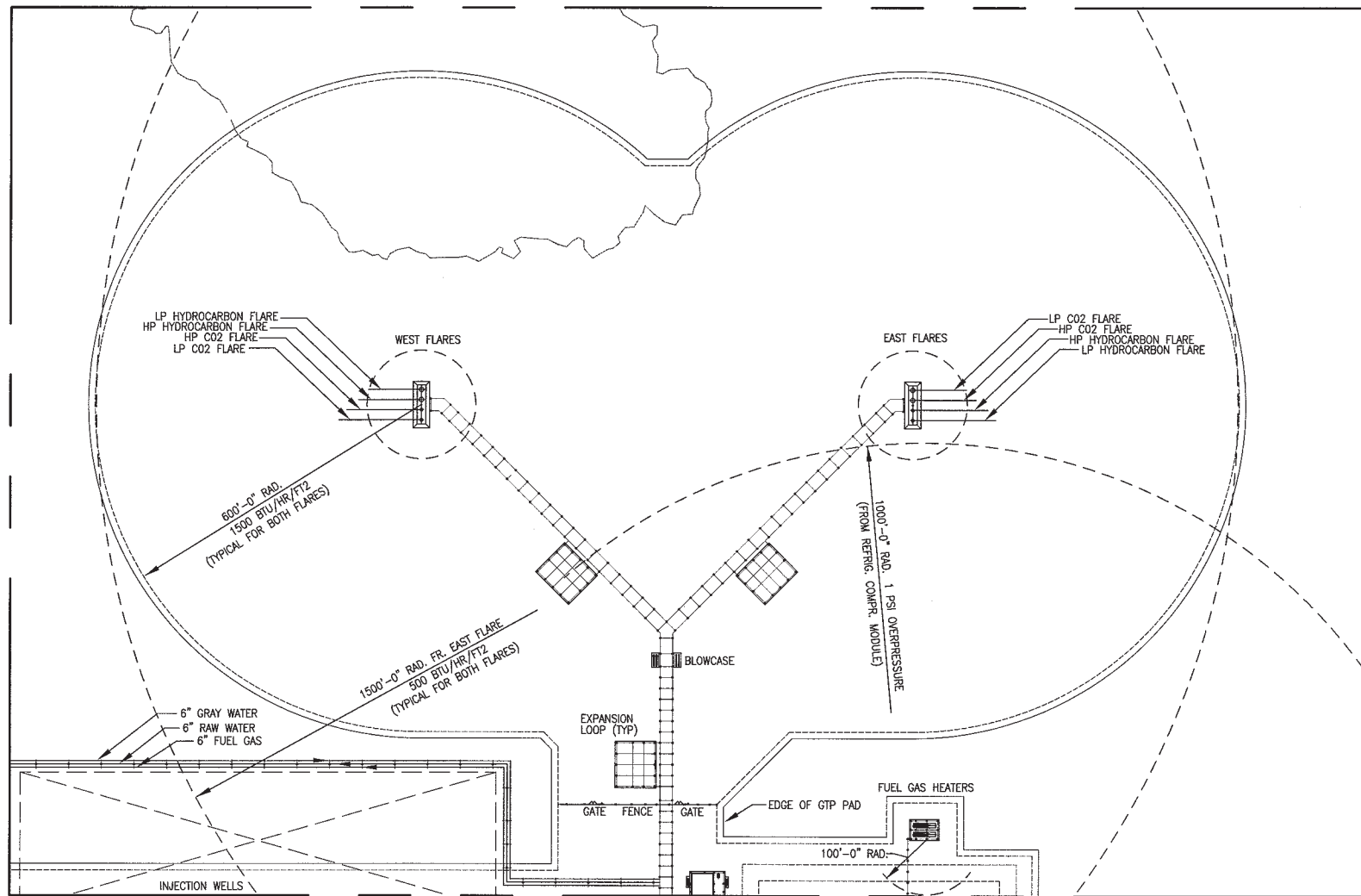
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DWG LIMITS NO MATCH DWG.

OPERATIONS CENTER
(NOT TO SCALE)

DWG LIMITS NO MATCH DWG.



FOR CONT. SEE DWG. USAG-EC-LDLAY-00-001005-001

FLARE

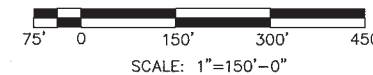


FIGURE B1-15

Alaska LNG™

URS ENERGY & CONSTRUCTION Inc. - an AECOM Company
6901 S. Havana St.
Englewood, CO 80112
(303) 843-2000

GAS TREATMENT PLANT
PLOT PLAN
FLARE & OPS CENTER

DWG. NO. USAG-EC-LDLAY-00-001005-002 REV 0

REVISION APPROVAL RECORD						REV 0	REV NO	DATE	REVISIONS		BY	CHKR	ENDORSED BY	DRAWING STATUS				
DISCIPLINE	BY	DATE	DISCIPLINE	BY	DATE	A	03/03/2016	ISSUED FOR REVIEW			MJ	CAH		ISSUED	REV	DATE	SDE	PEM
ARCH.			MECHANICAL			0	4/13/16	ISSUED FOR USE						PRELIMINARY	0	4/13/16	MJ	PEM
CIVIL			NUCLEAR															
ELECTRICAL			PIPING															
ENVIRON.			PROCESS															
GEN. ARRANG.			QA / QC															
HVAC			STRUCTURAL															
I & C																		
														NOT APPROVED FOR CONSTRUCTION UNLESS SIGNED AND DATED. DESTROY ALL PRINTS BEARING EARLIER DATE AND/OR REV.NO.				

PROJECT NO.: 31409	
DRAWN: MJ	DATE: 02/02/2016
CHECKED: CAH	DATE: 02/17/2016
CONFIDENTIAL PRE-FEED PHASE	
SCALE: 1"=150'-0"	

Alaska LNG Project

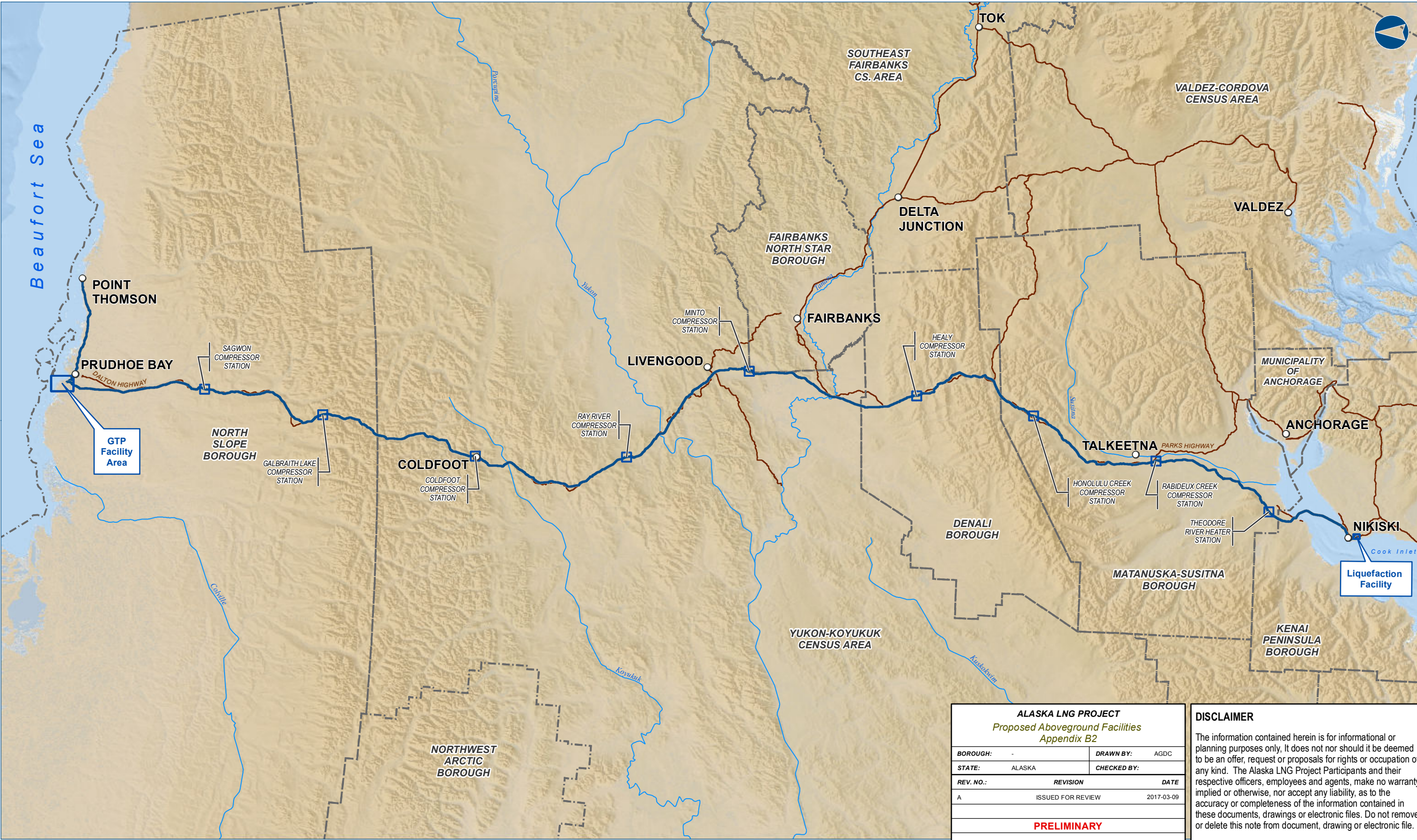
Proposed Aboveground Facility Sites

Resource Report 1, Appendix B2 Aerial Mapping



ALASKA LNG PROJECT		
Proposed Aboveground Facility Sites Appendix B2		
BOROUGH: -	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD 1983 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004	

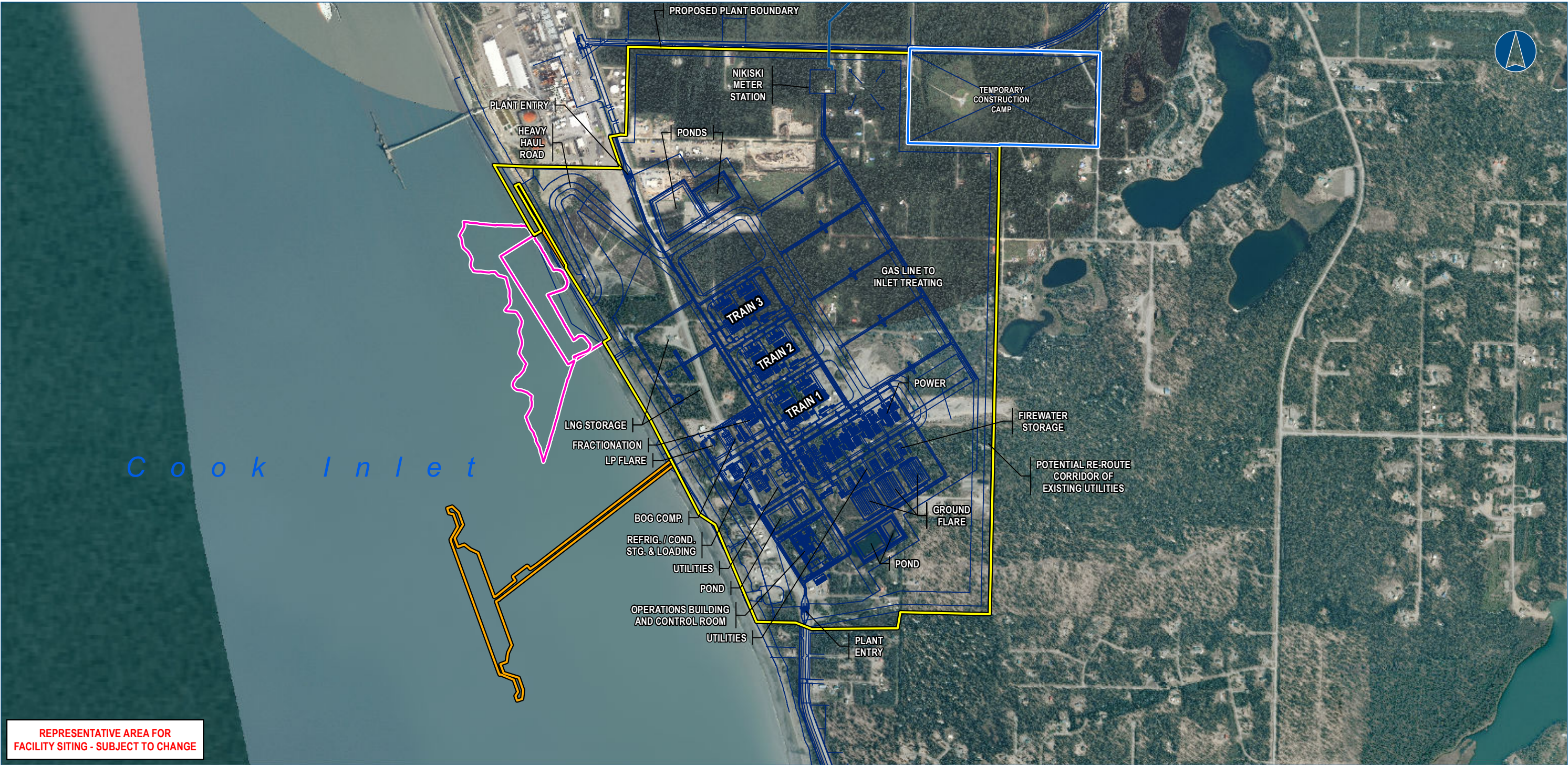
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DWG: RR1_APPENDIX_B2_AERIAL_REV_C2_CL_COVER SHEET: COVER PAGE



