3 3755 000 96421 3
ARLIS

EWS

~~Docket No. CP80-~~_____

~~Exhibit Z-1-2~~

Hearing Exhibit No._____

Alaska Natural Gas Transportation System

Alaska Segment — 48" Natural Gas Pipeline

(Prudhoe Bay To Canadian Border)

OVR-HD
TN
880.51
.A55
E1
1980

IVIRONMENTAL
ume 1
gnment Sheets 1 Thru 131

00169

ALASKAN NORTHWEST NATURAL
GAS TRANSPORTATION COMPANY

OVR-HD
TN
880.51
.A55
E2
1980

3 3755 000 96421 3

ALASKA SEGMENT OF ANGTS

ENVIRONMENTAL MASTER GUIDE
LEVEL I

PREPARED

APRIL 1980

ARLIS
Alaska Resources Library & Information Services
Library Building, Suite 111
3211 Providence Drive
Anchorage, AK 99508-4614

PREFACE

Assurance of environmental protection requires adequate knowledge and description of the environment and of activities having potential environmental impact. It also requires conveyance of that knowledge in a form which is immediately usable to those who must make decisions about activities which may have an environmental impact. The Environmental Master Guide (EMG) is developed as a cumulative source or compilation of environmental information concerning the Alaska segment of ANGTS.

The EMG is a functional tool with a format and selected information that provides the capability for rapid access to information pertinent to potential limitations on design, sensitive areas, and timing of exploration and construction activities. Furthermore, the EMG serves as a source document for ongoing environmental assessments of proposed construction related activities. The development of NTPAs will also require site-specific environmental input from the EMG. During pre-construction, construction, and operation activities the Guide will be used for monitoring environmental compliance and making onsite decisions.

The EMG is based on both literature and ongoing field studies used to illustrate and describe areas of environmental interest or concern. These data, provided by recognized authorities, are evaluated and integrated into the EMG by NWA/Fluor Environmental Engineering.

The EMG is, therefore, a living document. New data will be provided, and present data will be refined through ongoing field studies, further literature search, and agency reports. Agency review will be reflected in future revisions.

FORMAT

The EMG is divided into three "Levels". Level I is a set of alignment sheets with graphic environmental information and a calendar of sensitive times.

Level II is a separate series of data sheets with detailed information about the entries on the Level I alignment sheets.

Level III is a bibliography of the literature used in the development of Levels I and II.

LEVEL I

Level I (Figure 1) graphically depicts environmentally sensitive areas, selected civil features, and the pipeline and related facilities that may impact these areas. A coding system identifies each entry on the photo band, and the alignment sheet "Legend" defines the code. Each entry number is correlated with Level II data sheets.

Three types of information are entered on Level I alignment sheets: archaeological, biological, and civil. Each is described in greater detail below.

ARCHAEOLOGICAL INFORMATION

Archaeological Site: a cultural resource that includes prehistorical or historical archaeological remains, standing historical structures, and sites considered culturally important to the regional inhabitants. Each area is mapped in Level I with "floating boundaries", indicating the general area of concern but masking specific location. The use of floating boundaries aids in protecting these sensitive sites from unauthorized disturbance.

BIOLOGICAL INFORMATION

Big Game Movement Zone: area traversed by ungulates during traditional seasonal migrations. Areas of specific ungulate pipeline crossings are also noted.

Endangered Species Habitat: area observed or cited in literature to be active or historical nesting habitat for peregrine falcons. Specific nest locations are masked by "floating boundaries" to conceal their exact location.

Fish Habitat: water used by fish on a recurring basis; use may include overwintering, spawning and rearing.

Land Bird Habitat: area of seasonal concentration of sharp-tailed grouse.

Mammal Habitat: area of seasonal or year-round concentration for a given mammalian species. This category excludes traditional migration areas which are described as Big Game Movement Zones in the EMG.

Raptor Habitat: area observed or cited in literature to be nesting habitat for raptors, excluding the peregrine falcon. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location.

Waterbird Habitat: areas of waterbird concentration for breeding, nesting, molting, staging and resting. Seasonal migration routes are also mapped as waterbird habitat.

Wetlands: areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalance of vegetation typically adapted for life in saturated soil conditions. This classification includes swamps, marshes, and bogs.

Unique/Sensitive Vegetation: areas of unusual and/or extremely sensitive vegetation. Also included are vegetation communities having high wildlife habitat value.

Sensitive Period: periods represented by calendar chart denoting environmentally sensitive times which limit access and construction

activities. Sensitive periods are divided into avoidance and restricted periods. During avoidance periods most exploration and construction activites are prohibited. During restricted periods only certain activities are prohibited.

CIVIL INFORMATION

Disposal Site: areas used as spoil and solid waste disposal sites. A spoil disposal site is an area used for collection of overburden stripped during workpad and facility site preparation. A solid waste disposal site is an area used to dispose of residue from incinerators, nonrecoverable scrap materials and other inert wastes.

Erosion Control Site: selected river training structures, settling basins, waterbars, and other sites requiring stabilization (e.g., sand dunes).

Existing Drainage Structure: selected existing structures in a fish stream (e.g., culvert) used to pass water across the alignment right-of-way.

Restoration Area: sensitive area requiring special treatment during restoration.

River and Floodplain Crossing: river or floodplain traversed by the NWA alignment.

Material Site: area developed as a borrow pit for gravel, riprap, shot rock and other earth materials to be used for workpad, access road, backfill and other construction.

Access Roads: road from existing state road giving access to material, disposal, and valve sites, camps, compressor stations and the pipeline right-of-way.

LEVEL II

Level II contains data sheets supporting each Level I entry including specific location identification, mitigation recommendations, and source document citations (Figure 2). There are six different data sheet forms, arranged to detail the pertinent information in a clear, concise manner. These data sheets are designed to fit specific informational requirements associated with entries depicted in Level I. Some topics require individual forms; others are grouped without losing the clarity or completeness of data presentation. The following entries each have separate data sheets: Archaeological Site; Endangered Species Habitat; Fish Habitat; and Wetlands. One form will be used for Big Game and Mammal Habitat entries, and one form will be used for Land Bird, Raptor and Waterbird Habitat entries. Use of these forms facilitates consistency in the type and extent of information supplied and provides quick reference access to these data.

LEVEL III

Level III is the bibliography of all literature used directly in the development and documentation of Levels I and II. A list of the present Level III documents is presented on the following pages.

LEVEL III DOCUMENTS

Aigner, J.S. 1980. Environmental gazeteer: work order 4. Department of Anthropology, University of Alaska, Fairbanks, Alaska. 14 p.

Alaska Department of Fish and Game. 1975. Catalog of waters important for spawning and migration of anadromous fishes. Anchorage, Alaska. 19 p.

Alaska Department of Fish and Game. 1973. Alaska's wildlife and habitat. (R.E. LeResche and R.A. Hinman, eds.) Juneau, Alaska. 144 p. and plates.

Alaska Department of Fish and Game. 1979. Attachment B restrictions on sensitive wildlife areas. State of Alaska Office of the Pipeline Coordinator, Fairbanks, Alaska. 3 p and letter.

Alaska Department of Fish and Game. 1980. Fish resource areas of the Northwest Alaskan Gas Pipeline Corridor: phase I status and packaging study. Habitat Protection Section Pipeline Surveillance Office. 51 p.

Alaska Department of Fish and Game. 1979. Fish stream files. (unpublished) Pipeline Surveillance Office, Anchorage, Alaska.

Bio/West Inc. 1976. A list of fish streams crossed by the proposed Alcan Gas Pipeline in Alaska including fish species present and periods of sensitivity. Prepared for Alcan Pipeline Company. Logan, Utah. 21 p.

Chihuly, M., D. Ward, P. Craig, and R. McMillan. 1979. Winter fisheries survey and provisional list of waterbodies along the Alaskan Gas Pipeline Route (Prudhoe Bay to the Yukon Territory) proposed by Northwest Alaskan Pipeline Company. LGL Ecological Research Associates, Inc., Fairbanks, Alaska. 274 p.

Chihuly, M., D. Ward, P. Craig, R. McMillan, and R. Morrison. 1979. Spring fisheries survey and provisional list of waterbodies along the Alaskan Gas Pipeline Route (Prudhoe Bay to the Yukon Territory) proposed by Northwest Alaskan Pipeline Company. LGL Ecological Research Associates, Inc., Fairbanks, Alaska. 210 p.

Chihuly, M., D. Ward, R. McMillan, R. Morrison, T. Olson, and A. Seherak. 1980. Fall fisheries survey and provisional list of waterbodies along the Alaskan Gas Pipeline Route (Prudhoe Bay to the Yukon Territory) proposed by Northwest Alaskan Pipeline Company. LGL Ecological Research Associates, Inc., Fairbanks, Alaska. 178 p.

Chihuly, M., R. McMillan, R. Morrison, T. Olson, and A. Seherak. 1980. Early winter fisheries survey and provisional list of waterbodies along the Alaskan Gas Pipeline Route (Prudhoe Bay to the Yukon Territory) proposed by Northwest Alaskan Pipeline Company. LGL Ecological Research Associates, Inc. 153 p.

Dames and Moore, Inc. 1978. Field validation of fish streams between the Canadian Border and Delta Junction. Prepared for Northwest Alaskan Pipeline Company. Anchorage, Alaska. 15 p.

Department of the Interior: Bureau of Land Management. 1980. Certain lands in Alaska; public land order withdrawals. Federal Register, Vol. 45, No. 30, pp. 9562-9564 and 9634-9639,

Halbert, J. 1975. Second interim report of the sport fish technical evaluation study: special report no. 7. U.S. Fish and Wildlife Service and Alaska Department of Fish and Game, Anchorage, Alaska. 39 p.

Interagency Fish and Wildlife Task Force. 1979. Preliminary list of fish streams crossed by the proposed Northwest Alaskan Pipeline Company Gas Pipeline, Delta to the Canadian Border. U.S. Fish and Wildlife Service and Alaska Department of Fish and Game. Alaska. 9 p.

Joint State/Federal Fish and Wildlife Advisory Team. 1976 (June). Wildlife atlas: Trans-Alaska Oil Pipeline, Valdez to Prudhoe Bay: special report no. 3. (James E. Hemming and Keith A. Morehouse, eds.) U.S. Fish and Wildlife Service and Alaska Department of Fish and Game. 30 p.

Joint State/Federal Fish and Wildlife Advisory Team. 1977. Construction surveillance memos. (unpublished) U.S. Fish and Wildlife Service and Department of Fish and Game.

Johnson, R.L. and J. Rockwell, Jr. 1978. List of streams and other waterbodies along the Trans-Alaska Oil Pipeline Route. (4th revision) (draft) Alaska Pipeline Office, U.S. Department of Interior, Anchorage, Alaska. 23 p and tables 2-12.

Kessel, B. 1979. Migration of sandhill cranes, upper Tanana River Valley, Alaska. Professor of Zoology and Curator Terrestrial Vertebrate Collections, University of Alaska, Fairbanks, Alaska. 27 p and appendix.

LGL Ecological Research Associates, Inc. 1980. Alignment sheets 1-131. Fairbanks, Alaska.

Netsch, N.F. 1975. Fishery resources of waters along the route of the Trans-Alaska Pipeline between the Yukon River and Atigun Pass in North Central Alaska. Resource Publication No. 124. U.S. Fish and Wildlife Service, Anchorage, Alaska. 45 p.

Netsch, N.F., T.D. Renschler, and E.C. Wadlow. 1972. A progress report on fishery surveys along the route of the proposed Trans-Alaska Pipeline between the Yukon River and Atigun Pass during 1971. U.S. Fish and

Wildlife Service, Anchorage, Alaska. 21 p.

Northern Technical Services. 1978. River and floodplain crossing design considerations and processes for the Alaska Natural Gas Transportation System, Vol. II. Prepared for Fluor Engineers and Constructors, Inc. 410 p.

Roseneau, D.G. 1979. Raptor restriction statement. LGL Ecological Research Associates, Fairbanks, Alaska. 2 p and Attachment A.

Roseneau, D.G. and P.J. Bente. 1979. A raptor survey of the proposed Northwest Alaskan Pipeline Company Gas Pipeline Route: Prudhoe Bay, Alaska to the U.S.-Canada Border, May 31 to June 7 and July 7, 1979, a final report. LGL Ecological Research Associates, Fairbanks, Alaska. 82 p and alignment sheets 1-131.

Shideler, D. 1979. Alaska Department of Fish and Game/U.S. Fish and Wildlife Service Pipeline Team narrative report – gas pipeline. Washington Creek to Delta. October 10 – November 2, 1979. Alaska Department of Fish and Game. 3 p.

Shideler, D. and T. Booth. 1979. Alaska Department of Fish and Game/U.S. Fish and Wildlife Service Pipeline Surveillance Team narrative report – gas pipeline. Fairbanks to Canadian Border. November 14-17, 1979. Alaska Department of Fish and Game. 6 p.

Valdez, R.A. 1976. Fisheries survey of Tanana River tributaries along the Alcan Gas Pipeline Route. Prepared for Gulf Interstate Engineering Company. Bio/West Inc., Logan, Utah. 59 p.

Van Hyning, J.M. 1976. A reconnaissance of the fish resources of the Northwest Pipeline Corporation Corridor: Alaska Border to Delta Junction. Prepared for Gulf Interstate Engineering Company. Nerka Incorporated, Fairbanks, Alaska. 27 p.

Van Hyning, J.M. 1976. Salmon surveys of the upper Tanana River 1976. Prepared for Gulf Interstate Engineering Company. Nerka Incorporated, Fairbanks, Alaska. 31 p.

Van Hyning, J.M. 1978. Fall and winter fish studies on the upper Tanana River drainage. Prepared for Northwest Alaskan Pipeline Company. Aquabionics, Fairbanks, Alaska. 77 p.

Wienhold, R.J. 1970. Stream surveys along the pipeline route. Division Sport Fish, Alaska Department of Fish and Game, Anchorage, Alaska. 69 p.

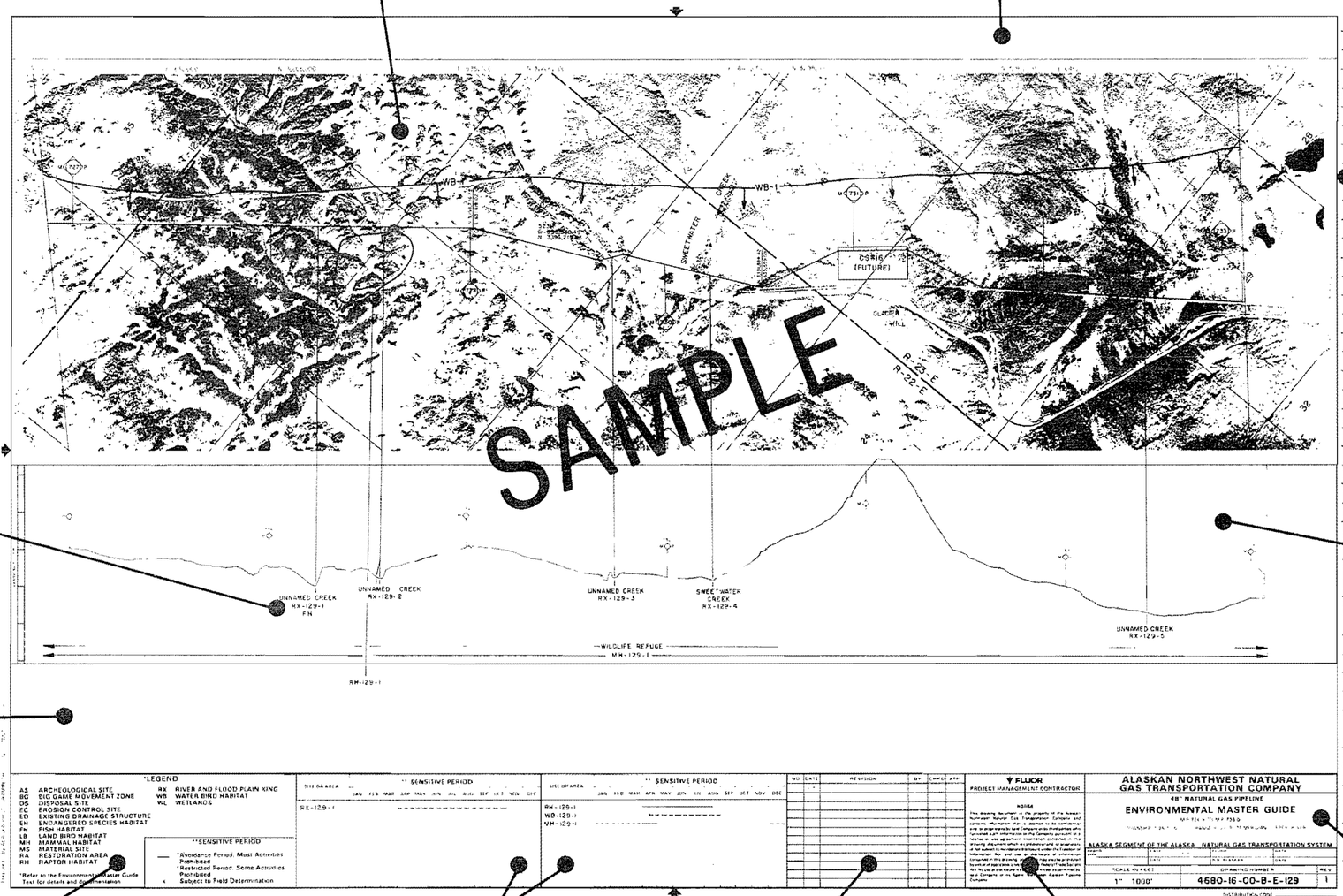
Yanagawa, C. 1979. Fish stream identification forms May – September, 1979. Alaska Department of Fish and Game. 124 p.

FIGURE 1
LEVEL I ALIGNMENT SHEET

Photo Mosaic: A composite of aerial photographs on which various data have been graphically indicated. The photo band encompasses an area 2 miles wide and 6 miles long.

Upper Data Box: Data from Level II on fish habitat; archaeological site; and raptor habitat which are either "above" the pipeline or totally off of the photo mosaic.

RX-129-1: The codes used on the Level I alignment sheets designate information categories listed in the legend. This legend code plus the alignment sheet number plus the entry number is a datum-specific number. This number is also used in Level II to identify each data sheet with the specific Level I entry, and thereby correlates each datum entry with Level II site-specific information. This entry is a stream or river crossing (RX) on a particular alignment sheet (#129) which is presently the first (1) encountered by the pipeline (i.e. "RX-129-1").



Scale Adaption: Used for accurately computing the scale on reduced maps. The scale on the 11" x 17" Level I alignment sheets is 1"=2375'

Profile Data Box: This box portrays the topographic profile of the pipeline alignment and associated mileposts. Data intersecting the pipeline are depicted on the photo band and connected by lines to specific pipeline profile locations.

Lower Data Box: Data from Level II on fish habitat; archaeological site; and raptor habitat which are either "below" the pipeline or totally off of the photo mosaic.

Legend: An explanatory list of the symbols used to note data entries. Included are the symbols used in the Sensitive Period Boxes.

Sensitive Period Boxes: A calendar used in delineating sensitive time periods, the caution that should be used in such areas (avoidance; restricted activities) and the site or area under consideration.

Revision Block: Shows each revision by number, the date it was made, and the purpose of the revision.

Confidentiality Box: Notice of ownership and confidentiality of the information contained on these sheets.

Title and Drawing Number Block: This block gives the scale, drawing number, revision number, milepost range covered, township, range, and meridian.

FIGURE 2
LEVEL II DATA SHEETS

AS No. 129 Page 1 — FLUOR NORTHWEST ALASKAN PIPELINE CO. — ENVIRONMENTAL MASTER GUIDE TEXT — CONTRACT 478084 EMG/AS ENTRY RX-129-1 FH

	ENTRY DATE	REMARKS	LOCALITY GROSS REF.

Waterbody _____
Photo _____ Station # _____
Main Drainage _____
Tributary to _____
Fish Species/Age Class _____

Habitat Use _____

Key Habitat _____

Sensitivity

C	F	M	A	J	S	O	N	L

Streambed Vegetation _____
Terrestrial Habitat _____
Water Source _____
Watershed Acreage _____
Bottom Type _____ Gradient _____
Banks/Soils (L) _____ (R) _____
Flow Characteristics _____

SAMPLE

Page 1

AS No. 129 Page 2 — FLUOR NORTHWEST ALASKAN PIPELINE CO. — ENVIRONMENTAL MASTER GUIDE TEXT — CONTRACT 478084 EMG/AS ENTRY RX-129-1

	ENTRY DATE	REMARKS	LOCALITY GROSS REF.

Winter Conditions _____

NWA Drainage Structure (s) _____
DWG# _____
Other Drainage Structures (s) _____
Barriers _____

Comments _____

Level III Referen_____

Mitigational Recommendation _____

Mitigational Action _____

SAMPLE

Page 2

All levels of the EMG are updated as new data becomes available. Data from NWA/Fluor consultants, state and Federal agencies, and other concerned parties are examined for inclusion into the EMG. Acceptable data are retained in a candidate revision file prior to formal revisions. Changes to Level II and III occur frequently; redrafting of Level I occurs periodically.

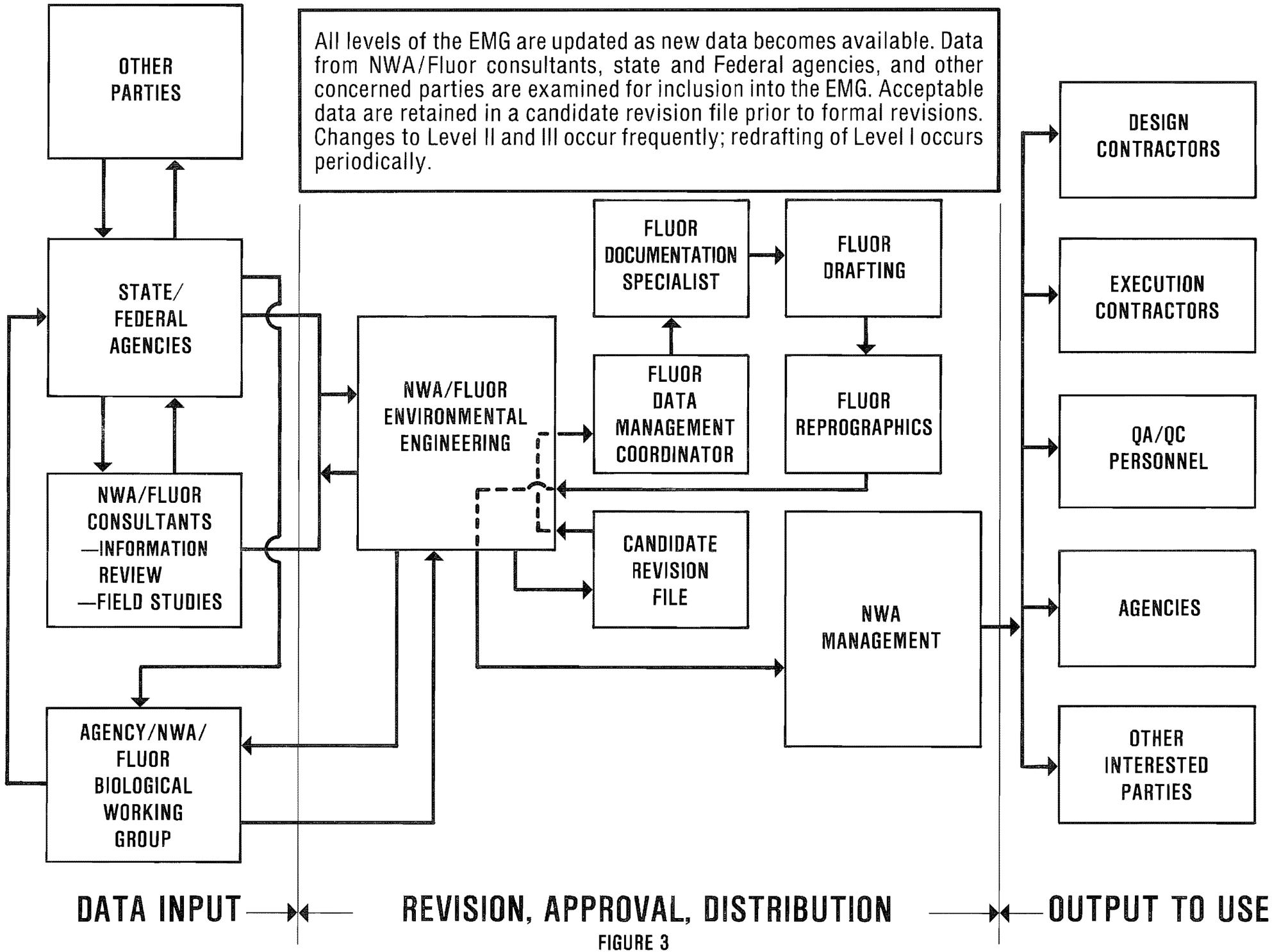
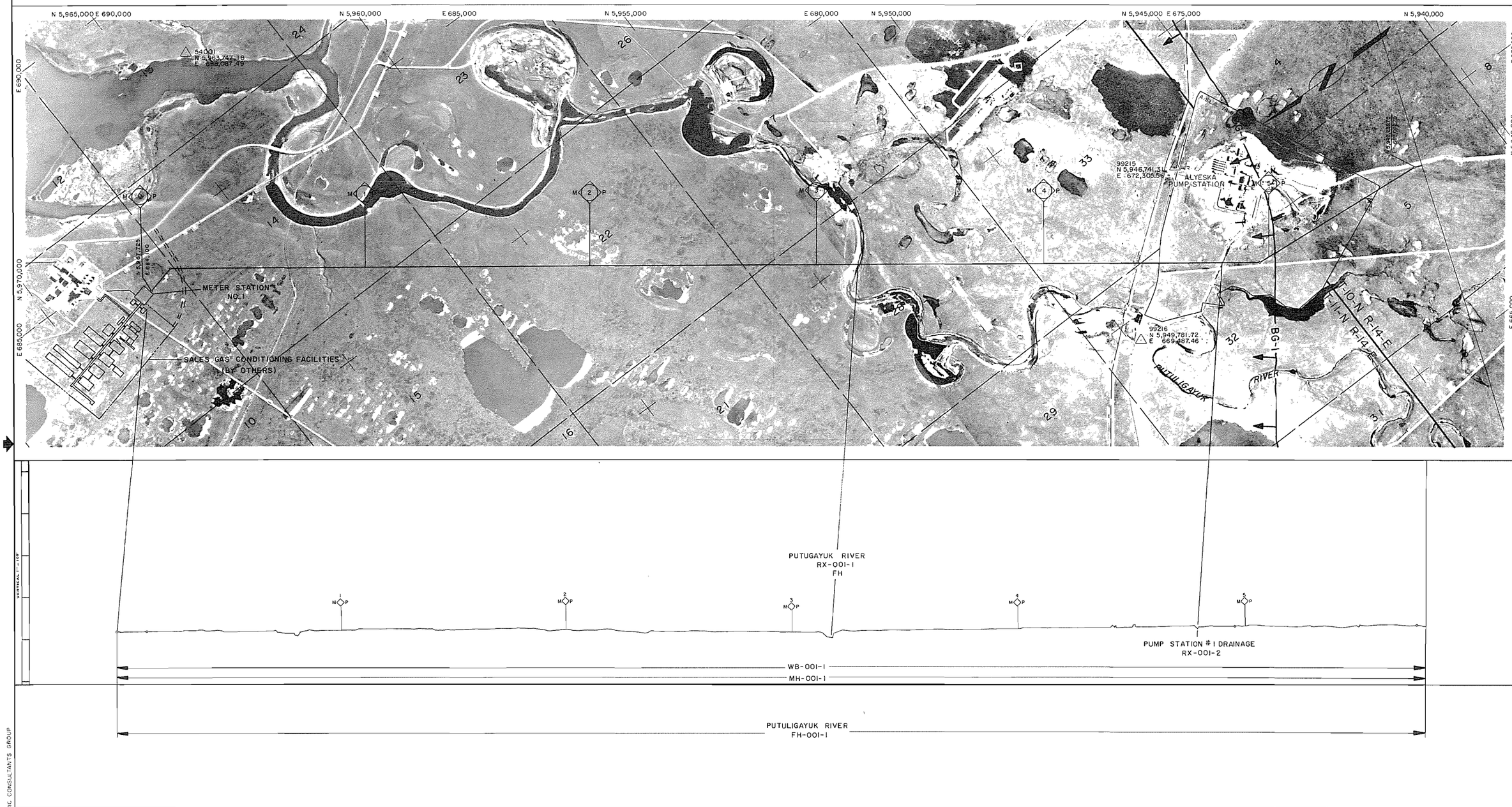


FIGURE 3
EMG REVISION PROCESS



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

***LEGEND**

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

___ = *Avoidance Period; Most Activities Prohibited.
----- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-001-1					---	---	---	---	---			
RX-001-1					---	---	---	---	---			

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-001-1	---	---	---	---					---	---		---
MH-001-1	---	---	---	---	---	---	---		---	---		---
WB-001-1					---	---	---					

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 00 TO MP 58

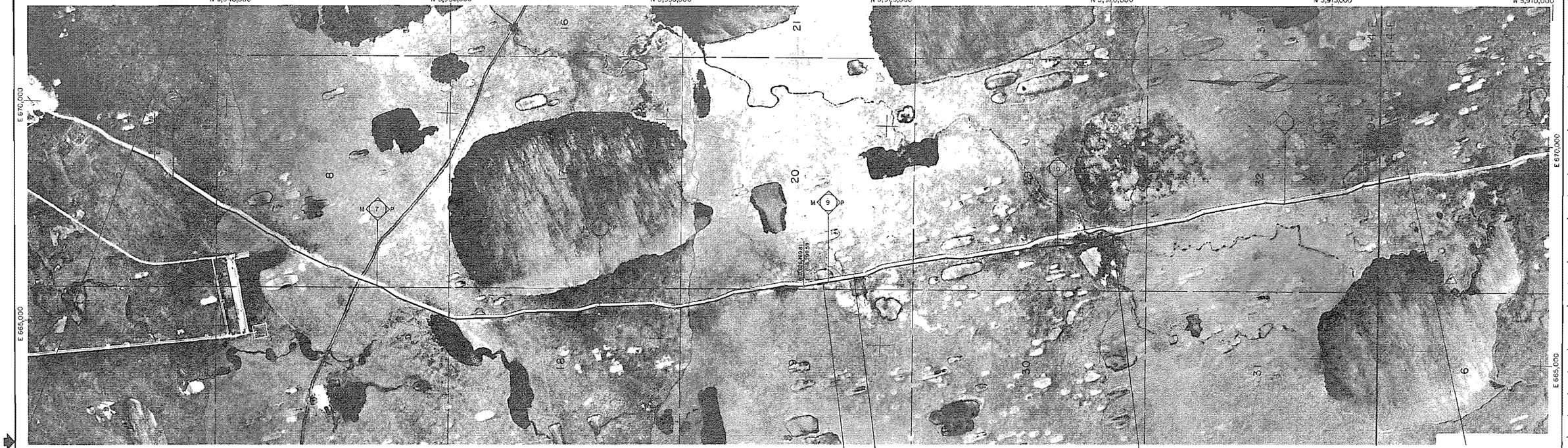
TOWNSHIP T11N, T10N RANGE R14E MERIDIAN UNIMAT

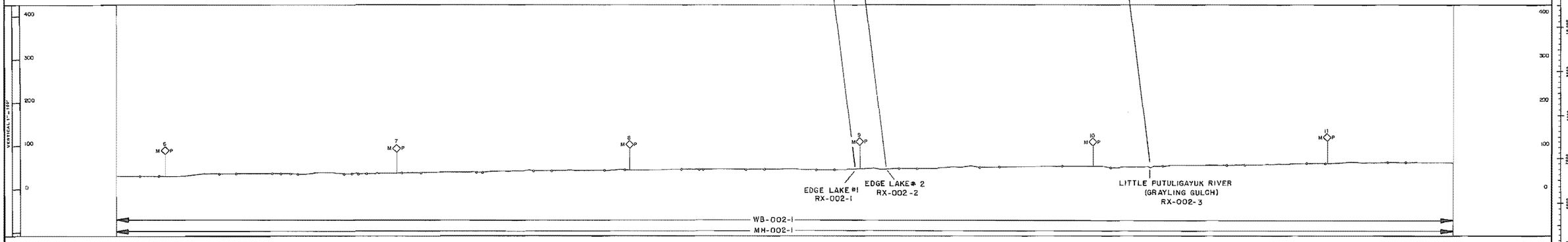
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE	FLUOR	DATE
APCG	1979	E. Sulley	4/8/80
James Webb	4/8/80	NW ALASKAN	4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-C-E-001	1

DISTRIBUTION CODE _____





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

*Refer to the Environmental Master Guide Text for details and documentation.