ALASKA LNG PROJECT		
Proposed Aboveground Facilities		
Appendix B2		
BOROUGH:	-	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004	

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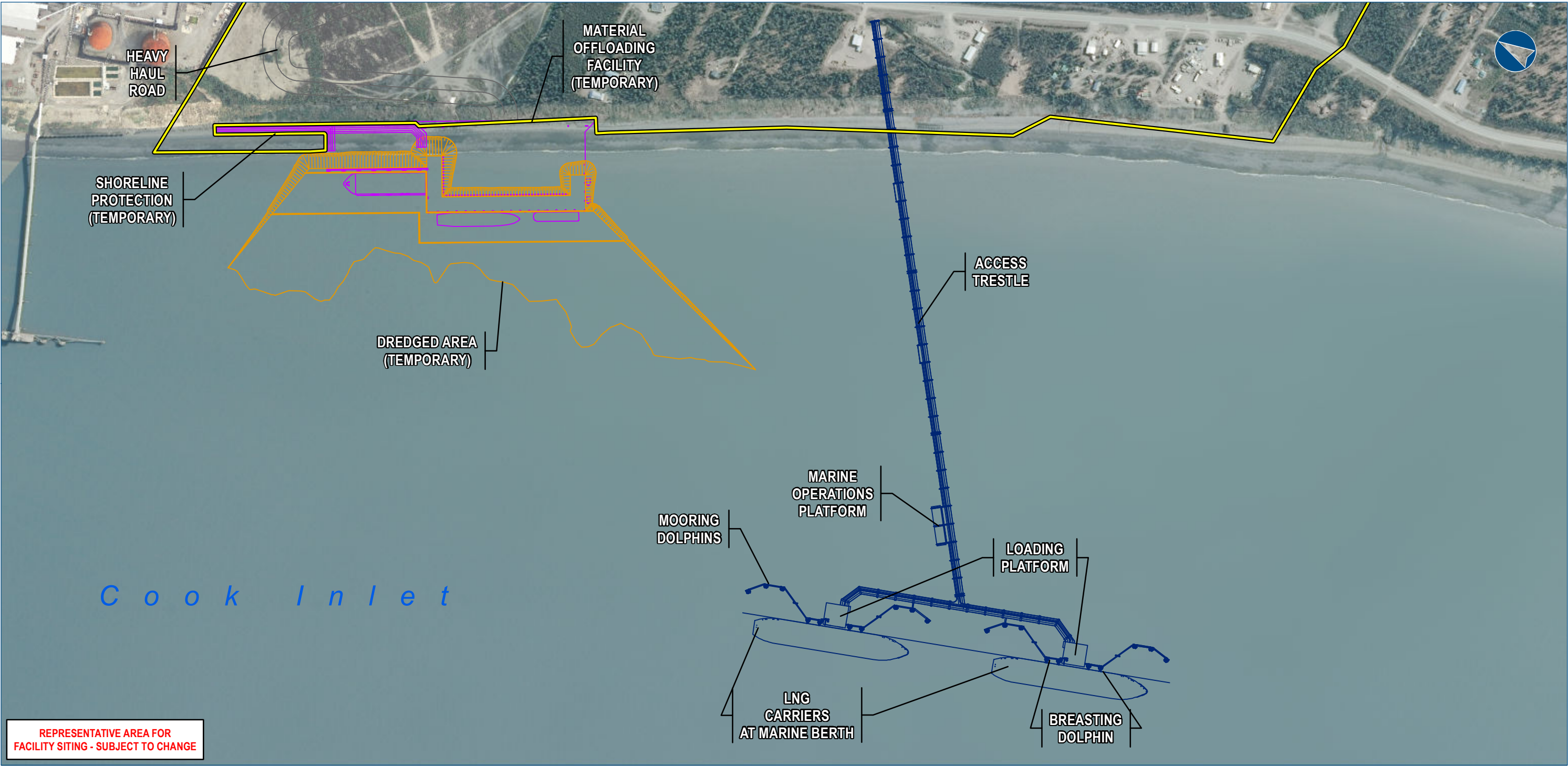
Alaska LNG Project

- Legend
- Alaska LNG Rev C2 Route
 - LNG Plant Generalized Plot Plan Features
 - ▭ LNG Plant Operations Area
 - ▭ LNG Plant Construction Camp
 - ▭ Marine Terminal Footprint Operations Area
 - ▭ Temporary MOF and MOF Dredging Area

ALASKA LNG PROJECT		
Proposed Aboveground Facility - Liquefaction Facility		
BOROUGH:	KENAI PENINSULA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
1:17,000 0 1,000 2,000 Feet		
DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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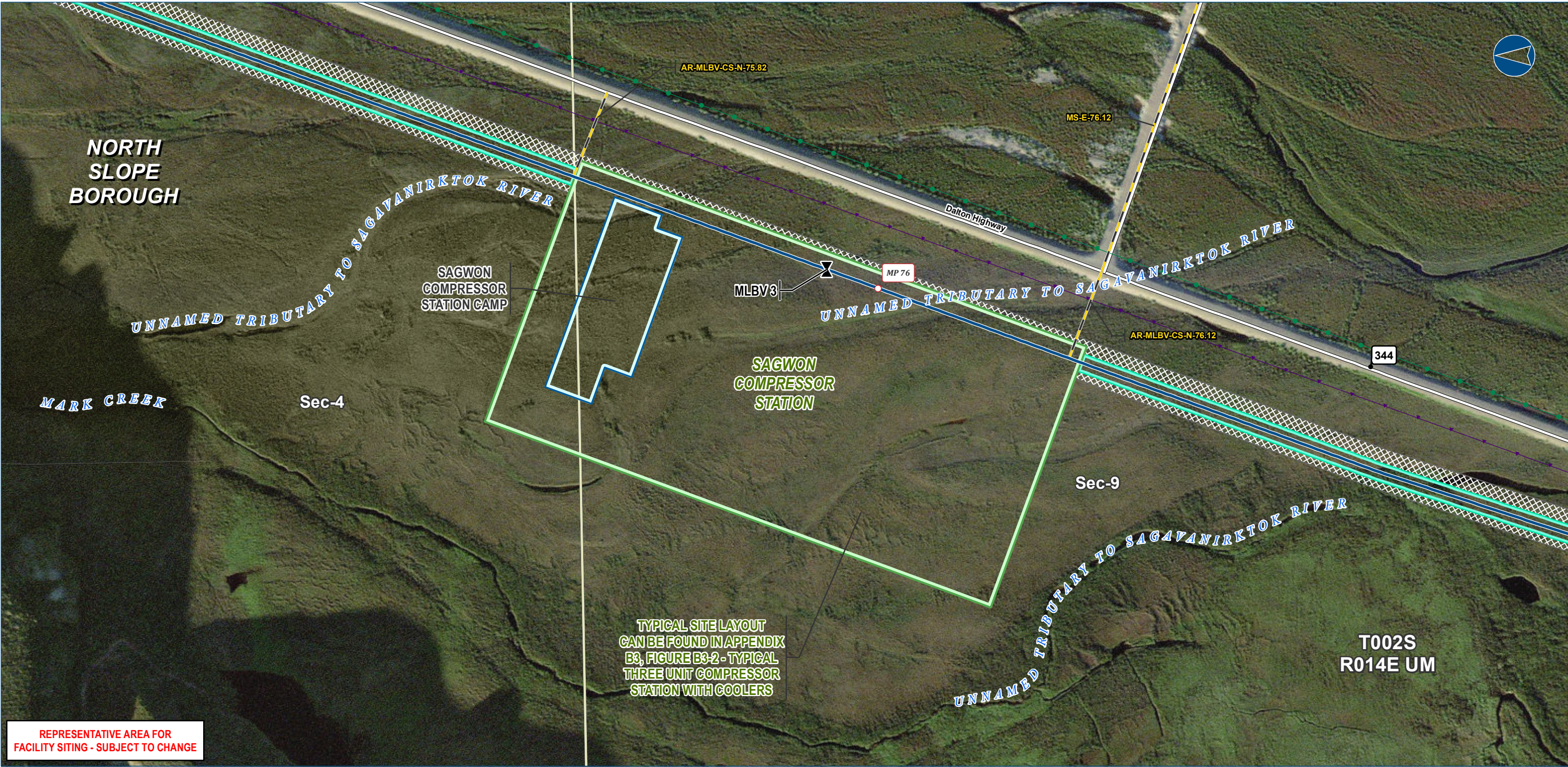
Alaska LNG Project

- Legend
- LNG Plant Operations Area
 - Material Offloading Facility
 - Material Offloading Facility Dredging Area
 - Product Loading Facility

ALASKA LNG PROJECT		
Proposed Facility - Marine Terminal		
BOROUGH:	KENAI PENINSULA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW

Legend

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Existing Pipeline
- Buried Cable
- Section
- Township

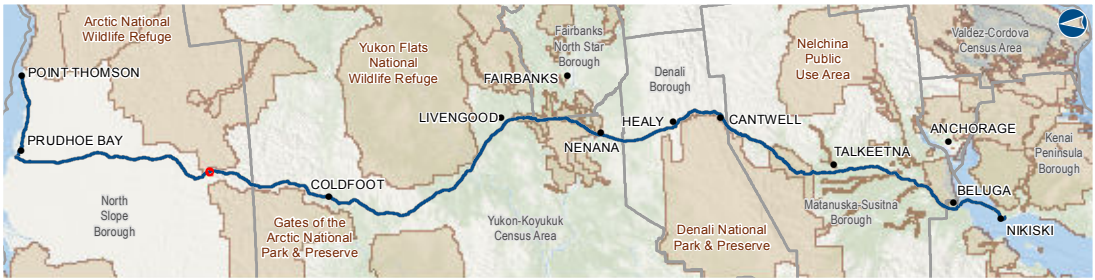
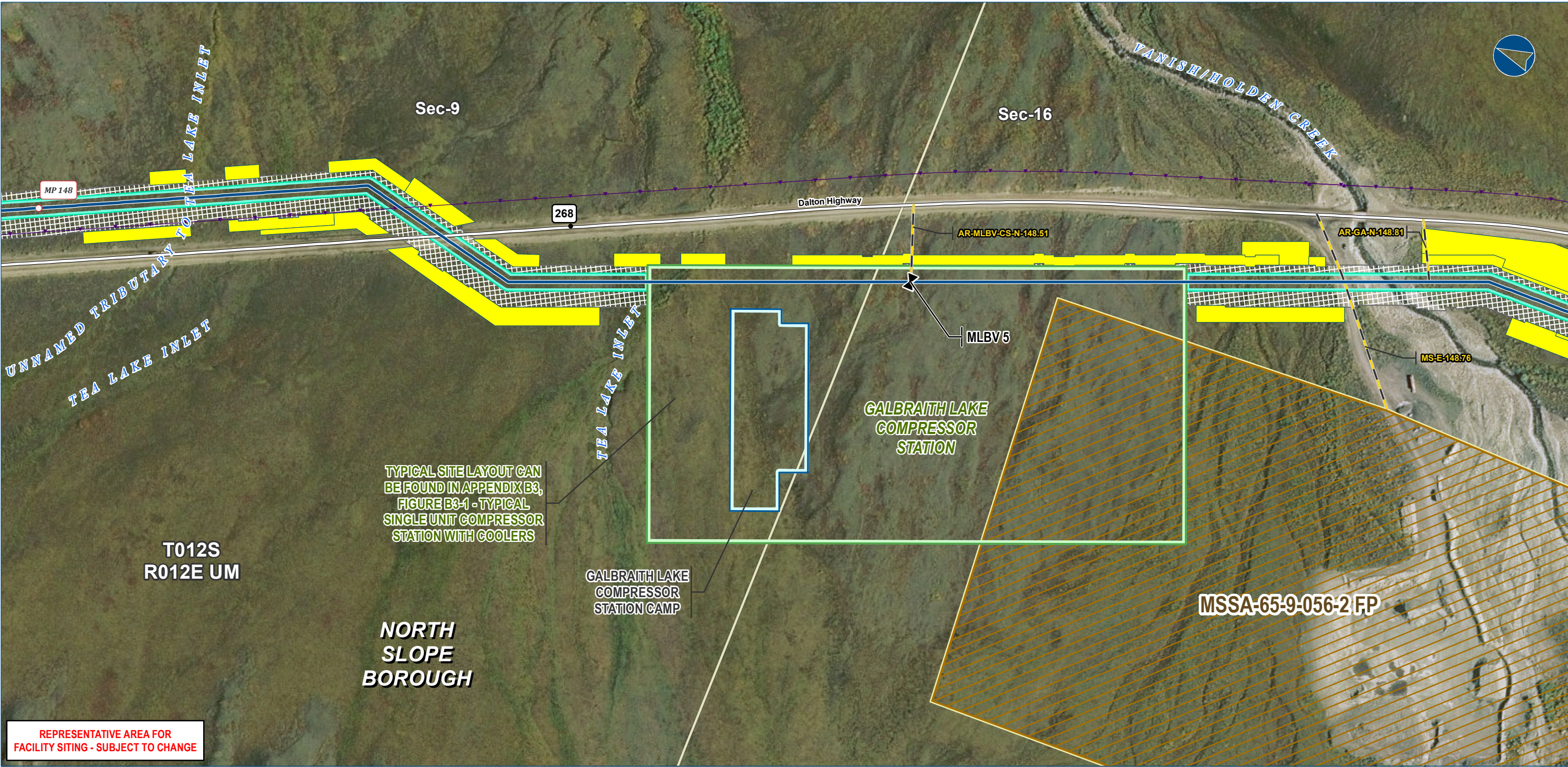
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL