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-002-1					----	----						
MH-002-1	----	----	----	----			----		----	----		----

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 5.8 TO M.P. 11.5

TOWNSHIP T10N, T9N RANGE R16E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

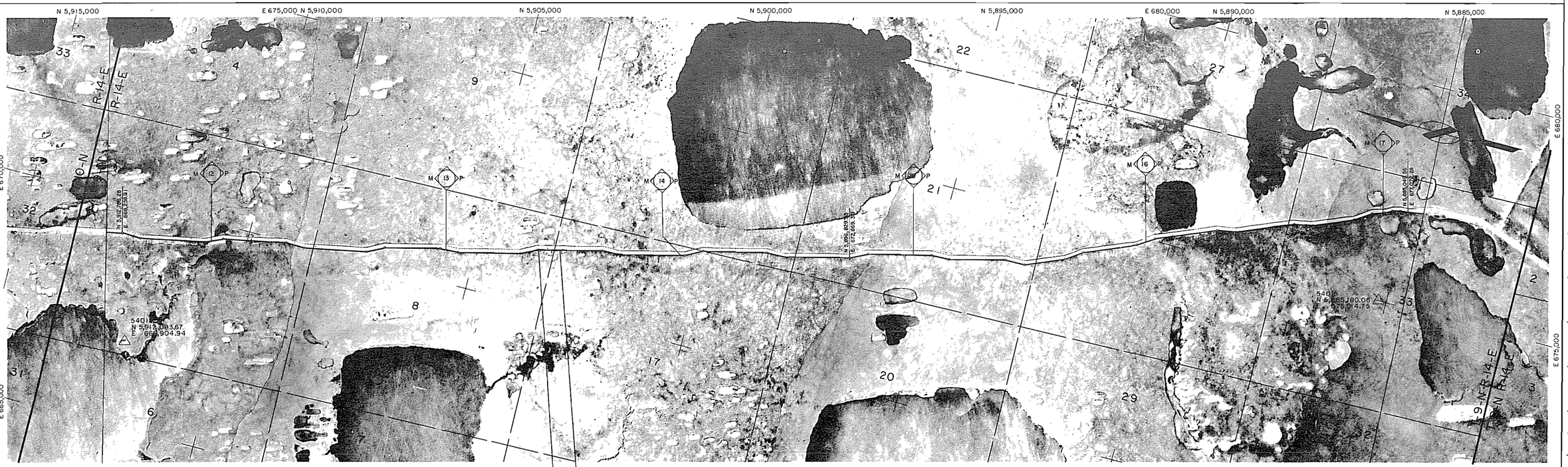
PHOTO	APCG	DATE	1978	FLUOR	DATE 4/1/80
		DATE	4/2/80	NW. ALASKAN	DATE 4/9/80

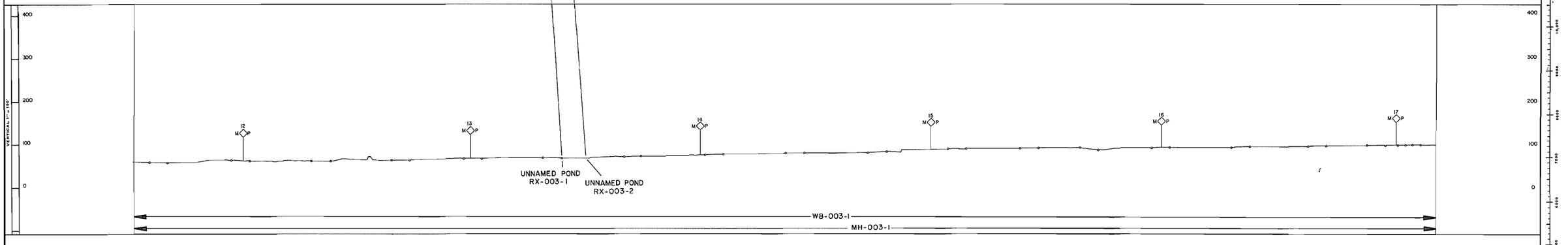
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-002

REV.: 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-003-1					-----	-----	-----					
MH-003-1	-----	-----	-----	-----	-----	-----	-----		-----	-----		-----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP. 11.5 TO MP 17.2

TOWNSHIP T9N, T10N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/3/80
		DATE	4/2/80	N.W. ALASKAN	DATE 4/2/80

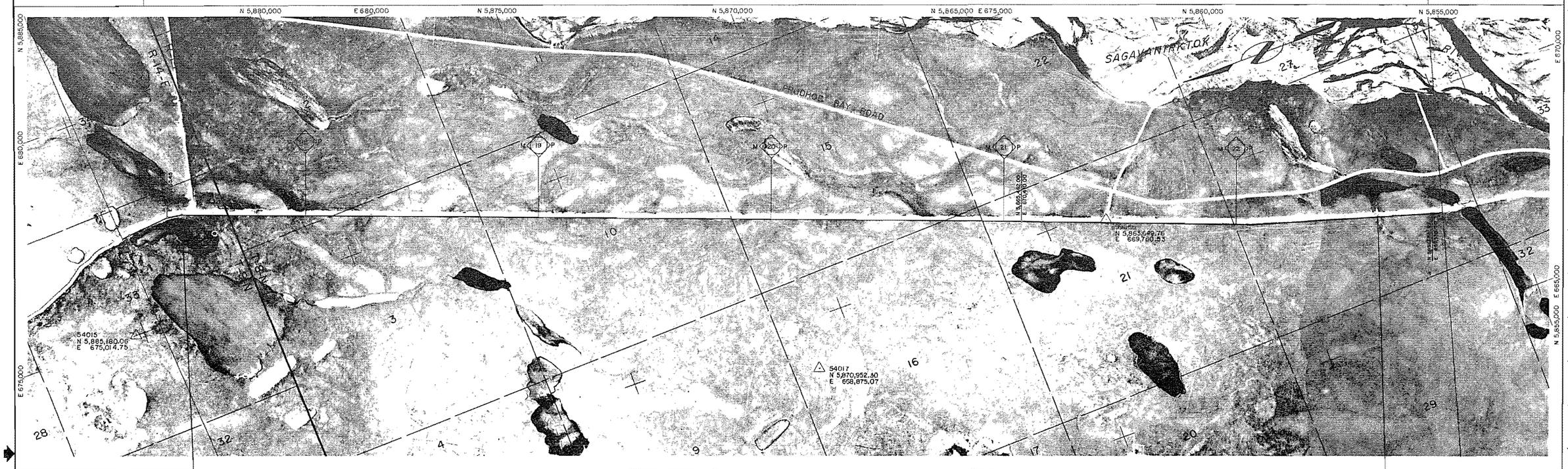
SCALE IN FEET: 1" = 1000'

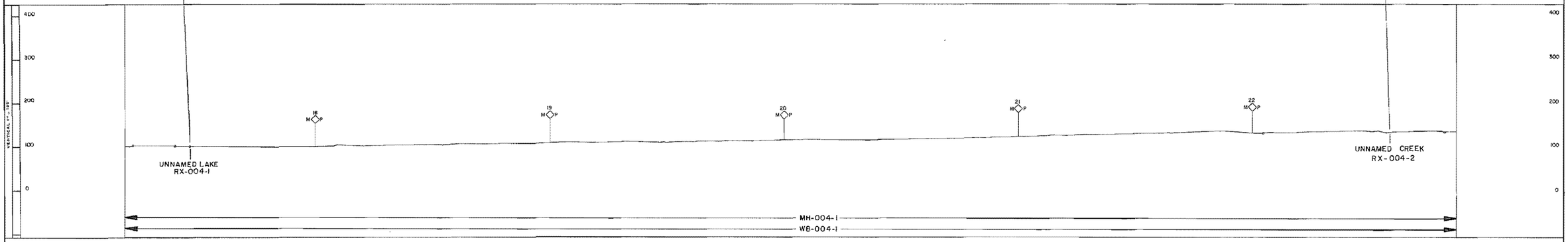
DRAWING NUMBER: 4680-11-00-B-E-003

REV.: 1

DISTRIBUTION CODE

SAGAVANIRKTOK RIVER
FH-004-1





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-004-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-004-1	----	----	----	----	----	----	----					
MH-004-1	----	----	----	----	----	----	----			----	----	----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	RELEASED FOR CONSTRUCTION			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or sub-agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 17.2 TO MP 22.9

TOWNSHIP T7N, T6N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1975	FLUOR	DATE 4/2/80
		DATE 4/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-004 REV. 1

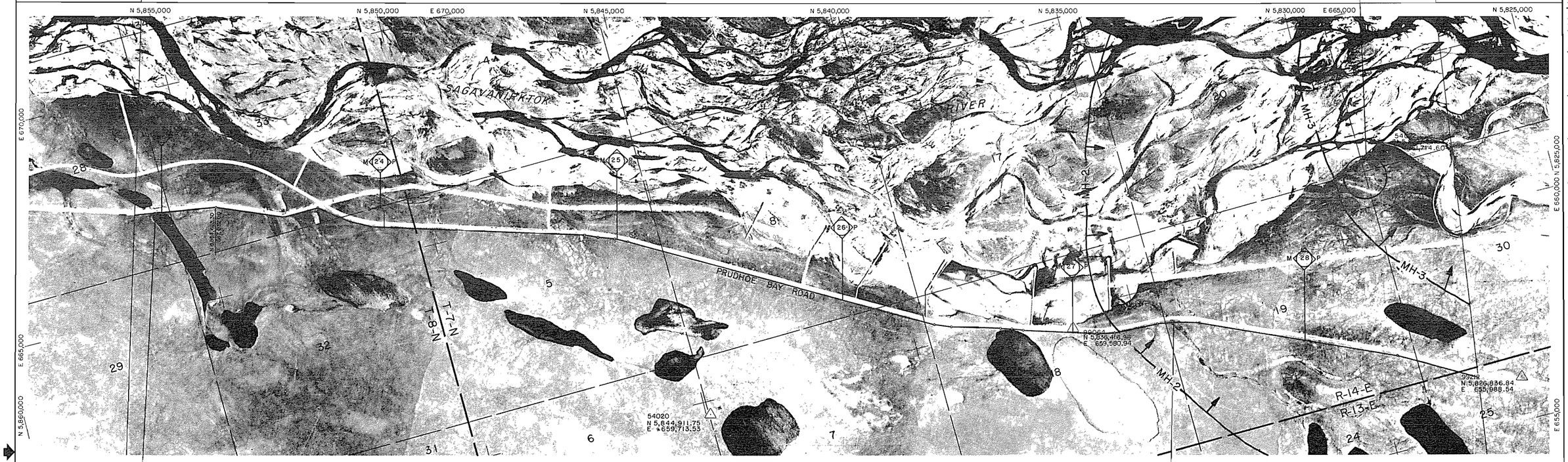
DISTRIBUTION CODE

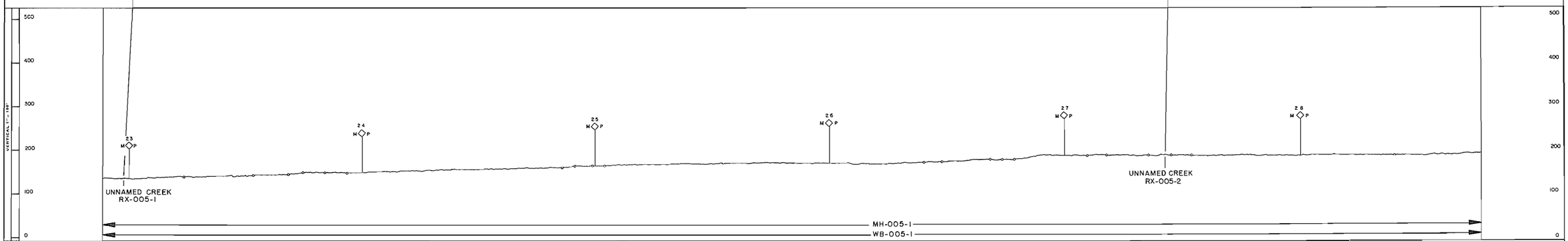
Plotted By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
EH-005-1

SAGAVANIRKTOK RIVER FLOODPLAIN
FH - 005 - 1

AS-005-1
SAG-010





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-005-1	—	—	—	—	—	—	—	—	—	—	—	—

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-005-1					—	—	—					
EH-005-1												
AS-005-1	—	—	—	—	—	—	—	—	—	—	—	—
MH-005-1	—	—	—	—	—	—	—	—	—	—	—	—
MH-005-2	—	—	—	—	—	—	—	—	—	—	—	—
MH-005-3	—	—	—	—	—	—	—	—	—	—	—	—

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 22.9 TO M.P. 28.8

TOWNSHIP T8N, T7N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	R. Sibley	DATE	4/2/80
	James L. Walker	DATE	4/2/80	N.W. ALASKAN	[illegible]	DATE	4/2/80

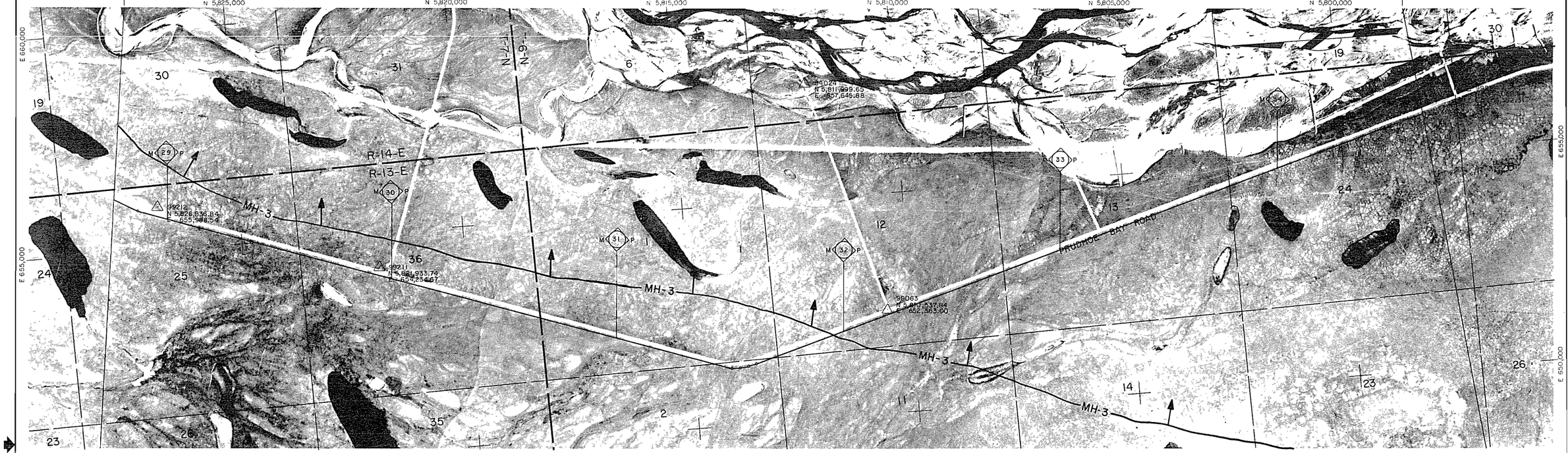
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-005	1

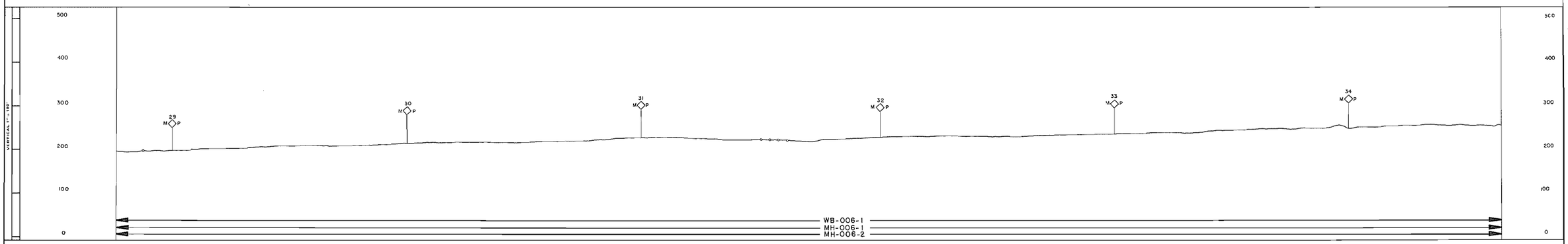
DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
EH-006-1 RH-006-1
EH-006-2
EH-006-3
EH-006-4

SAGAVANIRKTOK RIVER FLOODPLAIN
FH-006-1





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-006-1	---	---	---								---	---

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-006-1					---	---	---					
EH-006-1												
EH-006-2												
EH-006-3												
EH-006-4												
RH-006-1												
MH-006-1	---	---	---	---	---	---	---	---	---	---	---	---
MH-006-2	---	---	---	---	---	---	---	---	---	---	---	---
MH-006-3	---	---	---	---	---	---	---	---	---	---	---	---

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 28.8 TO MP 34.0

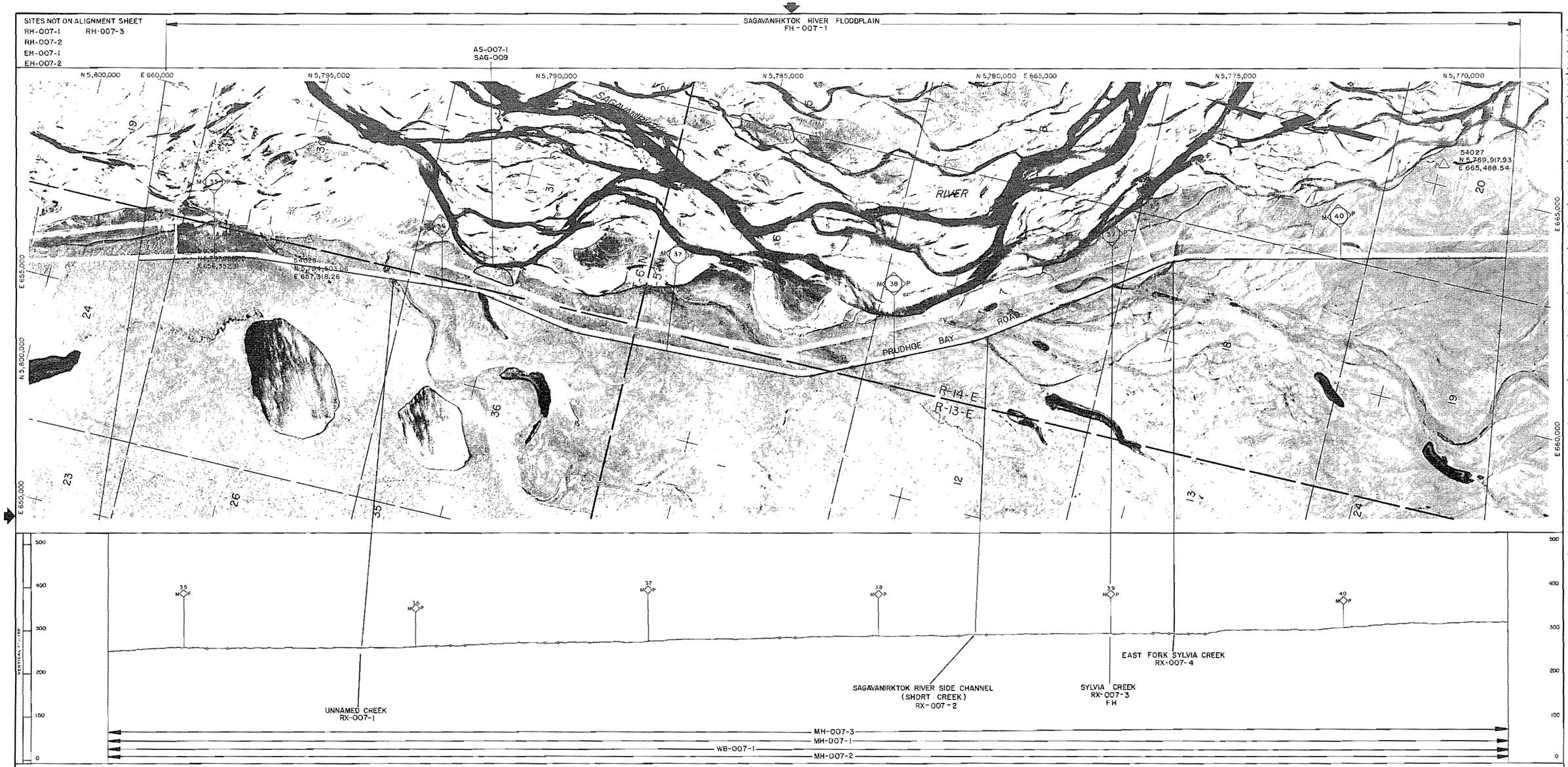
TOWNSHIP T9S,T10S RANGE R14E,R13E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO		DATE		FLUOR	DATE
APCG		1978			4/80
		DATE		NW ALASKAN	DATE
		4/2/80			4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-006	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-007-3												
FH-007-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-007-1												
RH-007-1												
RH-007-2												
EH-007-1												
EH-007-2												
AS-007-1												
RH-007-3												
MH-007-1												
MH-007-2												
MH-007-3												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILLPOST			
		RELEASED FOR FENCE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing-document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 34.0 TO MP 40.7

TOWNSHIP T6N, T5N RANGE R14E, R13E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 4/2/80
		DATE 4/2/80	N.W. ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-007	1

DISTRIBUTION CODE

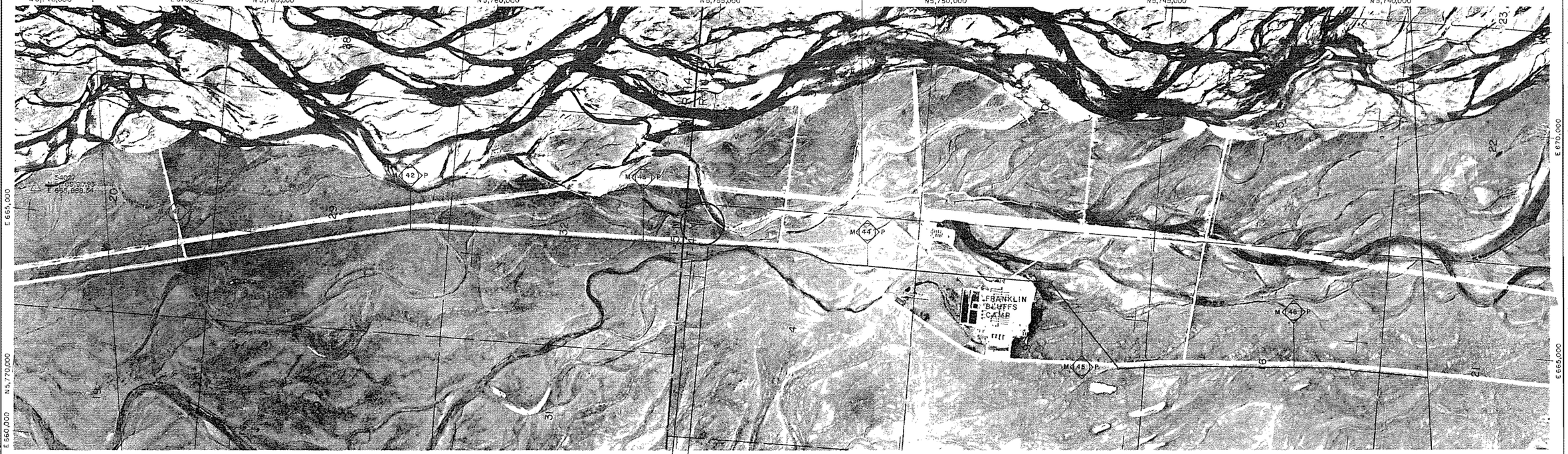
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

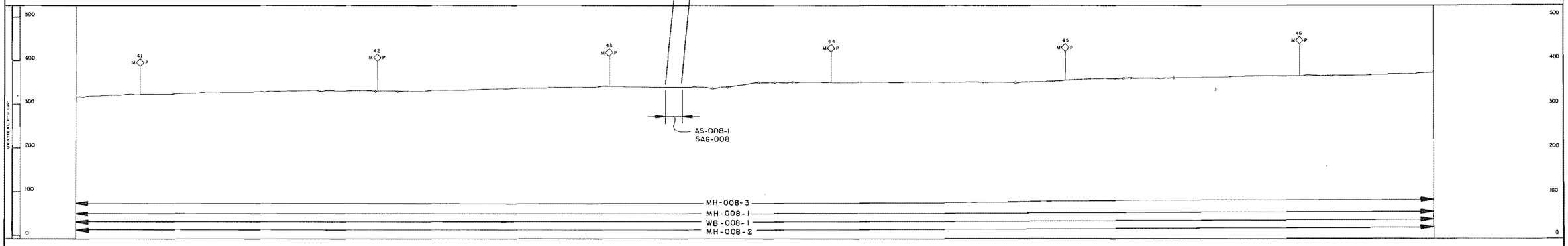
SITES NOT ON ALIGNMENT SHEET
EH-008-1
RH-008-1

SAGAVANIRKTOK RIVER FLOODPLAIN
FH-008-1

GHOST CREEK
FH-008-2

N 5,770,000 E 670,000 N 5,765,000 N 5,760,000 N 5,755,000 N 5,750,000 N 5,745,000 N 5,740,000





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
_____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-008-1												
FH-008-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-008-1												
AS-008-1												
RH-008-1												
MH-008-1												
MH-008-2												
MH-008-3												

NO.	DATE	REVISION	BY	CHKD	APP
1	8-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 40.7 TO MP 46.5

TOWNSHIP T5N, T4N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

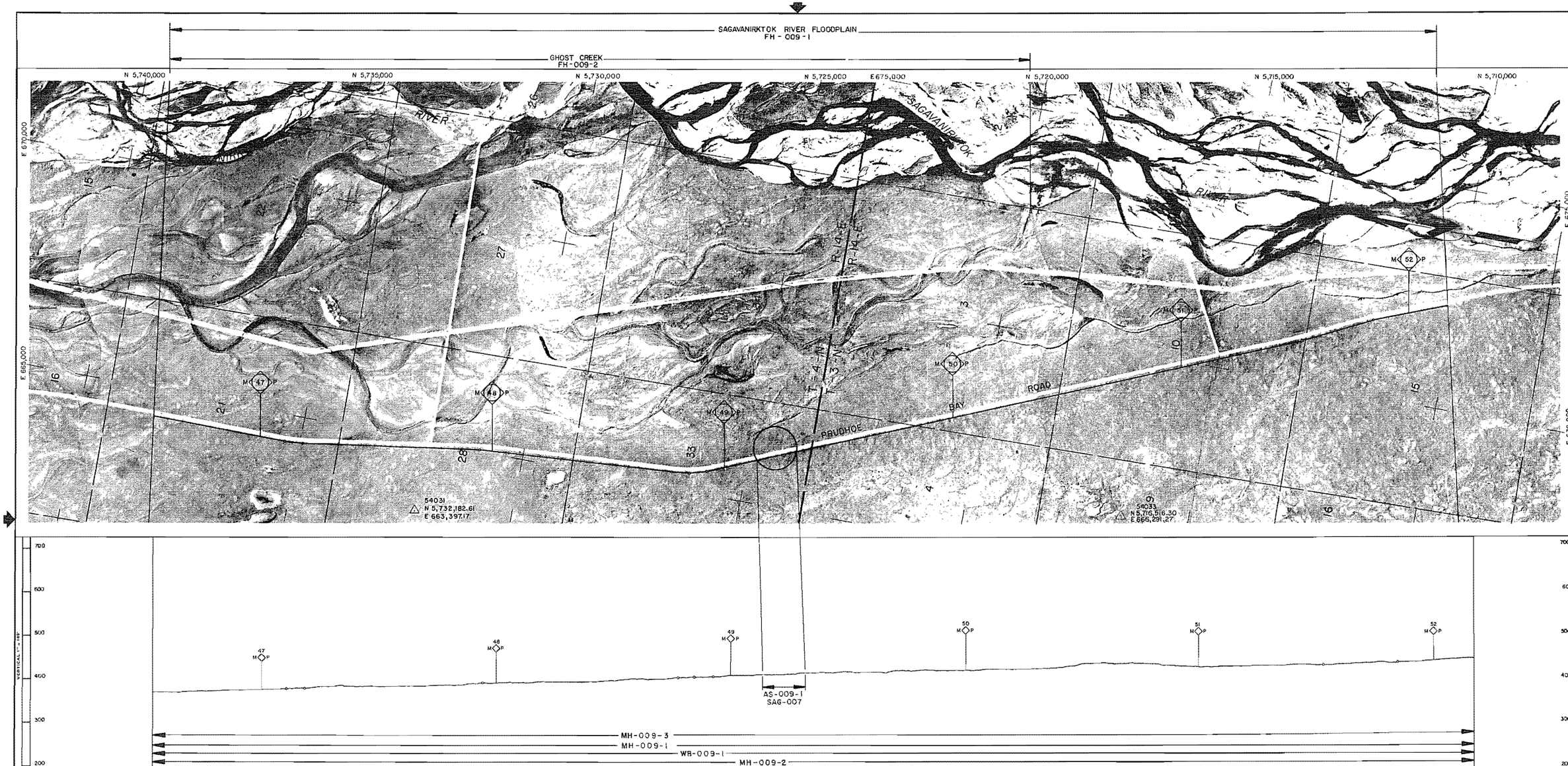
PHOTO APCG	DATE 1978	FLUOR	DATE 4/8/80
	DATE 4/9/80	N.W. ALASKA	DATE 4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-008

REV: 1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-009-1												
FH-009-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-009-1												
MH-009-2												
MH-009-3												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FENCE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 46.5 TO MP 52.2

TOWNSHIP T4N, T3N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	FLUOR	DATE
	[signature]	1978	[signature]	4/2/80
		DATE 4/2/80	N.W. ALASKAN [signature]	DATE 4/2/80

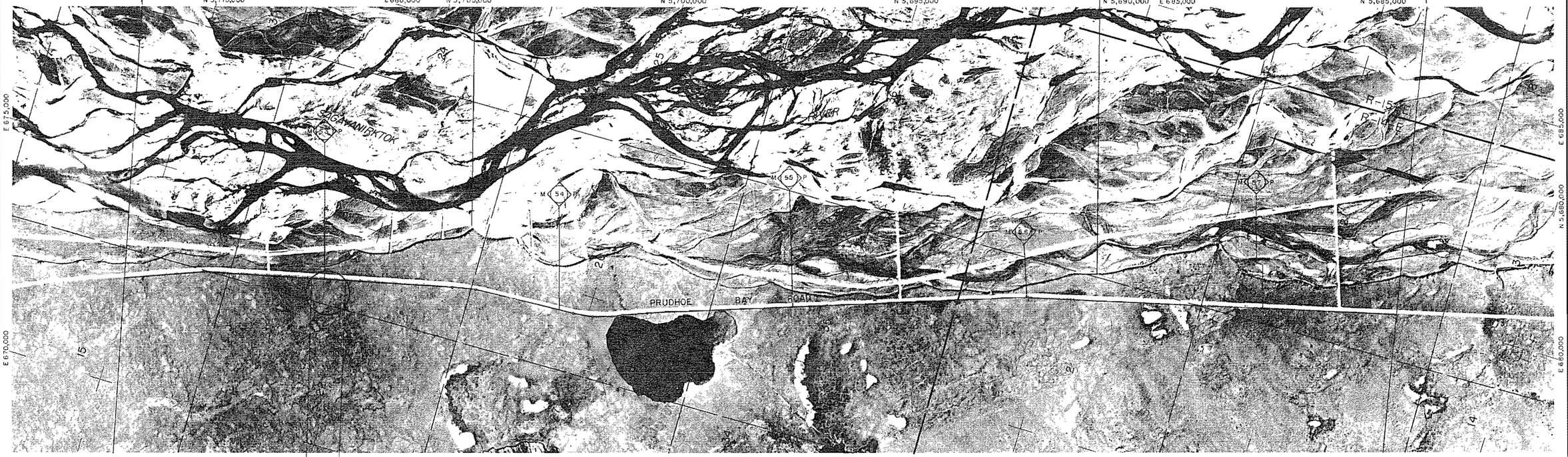
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-009	1

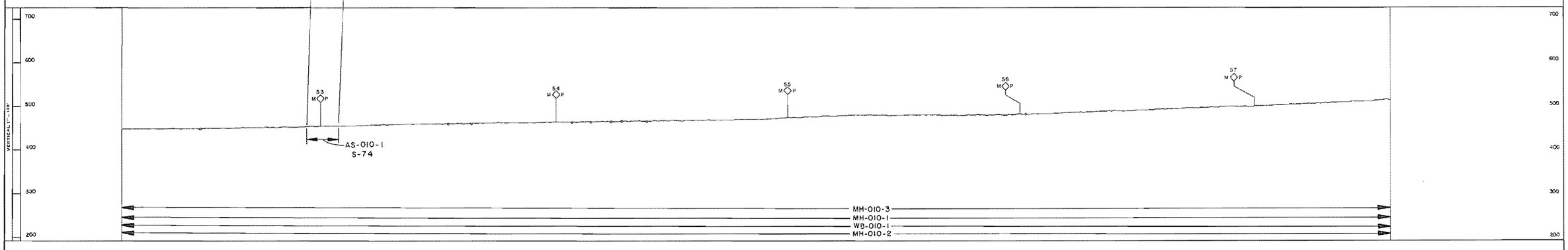
DISTRIBUTION CODE

SAGAVANIRKTOK RIVER
FH-010-1

EXTENSION CREEK
FH-010-2

WOOD CREEK
FH-010-3





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-010-1	----	----	----	----	----	----	----	----	----	----	----	----
FH-010-2					----	----	----	----				
FH-010-3					----	----	----	----				

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-010-1	----	----	----	----	----	----	----		----	----		----
MH-010-2	----	----	----	----	----	----		----	----	----	----	----
MH-010-3	----	----	----	----	----	----			----			----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RE-ISSUED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 52.2 TO MP 57.5

TOWNSHIP T3N, T2N RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1979	FLUOR	DATE 4/2/80
		DATE	1/2/80	HNW ALASKA	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-010

REV.: 1

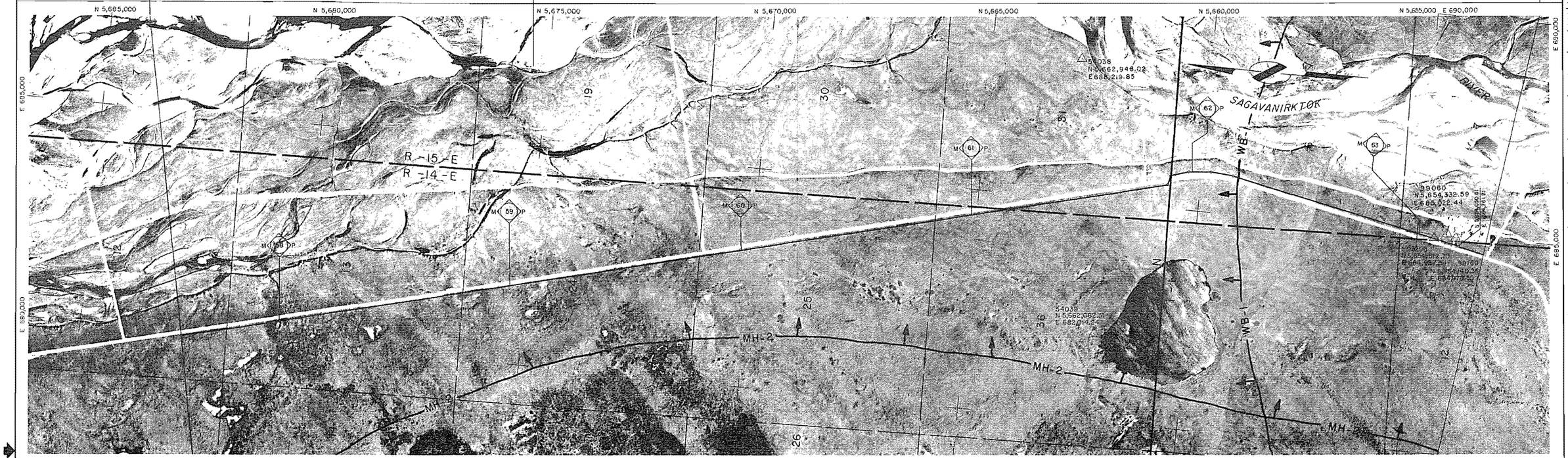
DISTRIBUTION CODE

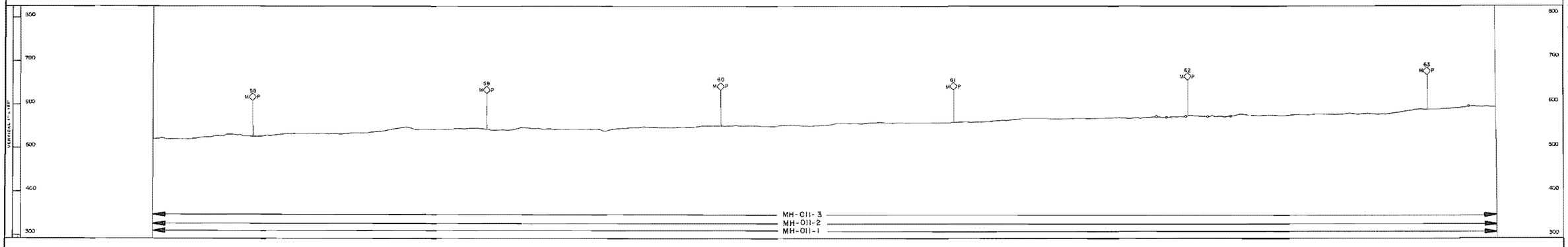
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
AS-011-1 (SAG-004)

WOOD CREEK
FH-011-2

SAGAVANIRKTOK RIVER
FH-011-1





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

——— = *Avoidance Period; Most Activities Prohibited.
- - - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-011-1	- - -	- - -	- - -	- - -	———	———	- - -	- - -	- - -	- - -	- - -	- - -
FH-011-2	- - -	- - -	- - -	- - -	———	———	- - -	- - -	- - -	- - -	- - -	- - -

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-011-1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
MH-011-1	- - -	- - -	- - -	- - -	- - -	———	———	- - -	- - -	- - -	- - -	- - -
MH-011-2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
MH-011-3	- - -	- - -	- - -	- - -	———	———	- - -	- - -	- - -	- - -	- - -	- - -

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 57.6 TO MP 63.3

TOWNSHIP T2N, T1N RANGE R14E, R15E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 4/1/80
		DATE 4/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

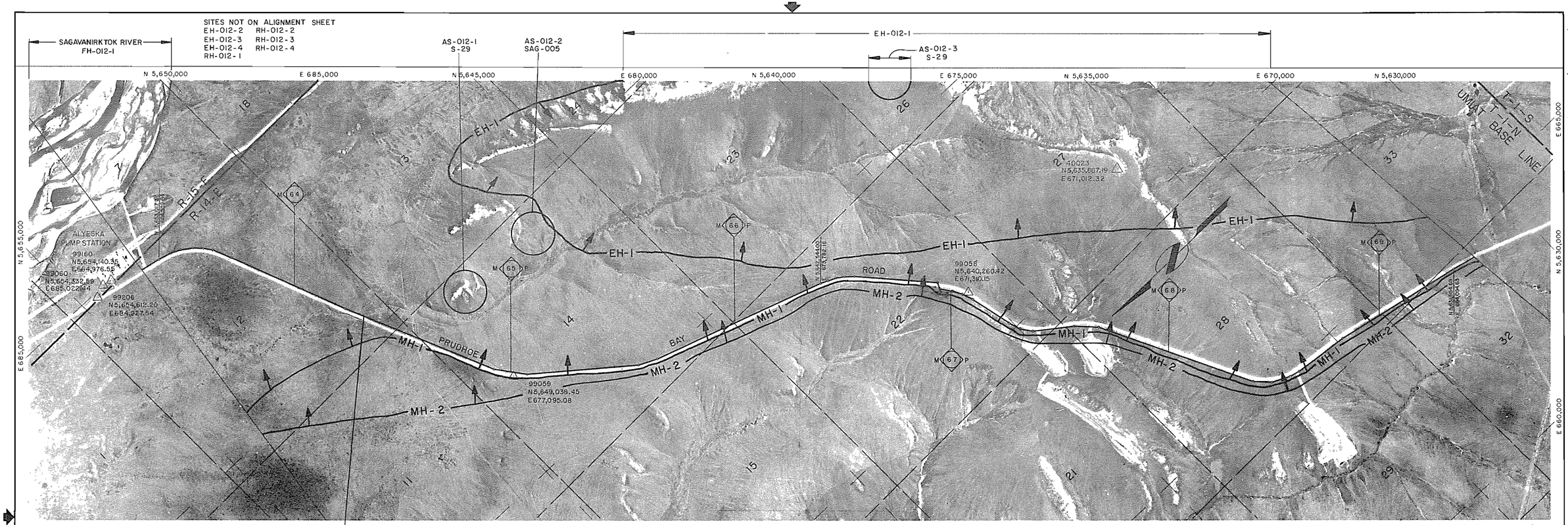
DRAWING NUMBER: 4680-11-00-B-E-011

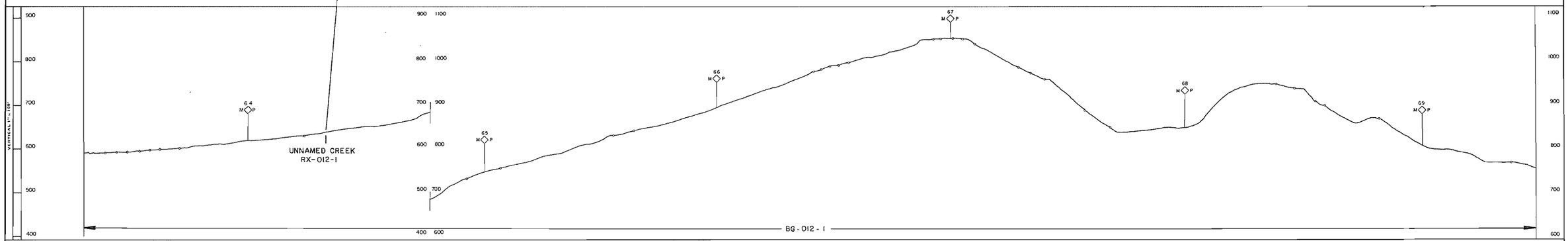
REV. 1

DISTRIBUTION CODE

SITES NOT ON ALIGNMENT SHEET

EH-012-2	RH-012-2
EH-012-3	RH-012-3
EH-012-4	RH-012-4
RH-012-1	





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-012-1	----	----									----	----

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-012-1				----	----	----	----	----				
EH-012-2				----	----	----	----	----				
EH-012-3				----	----	----	----	----				
EH-012-4				----	----	----	----	----				
MH-012-1	----	----	----	----	----				----	----	----	----
MH-012-2	----	----	----	----	----				----	----	----	----
BG-012-1	----	----	----	----	----	----	----		----	----	----	----
RH-012-1				----	----	----	----	----				
RH-012-2				----	----	----	----	----				
RH-012-3				----	----	----	----	----				
RH-012-4				----	----	----	----	----				

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILE POST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 63.3 TO M.P. 69.5

TOWNSHIP T11N, R14E RANGE MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APEG	DATE 1979	FLUOR		DATE 4/7/80
		DATE 4/2/80	NW ALASKAN		DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-C-E-012	1

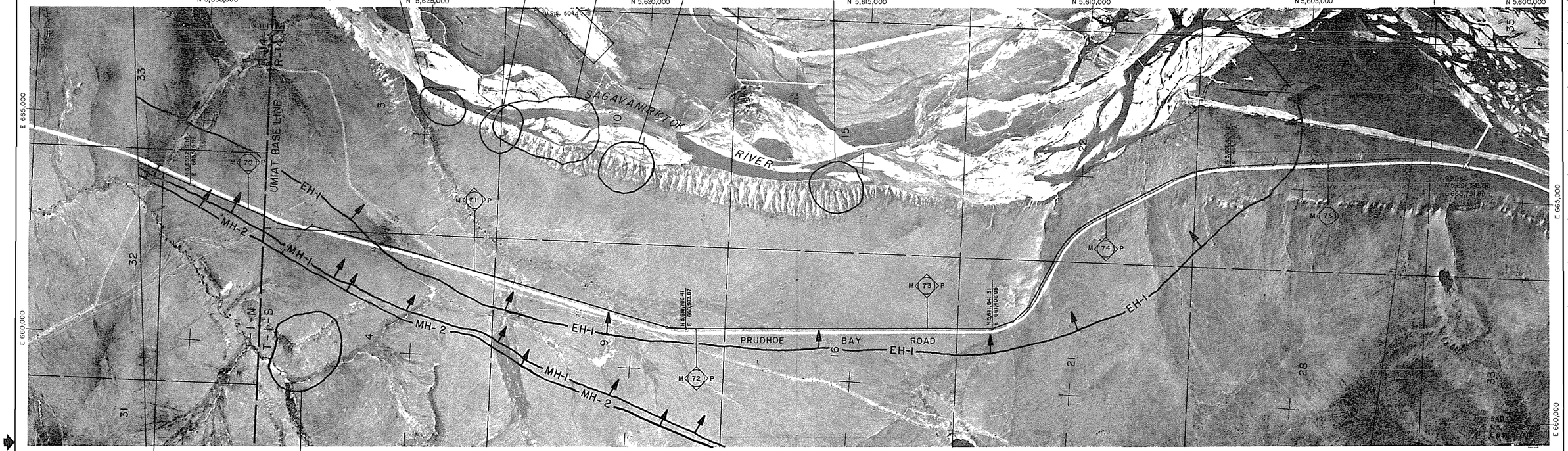
DISTRIBUTION CODE

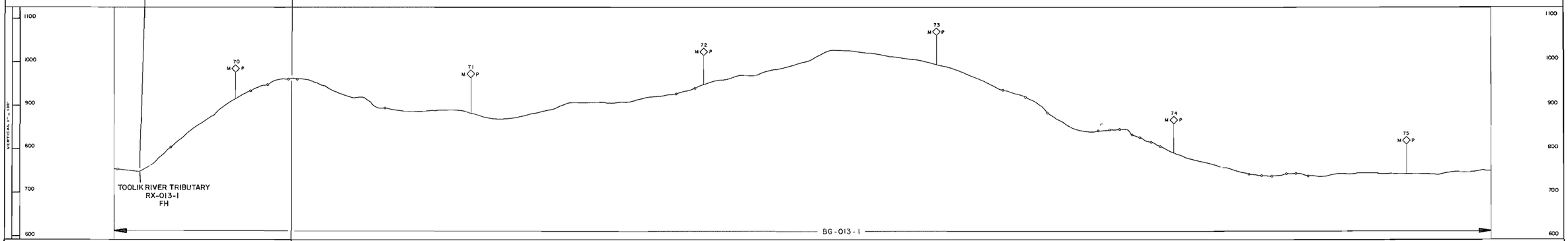
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
AS-013-1 (SAG-003)

SAGAVANIRKTOK RIVER
FH-013-1

RH-013-2 RH-013-3 RH-013-4 RH-013-5 RH-013-6





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
_ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-013-1					_ _	_ _	_ _	_ _				
FH-013-1	___	___	___	___	___	___	___	___	___	___	___	___

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-013-1				_ _	___	___	___					
RH-013-1				___	___	___	___					
MH-013-1	_ _	_ _	_ _	___	___	___	___					
MH-013-2	_ _	_ _	_ _	___	___	___	___					
BG-013-1	_ _	_ _	_ _	___	___	___	_ _		_ _	_ _		_ _
RH-013-2				___	___	___	___					
RH-013-3				___	___	___	___					
RH-013-4				___	___	___	___					
RH-013-5				___	___	___	___					
RH-013-6				___	___	___	___					

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by Land Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 69.5 TO MP 75.3

TOWNSHIP T11N, T10S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1979	FLUOR	E. Dilley	DATE	4/2/80
		DATE	4/2/80	NW ALASKAN	D. Abbott	DATE	4/2/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-11-00-C-E-013 REV. 1

DISTRIBUTION CODE

SAGAVANIRKTOK RIVER
FH-014-1
SAGAVANIRKTOK RIVER SIDE CHANNEL
FH-014-2
RH-014-1



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-014-1					.....	.....	.....	.....				
FH-014-1	____	____	____	____	____	____	____	____	____	____	____	____
FH-014-2	____	____	____	____	____	____	____	____	____	____	____	____

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-014-1				____	____	____	____					
MH-014-1	____	____	____	____	____	____						
MH-014-2	____	____	____	____	____	____			____	____	____	____
BG-014-1							____	____	____	____		

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 75.3 TO MP 81.1

TOWNSHIP T15, T25 RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCO	DATE 1970	FLUOR	DATE 4/8/80	
		DATE 4/1/80	NW ALASKAN	DATE 4/9/80	

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-11-00-B-E-014

REV. 1

DISTRIBUTION CODE

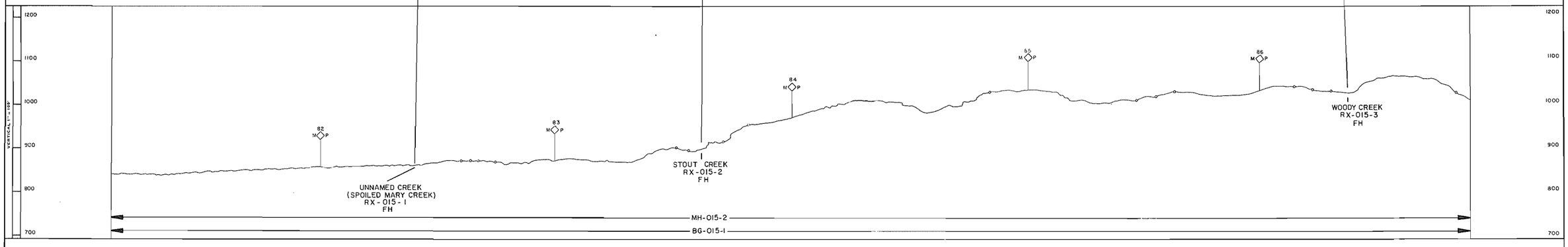
Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
RH-015-1

SAGAVANIRKTOK RIVER
FH-015-1

SAGAVANIRKTOK RIVER SIDE CHANNEL
FH-015-2





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-015-1					___	___	___	___				
RX-015-2					___	___	___	___				
RX-015-3					___	___	___	___				
FH-015-1	____	____	____	____	____	____	____	____	____	____	____	____
FH-015-2					___	___	___	___				

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-015-1				___	___	___	___					
MH-015-1	____	____	____	____	____	____	____	____	____	____	____	____
MH-015-2	____	____	____	____	____	____						____
MH-015-3	____	____	____	____	____	____	____	____	____	____	____	____
BG-015-1	____	____	____	____	____	____	____		____	____	____	____

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 81.1 TO MP 86.9

TOWNSHIP T2S, T3S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCG	DATE 1978	FLUOR	DATE 4/30
	DATE 4/21/80	NW ALASKAN	DATE 4/21/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-11-00-B-E-015

REV. 1

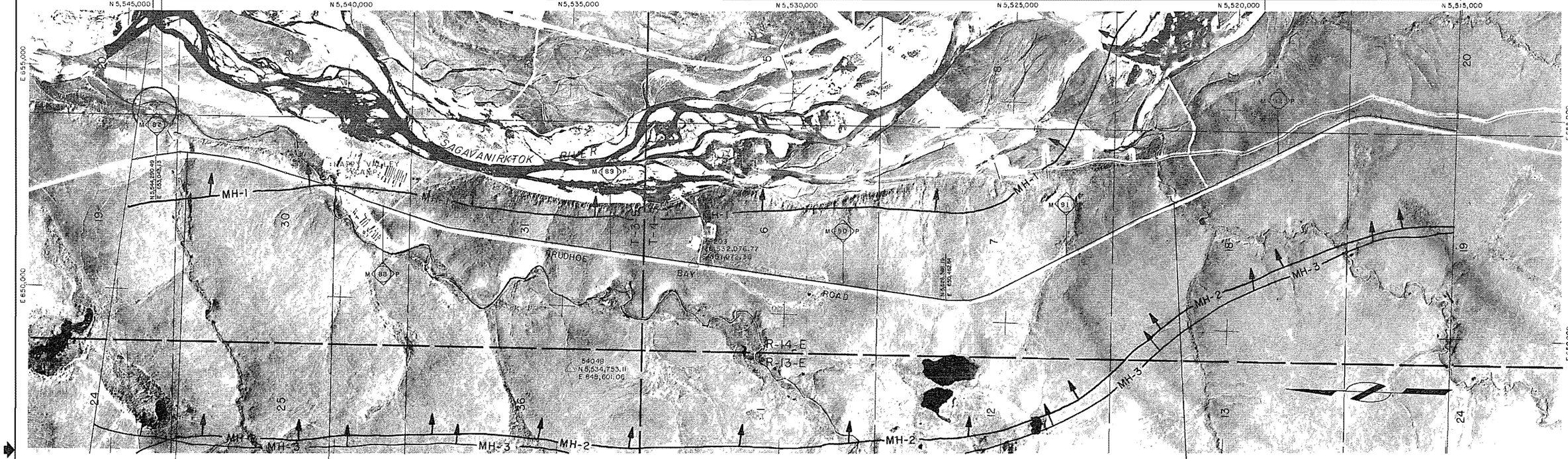
DISTRIBUTION CODE

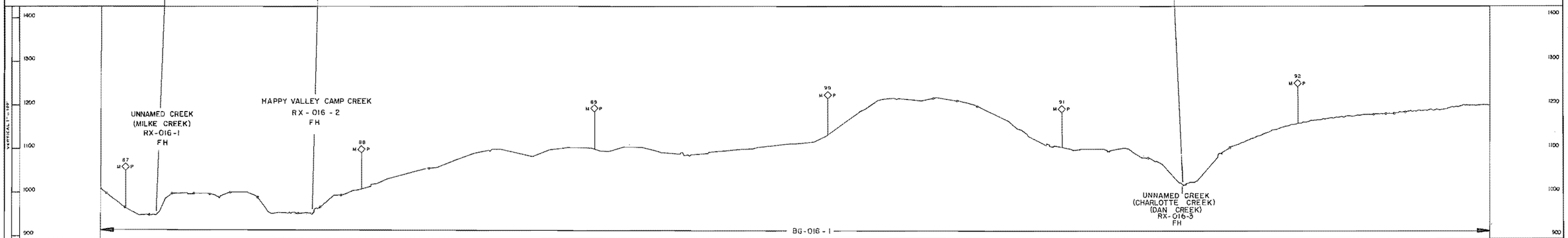
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SCALE 1:1000

SAGAVANIRKTOK RIVER
FH-016-1

AS-016-1
SAG-006





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-016-1					----	----	----	----				
RX-016-2					----	----	----	----				
RX-016-3					----	----	----	----				
FH-016-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-016-1	----	----	----	----					----	----	----	----
MH-016-2	----	----	----	----	----	----			----	----	----	----
MH-016-3	----	----	----	----	----	----			----	----	----	----
BG-016-1	----	----	----	----	----	----	----	----	----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR ENG'G FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 86.9 TO MP 92.8

TOWNSHIP T3S, T4S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 4/2/80
		DATE 4/2/80	NW. ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

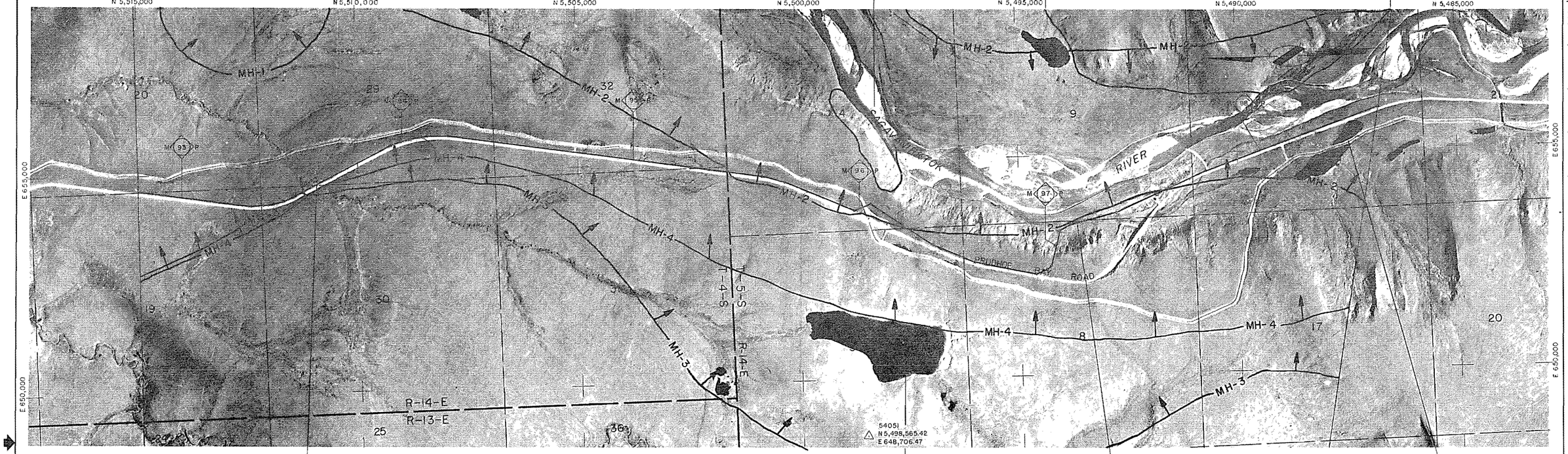
DRAWING NUMBER: 4680-11-00-B-E-016

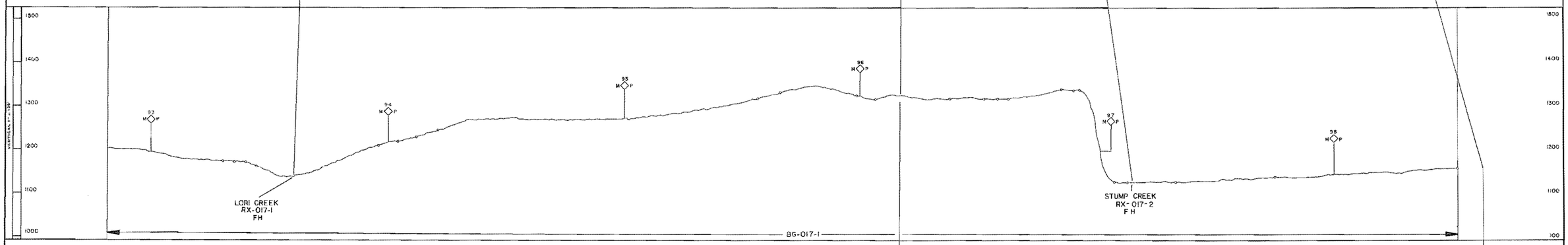
REV. 1

DISTRIBUTION CODE

SAGAVANIRKTOK RIVER
FH-017-1

RH-017-1 | RH-017-2





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.

_ _ _ _ = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-017-1												
RX-017-2												
FH-017-1												
FH-017-2												
FH-017-3												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-017-1												
RH-017-2												
BG-017-1												
MH-017-1												
MH-017-2												
MH-017-3												
MH-017-4												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 92.8 TO MP 98.5

TOWNSHIP T4S, T5S RANGE R14E MERIDIAN UMIAT

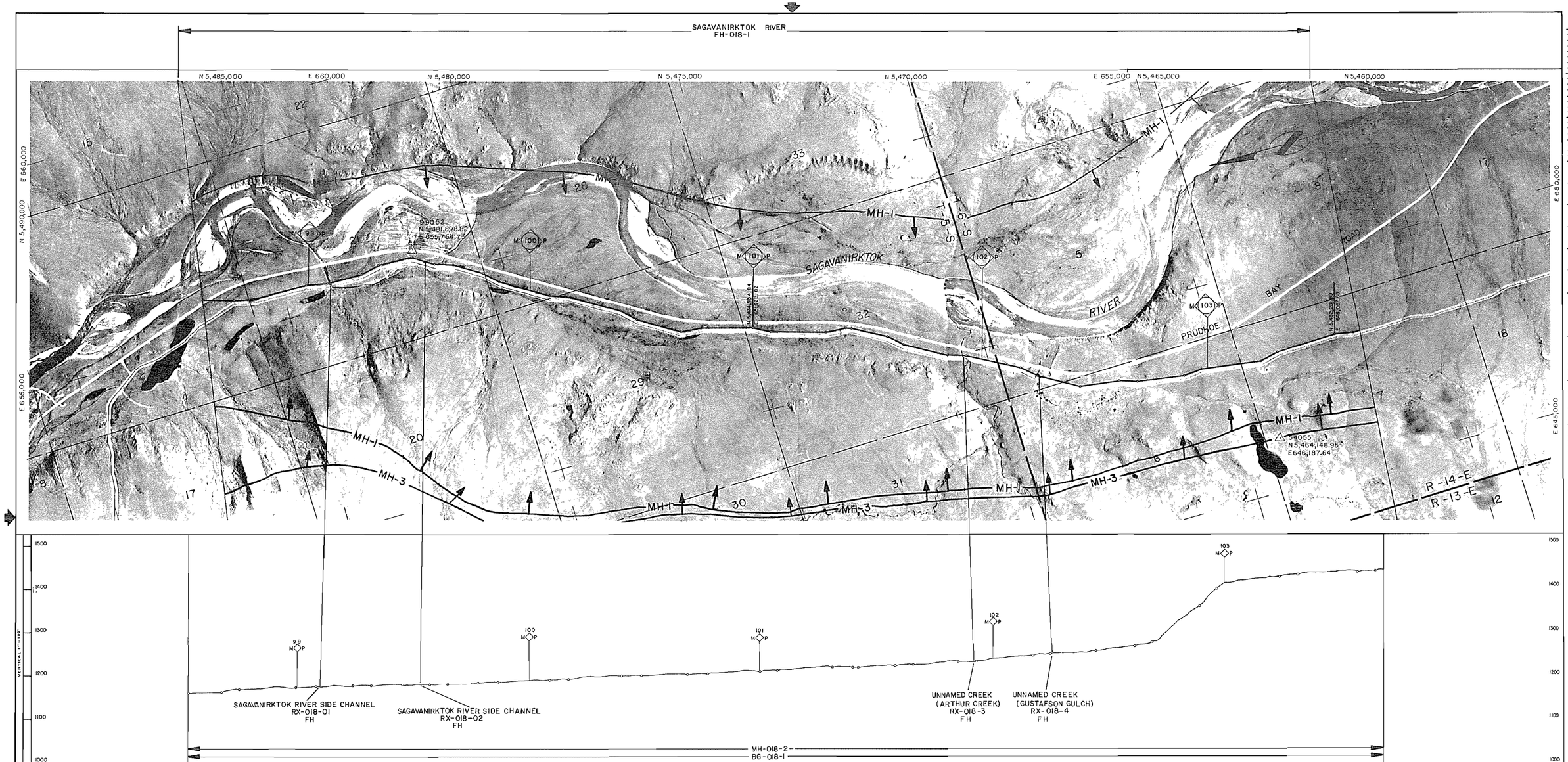
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1979	FLUOR	DATE 4/2/80
		DATE 4/2/80	N.W. ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-017 REV. 1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-018-1												
RX-018-2												
RX-018-3												
RX-018-4												
FH-018-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-018-1												
MH-018-1												
MH-018-2												
MH-018-3												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing-document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 98.5 TO MP 103.7

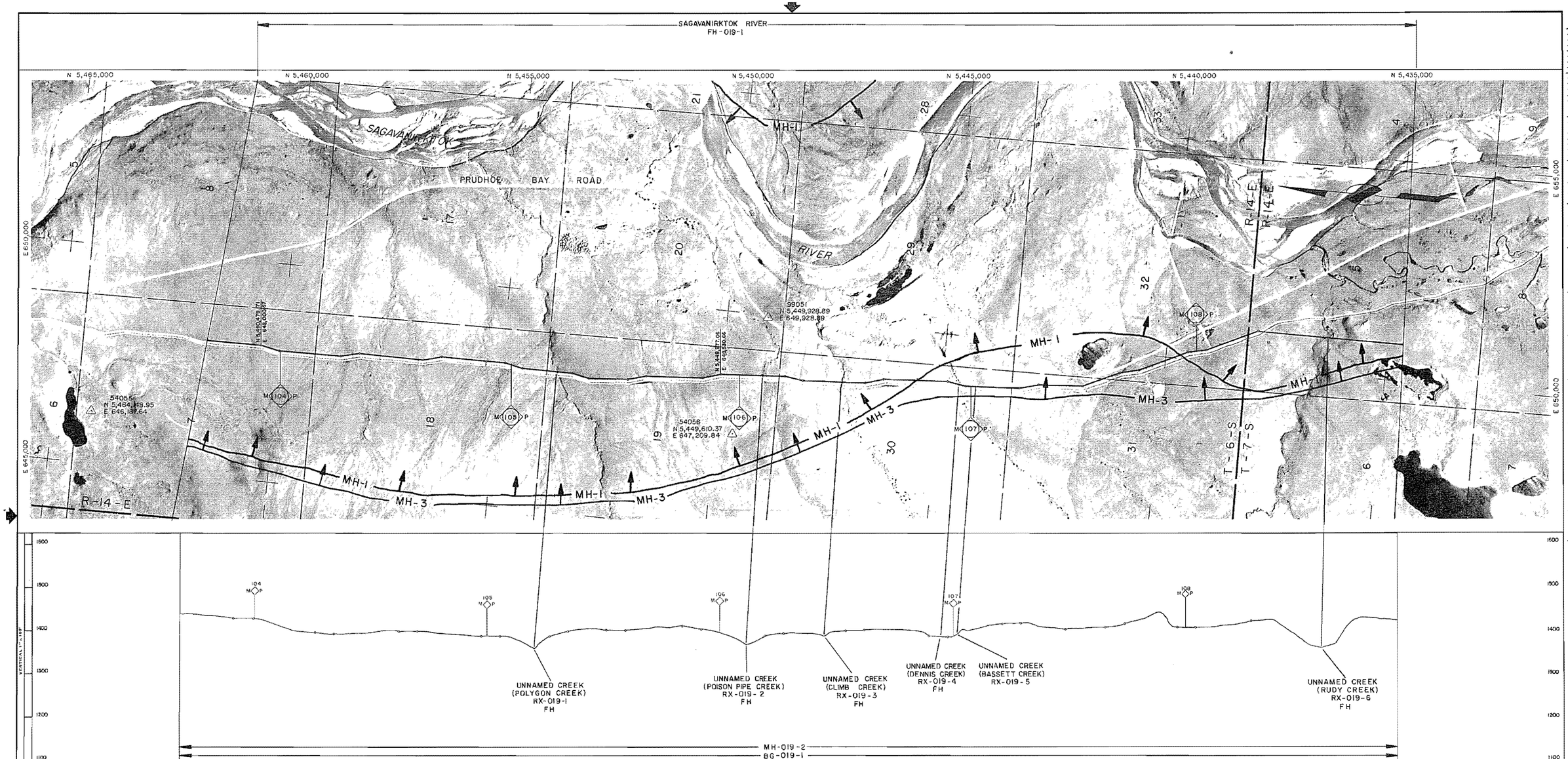
TOWNSHIP T5S, T6S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/2/80
	James Webb	DATE 4/2/80		N.W. ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-018	1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-019-1												
RX-019-2												
RX-019-3												
RX-019-4												
RX-019-6												
FH-019-1												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-019-1												
MH-019-1												
MH-019-2												
MH-019-3												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 103.7 TO MP 108.9

TOWNSHIP T6S, T7S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

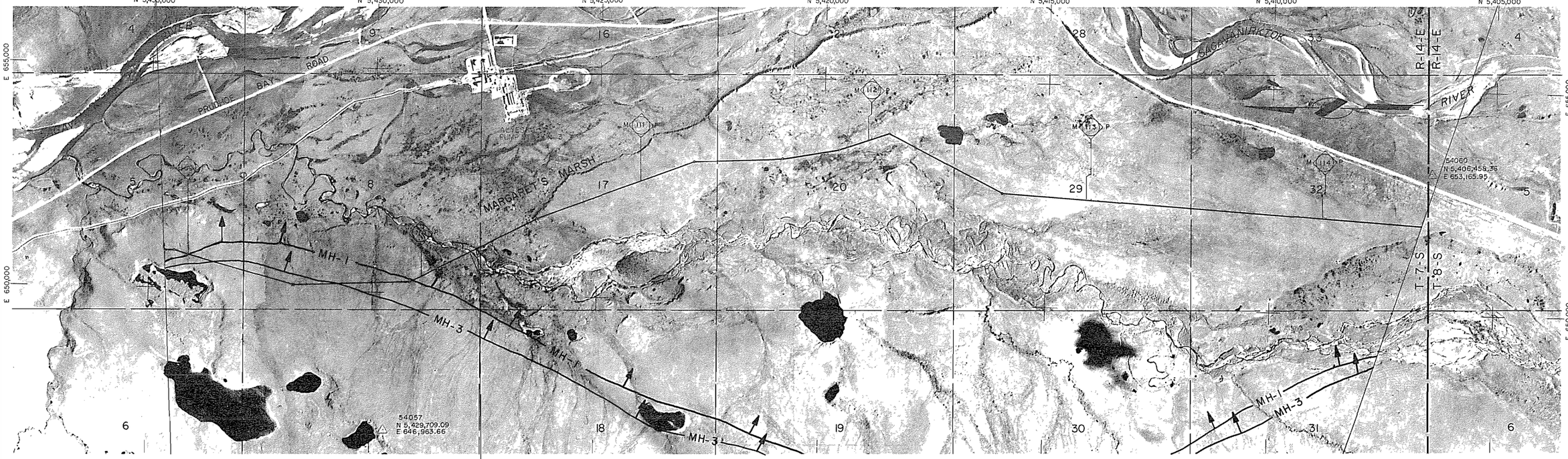
PHOTO	AFCG	DATE	1978	FLUOR	R. Sibley	DATE	4/2/80
	James P. Wilson	DATE	4/2/80	N.W. ALASKAN	D. Barron	DATE	4/2/80

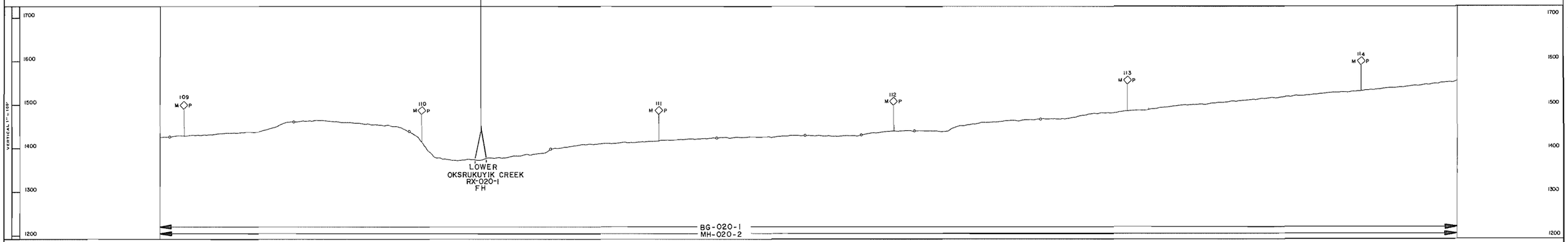
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-11-00-B-E-019	1

DISTRIBUTION CODE

SITES NOT ON ALIGNMENT SHEET
AS-020-1 (PSM-060)

SAGAVANIRKTOK RIVER
FH-020-1





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-020-1					----	----	----	----	----	----		
FH-020-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-020-1	----	----	----	----	----	----				----	----	----
BG-020-1	----	----	----	----	----	----	----			----	----	----
MH-020-1	----	----	----	----	----	----			----	----	----	----
MH-020-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-020-3	----	----	----	----	----	----			----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FENCE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained on this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 108.9 TO MP 114.4

TOWNSHIP T7S RANGE R14E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/8/80
		DATE	4/7/80	N.W. ALASKAN	DATE 4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-020 REV. 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SAGAVANIRKTOK RIVER
FH-021-1

AS-021-1
PSM-057

AS-021-2
PSM-073

AS-021-3
PSM-072

AS-021-4
PSM-050
GALLAGER FLINT STATION

AS-021-5
PSM-006

N 5,405,000 E 655,000 N 5,400,000 E 650,000 N 5,395,000 N 5,390,000 E 645,000 N 5,385,000 E 640,000 N 5,380,000

E 655,000 N 5,400,000 E 650,000

BRUDHOE BAY ROAD

MH-1 MH-2 MH-3

M 116 P M 117 P M 118 P M 119 P

54061
N 5,398,302.50
E 646,426.36

T 8 S
T 7 S
R 14 E
R 15 E

33 32 3 4 5 6 1 2 12 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

E 650,000 N 5,410,000 E 655,000 E 660,000 N 5,380,000 E 630,000

THIELE'S TRICKLE
RX-021-1

M 115 P M 116 P M 117 P M 118 P M 119 P

2000 1900 1800 1700 1600 1500

VERTICAL 1" = 100'

MH-021-3
BG-021-1

AS-021-6
PSM-078

SCALE 1" = 1000'

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-021-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-021-1	----	----	----	----	----	----	----	----	----	----	----	----
AS-021-4	----	----	----	----	----	----	----	----	----	----	----	----
BG-021-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-021-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-021-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-021-3	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		"RELEASED FOR FINAL FILING"			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 114.4 TO MP 119.8

TOWNSHIP T8S RANGE R14E, R13E MERIDIAN UMIAT

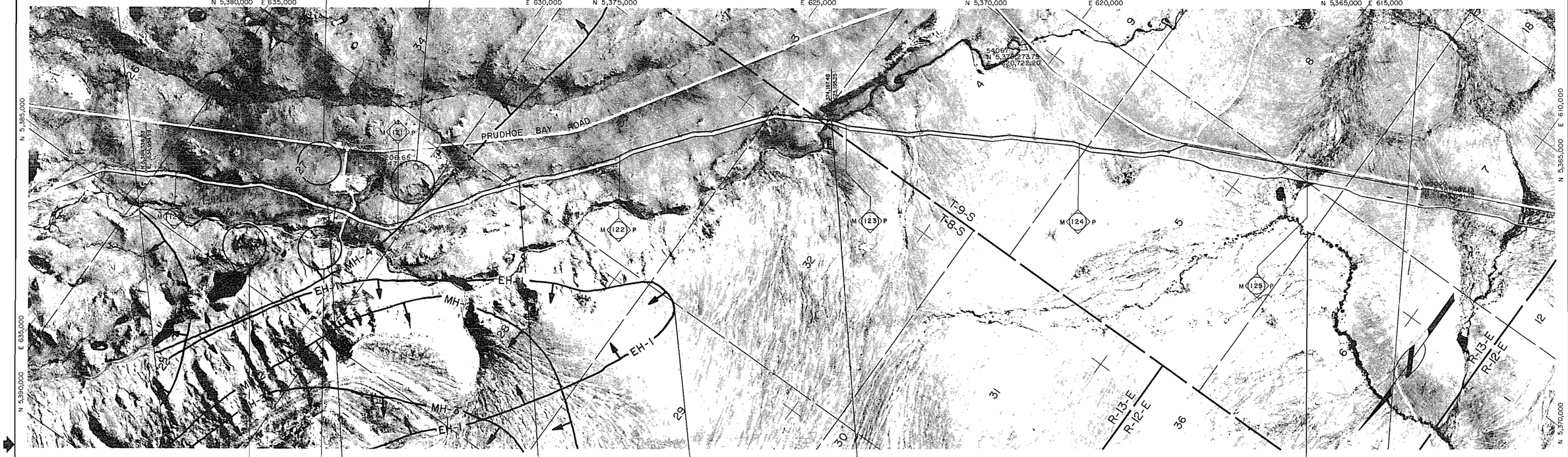
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR	DATE 4/2/80
APCG	DATE 4/2/80	NW. ALASKA	DATE 4/2/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-11-00-B-E-021 REV 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-022-1					----	----	----	----	----	----		
RX-022-3					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-022-1					----	----	----	----	----	----		
MH-022-2	----	----	----	----	----	----				----	----	----
MH-022-3	----	----	----	----	----	----				----	----	----
AS-022-1	----	----	----	----	----						----	----
BG-022-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-022-1	----	----	----	----								----
MH-022-4	----	----	----	----	----	----	----	----	----	----	----	----
MH-022-5	----	----	----	----	----	----	----	----	----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 119.8 TO M.P.125.4

TOWNSHIP T8S , T9S RANGE R13E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	K. Dillon	DATE	4/28/80
		DATE	4/2/80	N.W. ALASKAN		DATE	4/4/80

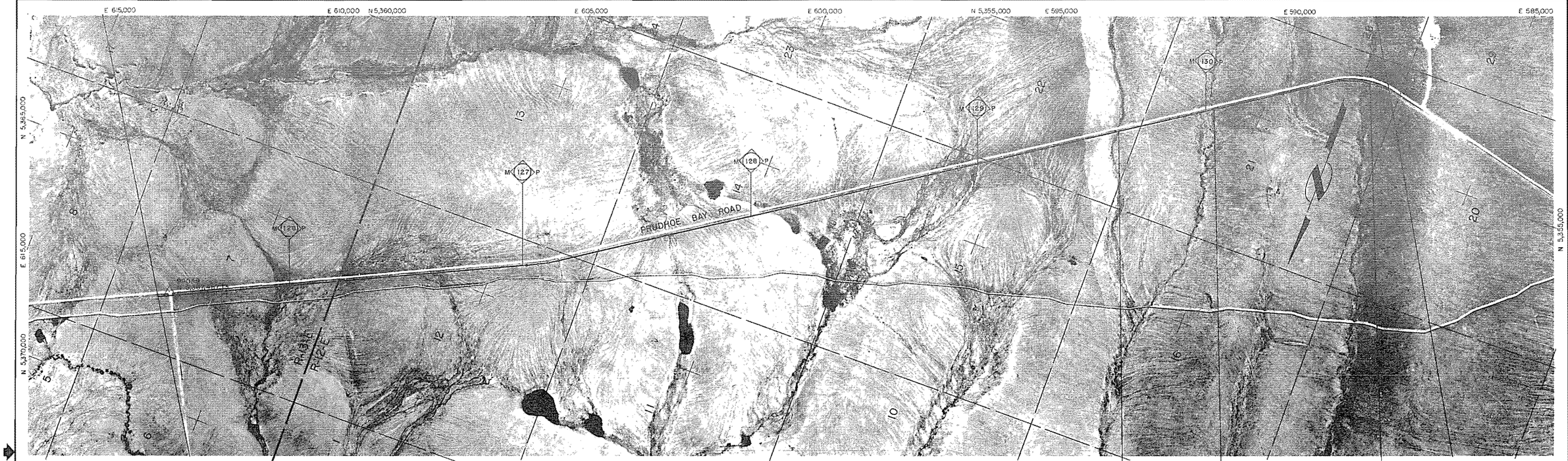
SCALE IN FEET: 1" = 1000'

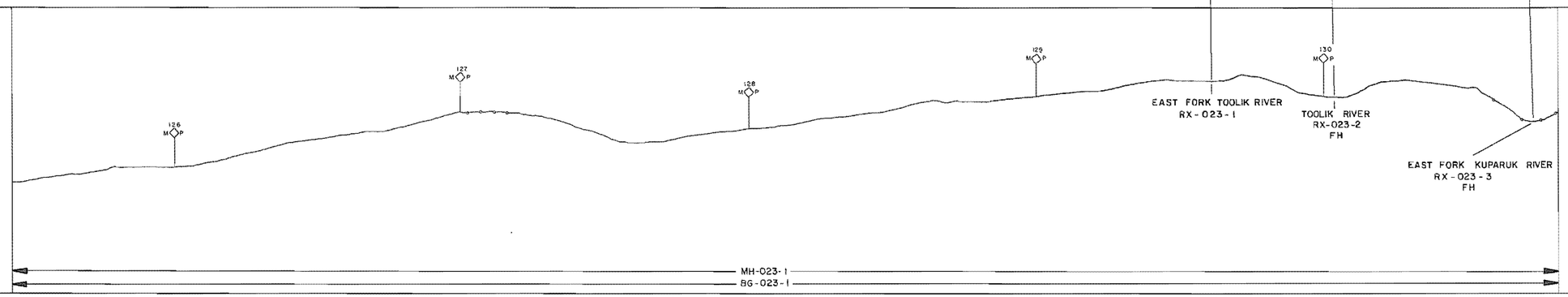
DRAWING NUMBER: 4680-11-00-B-E-022

REV.: 1

DISTRIBUTION CODE

Prepared By: ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

*Refer to the Environmental Master Guide Text for details and documentation.