SHEET: B2-4



Alaska LNG Project

Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

EXISTING FEATURES

- Existing Roads
- Buried Cable
- Section
- Township

Compressor Station

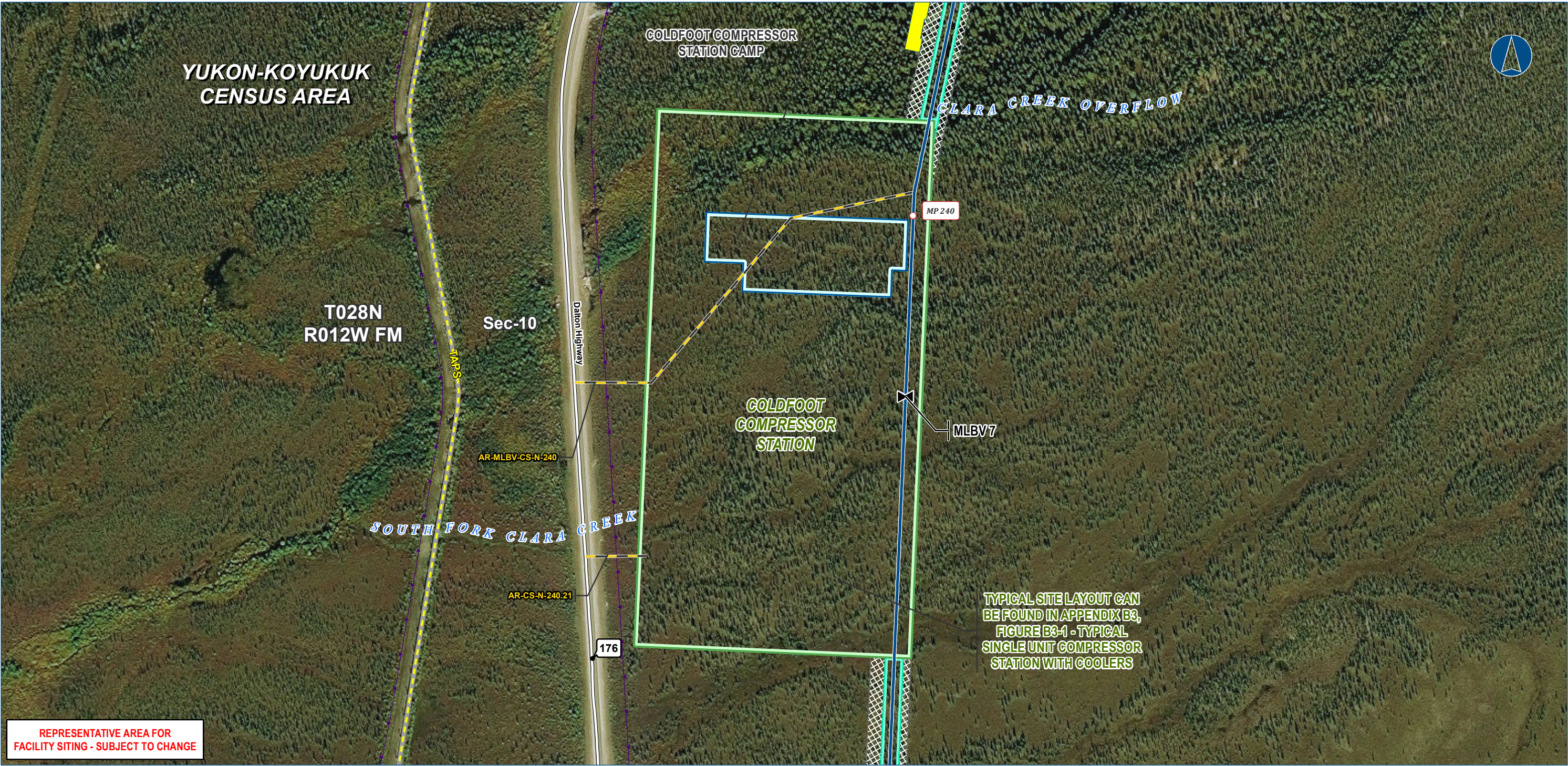
- Camp
- Material Site Study Area (MSSA)

ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL SHEET: B2-5



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- TAPS
- Buried Cable
- Section
- Township

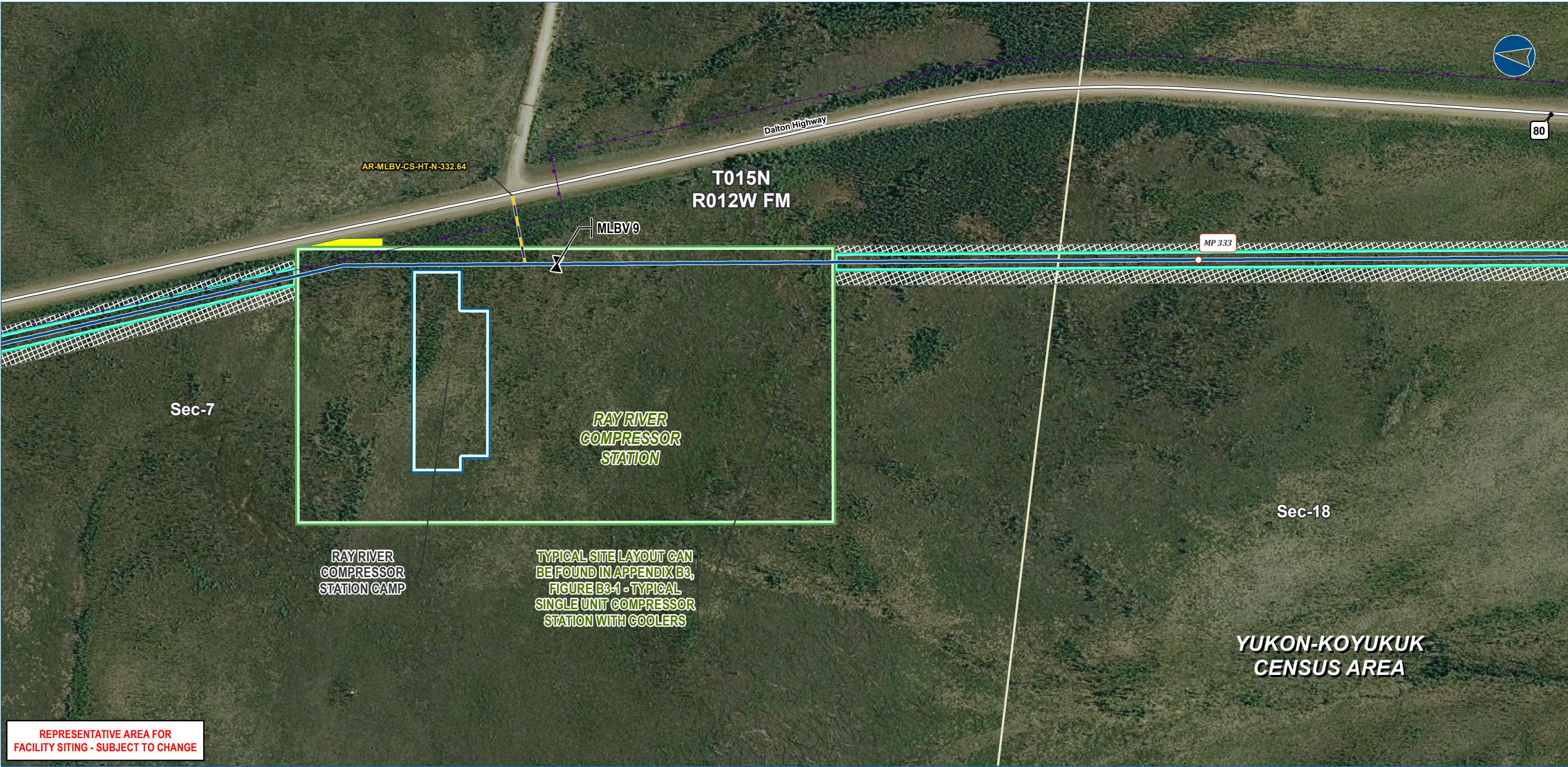
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
CENSUS AREA: YUKON-KOYUKUK	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL

SHEET: B2-6



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Buried Cable
- Section
- Township

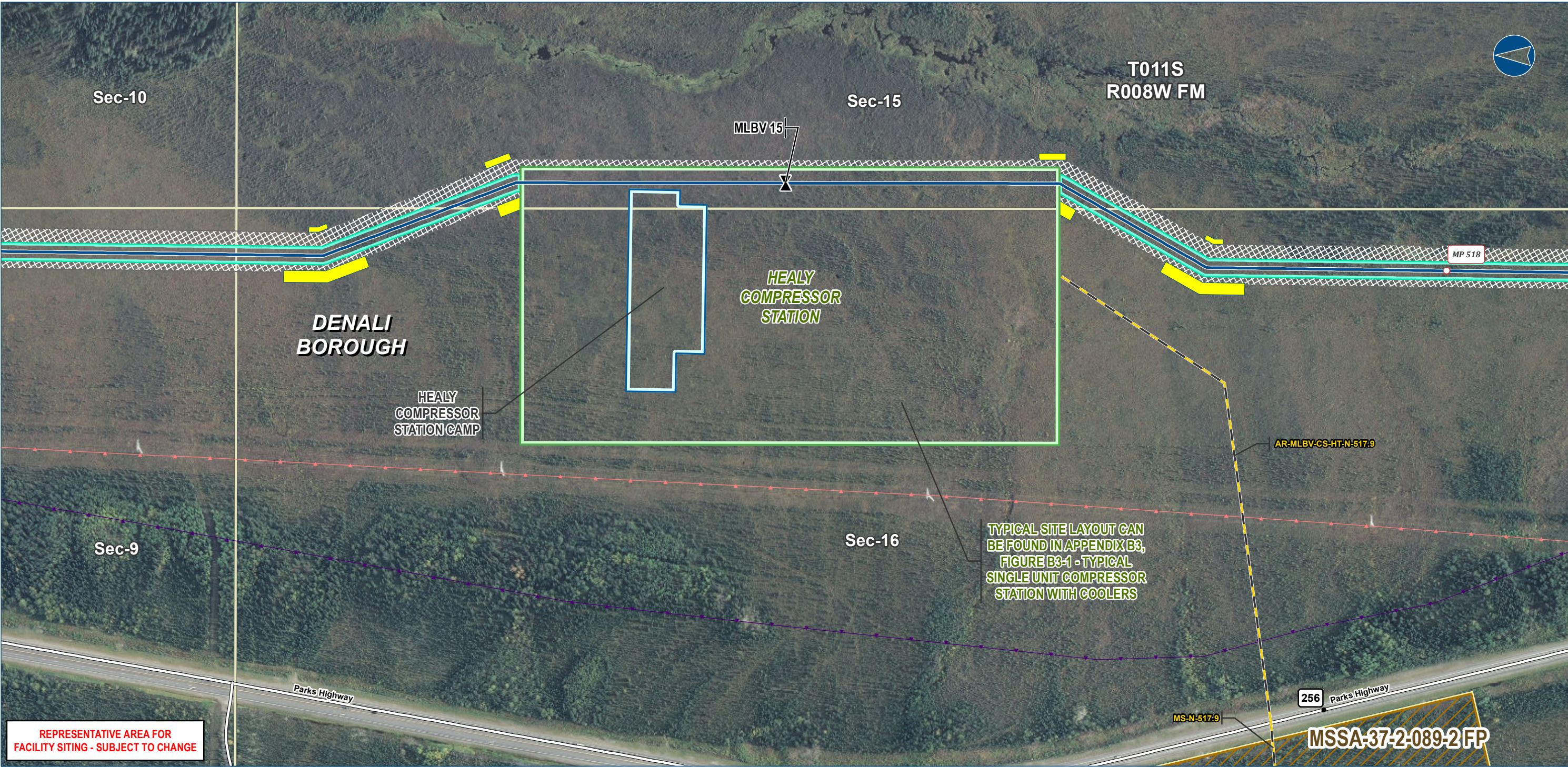
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
CENSUS AREA: YUKON-KOYUKUK	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL