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-023-2					_ _	_ _	_ _	_ _	_ _	_ _		
RX-023-3					_ _	_ _	_ _	_ _	_ _	_ _		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-023-1	____	____	____	____	____	____			____	____		____
MH-023-1	____	____	____	____	____	____			____	____		____

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 126.4 TO M.P 130.9

TOWNSHIP T9S RANGE R13E, R12E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

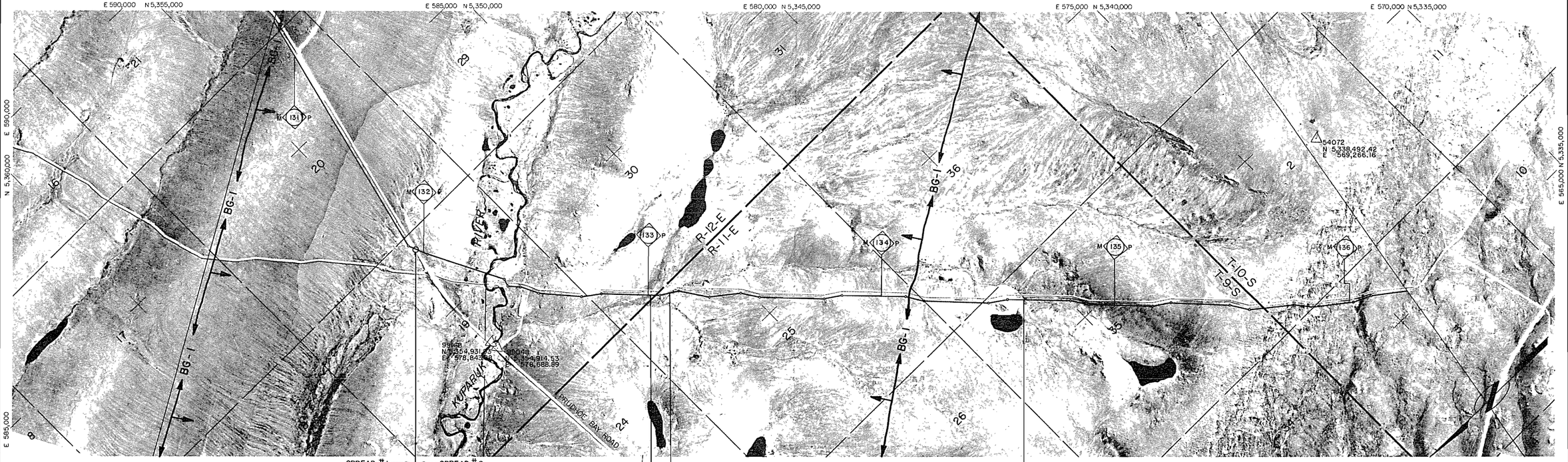
PHOTO	APPD	DATE	FLUOR	DATE
		1979	L. Dilley	4/7/80
Willie Hildebrandt		DATE 4/7/80	N.W. ALASKAN D. Bassett	DATE 4/21/80

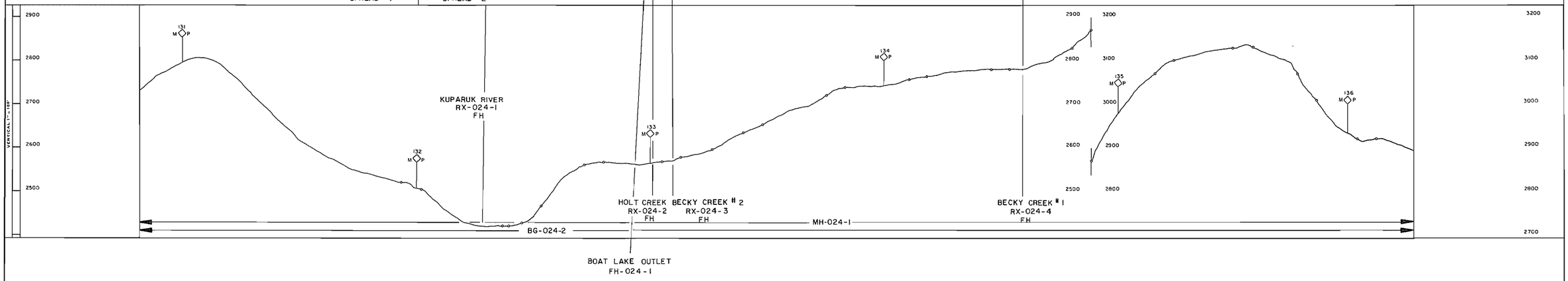
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-11-00-B-E-023

REV: 1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-024-1					-----	-----	-----	-----				
RX-024-2					-----	-----	-----	-----				
RX-024-3					-----	-----	-----	-----				
RX-024-4					-----	-----	-----	-----				
FH-024-1					-----	-----	-----	-----				

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-024-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BG-024-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MH-024-1	-----	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by sa d Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 130.8 TO MP 136.3

TOWNSHIP T9S, T10S RANGE R12E, R11E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCO	DATE	1978	FLUOR	DATE 4/2/80
		DATE	4/2/80	N.W. ALASKAN	DATE 4/2/80

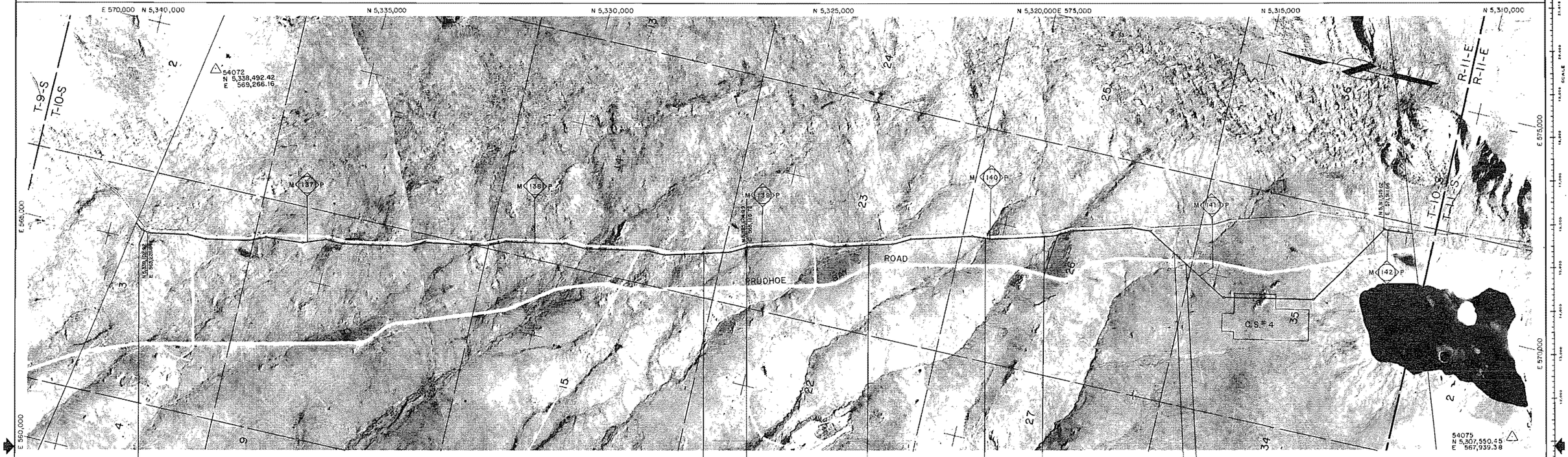
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-12-00-B-E-024

REV.: 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Mastor Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-025-1					---	---	---	---	---	---		
RX-025-4					---	---	---	---	---	---		
RX-025-5					---	---	---	---	---	---		
RX-025-6					---	---	---	---	---	---		
RX-025-8					---	---	---	---	---	---		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-025-1	---	---	---	---	---	---	---		---	---		---
MH-025-1	---	---	---	---	---	---			---	---		---

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is obtained to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 136.2 TO MP 142.1

TOWNSHIP T10S, T11S RANGE R11E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR R. Sibley	DATE 4/7/80
		DATE 4/2/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-12-00-B-E-025

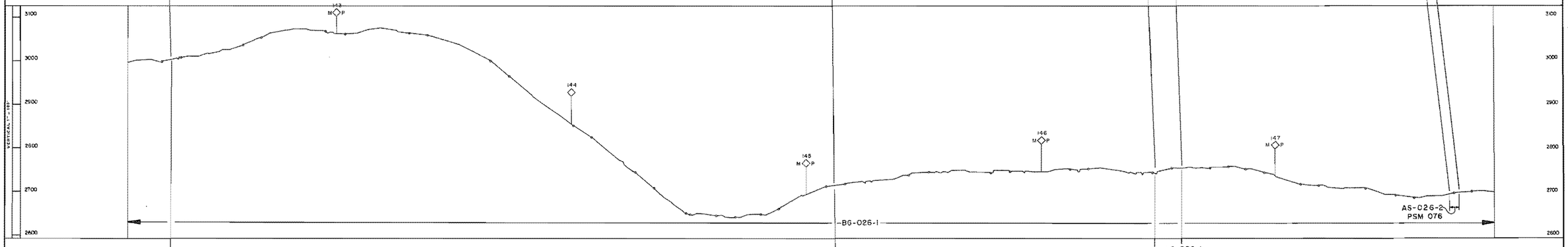
REV. 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SCALE





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

——— = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-026-1					-----	-----	-----	-----	-----	-----		
FH-026-2					-----	-----	-----	-----	-----	-----		
FH-026-3					-----	-----	-----	-----	-----	-----		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-026-1	———	———	———	———	———	———			-----	-----	-----	-----
MH-026-2	———	———	———	———	———	———			-----	-----	-----	-----
AS-026-2	———	———	———	———	———	———	———	———	———	———	———	———
BG-026-1	———	———	———	———	———	———	———	———	-----	-----	-----	-----
MH-026-3	———	———	———	———	———	———			-----	-----	-----	-----
MH-026-4					-----	-----	-----	-----				

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 142.1 TO M.P 148.0

TOWNSHIP T10S, T11S RANGE R11E, R12E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCO	DATE 1978	FLUOR	DATE 4/31/80
	DATE 4/8/80		N.W. ALASKAN	DATE 4/5/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-12-00-B-E-026	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

AS-027-3 PSM-077
AS-027-2 PSM-075
AS-027-4 PSM-036
AS-027-7 PSM-049

N 5,285,000 E 590,000 N 5,280,000 N 5,275,000 N 5,270,000 N 5,265,000 E 595,000 N 5,260,000

E 585,000 E 580,000 N 5,255,000 E 595,000 E 590,000

MH-1 MH-2 MH-3 MH-4

M 148 P M 149 P M 150 P M 151 P M 152 P M 153 P

29 28 30 31 6 5 9 16 17 20 21

R 12 E R 13 E

ATIGUN RIVER

ATIGUN PUMP STATION

DALTON HIGHWAY

LAKE

54 N 99,439.94 E 86,167.57

SCALE

VERTICAL 1" = 1000'

3000 2900 2800 2700 2600 2500

AS-027-1 PSM-074
ATIGUN RIVER RX-027-1 FH
AS-027-5 PSM-067
AS-027-6 PSM-112
MOSQUITO LAKE FH-027-2
MOSQUITO LAKE OUTLET FH-027-3
TEE LAKE OUTLET FH-027-4
TEE LAKE FH-027-5
AS-027-8 PSM-066
TEE LAKE INLET FH-027-6
AS-027-9 PSM-055
AS-027-10 PSM-019
AS-027-11 PSM-068
AS-027-12 PSM-065
TAD CREEK RX-027-2 FH
AS-027-13 PSM-22
HOLDEN CREEK RX-027-3 FH
VANISH CREEK FH-027-7
MACKINAW LAKE FH-027-8
AS-027-14 PSM-021
LEENTHA CREEK RX-027-4 FH
MAINLINE SPRING RX-027-5 FH
AS-027-15 S-62
BG-027-1
ATIGUN RIVER FH-027-1

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-027-1					---	---	---	---	---	---	---	---
FH-027-2					---	---	---	---	---	---	---	---
FH-027-3					---	---	---	---	---	---	---	---
FH-027-4					---	---	---	---	---	---	---	---
FH-027-5					---	---	---	---	---	---	---	---
FH-027-6					---	---	---	---	---	---	---	---
FH-027-7					---	---	---	---	---	---	---	---
FH-027-8					---	---	---	---	---	---	---	---
RX-027-1					---	---	---	---	---	---	---	---
RX-027-2					---	---	---	---	---	---	---	---
RX-027-3					---	---	---	---	---	---	---	---
RX-027-4					---	---	---	---	---	---	---	---
RX-027-5					---	---	---	---	---	---	---	---

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-027-1					___	___					___	___
AS-027-2					___	___					___	___
AS-027-3					___	___					___	___
AS-027-4					___	___					___	___
AS-027-5					___	___					___	___
AS-027-6					___	___					___	___
AS-027-7					___	___					___	___
BG-027-1					___	___				___	___	___
MH-027-1					___	___					___	___
MH-027-2					___	___						
MH-027-3					___	___					___	___

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

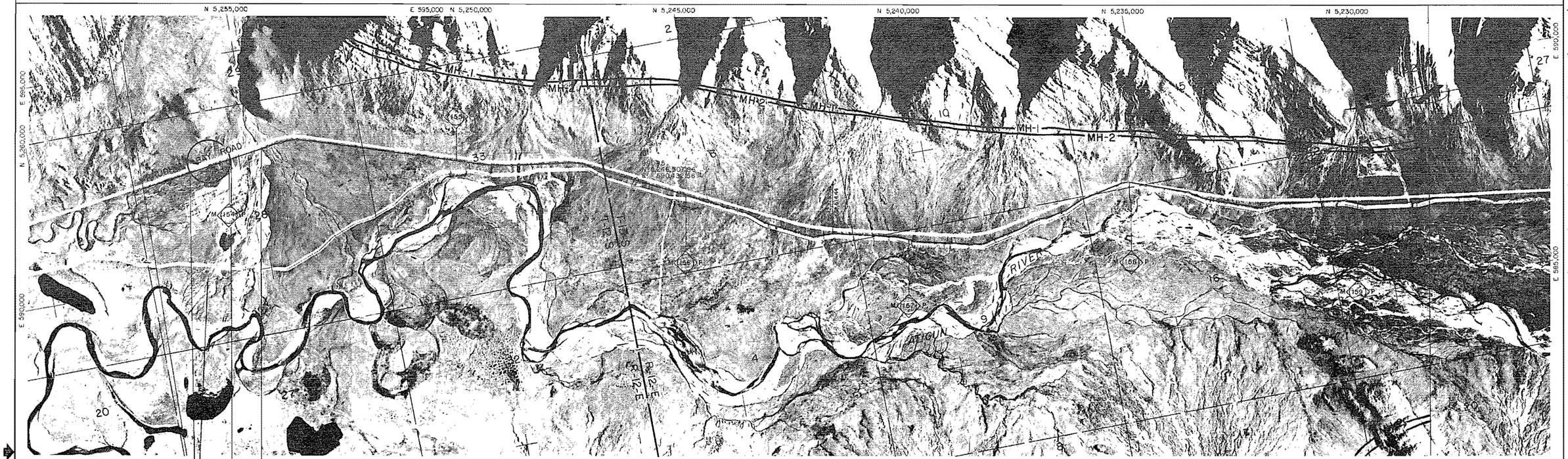
MP 148.0 TO MP 153.6

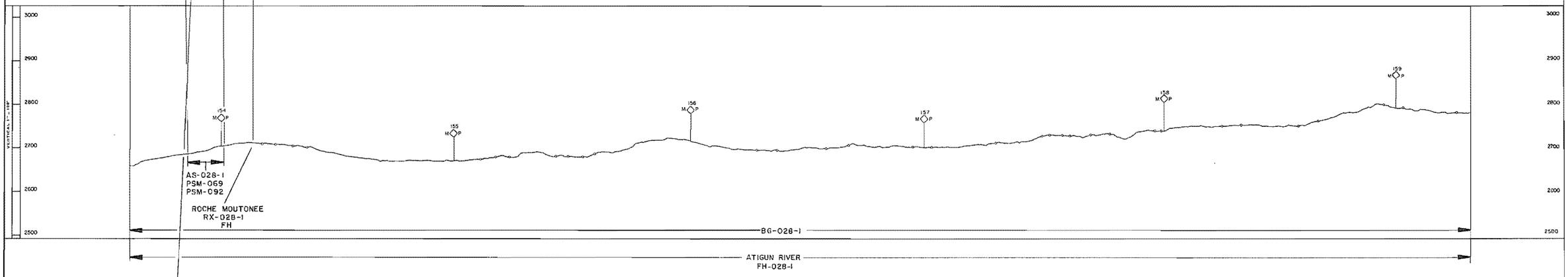
TOWNSHIP T11S, T12S RANGE R12E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPD.	DATE 1978	FLUOR APPD.	DATE 6-4-80
ENGR.	DATE 4/3/80	NW ALASKAN APPD.	DATE 4/7/80
SCALE IN FEET	DRAWING NUMBER		REV.
1" = 1000'	4680-12-00-B-E-027		1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.

---- = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-028-1					----	----	----	----	----	----		
FH-028-1					----	----	----	----	----	----	----	----
FH-028-2					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-028-1	----	----	----	----	----	----				----	----	----
MH-028-2	----	----	----	----	----	----			----			
AS-028-1	----	----	----	----	----	----	----	----	----	----	----	----
BG-028-1	----	----	----	----	----	----	----	----	----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FURC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 153.6 TO M.P. 159.3

TOWNSHIP T12S, T13S RANGE R12E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR R Baker	DATE 7-1-80
APPD James R. Mitchell	DATE 4/3/80	NW. ALASKAN Robert	DATE 7/7/80

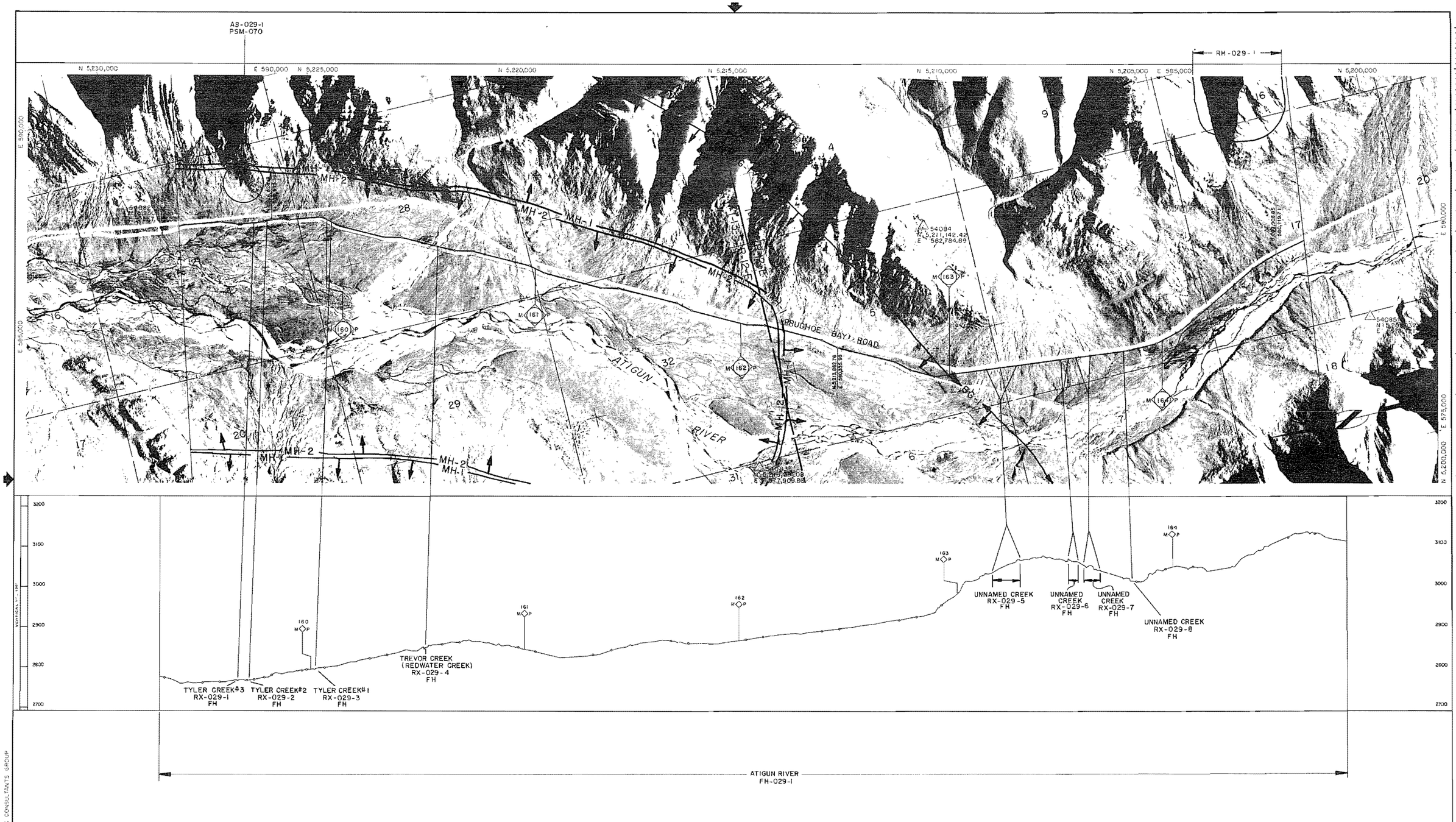
SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-12-00-B-E-028

REV. 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
_____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-029-1												
RX-029-2												
RX-029-3												
RX-029-4												
RX-029-5												
RX-029-6												
RX-029-7												
RX-029-8												
FH-029-1												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-029-1												
BG-029-1												
MH-029-1												
MH-029-2												
RH-029-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MP 1 FOLD			
		RELEASED FOR CONSTRUCTION			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be valid, legal and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Alaska Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 159.3 TO MP 164.8

TOWNSHIP T13S, T14S RANGE R12E MERIDIAN UMIAT

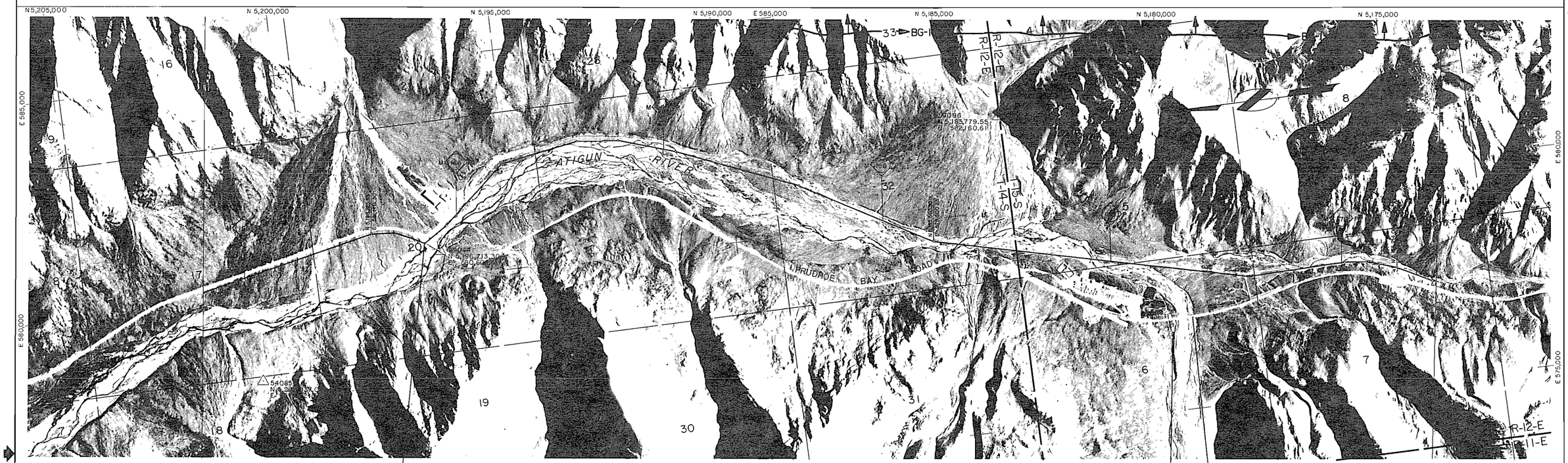
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

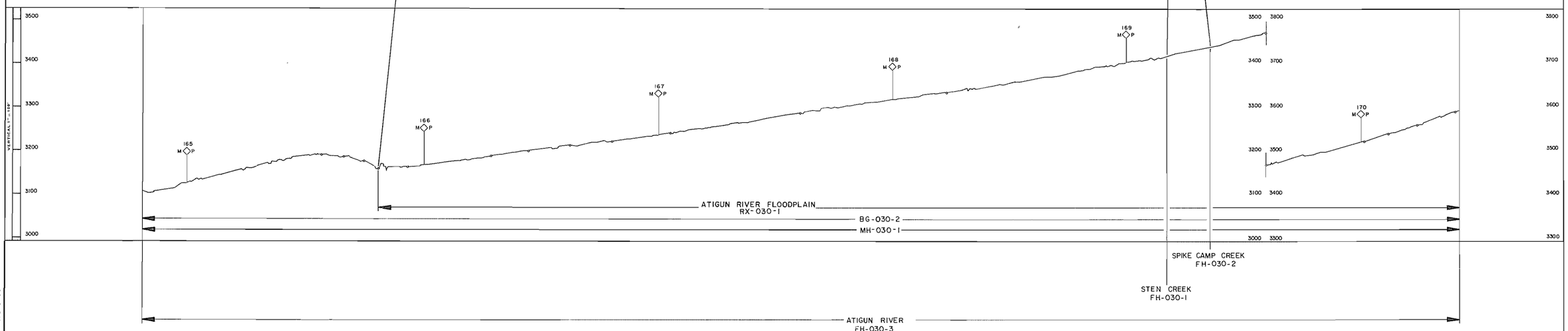
PHOTO	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/4/80
[signature]	DATE 4 3 80	N W ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-12-00-B-E-029	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-030-1					----	----	----	----	----	----	----	----
FH-030-2					----	----	----	----	----	----	----	----
FH-030-3					----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-030-1	----	----	----	----	----	----			----	----	----	----
BG-030-1	----	----	----	----	----	----			----	----	----	----
BG-030-2				____					----			

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 164.8 TO MP 170.4

TOWNSHIP T14S, T15S RANGE R12E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCG	DATE 1978	FLUOR [illegible]	DATE 4/4/80
[illegible]	DATE 4/3/80	N.W. ALASKAN [illegible]	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-12-00-B-E-030

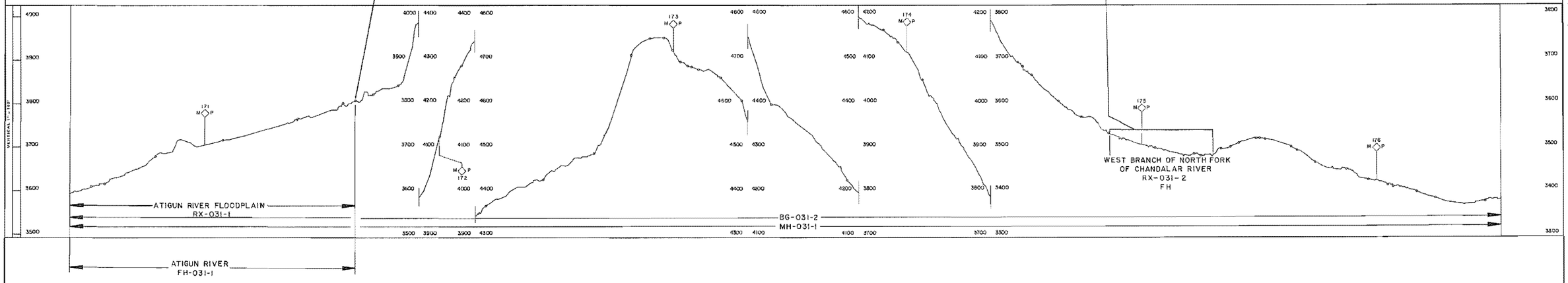
REV.: 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

AS-031-1
PSM-008





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-031-2					-----	-----	-----	-----	-----	-----		
FH-031-1					-----	-----	-----	-----	-----	-----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-031-1				-----	-----	-----				-----	-----	-----
BG-031-1				-----	-----	-----				-----	-----	-----
BG-031-2					-----				-----	-----		

NO	DATE	REVISION	BY	CHK'D	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license for use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 170.4 TO M P 176.5

TOWNSHIP T15S T16S RANGE R1E R2E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

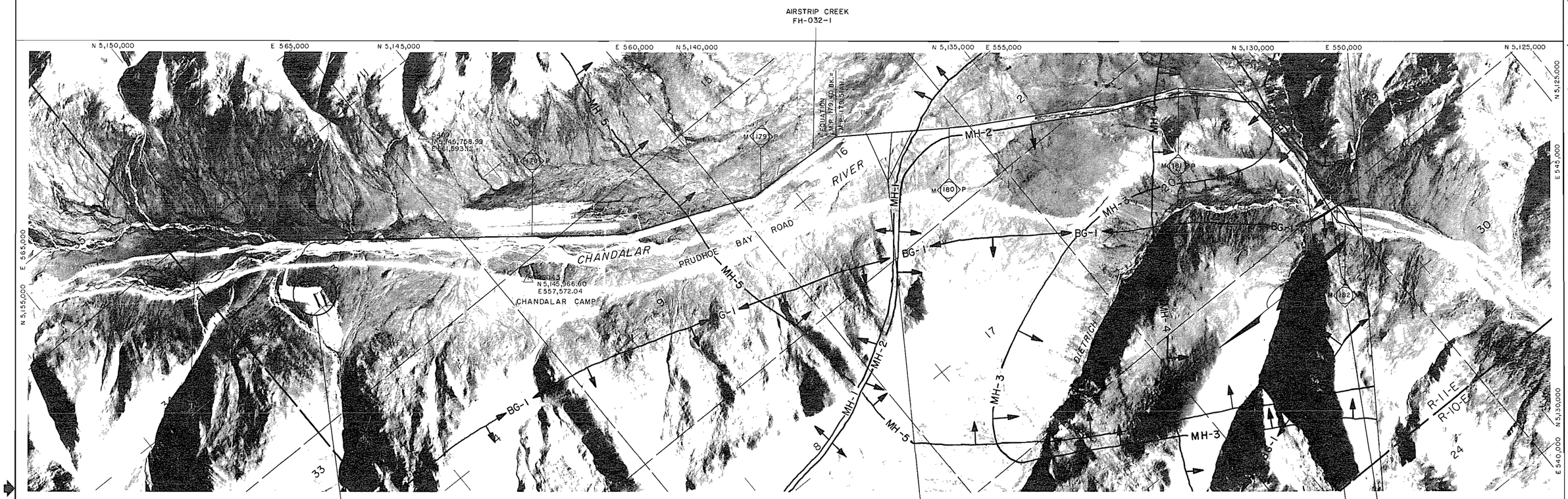
PHOTO	APCG	DATE 1978	FLUOR		DATE 4/8/80
		DATE 4/7/80	NW ALASKAN		DATE 4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-12-00-B-E-031

REV. 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-032-1	---	---	---	---	---	---	---	---	---	---		
RX-032-2	---	---	---	---	---	---	---	---	---	---	---	---
RX-032-3	---	---	---	---	---	---	---	---	---	---		
RX-032-4	---	---	---	---	---	---	---	---	---	---		
FH-032-1	---	---	---	---	---	---	---	---	---	---		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-032-1	---	---	---	---	---	---			---	---	---	---
MH-032-1	---	---	---	---	---	---				---	---	---
MH-032-2	---	---	---	---	---	---						
MH-032-3	---	---	---	---	---	---			---	---		---
MH-032-4	---	---	---	---	---	---	---	---	---	---	---	---
MH-032-5	---	---	---	---	---	---	---	---	---	---	---	---
MH-032-6	---	---	---	---	---	---	---	---	---	---	---	---

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 176.5 TO MP 182.1

TOWNSHIP T16S RANGE R11E MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/15/80
		DATE	4/7/80	N.W. ALASKAN	DATE 4/9/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-12-00-B-E-032 REV. 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

BEAVER BROOK
FH-033-2

NINA CREEK
FH-033-3

OVERWINTERING CREEK
(SCHROEDER'S SPRING)
FH-033-4

N 5,130,000 E 545,000 N 5,125,000 N 5,120,000 E 540,000 N 5,115,000 N 5,110,000 E 535,000 N 5,105,000

N 5,135,000 E 545,000 N 5,105,000 E 530,000 E 525,000

PRUDHOE BAY ROAD

SOUTH SLOPE BOUNDARY BOROUGH

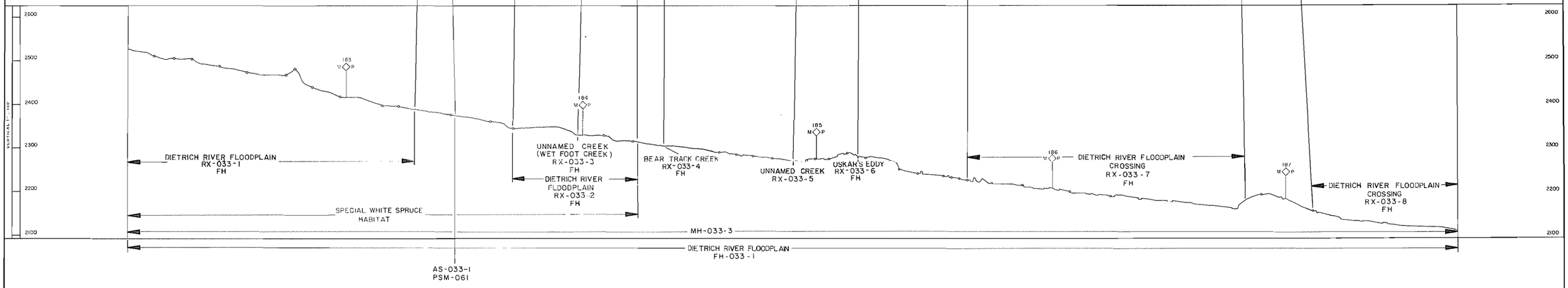
DIETRICH RIVER

NORTH BOUNDARY
SOUTH UMIAT MERIDIAN
T 7 S
T 37 N
FAIRBANKS MERIDIAN
T 36 N

M 183 P
M 184 P
M 185 P
M 186 P
M 187 P

MH-1 BG-1
MH-2
MH-3
MH-4
MH-5 R-10-W
R-11-E R-10-E

LAT 69°52'33"
LONG 152°32'11"



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-033-1	----	----	----	----	----	----	----	----	----	----	----	----
RX-033-2	----	----	----	----	----	----	----	----	----	----	----	----
RX-033-3	----	----	----	----	----	----	----	----	----	----	----	----
RX-033-4	----	----	----	----	----	----	----	----	----	----	----	----
RX-033-6	----	----	----	----	----	----	----	----	----	----	----	----
RX-033-7	____	____	____	____	____	____	____	____	____	____	____	____
RX-033-8	----	----	----	----	----	----	----	----	----	----	----	----
FH-033-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-033-2	----	----	----	----	----	----	----	----	----	----	----	----
FH-033-3	----	----	----	----	----	----	----	----	----	----	----	----
FH-033-4	----	----	----	----	----	----	----	----	----	----	----	----
MH-033-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-033-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-033-3	----	----	----	----	----	----	----	----	----	____	____	----
MH-033-4	----	----	----	----	----	----	----	----	----	----	----	----
MH-033-5	----	----	----	----	----	----	----	----	----	----	----	----
BG-033-1	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and is not released in this original or in contemporal and preliminary form to any company or to any third parties who handled with them prior to the Company pursuant to terms of any agreement between the company and the third party concerned which is confidential and proprietary in nature and is protected under the Freedom of Information Act and use or disclosure of information contained in this document to any party not authorized by some of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as provided by said company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 182.1 TO MP 187.7

TOWNSHIP T16S, T17S, T37N, T36N RANGE R11E R10N MERIDIAN UMIAT

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE	FLUOR	DATE
[illegible]	1978	[illegible]	4-24-80
[illegible]	DATE 4-25	NW ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-12-00-B-E-033	1

DISTRIBUTION CODE

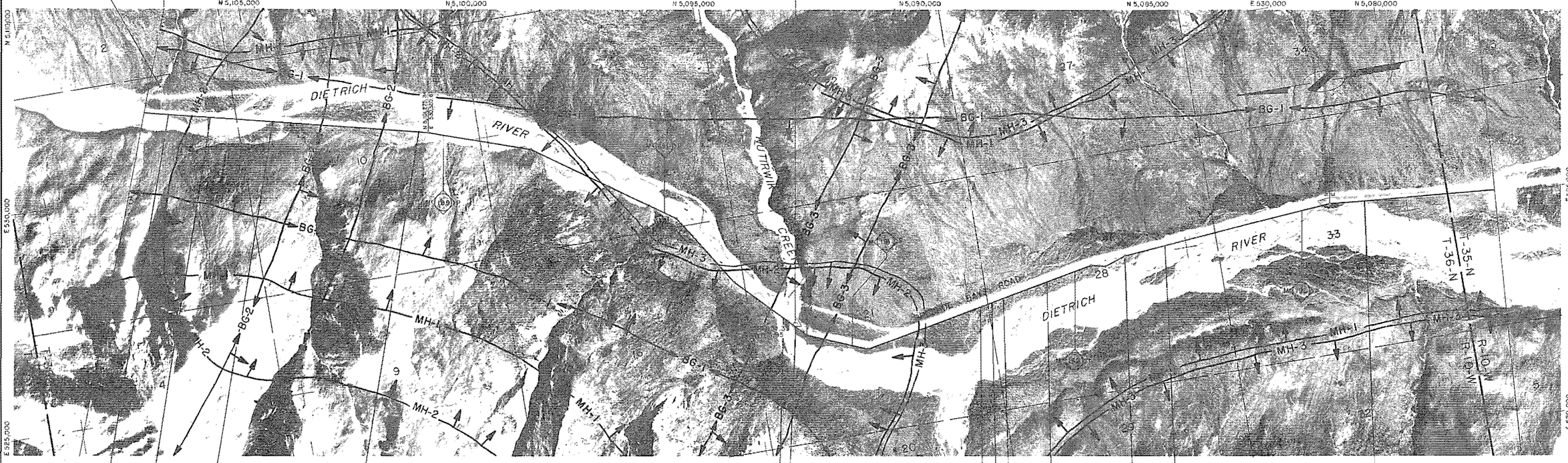
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

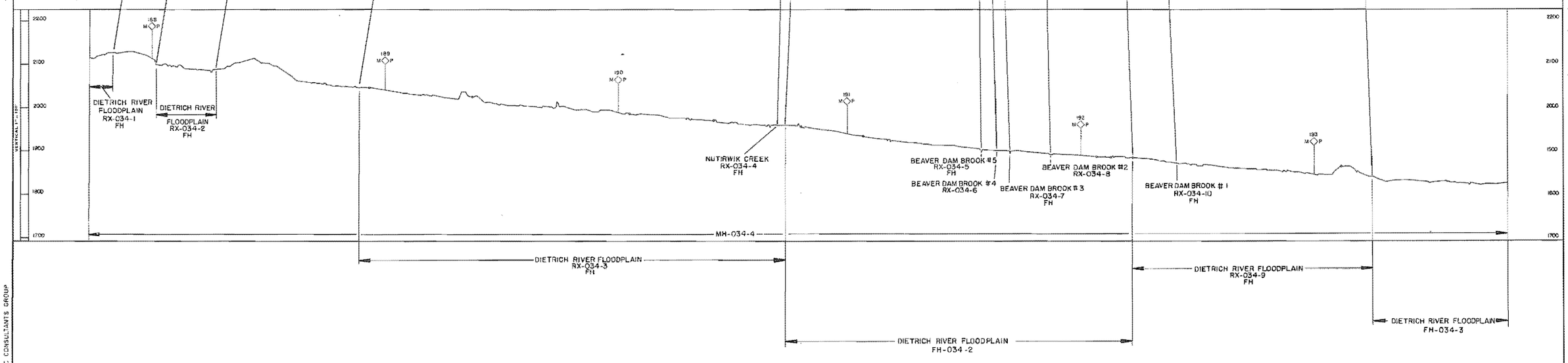
SCALE 1:12000 1:6000 1:4000 1:2000 1:1000

SITES NOT ON ALIGNMENT SHEET
RH-034-1

UNNAMED CREEK

DIETRICH RIVER FLOODPLAIN
FH-034-1





LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-034-1					----	----	----	----	----	----		
RX-034-2					----	----	----	----	----	----		
RX-034-3					----	----	----	----	----	----		
RX-034-4					----	----	----	----	----	----		
RX-034-5					----	----	----	----	----	----		
RX-034-7					----	----	----	----	----	----		
RX-034-9					----	----	----	----	----	----		
RX-034-10					----	----	----	----	----	----		
FH-034-1					----	----	----	----	----	----		
FH-034-2					----	----	----	----	----	----		
FH-034-3					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-034-1	----	----	----	----	----				----	----	----	----
MH-034-2	----	----	----	----	----				----	----	----	----
MH-034-3	----	----	----	----	----				----	----	----	----
MH-034-4	----	----	----	----	----				----	----	----	----
RH-034-1	----	----	----	----	----	----						
BG-034-1	----	----	----	----	----				----	----	----	----
BG-034-2	----	----	----	----	----				----	----	----	----
BG-034-3	----	----	----	----	----				----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISE MILEPOST RELEASE FOR AFC ISSUE			

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any unauthorized disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Recipient or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 187.7 TO MP 193.8

TOWNSHIP T36N, T35N RANGE R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APPD.	DATE 1978	FLUOR	DATE 4/1980
		DATE 4/1/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-12-00-B-E-034 REV 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-035-1					—	—	—	—	—	—		
RX-035-2					—	—	—	—	—	—		
FH-035-1					—	—	—	—	—	—		
FH-035-2					—	—	—	—	—	—		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-035-1	—	—	—	—	—	—						
MH-035-2	—	—	—	—	—	—						
MH-035-3	—	—	—	—	—	—						
MH-035-4	—	—	—	—	—	—						
BG-035-1	—	—	—	—	—	—			—	—	—	—
BG-035-2	—	—	—	—	—	—			—	—	—	—
BG-035-3	—	—	—	—	—	—			—	—	—	—

NO	DATE	REVISION	BY	CHKD	APP
1	4-90	REVISED PER ENVIRONMENTAL MEETING AT MILEPOST			
		INTERSECTION OF NEW ROAD			

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and proprietary to that Company or its third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure in unauthorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 193.8 TO MP 199.8

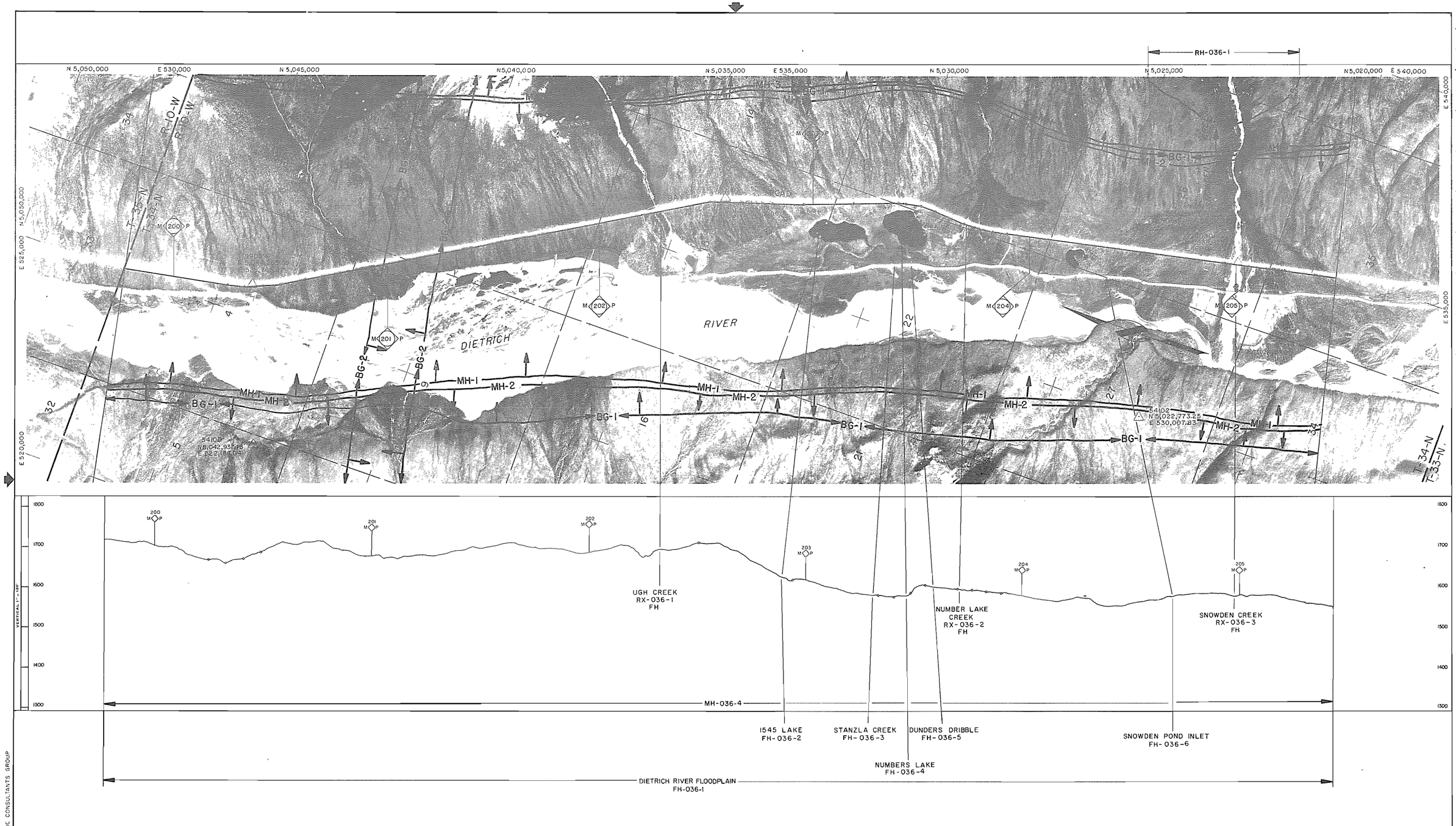
TOWNSHIP T35N, T34N RANGE R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO		DATE	1978	FLUOR		DATE	4/4/90
ATI		DATE	4-5-90	N.W. ALASKAN		DATE	4/7/90

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-12-00-B-E-035	1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-036-1												
RX-036-2												
RX-036-3												
FH-036-1												
FH-036-2												
FH-036-3												
FH-036-4												
FH-036-5												
FH-036-6												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-036-1												
BG-036-2												
MH-036-1												
MH-036-2												
MH-036-3												
MH-036-4												

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 199.8 TO M.P. 205.5

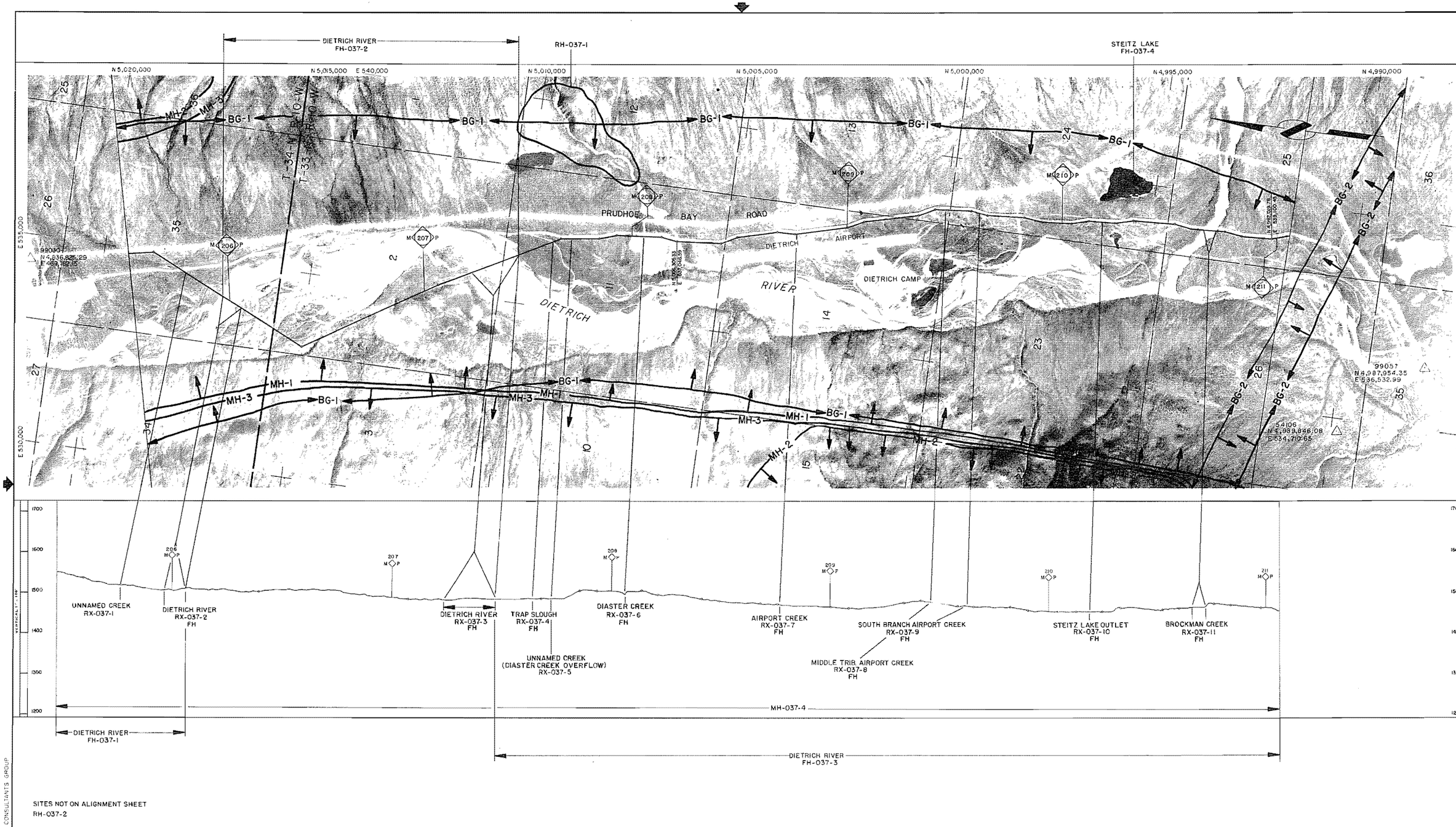
TOWNSHIP T34N RANGE R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/4/80
		DATE	4/3/80	N.W. ALASKA	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-12-00-B-E-036	1

DISTRIBUTION CODE



SITES NOT ON ALIGNMENT SHEET
RH-037-2

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-037-2												
RX-037-3												
RX-037-4												
RX-037-6												
RX-037-7												
RX-037-8												
RX-037-9												
RX-037-10												
RX-037-11												
FH-037-1												
FH-037-2												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-037-3												
FH-037-4												
BG-037-1												
BG-037-2												
MH-037-1												
MH-037-2												
MH-037-3												
MH-037-4												
RH-037-1												
RH-037-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			
		[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and disclosed by said Company or by their parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as prohibited by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 205.5 TO M P 211

TOWNSHIP T 34N, T 33N RANGE R 10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

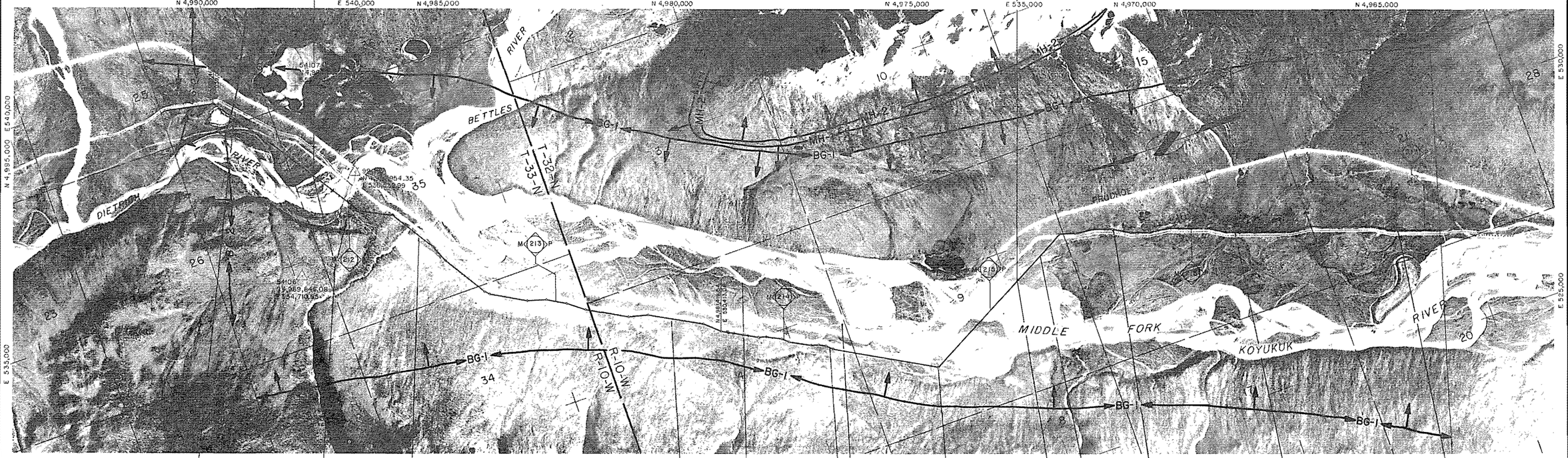
PHOTO	APSG	DATE	1978	FLUOR	DATE 4/4/80
		DATE	4/3/80	N.W. ALASKAN	DATE 4/7/80

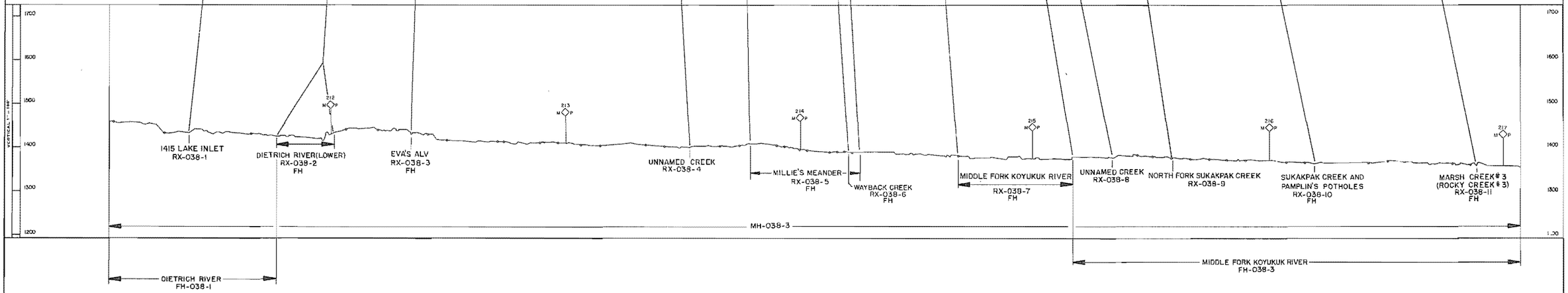
SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-12-00-B-E-037	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

MIDDLE FORK KOYUKUK RIVER
FH-038-2





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-038-2												
RX-038-3												
RX-038-5												
RX-038-6												
RX-038-7												
RX-038-10												
RX-038-11												
FH-038-1												
FH-038-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-038-3												
BG-038-1												
MH-038-1												
MH-038-2												
MH-038-3												

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a release or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 211.1 TO M.P. 217.1

TOWNSHIP T33N, T32N RANGE R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APPD.	DATE	1978	FLUOR	DATE 4/4/80
		DATE	4/3/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'
DRAWING NUMBER: 4680-12-00-B-E-038
REV. 1

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

DISTRIBUTION CODE

AS-039-1
CHN-002

AS-039-2
CHN-005

AS-039-3
CHN-006

N 4,965,000 N 4,960,000 N 4,955,000 E 530,000 N 4,950,000 N 4,945,000 N 4,940,000 N 4,935,000 E 525,000

E 530,000 E 525,000 E 520,000 N 4,935,000

BG-1 BG-1 BG-1 BG-1 BG-1 BG-1 BG-1

LINDA CREEK

GOLD CREEK

SHEEP CREEK

PRUDHOE BAY ROAD

T-31-N T-32-N

KOYUKUK RIVER

MIDDLE FORK

M 218 P M 219 P M 220 P M 221 P M 222 P

△ 5818
N 4,935,742.33
E 532,042.22

N 4,941,775.00
E 524,855.56

360 18
N 4,939,928.28
E 524,980.08

VERTICAL EXAG. 2.5X

1600 1500 1400 1300 1200 1100

218 M P 219 M P 220 M P 221 M P 222 M P 223 M P

MARSH CREEK #1
(ROCKY CREEK #1)
RX-039-2
FH

MARSH CREEK #2
(ROCKY CREEK #2)
RX-039-1
FH

VALVE SITE CREEK
RX-039-3

LINDA CREEK
RX-039-4
FH

AS-039-4
CHN-007

GOLD CREEK
RX-039-5
FH

CUSHING CREEK
RX-039-6

MH-039-1

SPOILED CREEK
FH-039-2

RH-039-1

MIDDLE FORK KOYUKUK RIVER
FH-039-1

SITES NOT ON ALIGNMENT SHEET
RH-039-2

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-039-1				----	----	----	----	----	----			
RX-039-2				----	----	----	----	----	----			
RX-039-4				----	----	----	----	----	----			
RX-039-5				----	----	----	----	----	----			
FH-039-1				----	----	----	----	----	----			
FH-039-2				----	----	----	----	----	----			

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-039-2				----	----	----	----	----	----			
AS-039-3				----	----	----	----	----	----			
AS-039-4				----	----	----	----	----	----			
BG-039-1				----	----	----	----	----	----			
MH-039-1				----	----	----	----	----	----			
MH-039-2				----	----	----	----	----	----			
RH-039-1					----	----	----					
RH-039-2					----	----	----					

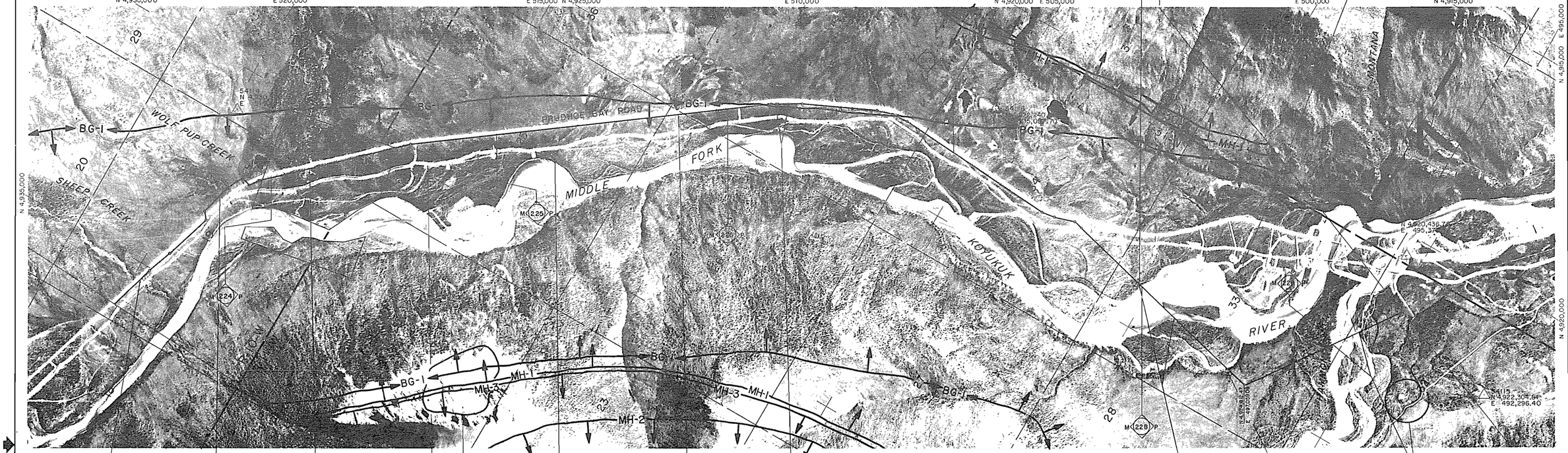
NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

[boilerplate boilerplate boilerplate



**LEGEND*

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-040-1				----	----	----	----	----	----	----		
RX-040-2				----	----	----	----	----	----	----		
RX-040-3				----	----	----	----	----	----	----		
RX-040-4				----	----	----	----	----	----	----		
RX-040-5				----	----	----	----	----	----	----		
RX-040-6				____	____	____	____	____	____	____		
RX-040-8				____	____	____	____	____	____	____		
FH-040-1				----	----	----	----	----	----	----		
FH-040-2				----	----	----	----	----	----	----		
FH-040-3				----	----	----	----	----	----	----		
FH-040-4				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-040-1	----	----	----	----	----	----	----	----	----	----	----	----
BG-040-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-040-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-040-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-040-3	----	----	----	----	----	----	----	----	----	----	----	----
RH-040-1	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

NOTICE
This drawing/document* is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

FLUOR
PROJECT MANAGEMENT CONTRACTOR

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 223.1 TO MP 229.4

TOWNSHIP T 31N RANGE R10W, R11W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/14/80
		DATE	4/3/80	NW. ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-12-00-B-E-040

REV. 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

MIDDLE FORK OF KOYUKUK RIVER
FH-041-1

AS-041-2 WIS-015 | AS-041-4 WIS-031 | AS-041-9 WIS-036 | AS-041-10 WIS-034 | AS-041-11 WIS-033

E 500,000 | N 4,920,000 | N 4,915,000 | N 4,910,000 | E 495,000 | N 4,905,000 | N 4,900,000 | E 490,000 | N 4,895,000

E 500,000 | N 4,925,000 | E 495,000 | E 490,000

HAMMOND RIVER | MIDDLE FORK | KOYUKUK RIVER | BLUFF GULCH | PRUDHOE BAY ROAD | R-11-W | R-12-W

99151 N 4,912,115.54 E 483,261.79

54111 N 4,922,304.31 E 492,295.40

54117 N 4,898,969.31 E 482,309.45

MH-1 MH-2 MH-3 MH-4 BG-1

SPREAD # 2 — SPREAD # 3

VERTICAL 1" = 100'

NORTH FORK CONFEDERATE GULCH CREEK RX-041-1

CONFEDERATE GULCH CREEK (FRY CREEK) RX-041-2 FH

UNION GULCH CREEK #2 RX-041-3 FH

UNION GULCH CREEK #1 RX-041-4 FH

MIDDLE FORK KOYUKUK RIVER RX-041-5 FH

AS-041-1 WIS-035

MINNIE CREEK RX-041-6 FH

AS-041-3 WIS-026

NORTH FORK CONFUSION CREEK RX-041-7 FH

AS-041-7 WIS-027

CONFUSION CREEK RX-041-8 FH

AS-041-12 WIS-032

AS-041-13 WIS-025

AS-041-14 WIS-024

AS-041-6 WIS-008 WIS-009

AS-041-8 WIS-028

AS-041-5 WIS-037

MIDDLE FORK OF KOYUKUK RIVER
FH-041-2

PREPARED BY ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
- - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-041-2				____	____	____	____	____	____	____		
RX-041-3				____	____	____	____	____	____	____		
RX-041-4				____	____	____	____	____	____	____		
RX-041-5				____	____	____	____	____	____	____		
RX-041-6				- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
RX-041-7				- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
RX-041-8				- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
FH-041-1				____	____	____	____	____	____	____		
FH-041-2				____	____	____	____	____	____	____		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-041-1	- - -	- - -	- - -	- - -	____				- - -	- - -		- - -
MH-041-2	- - -	- - -	- - -	- - -	____				- - -	- - -		- - -
MH-041-3	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
MH-041-4	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
AS-041-4	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
AS-041-5	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
AS-041-6	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
AS-041-9	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
AS-041-10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
BG-041-1	- - -	- - -	- - -	- - -	- - -	- - -			- - -	- - -		- - -

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED ENVIRONMENTAL GUIDE MAP SHEET INDEX AND KEY SHEET AND ADDED FOR BIDDING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is covered by or contained under proprietary, trade secret, or other rights which have been furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory release under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by other applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 2294 TO MP 2351

TOWNSHIP T 31N, T 30N RANGE R11W, R12W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

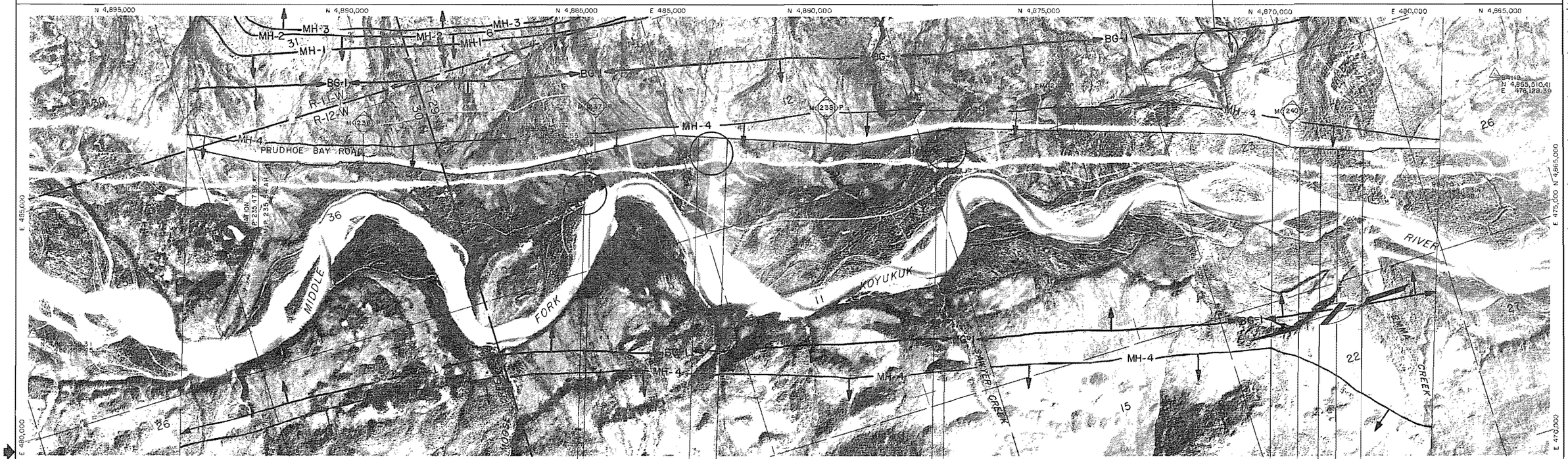
PHOTO	APCG	DATE 1978	FLUOR	DATE 4/15/80
		DATE 4-7-80	NW ALASKAN	DATE 4-9-80

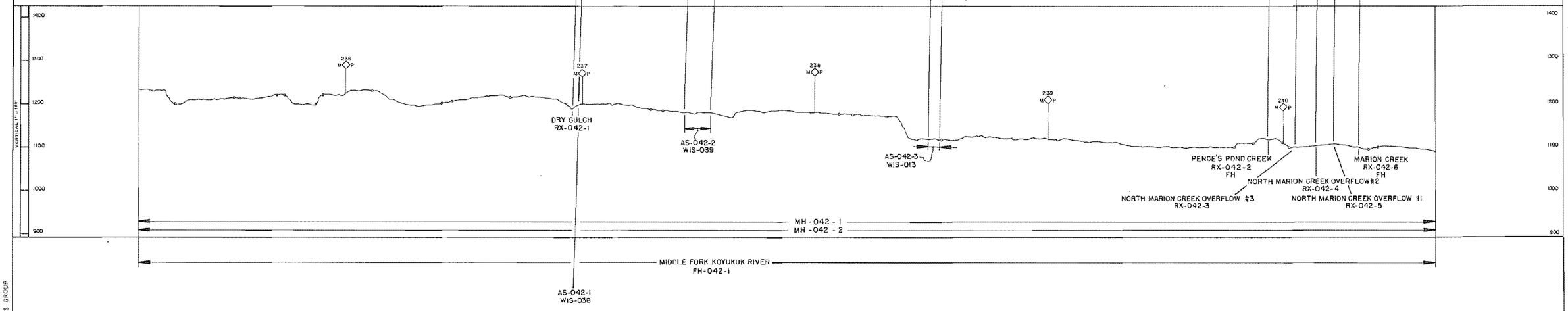
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-041

REV. 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-042-2				----	----	----	----	----	----	----		
RX-042-6				----	----	----	----	----	----	----		
FH-042-1				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-042-1	___	___	___	___	___	___	___	___	___	___	___	___
AS-042-2	___	___	___	___	___	___	___	___	___	___	___	___
AS-042-3	___	___	___	___	___	___	___	___	___	___	___	___
AS-042-4	___	___	___	___	___	___	___	___	___	___	___	___
BG-042-1	___	___	___	___	___	___	___	___	___	___	___	___
MH-042-1	___	___	___	___	___	___	___	___	___	___	___	___
MH-042-2	___	___	___	___	___	___	___	___	___	___	___	___
MH-042-3	___	___	___	___	___	___	___	___	___	___	___	___
MH-042-4	___	___	___	___	___	___	___	___	___	___	___	___

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 235.1 TO MP 240.6

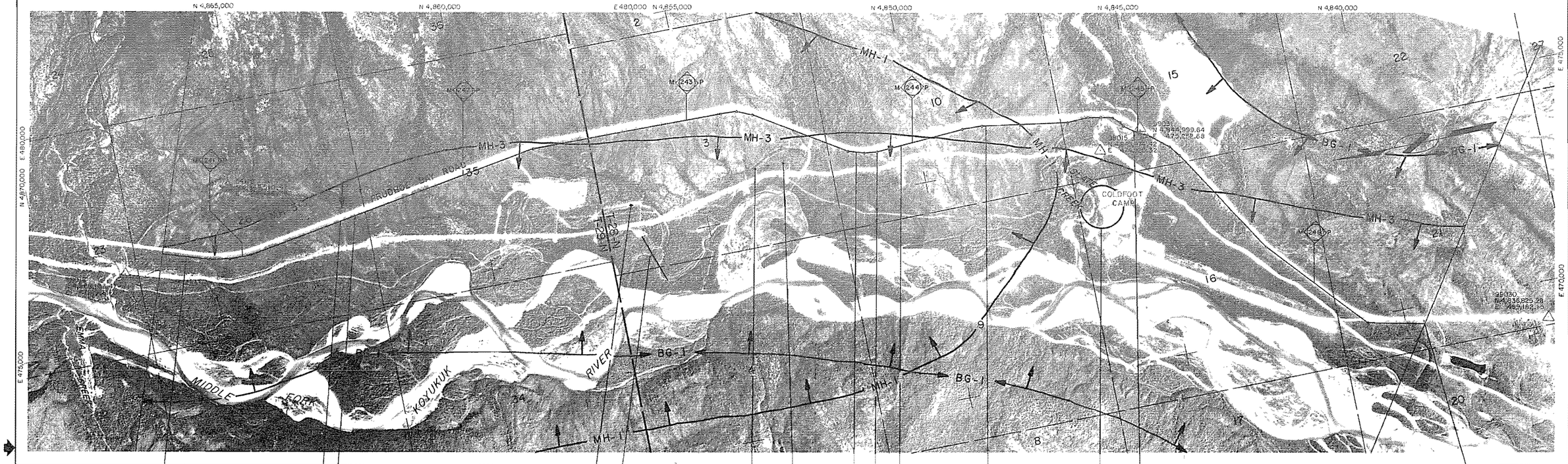
TOWNSHIP T 30N, T 29N RANGE R12W MERIDIAN FAIRBANKS

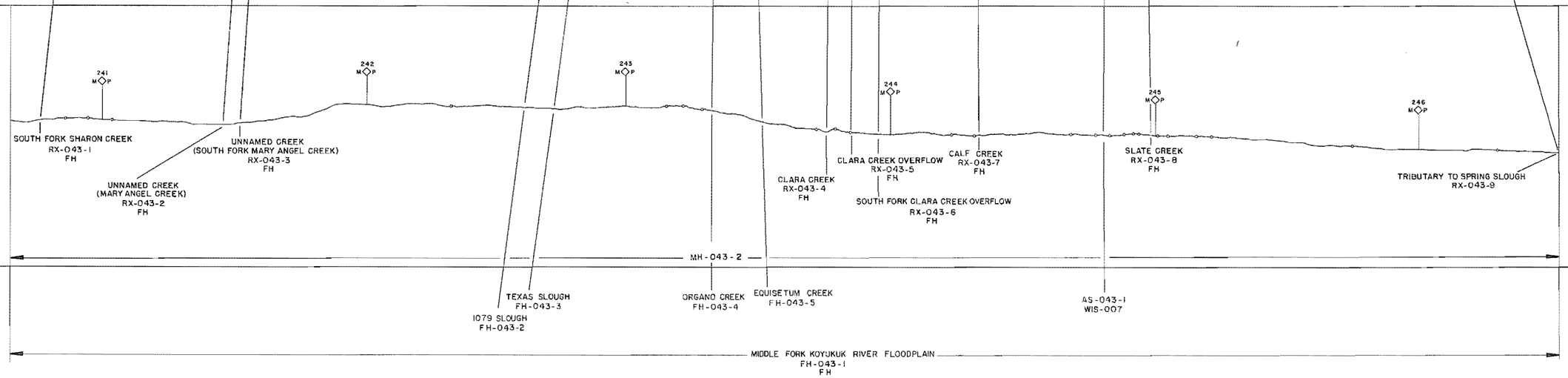
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 4/8/80
		DATE 4-7-80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-042	1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-043-1				----	----	----	----	----	----	----		
RX-043-2				----	----	----	----	----	----	----		
RX-043-3				----	----	----	----	----	----	----		
RX-043-4				----	----	----	----	----	----	----		
RX-043-5				----	----	----	----	----	----	----		
RX-043-6				----	----	----	----	----	----	----		
RX-043-7				----	----	----	----	----	----	----		
RX-043-8				----	----	----	----	----	----	----		
FH-043-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-043-2				----	----	----	----	----	----	----		
FH-043-3				----	----	----	----	----	----	----		
FH-043-4				----	----	----	----	----	----	----		
FH-043-5				----	----	----	----	----	----	----		
MH-043-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-043-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-043-3	----	----	----	----	----	----	----	----	----	----	----	----
BG-043-1	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