SHEET: B2-7



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Material Site Study Area (MSSA)

EXISTING FEATURES

- Existing Roads
- Buried Cable
- Overhead Powerline
- Section
- Township

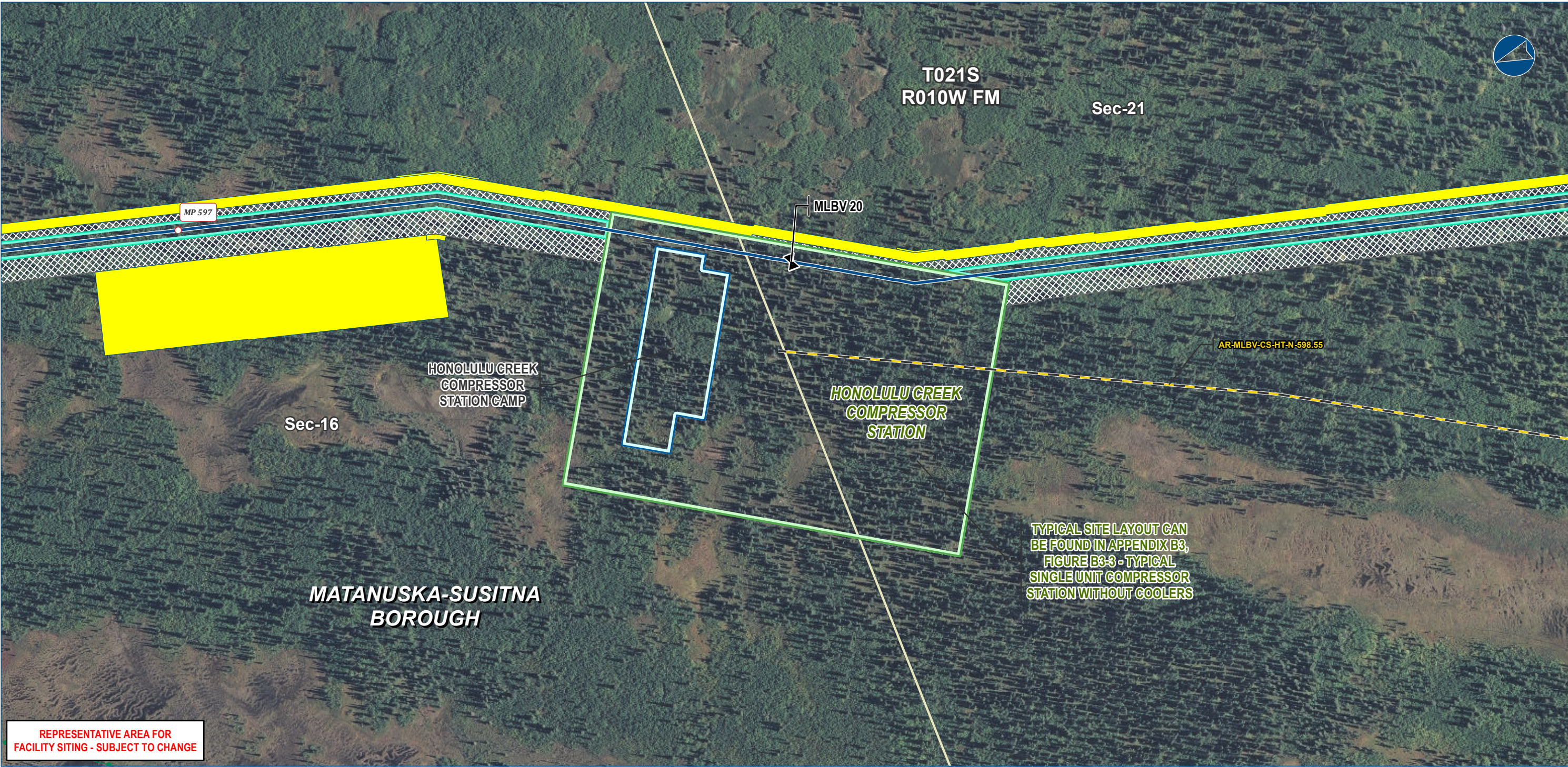
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	DENALI	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL

SHEET: B2-9



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp

EXISTING FEATURES

- Existing Roads
- Existing Pipeline
- Overhead Powerline
- Section
- Township

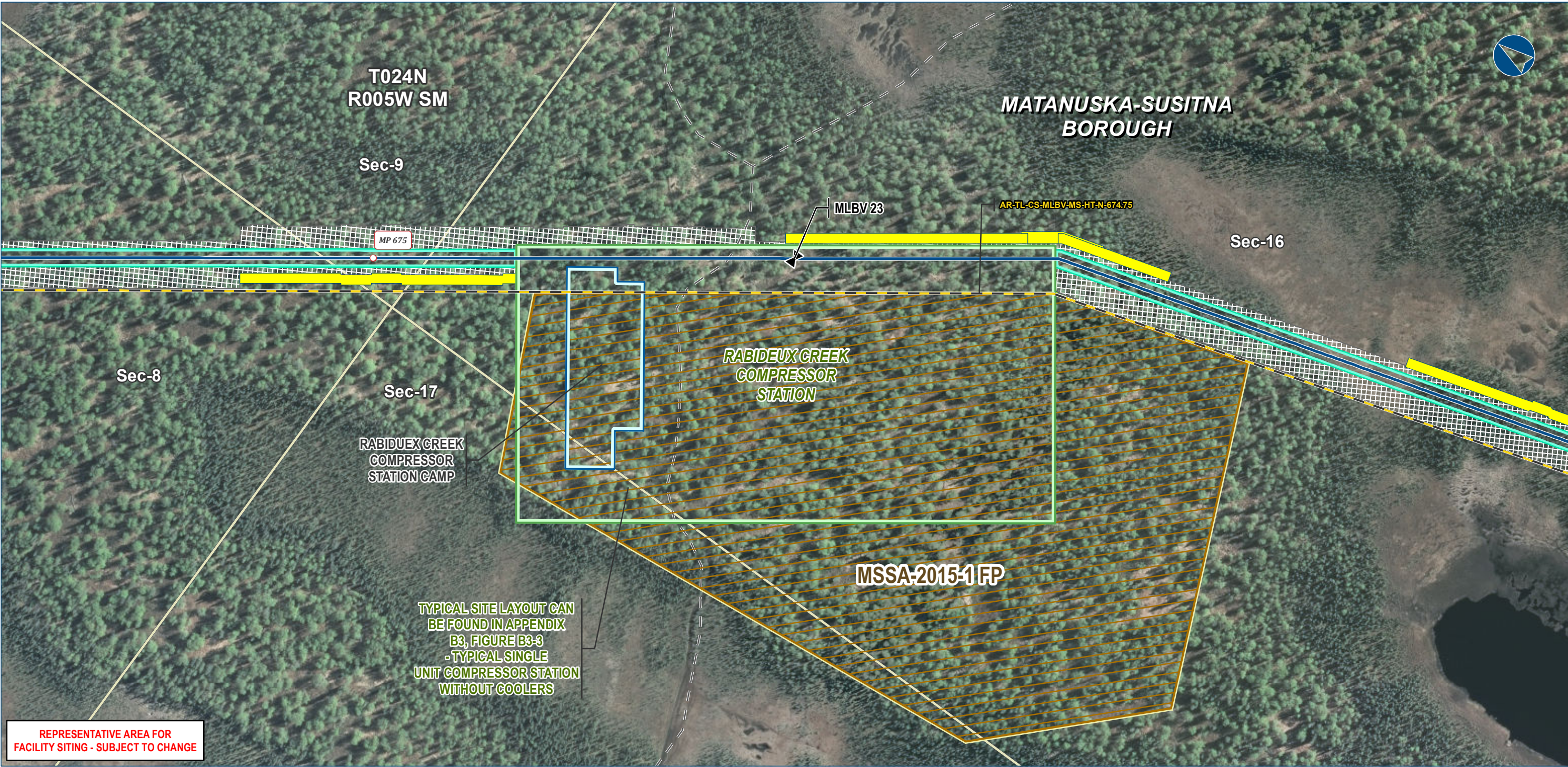
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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SHEET: B2-10



Alaska LNG Project

Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Material Site Study Area (MSSA)

EXISTING FEATURES

- Existing Roads
- Off Road Trails
- Section
- Township

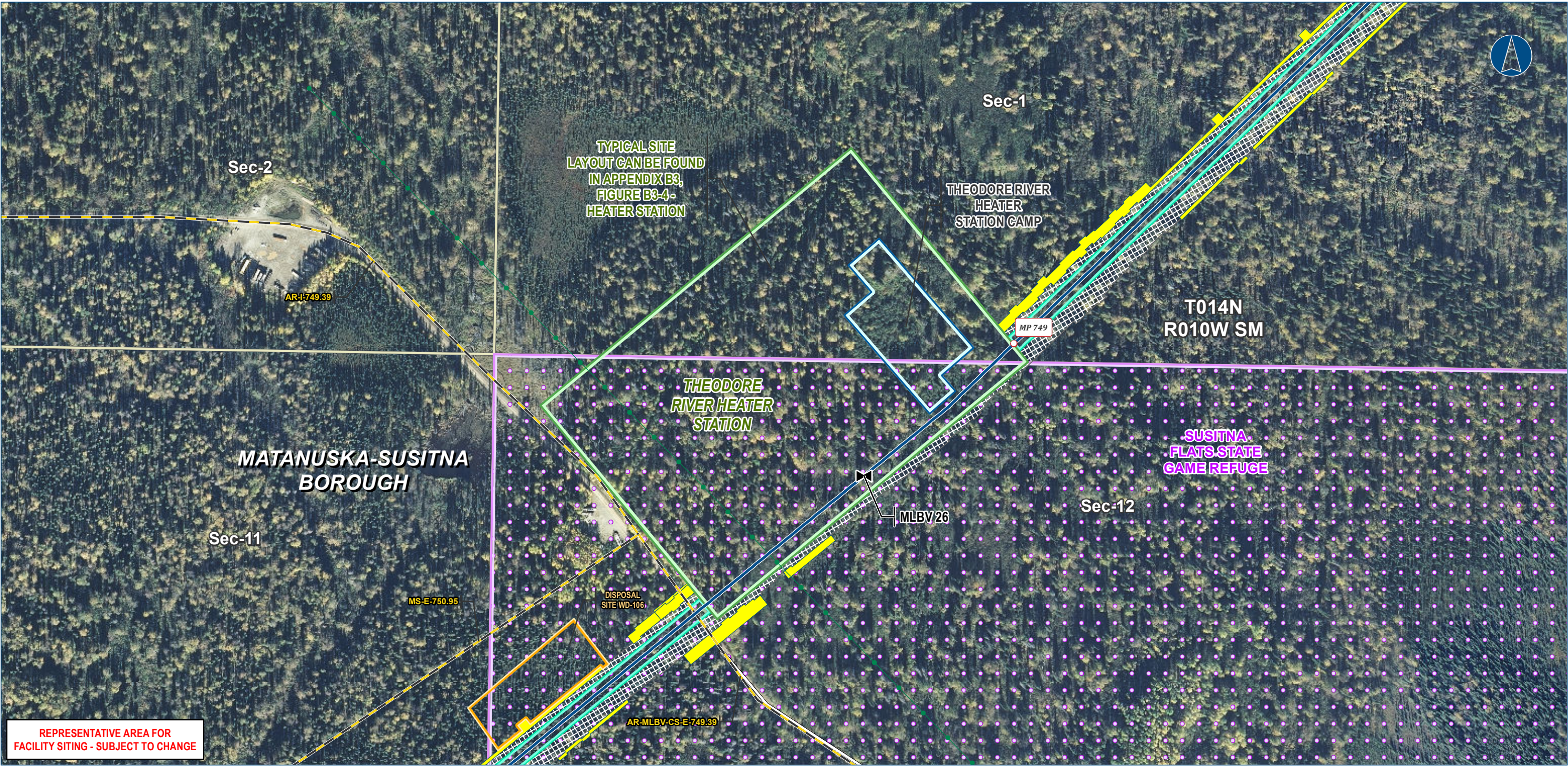
ALASKA LNG PROJECT		
Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392	

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DWG: RR1_APPENDIX_B2_CS_AERIAL_REV_C2_CL

SHEET: B2-11



Legend

PIPELINE

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve
- Permanent ROW
- Construction ROW
- ATWS

- Compressor Station
- Camp
- Disposal Site

EXISTING FEATURES

- Existing Roads
- Existing Pipeline
- Conservation Lands
- Section
- Township

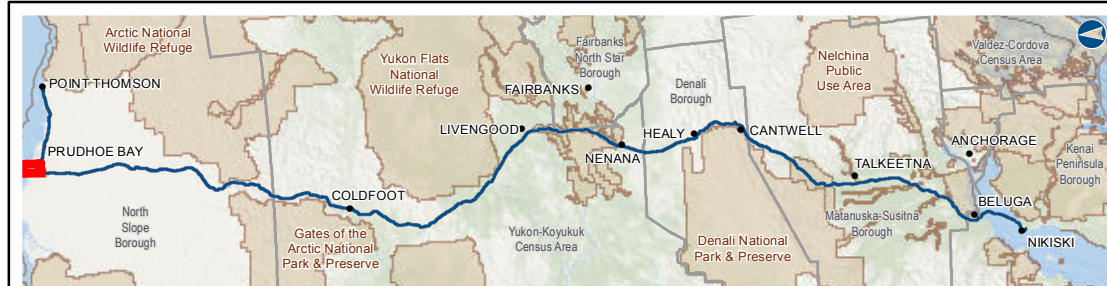
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Proposed Aboveground Facility - Compressor Stations		
BOROUGH:	MATANUSKA-SUSITNA	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
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DATE: 2017-03-09	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

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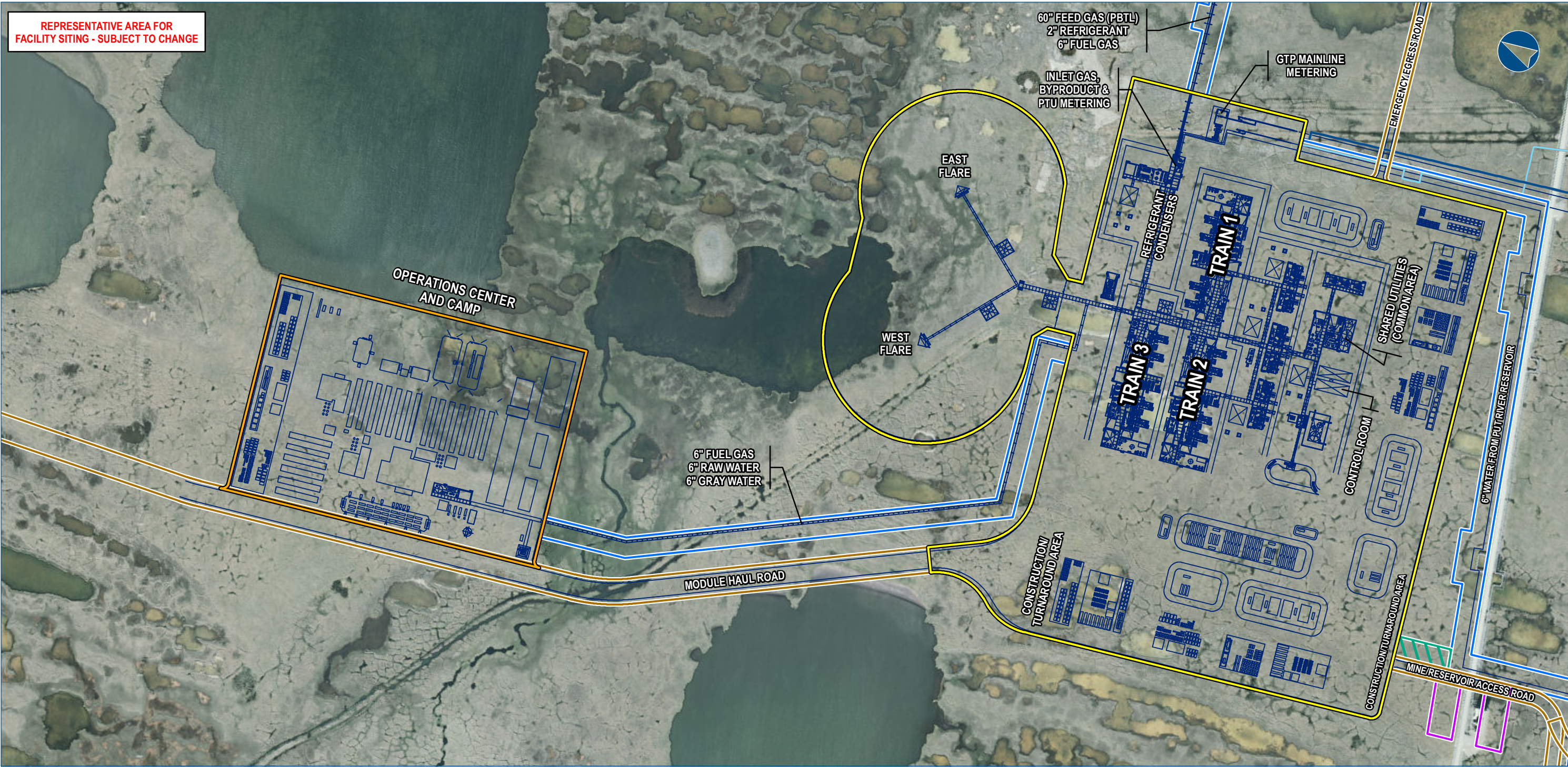
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SHEET: B2-12



Alaska LNG Project

\\AKLNG\Resource Reports\IRR01\Appendix B\GTP\IRR1_APPENDIX_B2_GTP_OV_AERIAL_REV_C2_CL.mxd



Alaska LNG Project

- Legend
- Alaska LNG Rev C2 Route
 - Point Thomson Transmission Line
 - GTP Generalized Plot Plan Features
 - GTP Pad Footprint
 - GTP Operations Center Footprint
 - GTP Pipeline ROW
 - GTP Access Road Footprint
 - GTP Ice Pad
 - GTP Ice Road

ALASKA LNG PROJECT		
Proposed Aboveground Facility - GTP Plot Plan		
BOROUGH:	NORTH SLOPE	DRAWN BY: AGDC
STATE:	ALASKA	CHECKED BY:
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-29
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DATE: 2017-03-29	PROJECTION:	NAD83 NSRS2007 ALASKAZONE4 FTUS 54392

DISCLAIMER

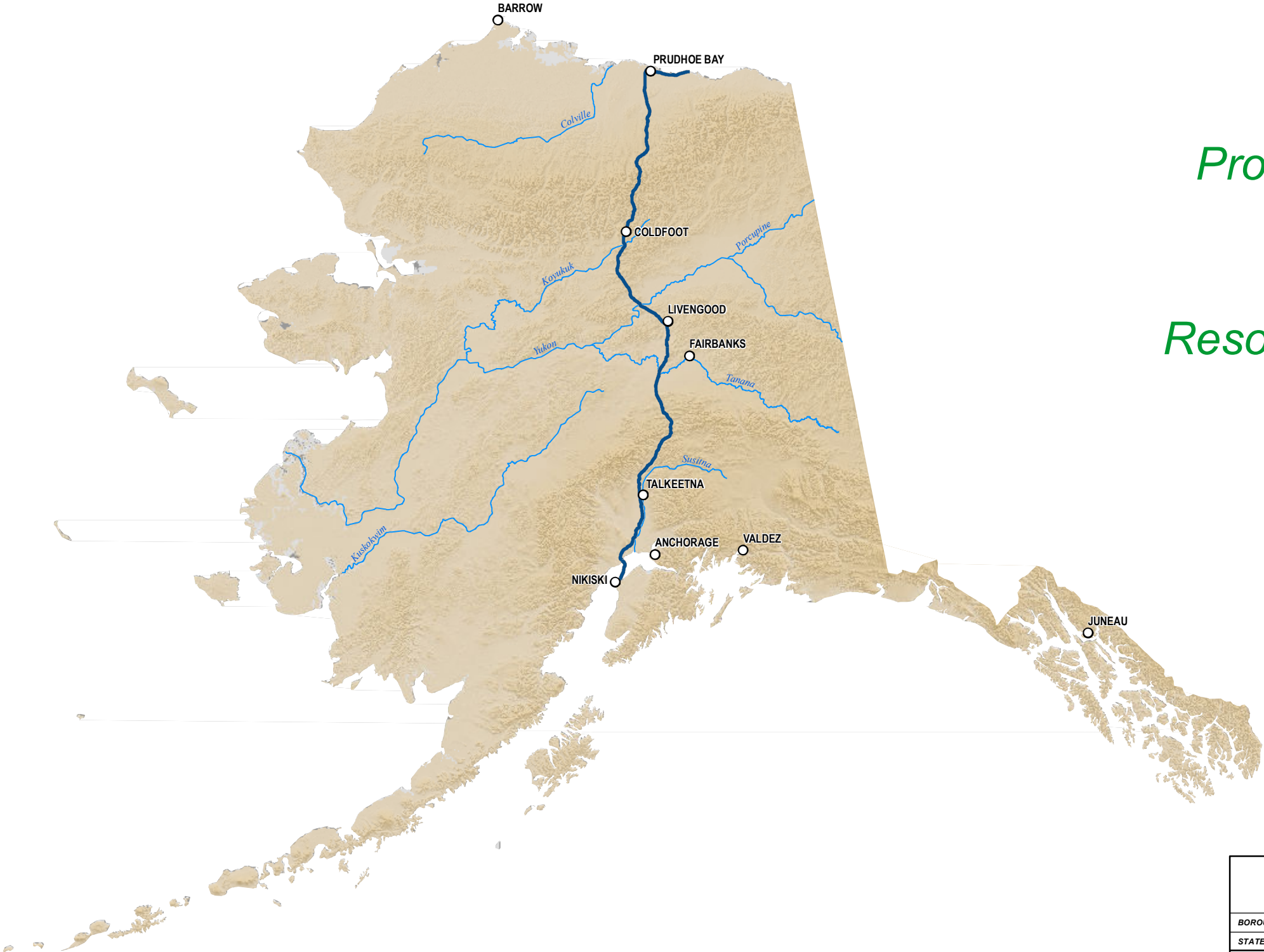
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Alaska LNG Project

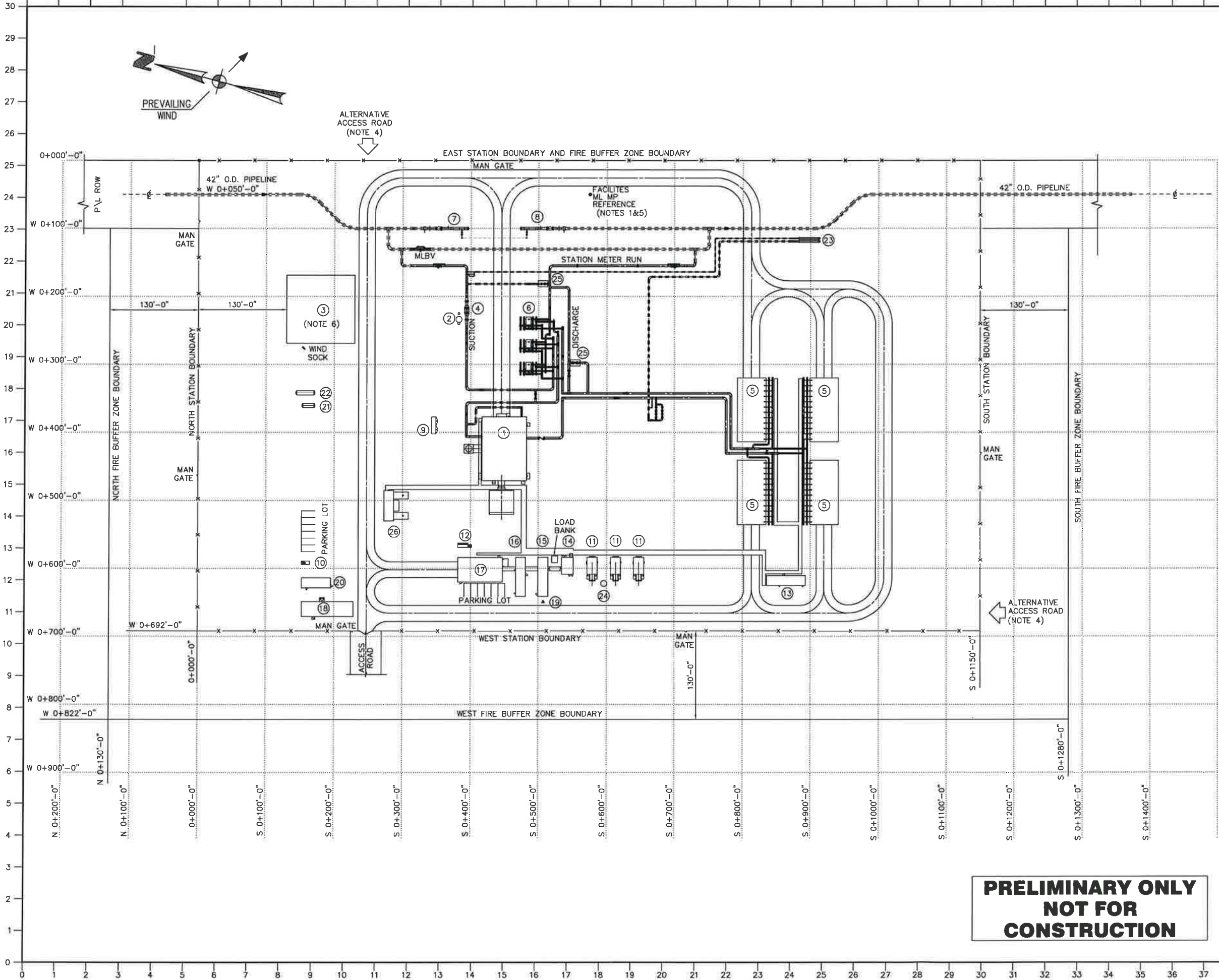
Proposed Aboveground Facility Typical Layout Drawings

Resource Report 1, Appendix B3



ALASKA LNG PROJECT		
Typical Layout Drawings Appendix B3		
BOROUGH: -	DRAWN BY: AGDC	
STATE: ALASKA	CHECKED BY:	
REV. NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	2017-03-09
PRELIMINARY		
1:10,000,000	0 100 200 Miles	
DATE: 2017-03-09	PROJECTION: NAD 1983 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004	

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REFERENCE DRAWINGS

TYPICAL MULTI-UNIT COMPRESSOR STATION WITH COOLING – PFD
MECHANICAL EQUIPMENT LIST

USAP-WP-YDPD-00-000002-001/002
USAP-WP-MUEL-00-000001-000

NOTES:

- THE CO-ORDINATE SYSTEM APPLICABLE TO THE ALASKA LNG PROJECT IS THE ALASKA STATE PLANE CO-ORDINATE SYSTEM: NAD83 (NSRS 207) ALASKA ZONE 4 (HUS) VERTICAL DATUM (ORTHOMETRIC HEIGHT) IS NAVD83.
- ASSUME ALL BUILDINGS AND SKIDS ARE PITCHED ROOF STRUCTURE (LENGTH ORIENTATION).
- NORTH ARROW WIND DIRECTIONS AND EQUIPMENT NUMBERING SHOWN IS SPECIFIC FOR RAY RIVER COMPRESSOR STATION.
- ALTERNATIVE ACCESS ROAD IS DEPENDANT ON SPECIFIC LOCATION OF EACH SITE.
- FOR MAINLINE MILEPOST CO-ORDINATES REFER TO BASIS OF DESIGN.
- HELICOPTER PAD LOCATION DUE TO HELICOPTER LANDING REQUIREMENTS ARE TO BE CONFIRMED IN FEED.
- BUILDING SIZES ARE PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.
- FIRE BUFFER ZONE IS PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.