Prepared By: ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is identified to be confidential and/or proprietary for said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act. Any use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northern Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 240.6 TO MP 246.5

TOWNSHIP T26N, T28N RANGE R12W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APPD.	DATE	1978	FLUOR	DATE 4/4/80
	DATE 4/3/80			NW ALASKA	DATE 4/7/80

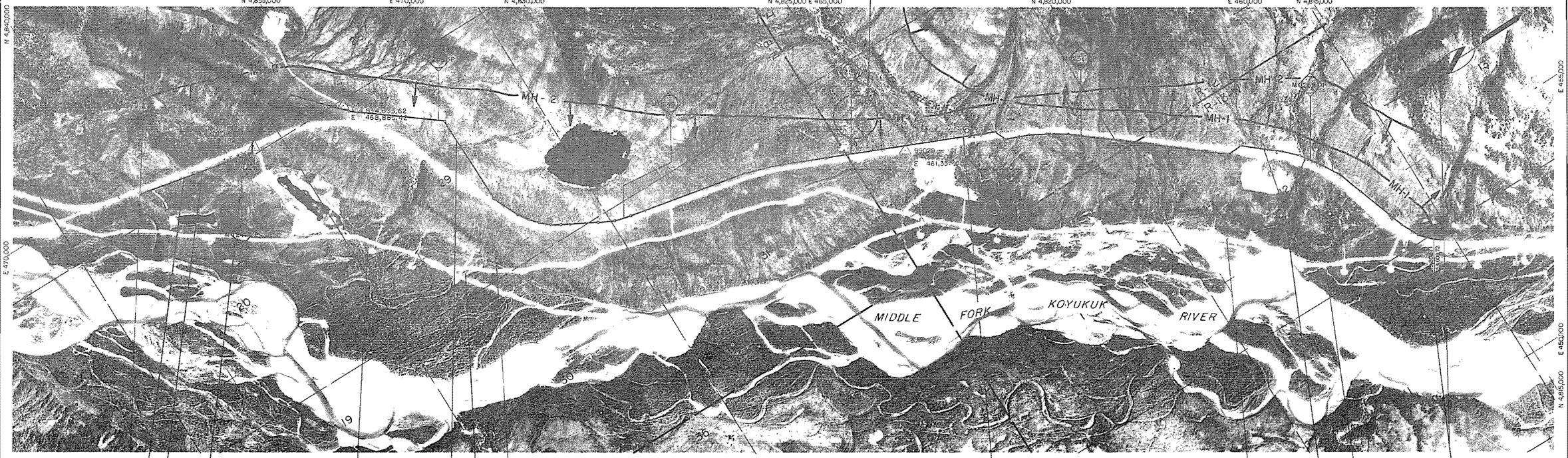
SCALE IN FEET: 1" = 1000'

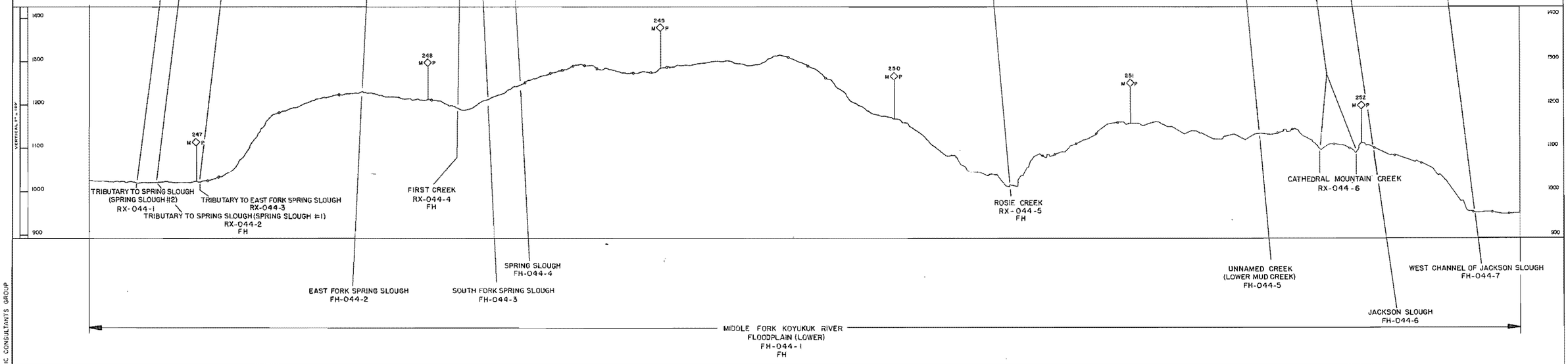
DRAWING NUMBER: 4680-13-00-B-E-043

REV.: 1

DISTRIBUTION CODE

AS-044-1
WIS-012





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

***LEGEND**

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

___ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-044-2												
RX-044-4												
RX-044-5												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-044-1												
FH-044-2												
FH-044-3												
FH-044-4												
FH-044-5												
FH-044-6												
FH-044-7												
MH-044-1												
MH-044-2												

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 246.5 TO M.P. 252.7

TOWNSHIP T28N, T27N RANGE R12W, R13W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

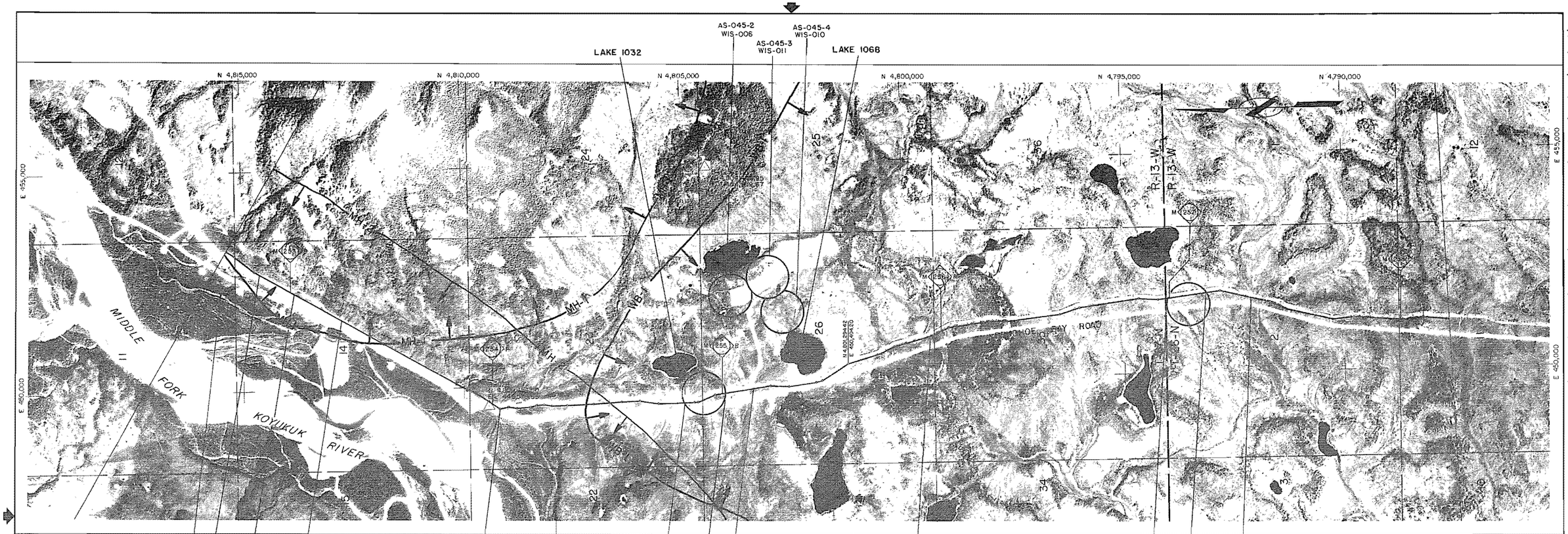
PHOTO	APP.	DATE 1978	FLUOR	DATE 4/4/80
		DATE 4/3/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-044

REV. 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
_ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-045-1				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
RX-045-2				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
RX-045-3				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
RX-045-4				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
RX-045-6				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
RX-045-7				- - -	- - -	- - -	- - -	- - -	- - -	- - -		
FH-045-1												
FH-045-2				- - -	- - -	- - -	- - -	- - -	- - -	- - -		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-045-1												
MH-045-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by other applicable laws such as the Federal Trade Secret Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 252.7 TO MP 258.2

TOWNSHIP T27N,T26N RANGE R13W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

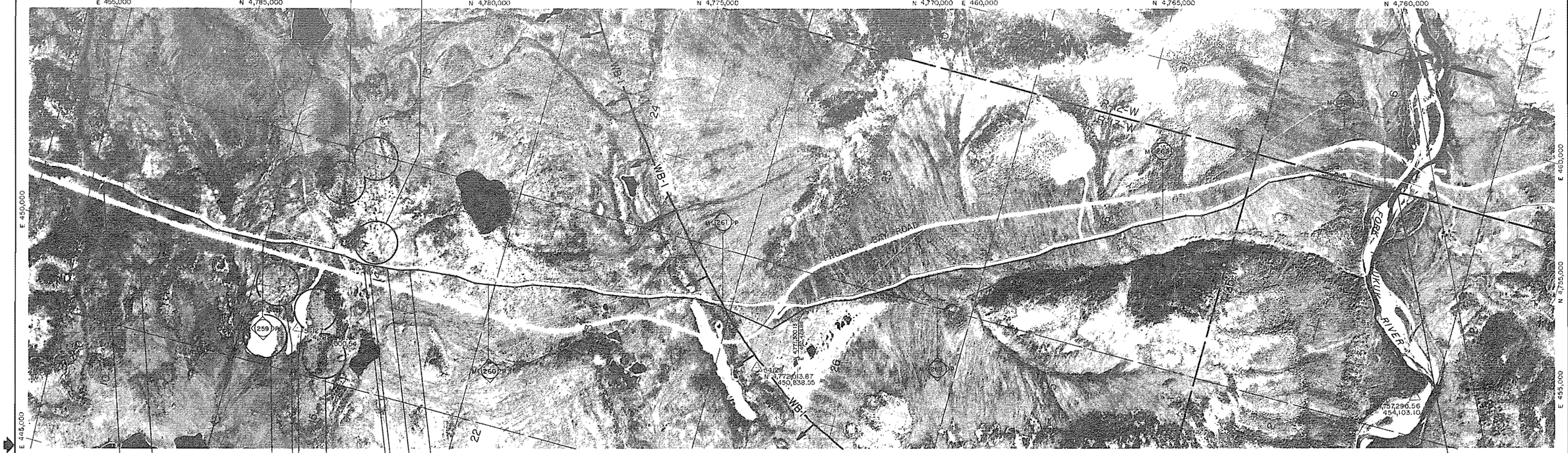
PHOTO	APCO	DATE 1978	FLUOR [illegible] DATE 4/4/80
[illegible]	[illegible]	DATE 4/3/80	NW. ALASKAN [illegible] DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-045 REV. 1

DISTRIBUTION CODE

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



**LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-046-1				----	----	----	----	----	----	----		
RX-046-6				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-046-5	----	----	----	----	----	----	----	----	----	----	----	----

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P.2582 TO M.P.2642

TOWNSHIP T26N, T25N RANGE R13W, R12W MERIDIAN FAIRBANKS

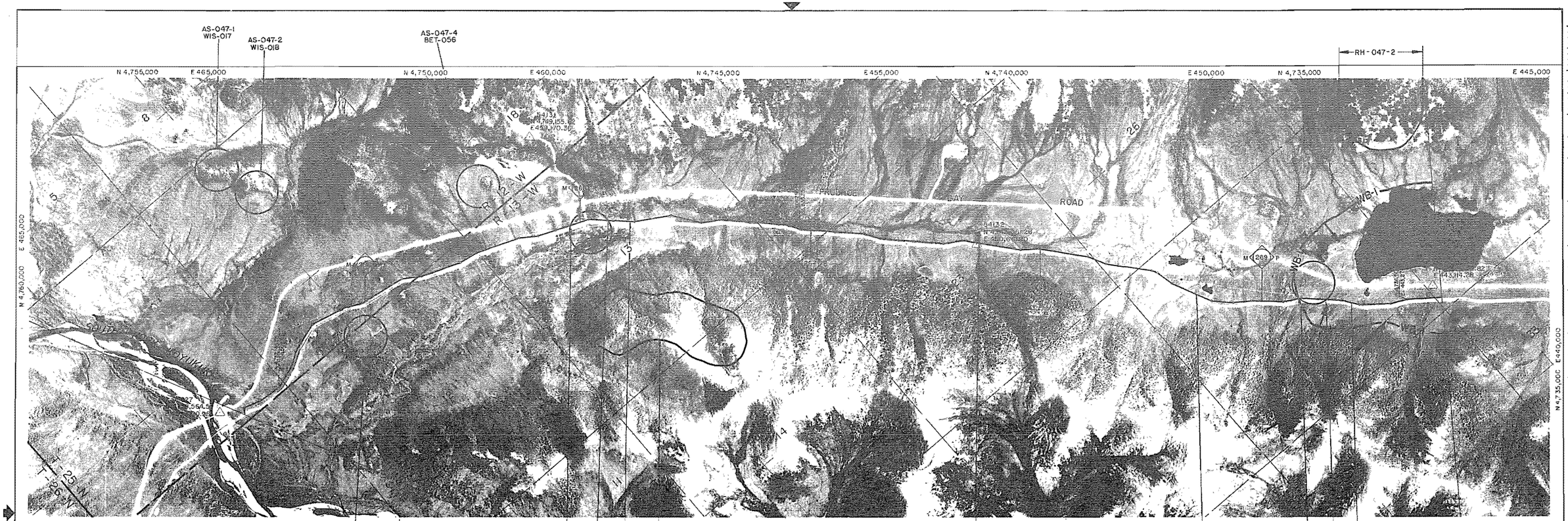
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 4/80
		DATE 4/3/80	N.W. ALASKA	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-046	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-047-1				----	----	----	----	----	----	----		
RX-047-4				----	----	----	----	----	----	----		
FH-047-1				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-047-1					----	----	----					
RH-047-2					----	----	----					
AS-047-1	----	----	----	----	----	----	----	----	----	----	----	----
AS-047-2	----	----	----	----	----	----	----	----	----	----	----	----
AS-047-4	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		* RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 264.2 TO MP 269.6

TOWNSHIP T25N RANGE R12W,R13W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

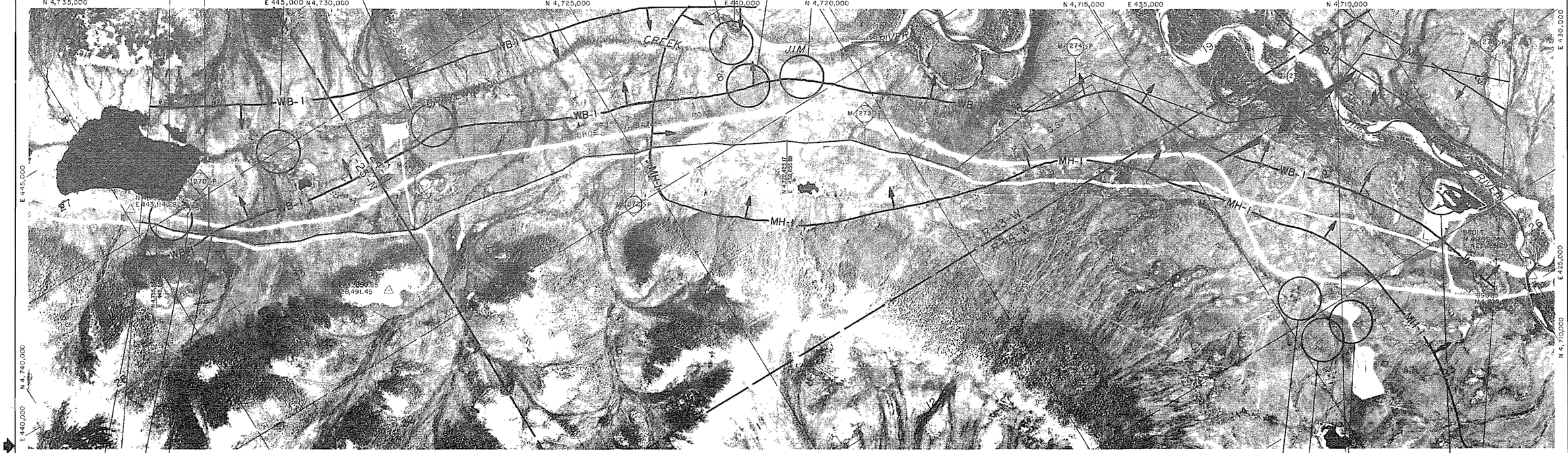
PHOTO	APP'D	DATE		DATE
		1978		4/7/80
		DATE 4/7/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-047

REV. 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-048-2												
FH-048-1												
FH-048-2												
FH-048-3												
FH-048-4												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-048-1												
AS-048-2												
AS-048-4												
AS-048-6												
AS-048-10												
MH-048-1												

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P.269.8 TO M.P.276.0

TOWNSHIP T25N, T24N RANGE R13W, R14W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

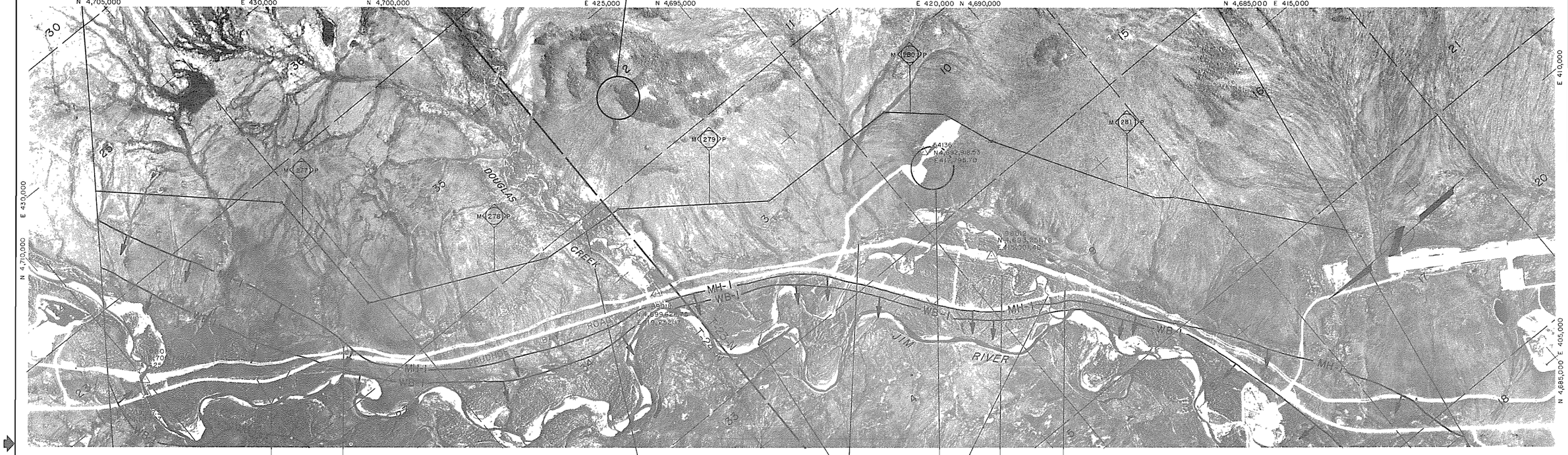
PHOTO	ARCO	DATE	1978	FLUOR	DATE 4/8/80
		DATE 4/8/80		NW ALASKAN ARCO	DATE 4/9/80

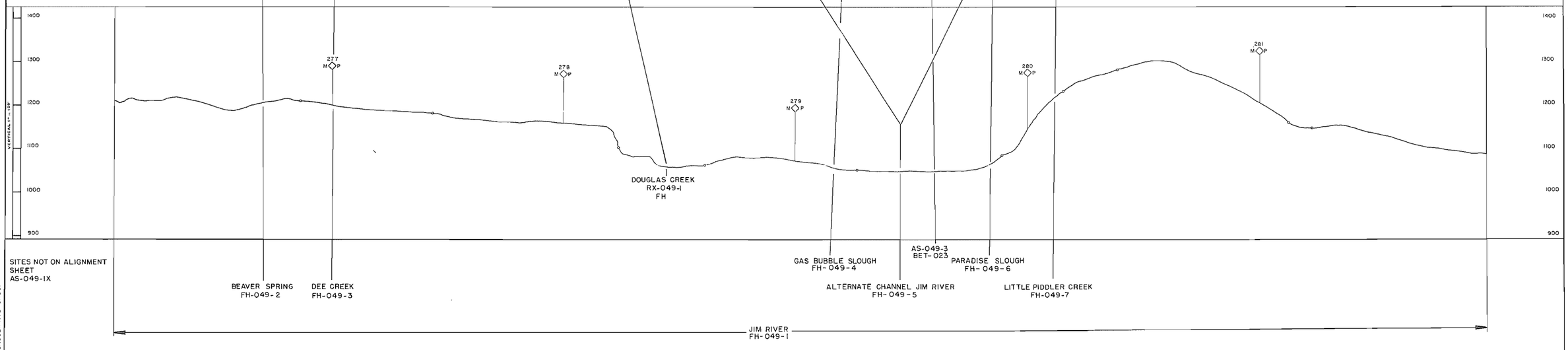
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-048	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

AS-049-2
BET-024





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-049-1				---	---	---	---	---	---	---		
FH-049-1				---	---	---	---	---	---	---		
FH-049-2				---	---	---	---	---	---	---		
FH-049-3				---	---	---	---	---	---	---		
FH-049-5				.....	.....	.....	.....	.....	.....	.....		
FH-049-4				.....	.....	.....	.....	.....	.....	.....		
FH-049-6				.....	.....	.....	.....	.....	.....	.....		
FH-049-7				.....	.....	.....	.....	.....	.....	.....		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-049-2	---	---	---	---						---	---	---
MH-049-1	---	---	---	---						---	---	---

NO	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable law, such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

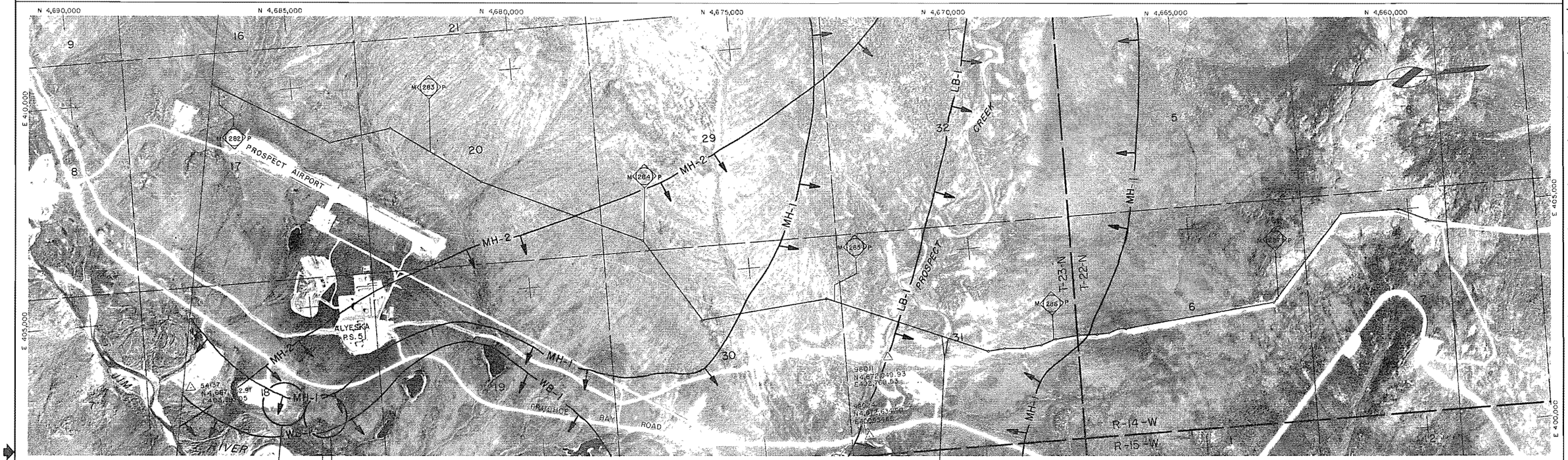
M.P. 276.0 TO M.P. 281.9

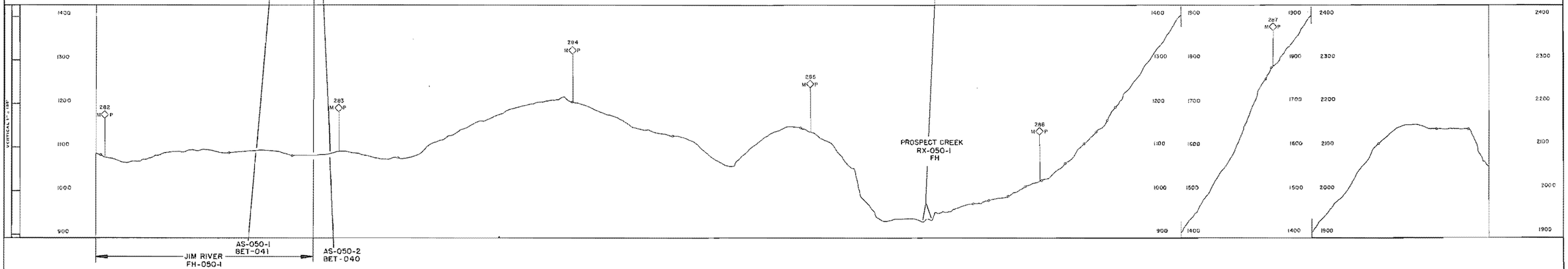
TOWNSHIP T24N, T23N RANGE R14W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCG	DATE 1978	FLDR. [illegible]	DATE 4/7/80	
	DATE 4/7/80	N.W. ALASKAN [illegible]	DATE 4/7/80	
SCALE IN FEET		DRAWING NUMBER		REV.
1" = 1000'		4680-13-00-B-E-049		1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-050-1												
FH-050-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-050-1												
MH-050-2												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 281.9 TO MP. 287.9

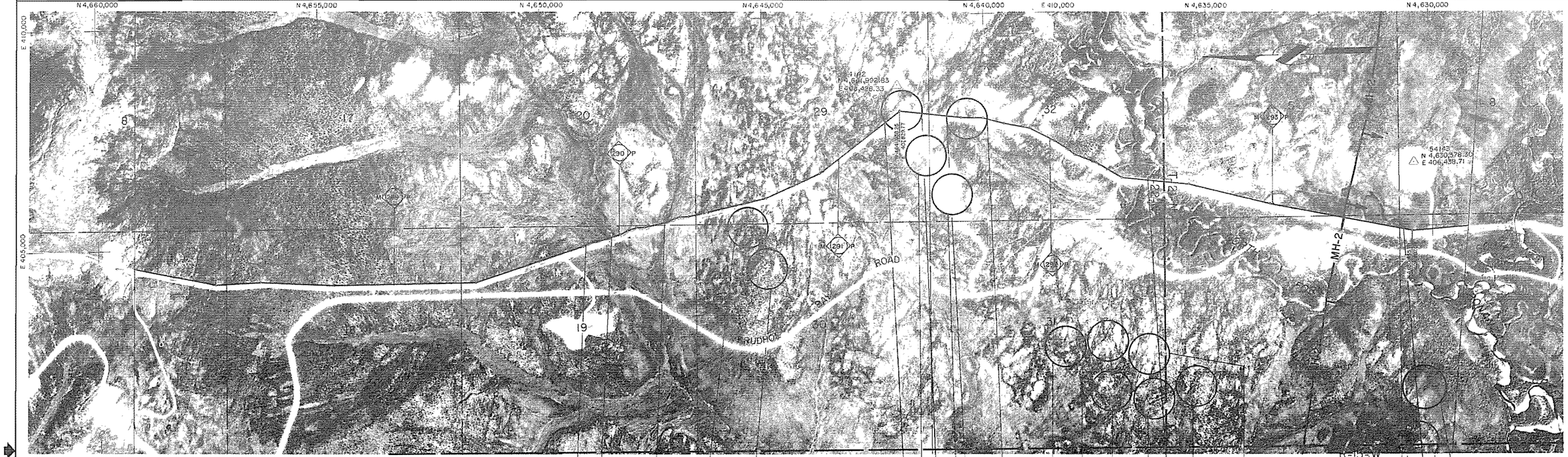
TOWNSHIP T23N,T22N RANGE R14W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE 1978	FLUOR	DATE 3-4-80	
		DATE 4-3-80	N.W. ALASKAN	DATE 4/7/80	

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-050	1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-051-2				----	----	----	----	----	----	----		
RX-051-3				----	----	----	----	----	----	----		
RX-051-4				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-051-1				----	----	----	----	----	----	----		
AS-051-2				----	----	----	----	----	----	----		
AS-051-14				----	----	----	----	----	----	----		
MH-051-1				----	----	----	----	----	----	----		
MH-051-2				----	----	----	----	----	----	----		

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FILE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary to said Company or to third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 287.9 TO MP 293.8

TOWNSHIP T32N, T21N RANGE R14W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR	DATE 4/4/80
ACC	DATE 4/3/80	NW ALASKA	DATE 4/7/80

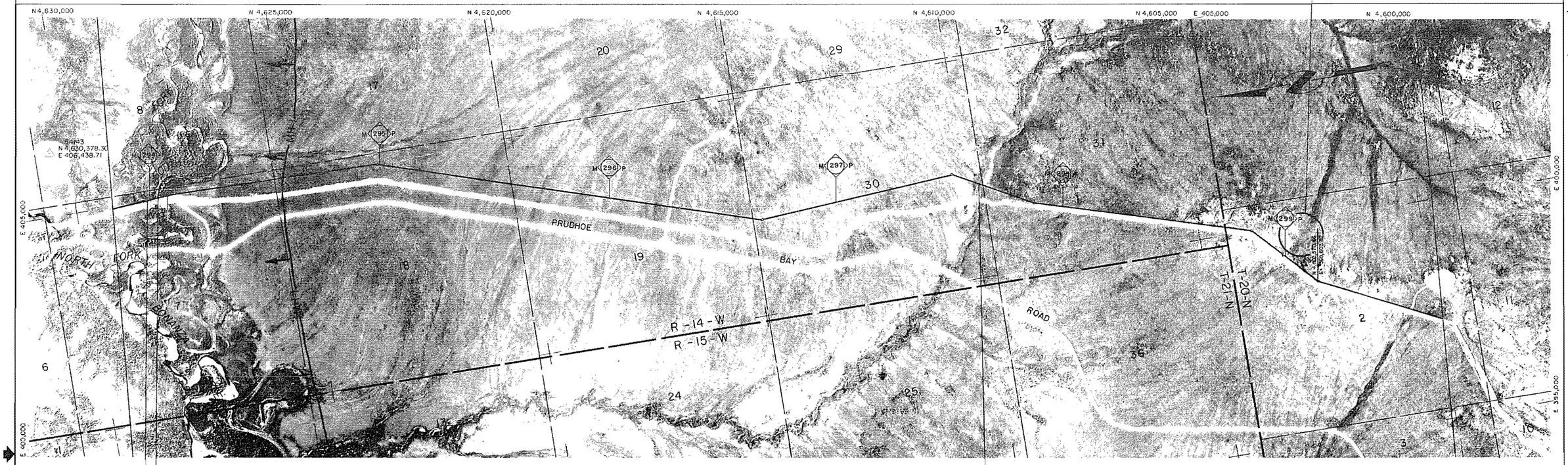
SCALE IN FEET: 1" = 1000'

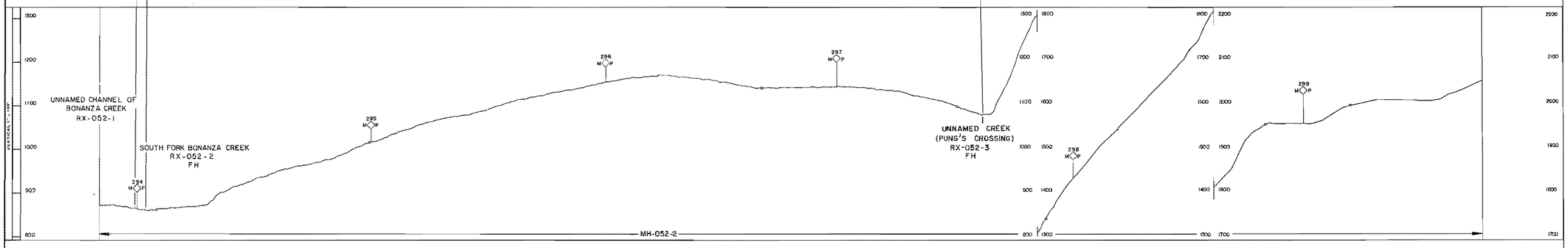
DRAWING NUMBER: 4680-13-00-B-E-051

REV: 1

DISTRIBUTION CODE

AS-052-1
BET-074





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-052-2												
RX-052-3												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-052-1												
MH-052-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOSTS			
		RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is believed to be confidential and is proprietary to said Company or to other parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential or proprietary is not subject to mandatory disclosure under the Freedom of Information Act and upon disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use, disclosure or authorized receipt as permitted by said Company is to Alaskan Northwest Natural Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 293.870 MP 299.7

TOWNSHIP T21N, T20N RANGE R14W, R15W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

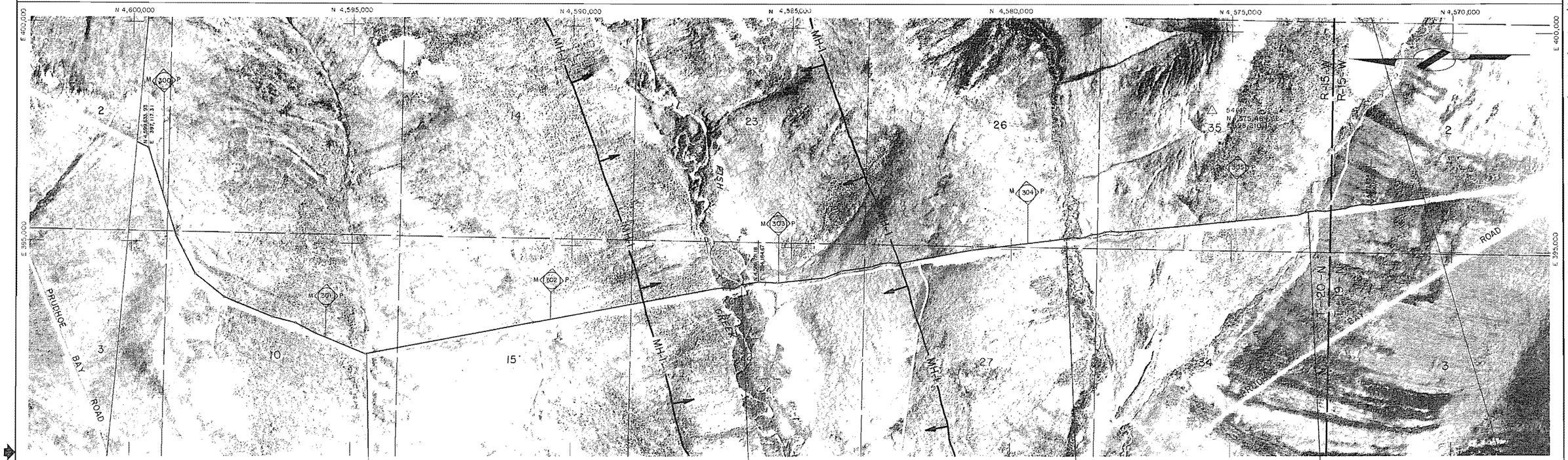
PHOTO	APS	DATE	1978	FLUOR	DATE 4-20
	DATE 4/2/80			NW ALASKAN	DATE 4/2/80

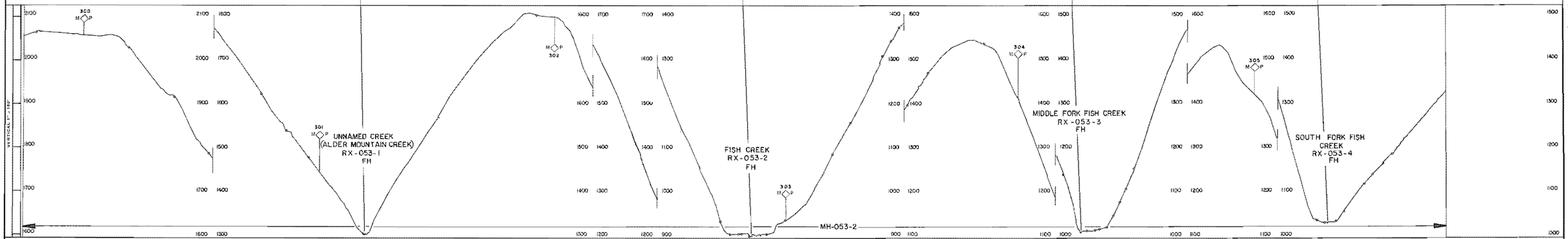
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-052