LEGEND:

- 1 GAS COMPRESSOR BUILDING – 94'-0" x 65'-8"
- 2 CYCLONE SEPARATOR & DRAIN TANK
- 3 HELICOPTER PAD – 100'-0" x 100'-0"
- 4 SUCTION SCRUBBER
- 5 GAS AERIAL COOLER – 4 x (112'-3" x 42'-0")
- 6 GAS-TO-GAS HEAT EXCHANGER – 3 x (14'-8" x 4'-11")
- 7 PIG RECEIVER
- 8 PIG LAUNCHER
- 9 UTILITY M&R ENCLOSURE – 25'-0" x 6'-0"
- 10 WASTE HANDLING-INCINERATOR – 12'-0" x 5'-0"
- 11 PPU GENERATOR SKID – 36'-4" x 15'-0"
- 12 BARREL DOCK
- 13 LOCAL CONTROL MODULE/COOLER MCC SKID – 57'-5" x 14'-9"
- 14 MECHANICAL SKID – 25'-0" x 17'-0"
- 15 CONTROL SKID – 57'-5" x 14'-9"
- 16 PERSONNEL SKID – 57'-5" x 14'-9"
- 17 HEATED STORAGE BUILDING – 65'-7" x 36'-0"
- 18 LIVING QUARTERS SKID/BUILDING – 76'-0" x 21'-8"
- 19 COMMUNICATON TOWER – 100'-0" TALL
- 20 POTABLE & GREY WATER BUILDING – 42'-8" x 14'-9"
- 21 AVIATION FUEL TANK – 6'-0" OD x 16'-0"
- 22 GASOLINE TANK 6'-0" OD x 25'-0"
- 23 30 DBA REDUCTION SILENCERS TBD
- 24 DRAIN TANK PPU
- 25 VALVE ENCLOSURE 14'-0" x 9'-0"
- 26 BOILER PACKAGE 45'-0" x 35'-9"

"This drawing is prepared solely for the use of the contractual customer of WorleyParsons Canada Services Ltd. and WorleyParsons Canada Services Ltd. assumes no liability to any other party for any representation contained in this drawing."

ISSUE	DATE	BY/CHKD	DESCRIPTION	REV'D/ENGR	RESP. CODE	APP'D
3	2016-08-24	[Signature]	ISSUED FOR USE			[Signature]
2	2016-05-27	[Signature]	ISSUED FOR USE			[Signature]
1A	2016-05-16	[Signature]	ISSUED FOR SQUAD CHECK			[Signature]
1	2016-01-22	[Signature]	ISSUED FOR USE			[Signature]
0A	2016-01-08	[Signature]	ISSUED FOR SQUAD CHECK			[Signature]
0	2015-04-08	[Signature]	ISSUED FOR USE			[Signature]
B	2015-02-19	[Signature]	ISSUED FOR CLIENT REVIEW			[Signature]
A	2015-02-05	[Signature]	ISSUED FOR SQUAD CHECK			[Signature]

WorleyParsons
resources & energy

Alaska LNG
TM

ALASKA LNG PROJECT
LNG FACILITIES
Nikiski, Alaska

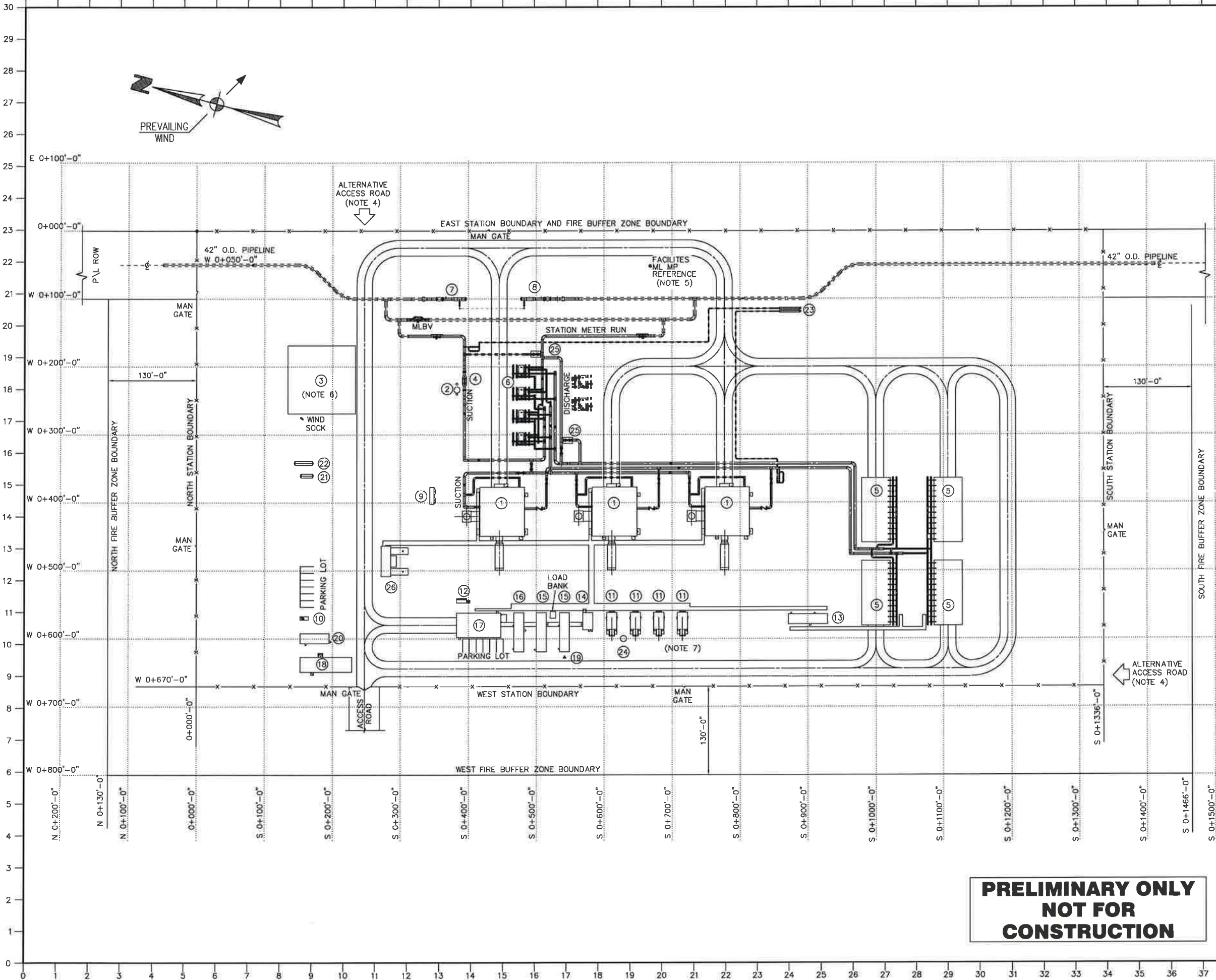
FIGURE B3-1
TYPICAL SINGLE UNIT COMPRESSOR STATION
WITH COOLERS
PLOT PLAN

DRAWN BY	DATE	SCALE	CHKD	D. MISC.
S. WALKER	2016-01-12	1"=75'-0"	APP'D	R. DZOMBAK

DRAWING NO. USAP-WP-LDZZZ-00-000001-000

ISSUE NO. 3

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REFERENCE DRAWINGS

TYPICAL MULTI-UNIT COMPRESSOR USAP-WP-YDPFD-00-000004-001/002/003
STATION WITH COOLING - PFD
MECHANICAL EQUIPMENT LIST USAP-WP-MLMEL-00-000003-000

NOTES:

1. THE CO-ORDINATE SYSTEM APPLICABLE TO THE ALASKA LNG PROJECT IS THE ALASKA STATE PLANE CO-ORDINATE SYSTEM: NAD83 (NSRS 207) ALASKA ZONE 4 (HUS) VERTICAL DATUM (ORTHOMETRIC HEIGHT) IS NAVD83.
2. ASSUME ALL BUILDINGS AND SKIDS ARE PITCHED ROOF STRUCTURE (LENGTH ORIENTATION).
3. NORTH ARROW WIND DIRECTIONS AND EQUIPMENT NUMBERING SHOWN IS SPECIFIC FOR COMPRESSOR STATION #2.
4. ALTERNATIVE ACCESS ROAD IS DEPENDANT ON SPECIFIC LOCATION OF EACH SITE.
5. FOR MAINLINE MILEPOST CO-ORDINATES REFER TO BASIS OF DESIGN.
6. HELICOPTER PAD LOCATION DUE TO HELICOPTER LANDING REQUIREMENTS ARE TO BE CONFIRMED IN FEED.
7. THOUGH ELECTRICAL LOAD LIST AND ELECTRICAL EQUIPMENT LIST FOR CS-2 HAVE NOT BEEN REVISED TO INCORPORATE APPROPRIATE LOAD GROWTH MARGIN (35%), THIS PLOT PLAN SHOWS AN ADDITIONAL PPU TO ACCOUNT FOR AN EXPECTED FUTURE REVISION OF ELECTRICAL DOCUMENTATION.

LEGEND:

- ① GAS COMPRESSOR BUILDING - 72'-2" x 65'-7"
- ② CYCLONE SEPARATOR & DRAIN TANK
- ③ HELICOPTER PAD - 100'-0" x 100'-0"
- ④ SUCTION SCRUBBER
- ⑤ GAS AERIAL COOLER - 4 x (112'-3" x 42'-0")
- ⑥ GAS-TO-GAS HEAT EXCHANGER - 4 x (26'-7" x 7'-4")
- ⑦ PIG RECEIVER
- ⑧ PIG LAUNCHER
- ⑨ UTILITY M&R ENCLOSURE - 25'-0" x 6'-0"
- ⑩ WASTE HANDLING-INCINERATOR - 12'-0" x 5'-0"
- ⑪ PPU GENERATOR SKID - 36'-4" x 15'-0"
- ⑫ BARREL DOCK
- ⑬ LOCAL CONTROL MODULE/COOLER MCC SKID - 57'-5" x 14'-9"
- ⑭ MECHANICAL SKID - 25'-0" x 17'-0"
- ⑮ CONTROL SKID - 57'-5" x 14'-9"
- ⑯ PERSONNEL SKID - 57'-5" x 14'-9"
- ⑰ HEATED STORAGE BUILDING - 65'-7" x 36'-0"
- ⑱ LIVING QUARTERS SKID/BUILDING - 76'-0" x 21'-8"
- ⑲ COMMUNICATION TOWER - 100'-0" TALL
- ⑳ POTABLE & GREY WATER BUILDING - 42'-8" x 14'-9"
- ㉑ AVIATION FUEL TANK - 6'-0" OD x 16'-0"
- ㉒ GASOLINE TANK 6'-0" OD x 25'-0"
- ㉓ 30 DBA REDUCTION SILENCERS TBD
- ㉔ DRAIN TANK PPU
- ㉕ VALVE ENCLOSURE 14'-0" x 9'-0"
- ㉖ BOILER PACKAGE 45'-0" x 39'-9"

ISSUE	DATE	BY / CHKD	DESCRIPTION	REV'D / ENGR	RESP. CODE	APP'D
2	2016-08-24	SW	ISSUED FOR USE			RD
1	2016-01-22	SW	ISSUED FOR USE			RD
0A	2016-01-08	SW	ISSUED FOR SQUAD CHECK			RD
0	2015-04-08	SW	ISSUED FOR USE			RD
B	2015-02-19	SW	ISSUED FOR CLIENT REVIEW			RD
A	2015-02-05	SW	ISSUED FOR SQUAD CHECK			RD

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ALASKA LNG PROJECT
LNG FACILITIES
Nikiski, Alaska

FIGURE B3-2
TYPICAL THREE UNIT COMPRESSOR STATION
WITH COOLERS
42" PIPELINE - PLOT PLAN

DRAWN BY S. WALKER	DATE 2015-JAN-27	SCALE 1"=75'-0"	CHKD D. MURKIN
DRAWING NO. USAP-WP-LDZZZ-00-000002-000	APP'D R. DZOMBAR	ISSUE NO. 2	

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TYPICAL SINGLE COMPRESSOR WITHOUT COOLING - PFD	USAP-WP-YDPFD-00-000003-001
MECHANICAL EQUIPMENT LIST	USAP-WP-MLMEL-00-000002-000

1. THE CO-ORDINATE SYSTEM APPLICABLE TO THE ALASKA LNG PROJECT IS THE ALASKA STATE PLANE CO-ORDINATE SYSTEM: NAD83 (NSRS 207) ALASKA ZONE 4 (NUS) VERTICAL DATUM (ORTHOMETRIC HEIGHT) IS NAVD83.
2. ASSUME ALL BUILDINGS AND SKIDS ARE PITCHED ROOF STRUCTURE (LENGTH ORIENTATION).
3. NORTH ARROW AND WIND DIRECTION ARE SPECIFIC TO HONOLULU COMPRESSOR STATION.
4. ALTERNATIVE ACCESS ROAD IS DEPENDANT ON SPECIFIC LOCATION OF EACH SITE.
5. FOR MAINLINE MILEPOST CO-ORDINATES REFER TO BASIS OF DESIGN.
6. HELICOPTER PAD LOCATION DUE TO HELICOPTER LANDING REQUIREMENTS ARE TO BE CONFIRMED IN FEED.
7. BUILDING SIZES ARE PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.
8. FIRE BUFFER ZONE IS PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.

- ① GAS COMPRESSOR BUILDING - 94'-0" x 65'-8"
- ② CYCLONE SEPARATOR & DRAIN TANK
- ③ HELICOPTER PAD - 100'-0" x 100'-0"
- ④ SUCTION SCRUBBER
- ⑤ PIG RECEIVER
- ⑥ PIG LAUNCHER
- ⑦ UTILITY M&R ENCLOSURE - 25'-0" x 6'-0"
- ⑧ WASTE HANDLING-INCINERATOR - 12'-0" x 5'-0"
- ⑨ PPU GENERATOR SKID - 36'-4" x 15'-0"
- ⑩ BARREL DOCK
- ⑪ MECHANICAL SKID - 25'-0" x 17'-0"
- ⑫ CONTROL SKID - 57'-8" x 14'-9"
- ⑬ PERSONNEL SKID - 57'-5" x 14'-9"
- ⑭ HEATED STORAGE BUILDING - 65'-7" x 36'-0"
- ⑮ LIVING QUARTERS SKID/BUILDING - 76'-0" x 21'-8"
- ⑯ COMMUNICATON TOWER - 100'-0" TALL
- ⑰ POTABLE & GREY WATER BUILDING - 42'-8" x 14'-9"
- ⑱ AVIATION FUEL TANK - 6'-0" OD x 16'-0"
- ⑲ GASOLINE TANK 6'-0" OD x 25'-0"
- ⑳ 30 DBA REDUCTION SILENCERS TBD
- ㉑ DRAIN TANK PPU
- ㉒ VALVE ENCLOSURE 14'-0" x 9'-0"
- ㉓ BOILER PACKAGE 45'-0" x 35'-9"

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3	2016-08-24	LW / DM	ISSUED FOR USE			RD
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1A	2016-05-16	SW / DM	ISSUED FOR SQUAD CHECK			RD
1	2016-01-22	SW / DM	ISSUED FOR USE			RD
0A	2016-01-08	SW / DM	ISSUED FOR SQUAD CHECK			RD
0	2015-04-08	SW / DM	ISSUED FOR USE			RD
B	2015-02-19	SW / DM	ISSUED FOR CLIENT REVIEW			RD
A	2015-02-05	SW / DM	ISSUED FOR SQUAD CHECK			RD

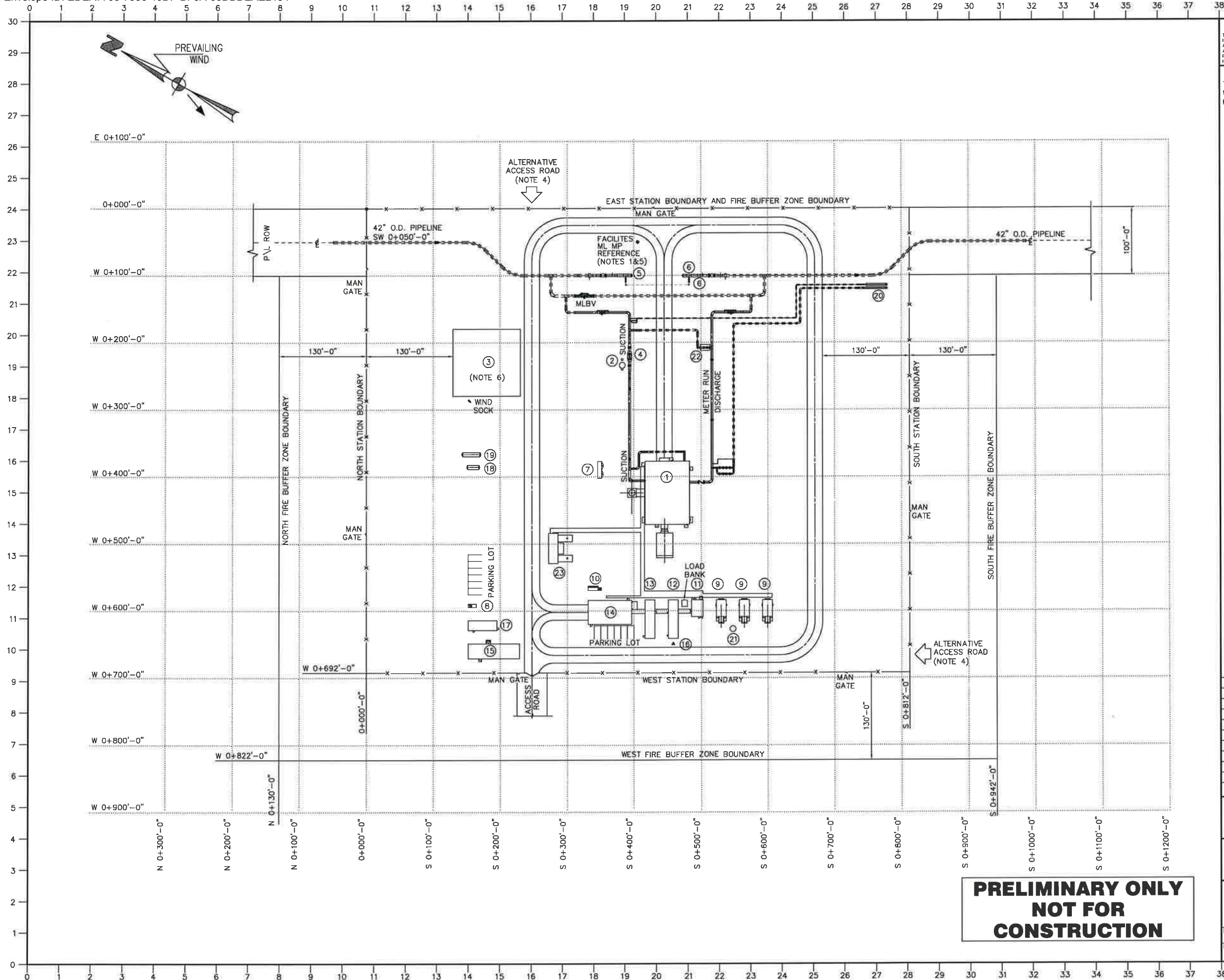
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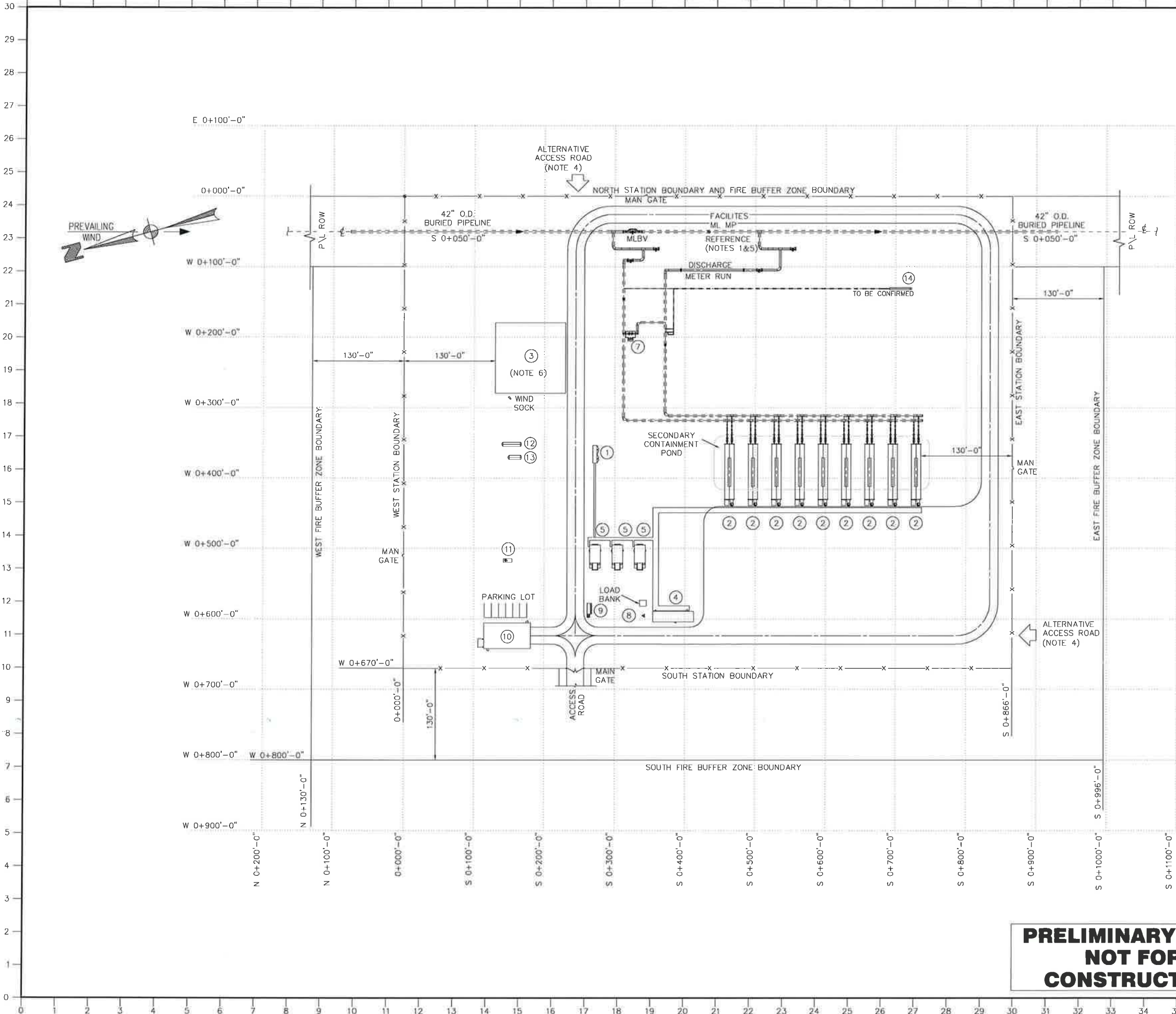
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Nikiski, Alaska

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FIGURE B3-3
TYPICAL SINGLE UNIT COMPRESSOR STATION
WITHOUT COOLERS
PLOT PLAN

DRAWN BY S. WALKER	DATE 2015-JAN-27	SCALE 1"=75'-0"	CHKD APPD	BY R DZOMBA
DRAWING NO. IISAP-WP-1DZZZ-00-000003-000			ISSUE NO. 3	





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REFERENCE DRAWINGS

TYPICAL HEATING STATION	USAP-WP-YDPFD-00-000006-001/2
PROCESS FLOW DIAGRAM	
MECHANICAL EQUIPMENT LIST	USAP-WP-MLMEL-00-000005-000

NOTES:

- THE CO-ORDINATE SYSTEM APPLICABLE TO THE ALASKA LNG PROJECT IS THE ALASKA STATE PLANE CO-ORDINATE SYSTEM: NAD83 (NRSR 207) ALASKA ZONE 4 (ITUS) VERTICAL DATUM (ORTHOMETRIC HEIGHT) IS NAVD83.
- ASSUME ALL BUILDINGS AND SKIDS ARE PITCHED ROOF STRUCTURE (LENGTH ORIENTATION).
- NORTH ARROW AND WIND DIRECTION SHOWN IS SPECIFIC FOR THEODORE RIVER HEATER STATION.
- ALTERNATIVE ACCESS ROAD IS DEPENDANT ON SPECIFIC LOCATION OF EACH SITE.
- FOR MLBV CO-ORDINATES REFER TO BASIS OF DESIGN.
- HELICOPTER PAD LOCATION DUE TO HELICOPTER LANDING REQUIREMENTS ARE TO BE CONFIRMED IN FEED.
- ALLOWANCE FOR WASHROOM AND WATER TANKS IS INCLUDED IN HEATED STORAGE.
- BUILDING SIZES ARE PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.
- FIRE BUFFER ZONE IS PRELIMINARY AND WILL BE CONFIRMED IN FEED PHASE.