REV. 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-053-1				____	____	____	____	____	____	____		
RX-053-2				____	____	____	____	____	____	____		
RX-053-3				____	____	____	____	____	____	____		
RX-053-4				____	____	____	____	____	____	____		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-053-1	_ _	_ _	_ _	_ _							_ _	_ _
MH-053-2	_ _	_ _	_ _	_ _							_ _	_ _

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED MILEPOST			
		RELEASED FOR FINAL PLOTS			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license to use proprietary information contained on this drawing/document which is confidential and/or proprietary or not subject to mandatory disclosure under the Freedom of Information Act and any use, disclosure or reproduction of information contained on this drawing/document may also be prohibited by other applicable laws such as the Federal Trade Secrets Act. Any use or disclosure authorized except as permitted by said Company or its Alaska Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 299.7 TO MP 305.8

TOWNSHIP T20N, T19N RANGE R15W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

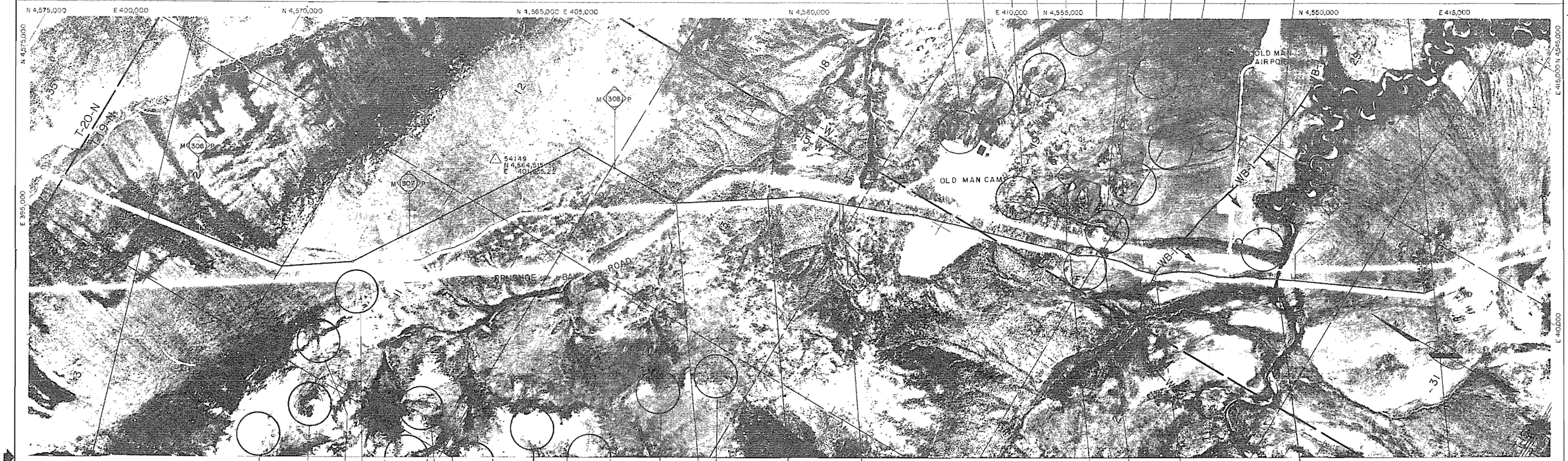
PHOTO	DATE 1978	FLUOR	DATE 4/4/80
ENGR	DATE 4/3/80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-053

REV. 1

DISTRIBUTION CODE


N 4,575,000
E 400,000
N 4,570,000
N 4,565,000 E 405,000
N 4,560,000
E 410,000
N 4,555,000
N 4,550,000
E 415,000
E 395,000
N 4,575,000
E 415,000 N 4,545,000
E 410,000
AS-054-12 BET-043
AS-054-13 BET-044
AS-054-14 BET-067
AS-054-15 BET-071
AS-054-16 BET-070
AS-054-18 BET-013
AS-054-19 BET-075
AS-054-20 BET-077
AS-054-21 BET-076
AS-054-22 BET-047
AS-054-23 BET-049
T-20-N
T-19-N
R-15-W
R-14-W
R-13-W
R-12-W
R-11-W
R-10-W
R-9-W
R-8-W
R-7-W
R-6-W
R-5-W
R-4-W
R-3-W
R-2-W
R-1-W
R-1-E
R-2-E
R-3-E
R-4-E
R-5-E
R-6-E
R-7-E
R-8-E
R-9-E
R-10-E
R-11-E
R-12-E
R-13-E
R-14-E
R-15-E
R-16-E
R-17-E
R-18-E
R-19-E
R-20-E
R-21-E
R-22-E
R-23-E
R-24-E
R-25-E
R-26-E
R-27-E
R-28-E
R-29-E
R-30-E
R-31-E
R-32-E
R-33-E
R-34-E
R-35-E
R-36-E
R-37-E
R-38-E
R-39-E
R-40-E



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-055-1				----	----	----	----	----	----	----		
RX-055-2				----	----	----	----	----	----	----		
FH-055-1				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-055-1	----	----	----	----	----	----	----	----	----	----	----	----
AS-055-4	----	----	----	----	----	----	----	----	----	----	----	----
AS-055-6	----	----	----	----	----	----	----	----	----	----	----	----
MH-055-1	----	----	----	----	----	----	----	----	----	----	----	----
WB-055-1				X	----	----	----	----	----	----		

NO	DATE	REVISION	BY	CHKD	APP
1	4-30	REVISED MILEPOST			
		RELEASED FOR PERMITTING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 316 TO MP 317.2

TOWNSHIP T19N, T18N RANGE R14W MERIDIAN FAIRBANKS

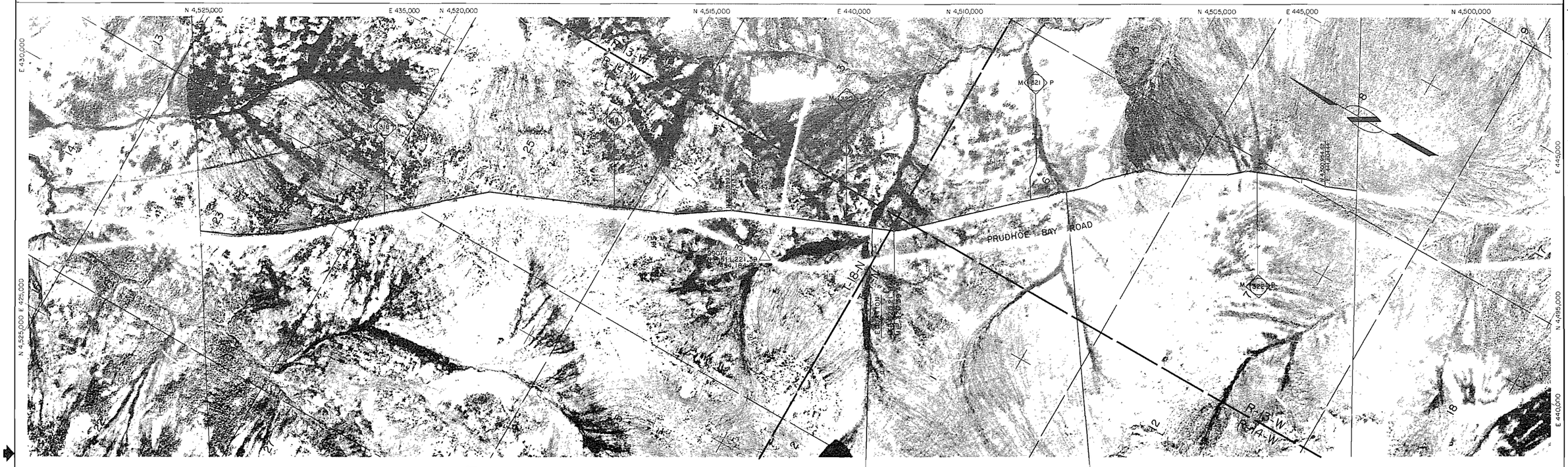
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

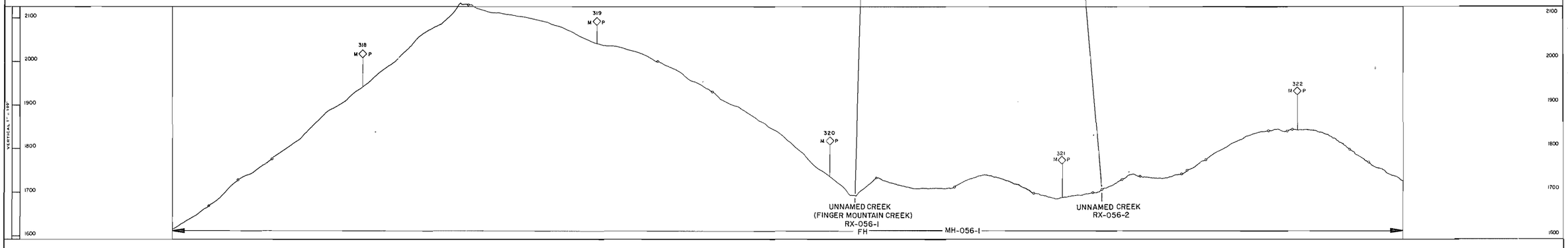
PHOTO	APCG	DATE	1979	FLUOR		DATE	6/8/80
		DATE	4/8/80	N.W. ALASKAN		DATE	4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-055 REV. 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-056-1					- - -	- - -	- - -	- - -	- - -	- - -		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-056-1	- - -	- - -	- - -	- - -								- - -

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This [illegible] is the property of the Alaskan Northwest Natural Gas Transportation Company and contains [illegible] proprietary to said Company or to third parties who have [illegible] to the foregoing pursuant to a [illegible] agreement. Information contained in this drawing is [illegible] and property of said Company or said third parties. Any [illegible] of information contained herein [illegible] is prohibited by [illegible] and [illegible] with the Federal Trade Secrets Act. No use [illegible] without express written permission of the Company or the Alaska Northwest Natural Gas Transportation Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 317.2 TO MP 322.4

TOWNSHIP T18N, T17N RANGE R14W, R13W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

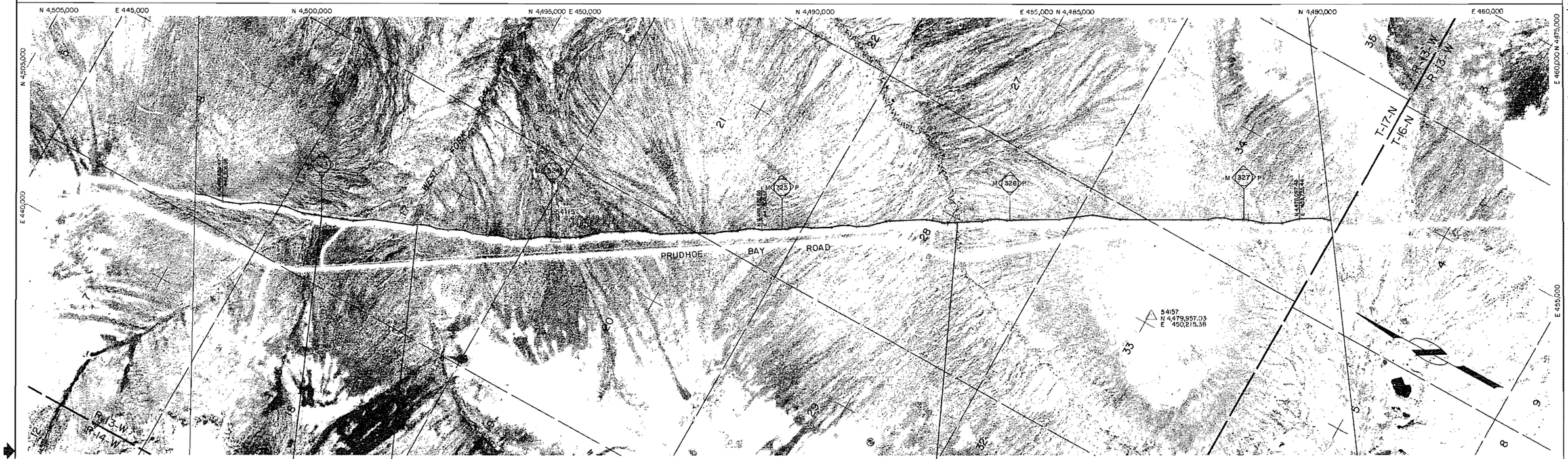
PHOTO	APCG	DATE 1979	FLUOR	DATE 4/8/80
DATE	4/8/80	NW ALASKAN	DATE 4/9/80

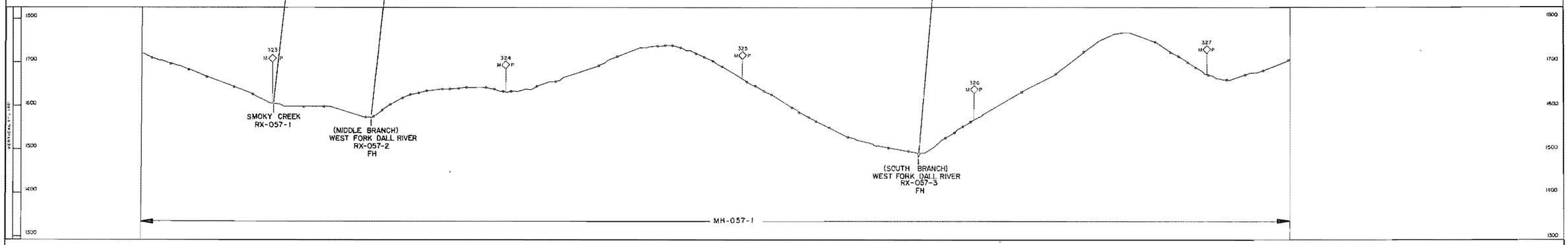
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-056

REV. 1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-057-2				-----	-----	-----	-----	-----	-----	-----		
RX-057-3				-----	-----	-----	-----	-----	-----	-----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-057-1	-----	-----	-----									-----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MH 1980			
		REVISED RX-057-2 & RX-057-3			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/specification is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information which is proprietary to the aforementioned company and/or its subcontractors and/or proprietary to third parties who have furnished such information to the Company pursuant to a license or user agreement. Information contained on this drawing/document which is proprietary is not to be disclosed to others without the written consent of the aforementioned company and/or its subcontractors and/or proprietary third parties, as applicable, and may be protected by Federal Trade Secrets Act, Section 1905, Title 18, United States Code and/or the Privacy Act of 1974, Public Law 93-579, Section 7(b). Unauthorized release may result in penalties or liabilities as set forth in the aforementioned Acts.

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

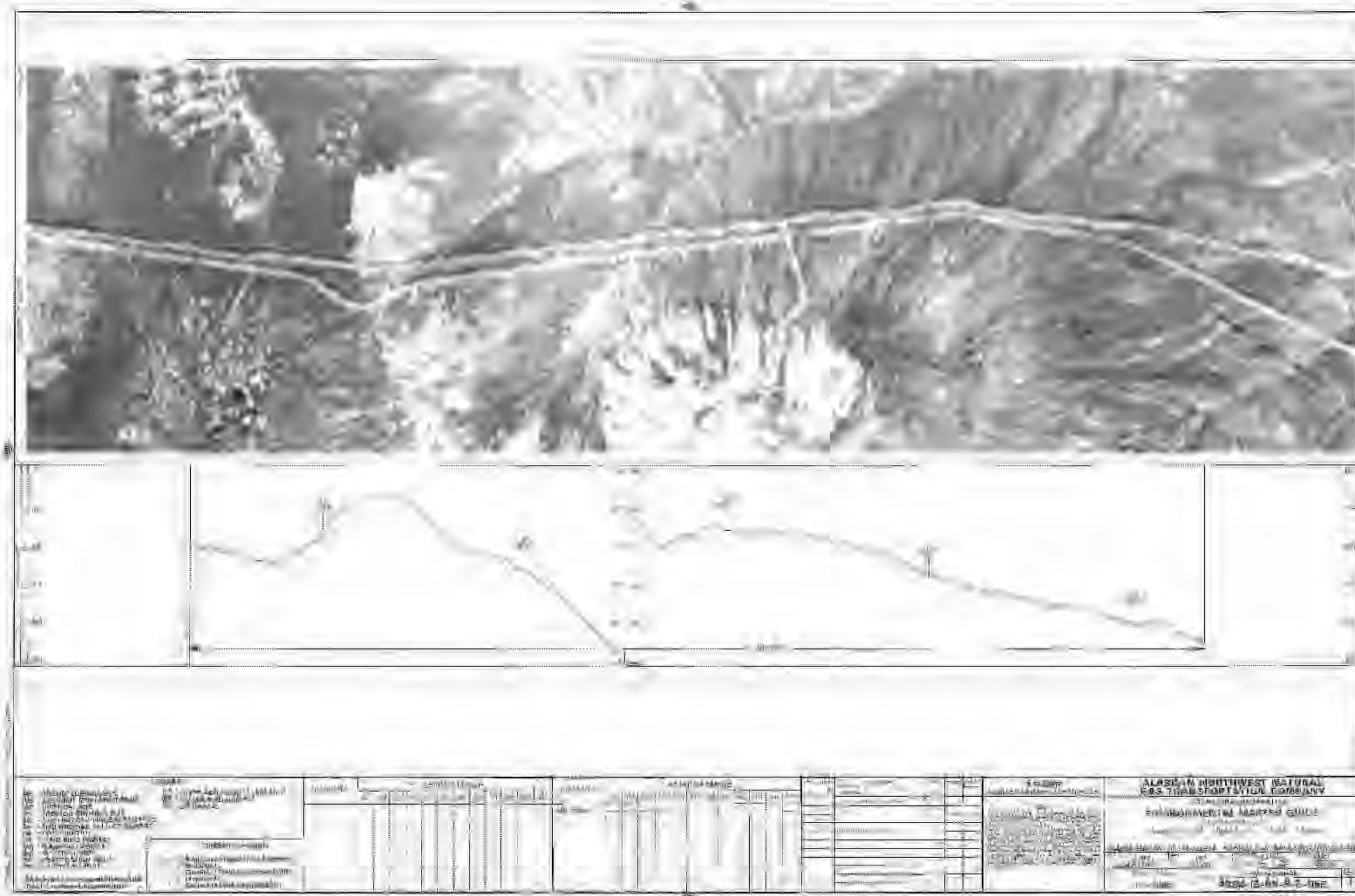
MP 322.4 TO MP 327.4

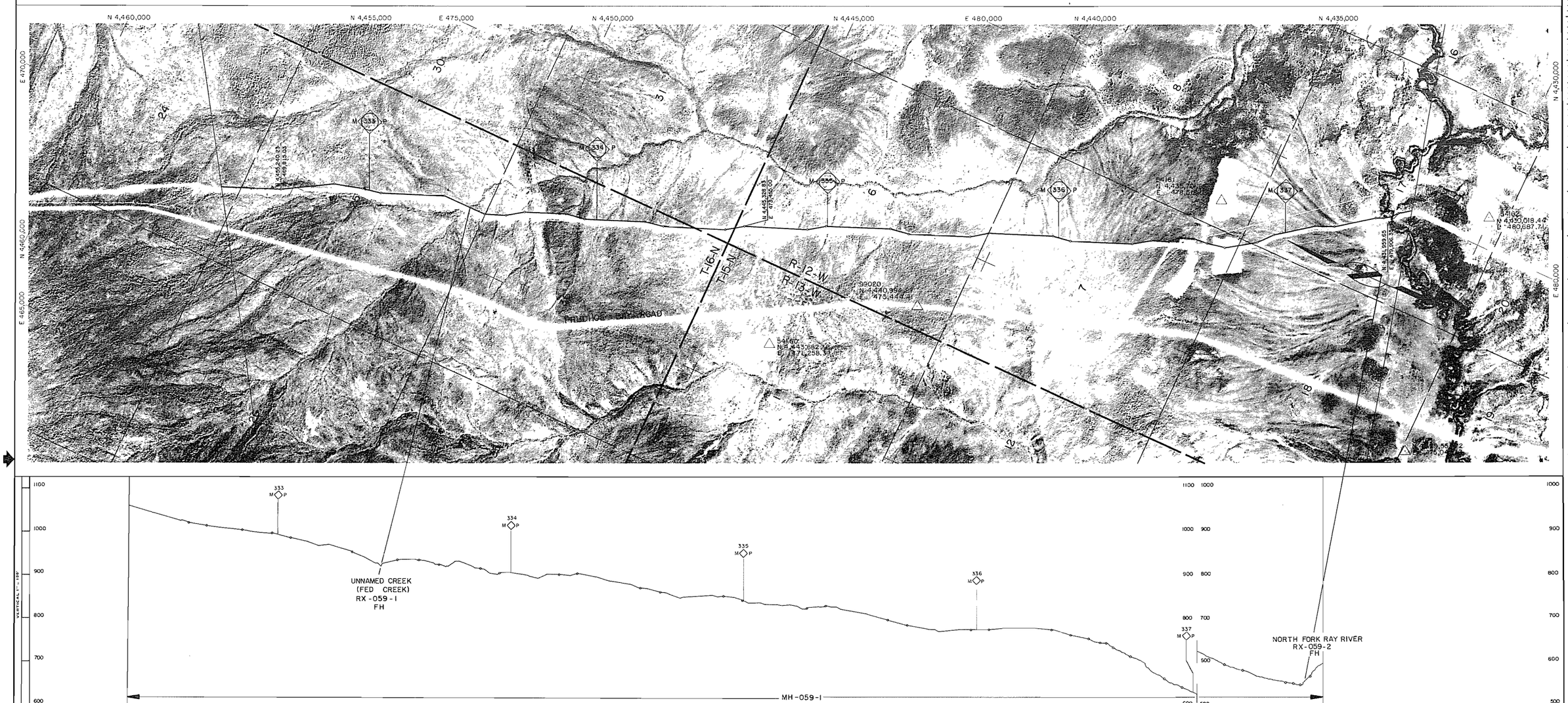
TOWNSHIP T17N RANGE R13W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR	DATE 4/80
	DATE 4/14/80	NW ALASKAN	DATE 4/17/80
SCALE IN FEET		DRAWING NUMBER	REV
1" = 1000'		4680-13-00-B-E-057	1

DISTRIBUTION CODE


ALASKAN NORTHWEST NATURAL
GAS TRANSPORTATION COMPANY
ENVIRONMENTAL MASTER GUIDE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-059-1												
RX-059-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-059-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing is current as the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to inspection by the Owner under the Freedom of Information Act, and any disclosure of information contained in this drawing document may also be prohibited by such or applicable law such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 332.4 TO M.P. 337.6

TOWNSHIP T16N, T15N RANGE R13W, R12W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/4/80
	DATE 4/4/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-13-00-B-E-059	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

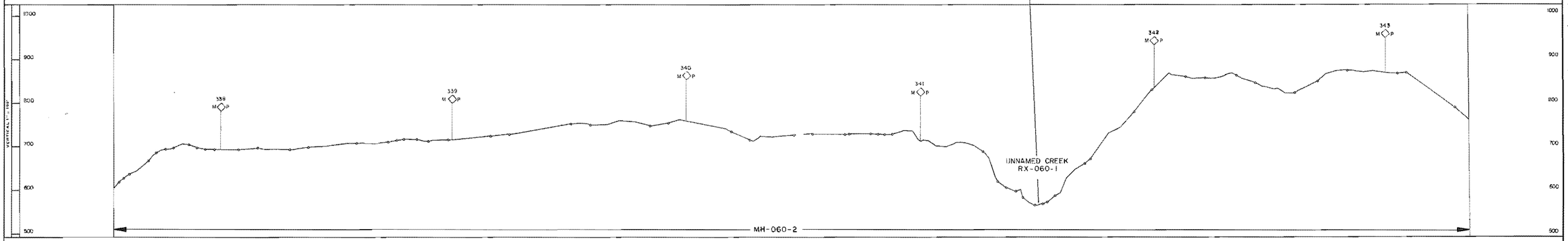
AS-060-1 BET-058
AS-060-2 BET-066
AS-060-3 BET-073

N 4,430,000 N 4,425,000 N 4,420,000 N 4,415,000 N 4,410,000 N 4,405,000 N 4,400,000

E 480,000 E 485,000 E 490,000

E 480,000 E 475,000





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-060-1	----	----	----					----	----	----	----	----
MH-060-2	----	----	----					----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELOCATED ROUTE XING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing is the property of the Alaskan Northwest Natural Gas Transportation Company and contains data that is considered to be confidential and proprietary to said Company or to third parties who furnished such data to the Company pursuant to a duty of confidentiality. Information contained in this drawing shall not be used and is proprietary in part subject to existing trade secret law, the Freedom of Information Act, and any disclosure of information contained in this drawing shall only be permitted by written authorization from the Federal Trade Secrets Act. Any unauthorized or unlicensed receipt or possession of this drawing or any part thereof by any person other than Alaskan Northwest Natural Gas Transportation Company or its Agent for Right-of-Way Acquisition Fluor Alaska, Inc. is prohibited.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 337.6 TO MP 343.3

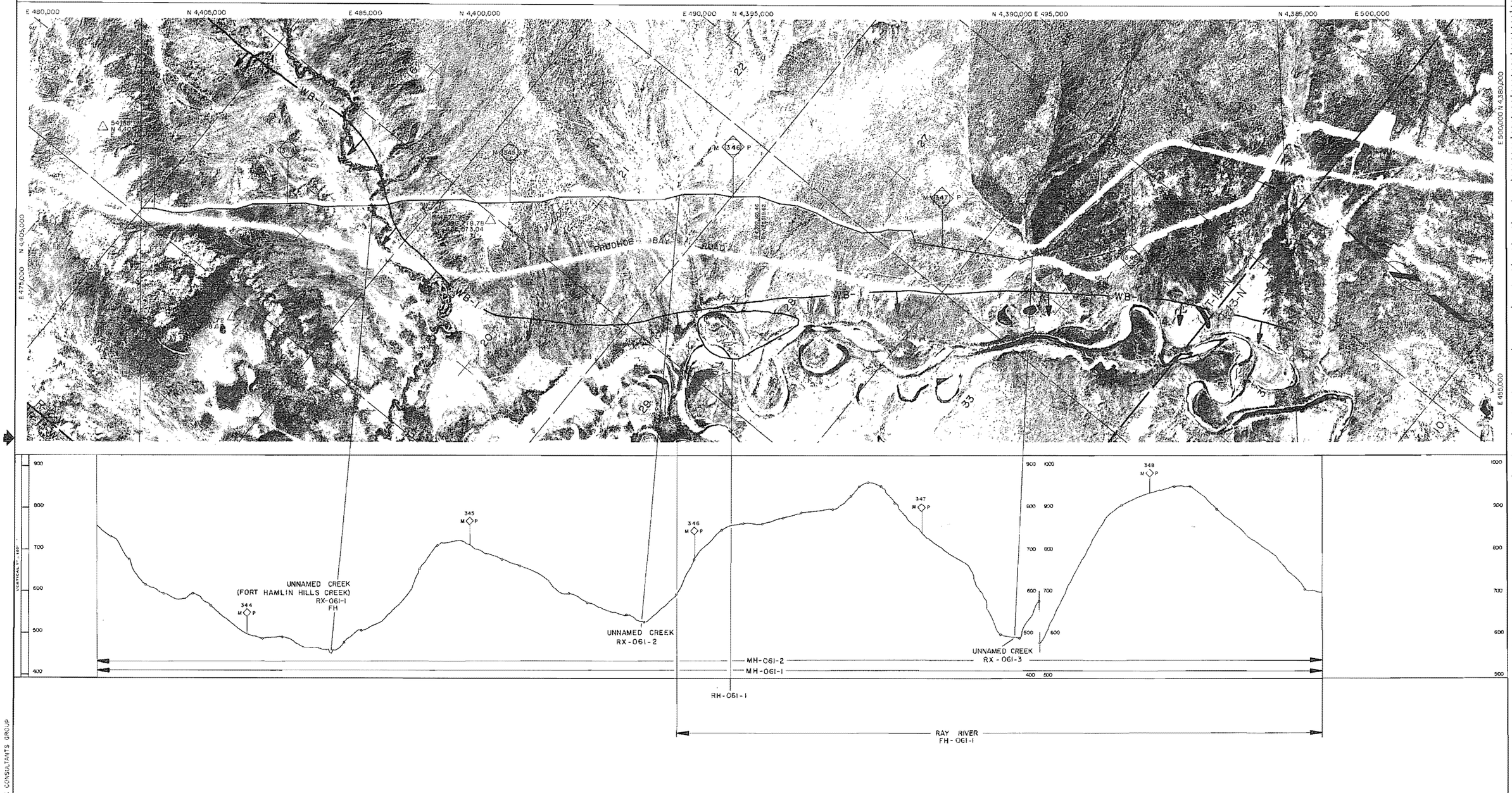
TOWNSHIP T15N, T14N RANGE R12W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR	DATE 4-4-80		
ARCH.	DATE 4-4-80	NW ALASKAN	DATE 4/7/80		
SCALE IN FEET		DRAWING NUMBER		REV.	
1" = 1000'		4680-13-00-B-E-060		1	

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-061-1												
FH-061-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-061-1												
MH-061-1												
MH-061-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE 3 MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as permitted by Contractor or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 343.3 TO MP 348.7

TOWNSHIP T14N RANGE R12W MERIDIAN FAIRBANKS

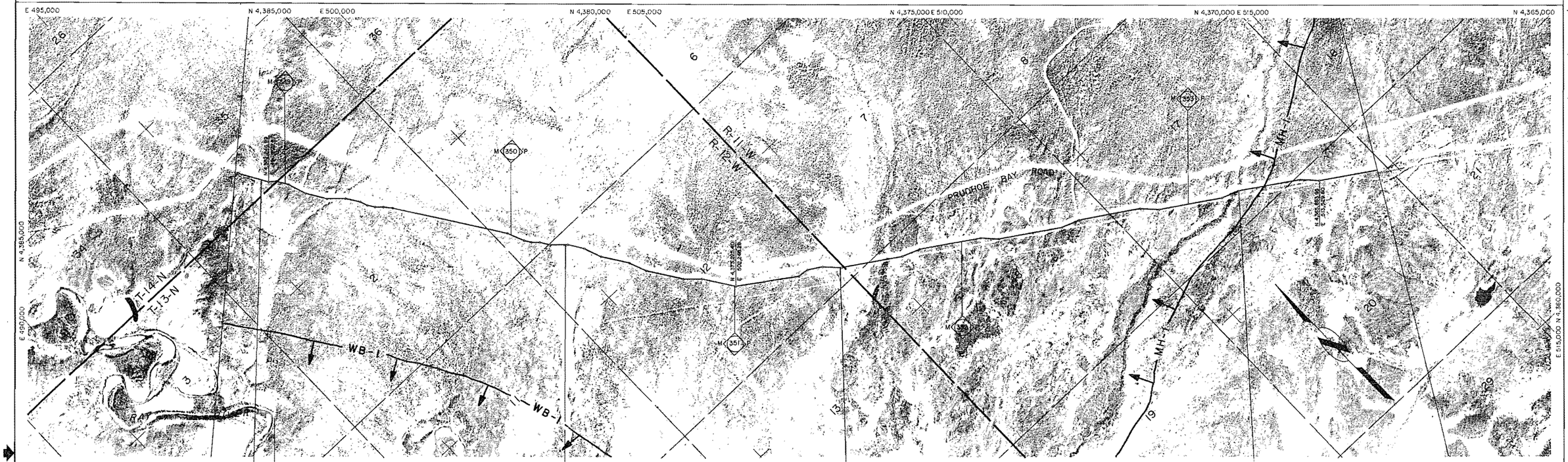
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

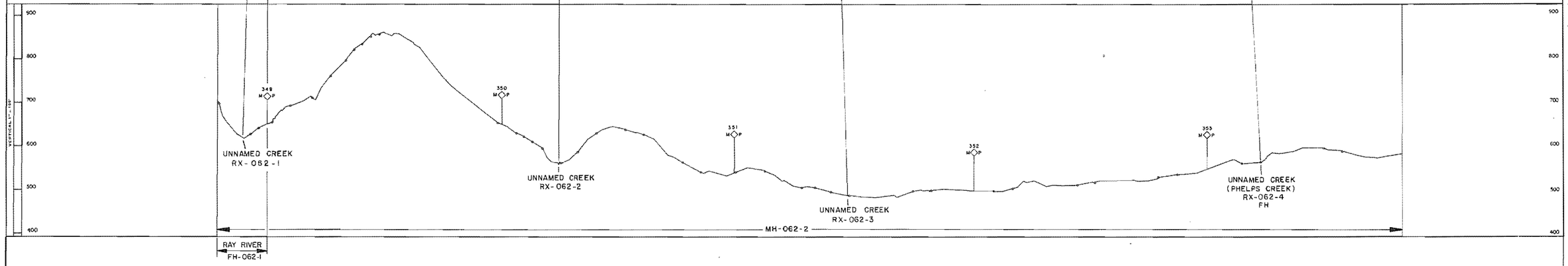
PHOTO	APCO	DATE	1978	FLUOR	DATE
		DATE	4/4/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-061	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-062-4					----	----	----	----	----	----		
FH-062-1					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-062-1	----	----	----	----								----
MH-062-2	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	6 80	REVISED PIPELINE ROUTE & MILEPOST			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

[boilerplate]

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 348.7 TO MP 353.6

TOWNSHIP T14N, T13N RANGE R12W,R11W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

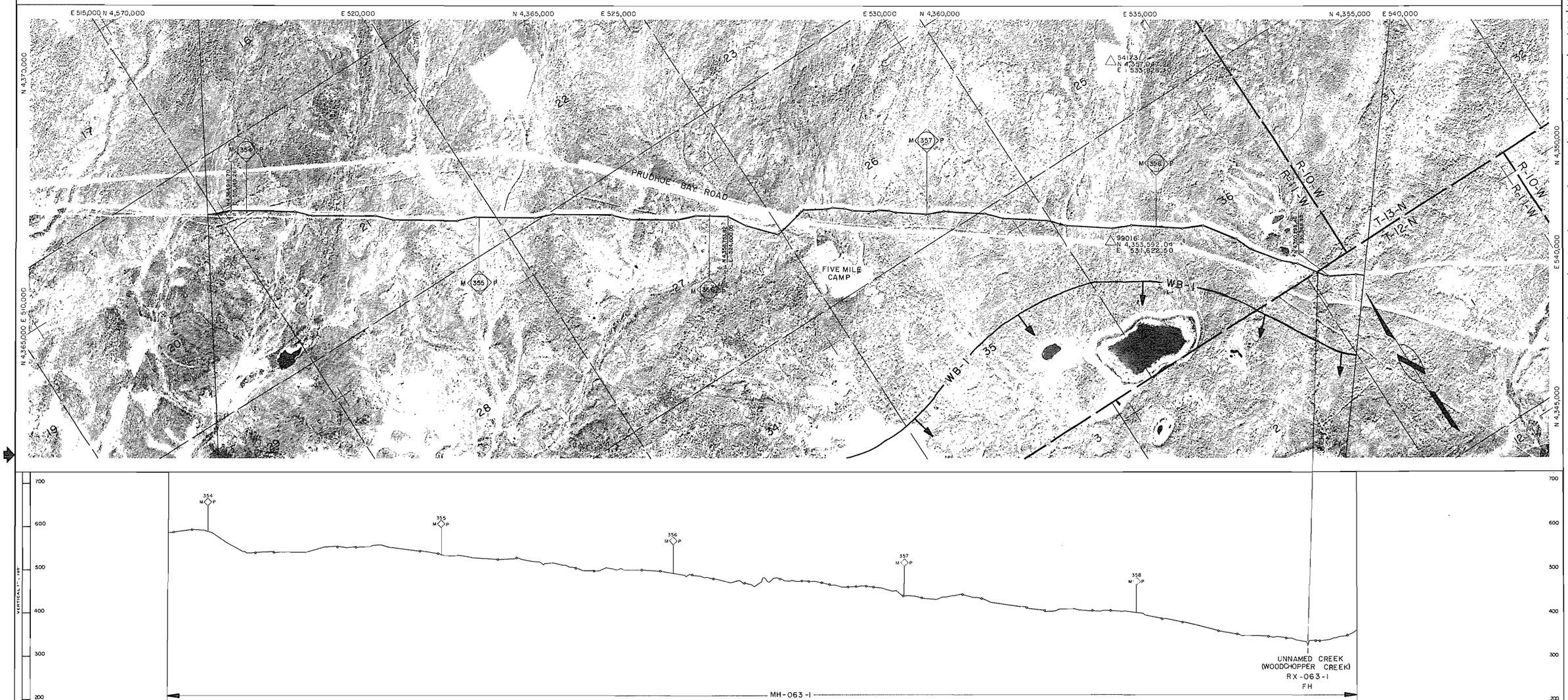
PHOTO	APCS	DATE	1978	FLUOR	DATE 4-4-80
		DATE	4/4/80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-062

REV: 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-063-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-063-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED MILEPOST			
		RELEASED FOR FIRING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 353.8 TO MP 358.9