LEGEND:

- 1 UTILITY M&R ENCLOSURE – 25'-0" x 6'-0"
- 2 HEATERS – 13'-0" φ x 77'-0" LONG
- 3 HELICOPTER PAD – 100'-0" x 100'-0"
- 4 INSTRUMENT AND UPS SKID – 57'-5" x 14'-9"
- 5 PPU GENERATOR SKID – 36'-4" x 15'-0"
- 7 VALVE ENCLOSURE – 14'-0" x 9'-0"
- 8 COMMUNICATION TOWER – 100'-0" TALL
- 9 BARREL DOCK
- 10 HEATED STORAGE BUILDING – 65'-7" x 36'-0"
- 11 WASTE HANDLING-INCINERATOR – 12'-0" x 5'-0"
- 12 GASOLINE TANK NPS 6'-0" OD x 25'-0"
- 13 AVIATION FUEL TANK – 6'-0" OD x 16'-0"
- 14 30 DBA REDUCTION SILENCERS TBD

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1	2016-01-22	SW / DM	ISSUED FOR USE			RD
0A	2016-01-08	SW / DM	ISSUED FOR SQUAD CHECK			RD
0	2015-04-08	SW / DM	ISSUED FOR USE			RD
B	2015-02-19	SW / DM	ISSUED FOR CLIENT REVIEW			RD
A	2015-02-05	SW / DM	ISSUED FOR SQUAD CHECK			RD

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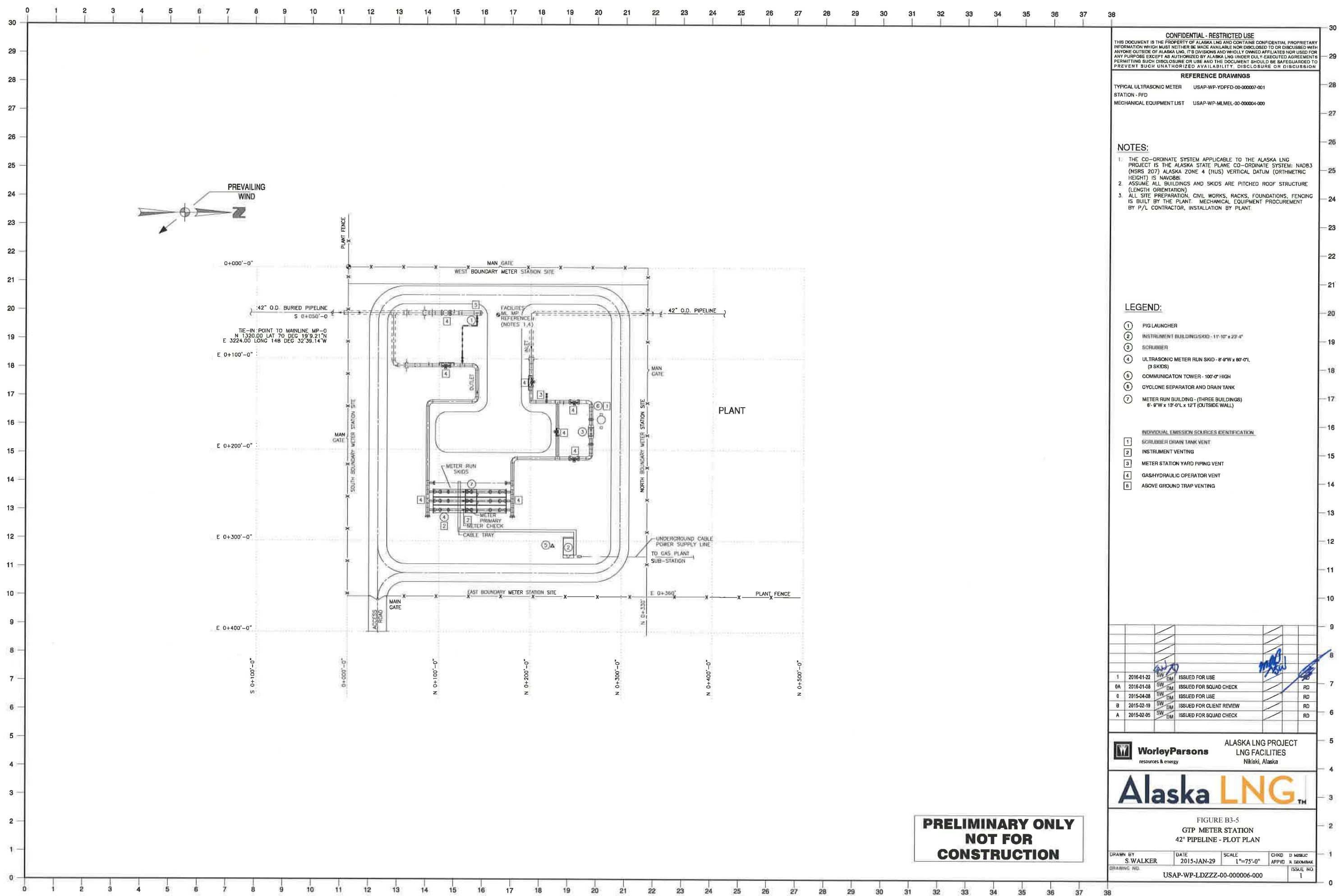
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Nikiski, Alaska

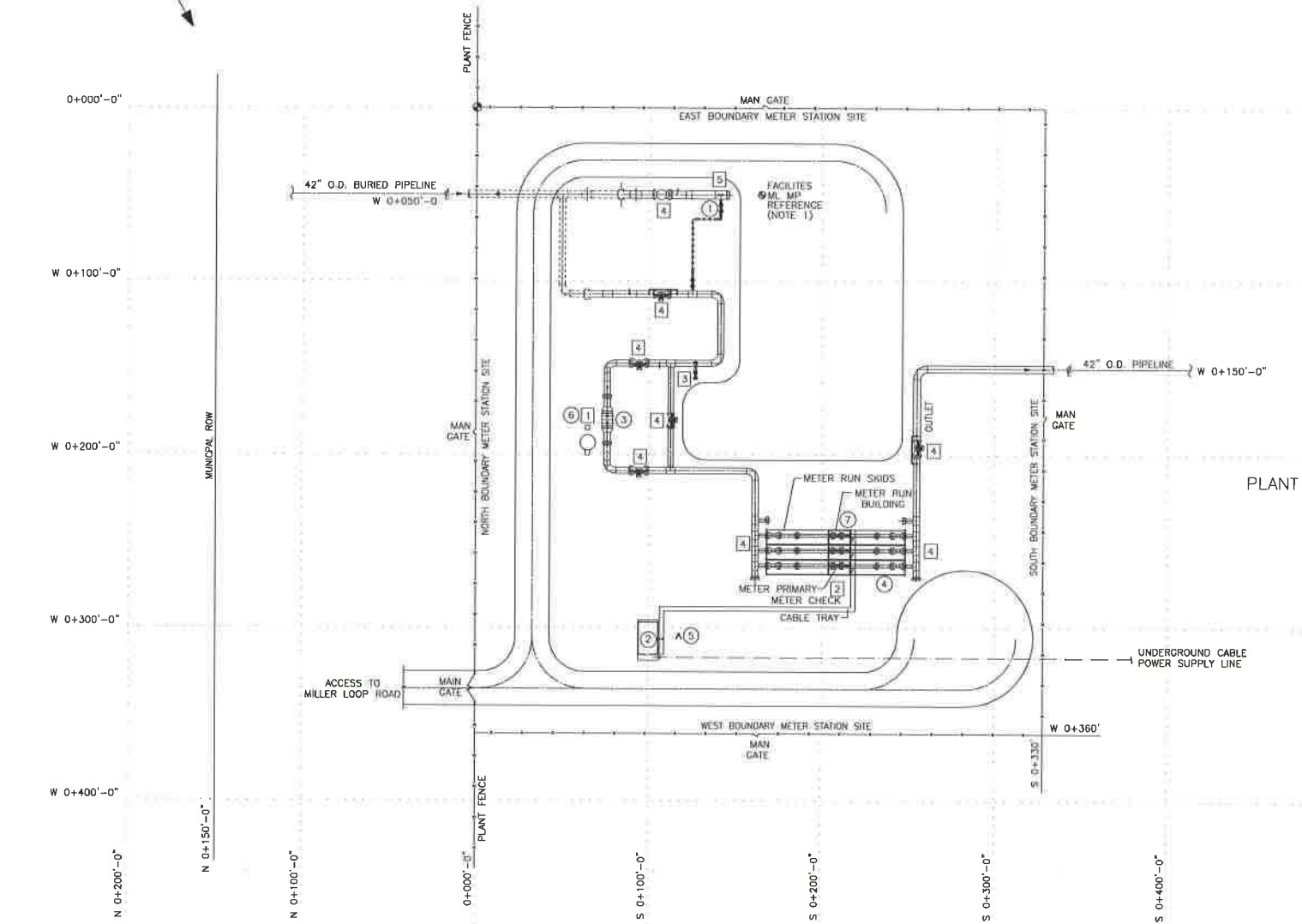
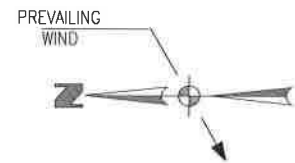
Alaska LNG™

FIGURE B3-4
HEATER STATION
PLOT PLAN

DRAWN BY S. WALKER	DATE 2015-JAN-27	SCALE 1"=75'-0"	CHK'D APP'D	D. MESSIC R. DZOMBAK
DRAWING NO. USAP-WP-LDZZZ-00-000005-000			ISSUE NO. 2	

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REFERENCE DRAWINGS
TYPICAL ULTRASONIC METER USAP-WP-YDPFD-00-000009-001
STATION - PFD
MECHANICAL EQUIPMENT LIST USAP-WP-MLMEL-00-000004-000

NOTES:
1. THE CO-ORDINATE SYSTEM APPLICABLE TO THE ALASKA LNG PROJECT IS THE ALASKA STATE PLANE CO-ORDINATE SYSTEM: NAD83 (NRSR 207) ALASKA ZONE 4 (TUS) VERTICAL DATUM (ORTHOMETRIC HEIGHT) IS NAVD83.
2. ASSUME ALL BUILDINGS AND SKIDS ARE PITCHED ROOF STRUCTURE (LENGTH ORIENTATION).
3. ALL SITE PREPARATION, CIVIL WORKS, RACKS, FOUNDATIONS, FENCING IS BUILT BY THE PLANT. MECHANICAL EQUIPMENT PROCUREMENT BY P/L CONTRACTOR, INSTALLATION BY PLANT.

- LEGEND:**
- EQUIPMENT IDENTIFICATION**
- ① PIG RECIEVER
 - ② INSTRUMENT BUILDING/SKID - 11'-10" x 23'-4"
 - ③ SCRUBBER
 - ④ ULTRASONIC METER RUN SKID - 8'-9"W x 80'-0"L (3 SKIDS)
 - ⑤ COMMUNICATON TOWER - 100'-0" HIGH
 - ⑥ CYCLONE SEPARATOR AND DRAIN TANK
 - ⑦ METER RUN BUILDING - (THREE BUILDINGS) 8' - 9"W x 13'-0"L x 12' (OUTSIDE WALL)
- INDIVIDUAL EMISSION SOURCES IDENTIFICATION**
- ① SCRUBBER DRAIN TANK VENT
 - ② INSTRUMENT VENTING
 - ③ METER STATION YARD PIPING VENT
 - ④ GAS/HYDRAULIC OPERATOR VENT
 - ⑤ ABOVE GROUND TRAP VENTING

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1	2016-01-22	SW / DM	ISSUED FOR USE			RD
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0	2015-06-22	SW / DM	ISSUED FOR USE			RD
B	2015-03-20	SW / DM	ISSUED FOR CLIENT REVIEW			RD
A	2015-03-17	SW / DM	ISSUED FOR SQUAD CHECK			RD

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FIGURE B3-6
NIKISKI METER STATION
42" PIPELINE - PLOT PLAN

DRAWN BY S. WALKER	DATE 2015-JAN-29	SCALE 1"=75'-0"	CHK'D APP'D	D MISC R DECOMBLAK	ISSUE NO. 1
USAP-WP-LDZZZ-00-000007-000					

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