TOWNSHIP T13N, T12N RANGE R11W MERIDIAN FAIRBANS

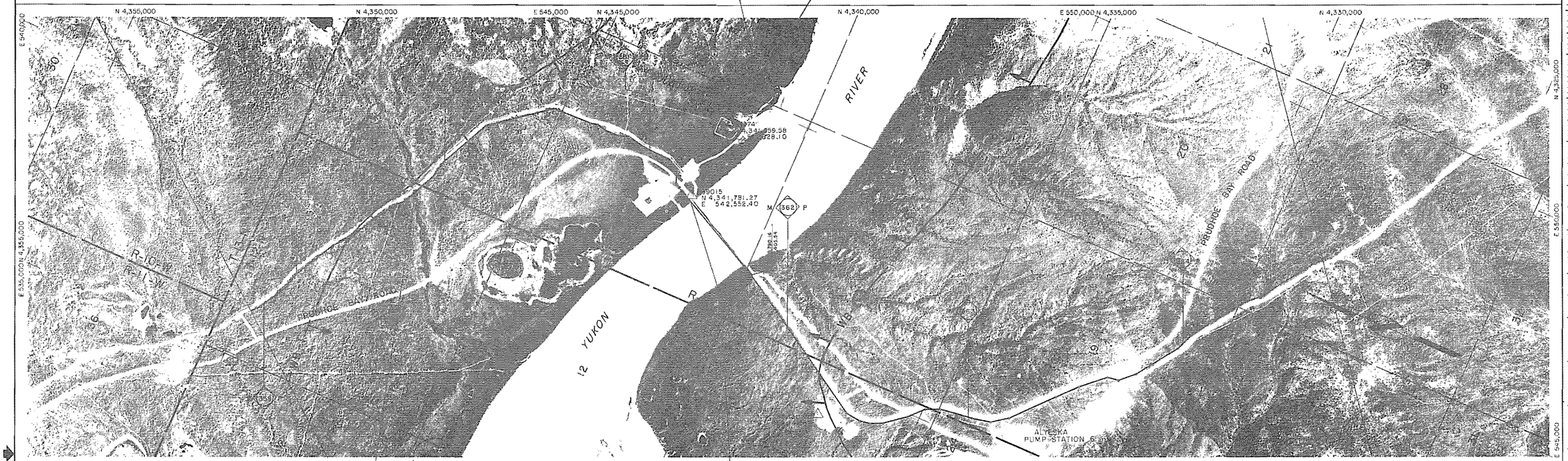
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	APCG	DATE	1978	FLUOR	DATE 4/7/80
		DATE	4/4/80	N W ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-13-00-B-E-063	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



SITES NOT ON ALIGNMENT SHEET
EH-064-1

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

**LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-064-1						----	----	----	----	----		
RX-064-2						----	----	----	----	----		
FH-064-1						----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-064-1				----	----	----	----					
AS-064-1	----	----	----	----	----	----	----	----	----	----	----	----
AS-064-2	----	----	----	----	----	----	----	----	----	----	----	----
MH-064-1	----	----	----	----	----	----	----			----	----	----

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is author-ized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 358.9 TO M.P 364.7

TOWNSHIP T12N RANGE R11W,R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

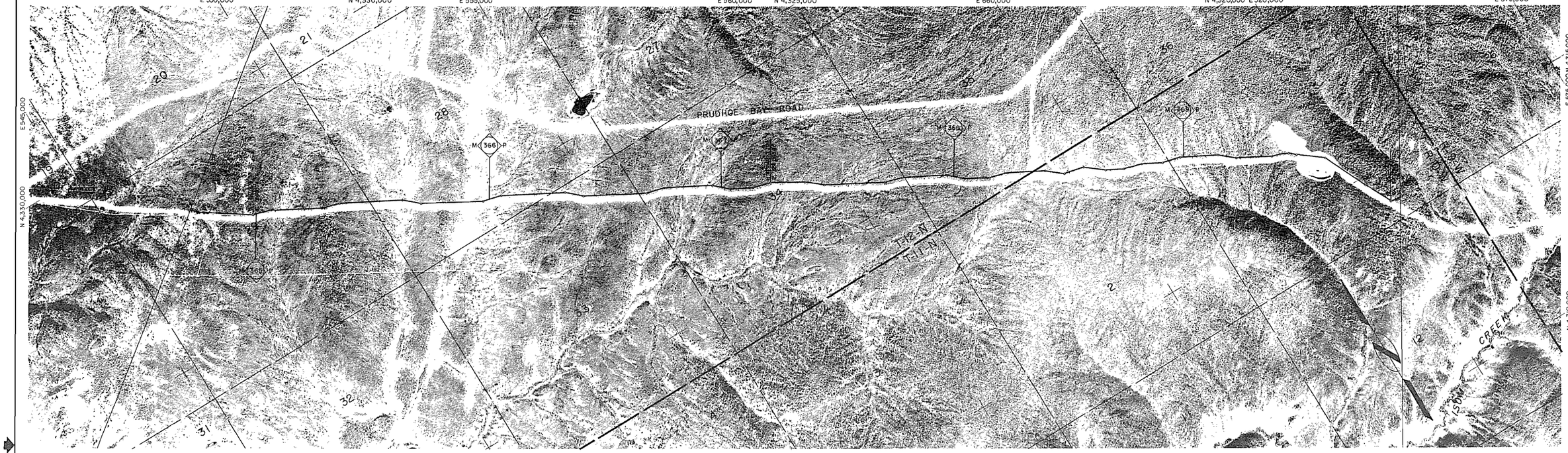
PHOTO	DATE 1978	FLUOR	DATE 4/7/80
ARCO	DATE 4/4/80	N.W. ALASKAN	DATE 4/7/80

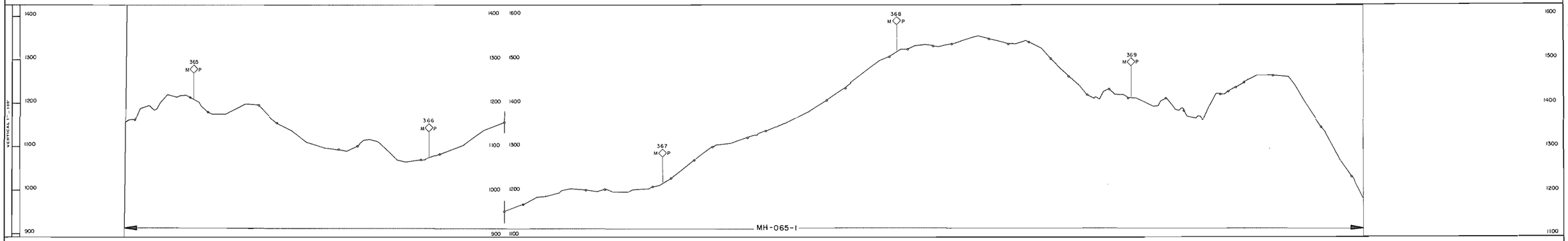
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-064

REV. 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-065-1	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing document which is confidential and or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure in such cases except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 364.7 TO MP 369

TOWNSHIP T12N,T11N RANGE R10W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

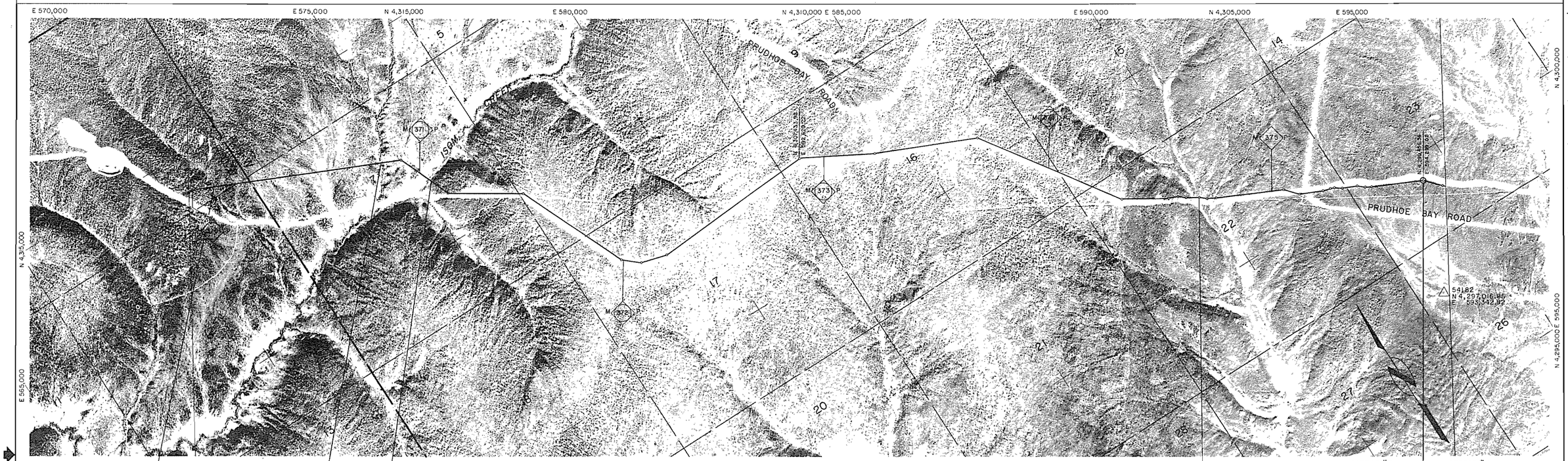
PHOTO	APCG	DATE	1978	FLUOR	DATE 4-4-80
		DATE	4/4/80	NW ALASKAN	DATE 4/7/80

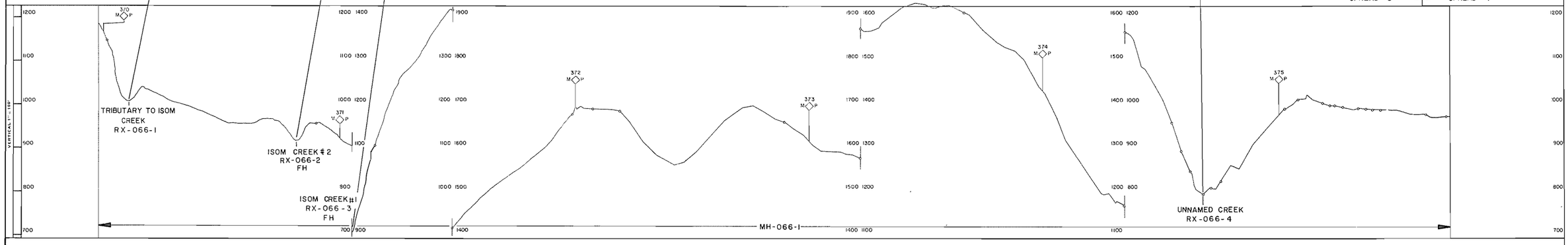
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-13-00-B-E-065

REV: 1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-066-2					----	----	----	----	----	----		
RX-066-3					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-066-1	---	---	---	---	---	---		---	---	---	---	---

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED TO FINAL RIGHT-OF-WAY			
		RELEASED FOR FINAL FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaska Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and proprietary to said Company or to other parties who have furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is considered confidential or proprietary must not be disclosed to others under the freedom of information act, nor used or disclosed for purposes of procurement with any competitive bidding, nor otherwise disclosed by others in any manner prohibited by contract, agreement, law, such as the Federal Trade Secrets Act, 18 USC 1905, or by any rule promulgated pursuant thereto by said Company or its agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 369.9 TO MP 375.7

TOWNSHIP 11N RANGE 11OW, R9W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APES	DATE 1978	FLUOR	DATE 4/4/80
	DATE 4/4/80	NW ALASKA	DATE 4/7/80

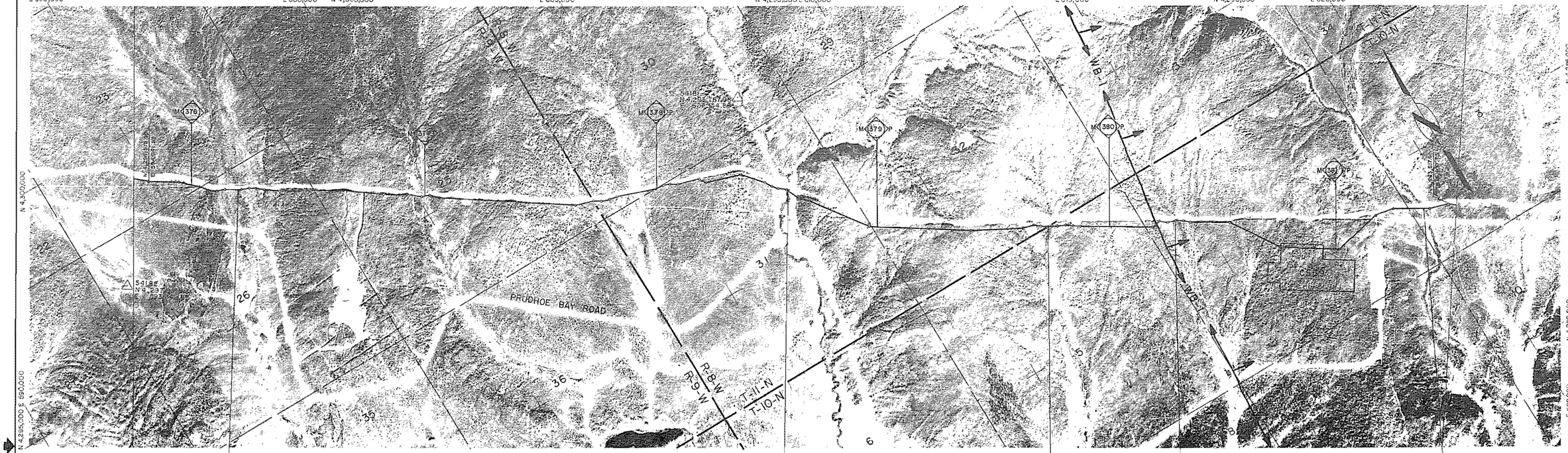
SCALE IN FEET: 1" = 1000'

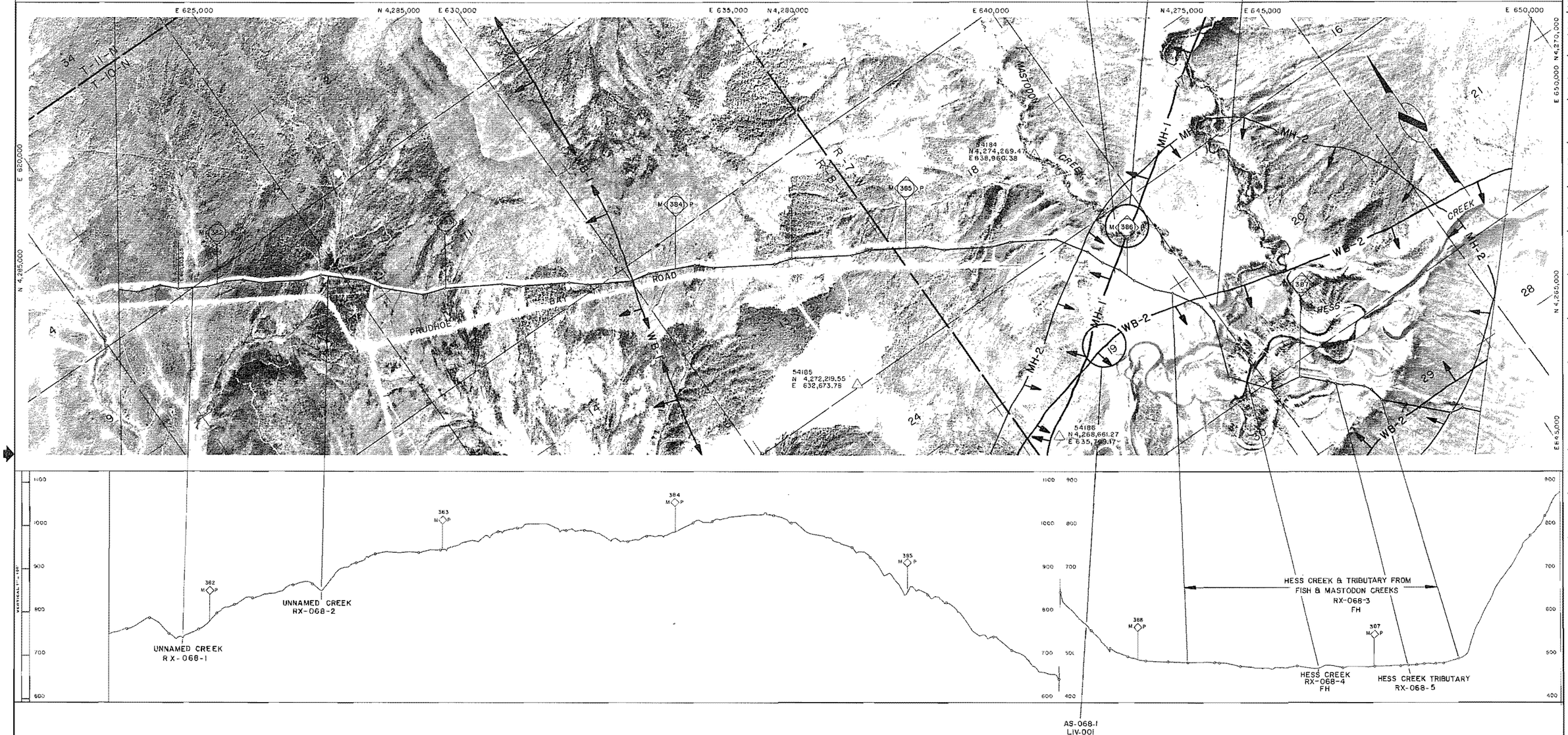
DRAWING NUMBER: 4680-13-00-B-E-066

REV: 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANT'S GROUP


E 595,000
E 600,000
N 4,300,000
E 605,000
N 4,295,000
E 610,000
E 615,000
N 4,290,000
E 620,000
N 4,300,000
N 4,295,000
N 4,290,000
E 590,000
E 620,000
MK(376)P
MK(378)P
MK(379)P
MK(380)P
MK(381)P
PRUDHOE BAY ROAD
R-8-W
R-9-W
T-11-N
T-10-N
WB-1
WB-2
WB-3
WB-4
WB-5
WB-6
WB-7
WB-8
WB-9
WB-10
WB-11
WB-12
WB-13
WB-14
WB-15
WB-16
WB-17
WB-18
WB-19
WB-20
WB-21
WB-22
WB-23
WB-24
WB-25
WB-26
WB-27
WB-28
WB-29
WB-30
WB-31
WB-32
WB-33
WB-34
WB-35
WB-36
WB-37
WB-38
WB-39
WB-40



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-068-3	____	____	____	____	.....	.....	.....	.....	.....	.....	____	____
RX-068-4	____	____	____	____	.....	.....	.....	.....	.....	.....	____	____
FH-068-1					____	____	____	____	____	____		
FH-068-2					____	____	____	____	____	____		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-068-1	____	____	____	____	____	____	.....	.....	.....	.....	.....	____
MH-068-2	____	____	____	____	____	____	.....	.....	.....	.....	.....	____

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	TO MATCH PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and con tains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northern Alaska Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 381.5 TO MP 387.8

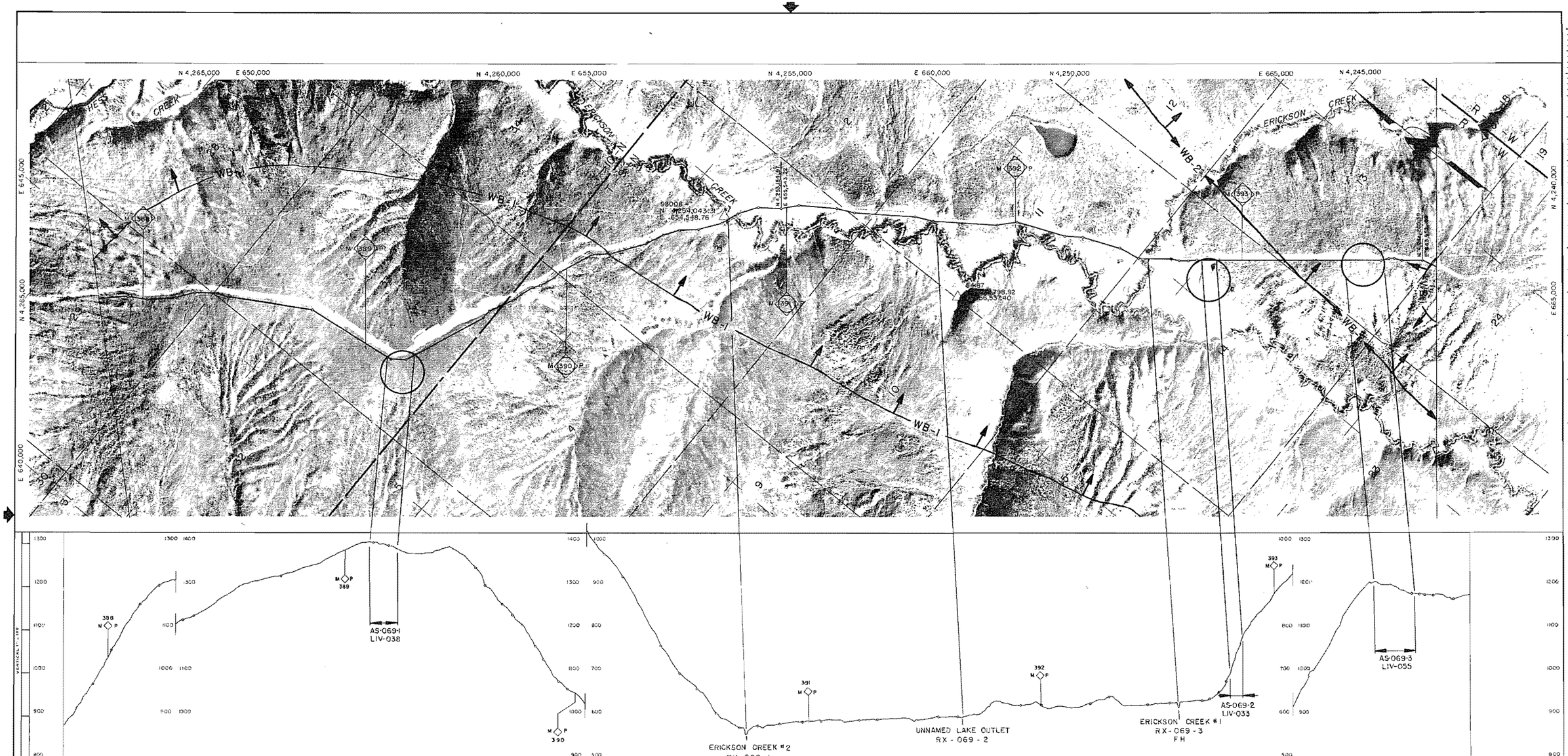
TOWNSHIP T10N T11N RANGE R8W, R7W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA		DATE 1979	FLUOR	DATE 4/18/80	
		DATE 4-8-80	N.W. ALASKAN	DATE 4/17/80	
SCALE IN FEET		DRAWING NUMBER		REV.	
1" = 1000'		4680-14-00-B-E-068		1	

DISTRIBUTION CODE

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
___ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-069-3												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-069-3												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing is a content is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a notice or use agreement. Information contained in this drawing document which is confidential and or proprietary is not subject to transitory disclosure under the Freedom of Information Act, and any disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 387.8 TO MP 393.8

TOWNSHIP T10N, T9N RANGE R7W MERIDIAN R7W

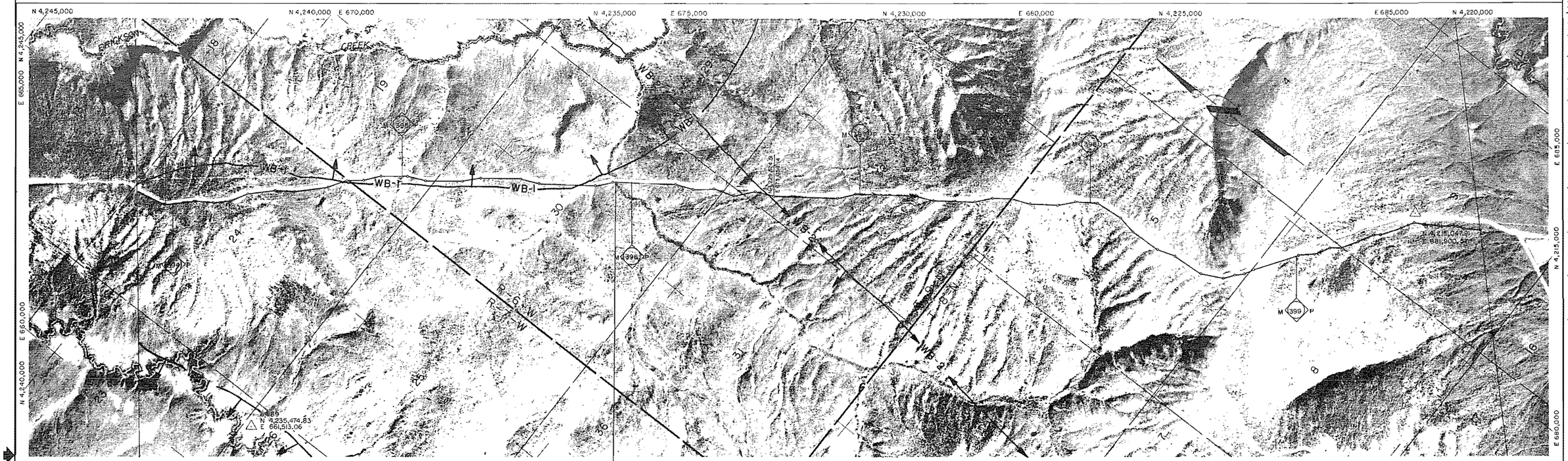
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

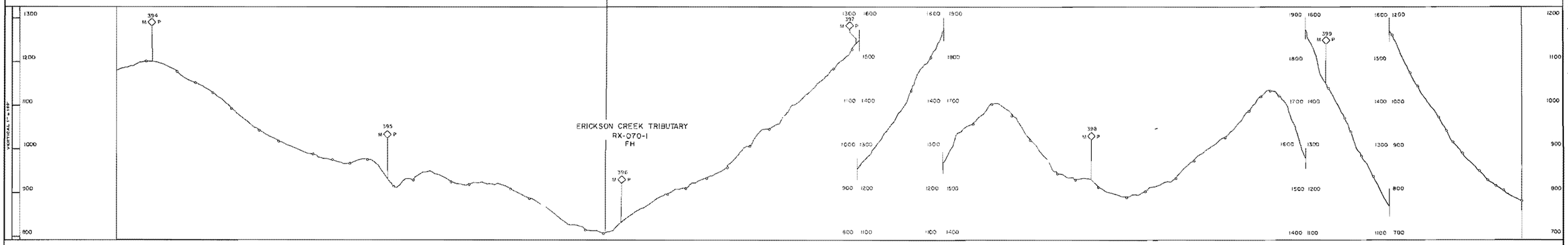
PHOTO AREA	DATE	FLUOR	DATE
[signature]	1978	R. Sibley	4/4/80
	DATE 4/4/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-069	1

DISTRIBUTION CODE _____

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-070-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing is the property of the Alaska Northwest Natural Gas Transportation Company and the information thereon is deemed to be confidential and/or proprietary to said Company or its third parties who furnished such information to the Company pursuant to a number of confidentiality agreements executed in this regard. Any and all information contained in this drawing which is confidential and/or proprietary is also subject to exemptions allowed under the Freedom of Information Act and any disclosure of information contained in this drawing in contravention of applicable law or rule of practice shall not be construed as authorized except as permitted by said Company or its Agent, Northwest Alaska Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 398.8 TO M P 399.8

TOWNSHIP T9N, T8N RANGE R7W, R6W MERIDIAN FAIRBANKS

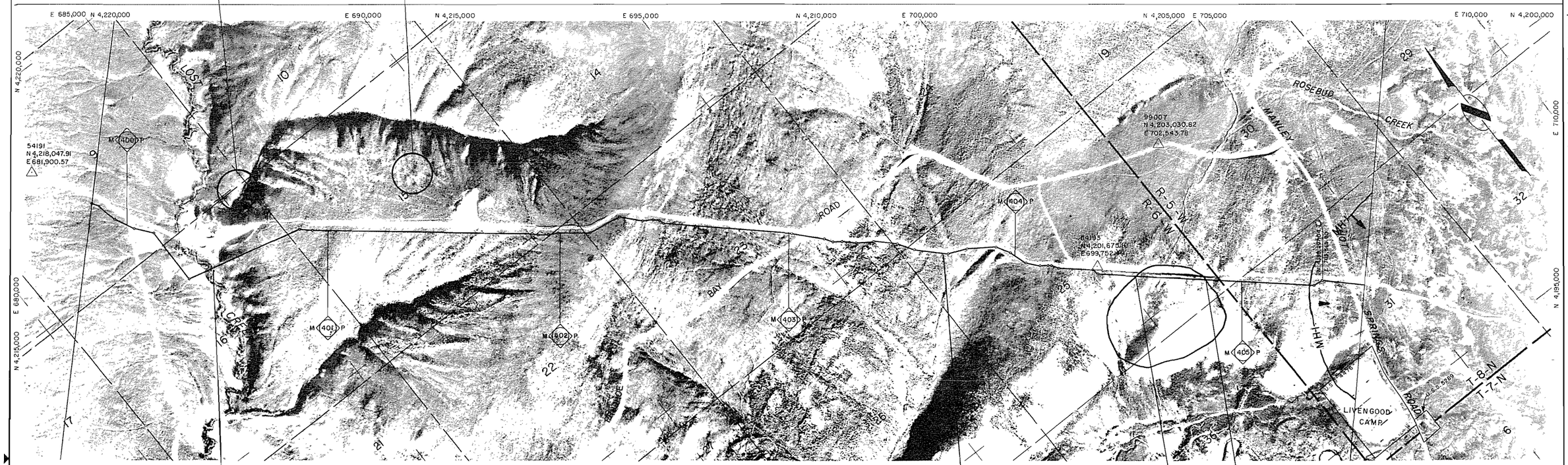
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AMS	DATE 1978	FLUOR [illegible]	DATE 4/1/80
[illegible]	DATE 4/4/80	NW ALASKAN [illegible]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-070	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-071-1					___	___	___	___	___	___	___	

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-071-1	----	----	----	----	----	----						----
AS-071-3	----	----	----	----	----	----						----
MH-071-1	----	----	----	----	----	----		----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	RELOCATED PIPELINE ROUTE & SITES			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This (drawing) (document) is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a written or oral agreement. Information contained in this (drawing) (document) which is confidential or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this (drawing) (document) may also be prohibited by other applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 399.8 TO M.P 405.5

TOWNSHIP T8N RANGE R6W, R5W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

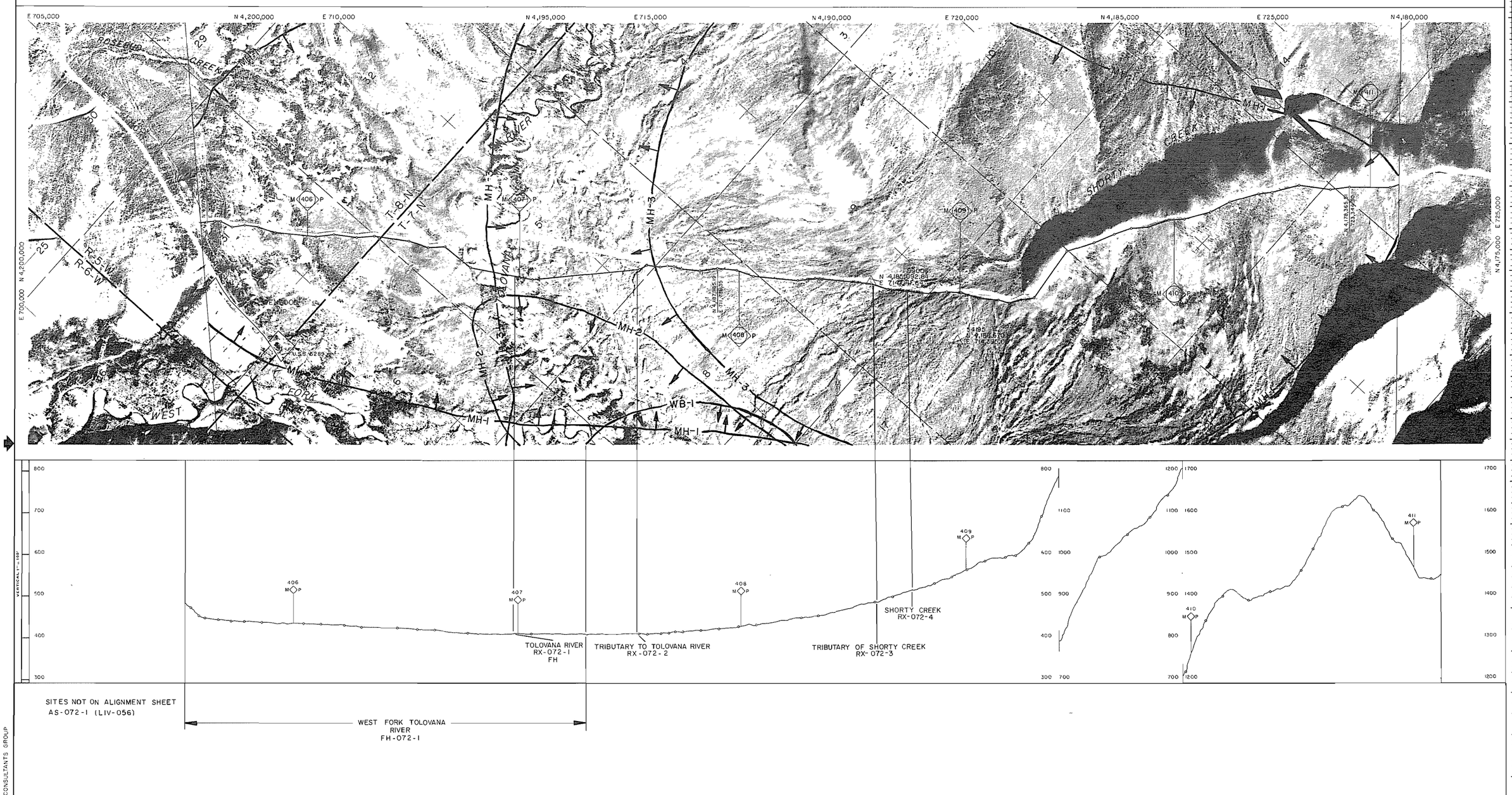
PHOTO APP.	DATE 1978	FLUOR	DATE 4/4/80
	DATE 4/4/80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-14-00-B-E-071

REV.: 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

—— = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-072-1												
FH-072-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-072-1												
MH-072-1												
MH-072-2												
MH-072-3												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 405.5 TO MP 411.1

TOWNSHIP T8N, T7N RANGE R5W MERIDIAN FAIRBANKS

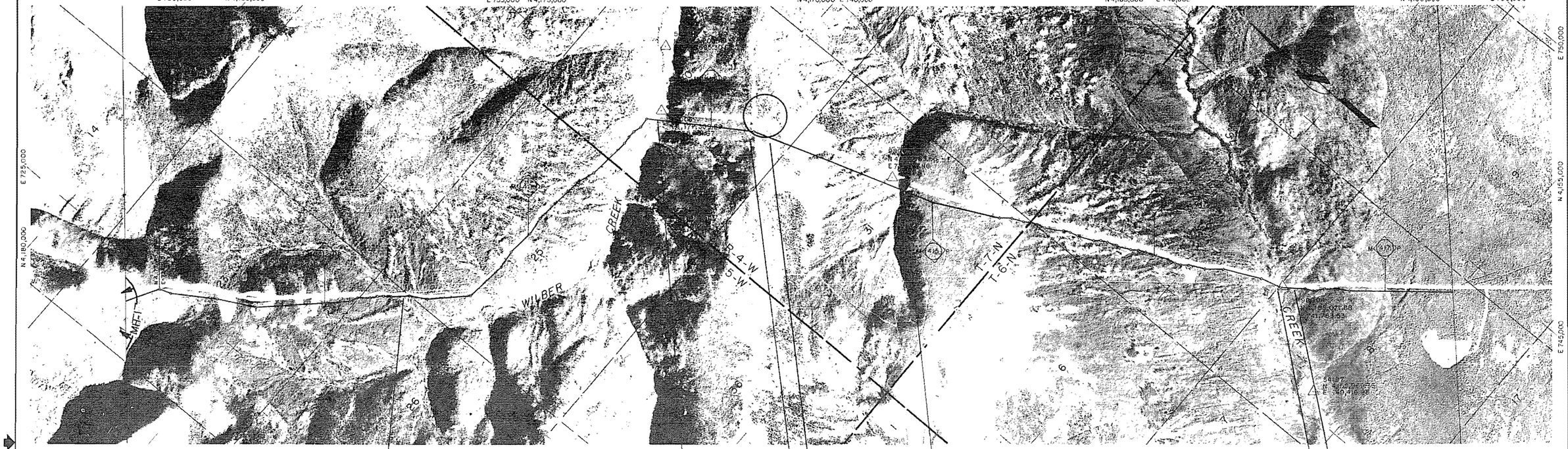
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCS	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/7/80
[signature]	4/4/80	N.W. ALASKAN [signature]	4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-072	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-073-2 RX-073-4					----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-073-1	----	----	----	----	----	----		----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	AS-1 SITE CHANGED TO ROUTE 4 MILE POST RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information which is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or non-disclosure agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in any drawing document may also be prohibited by virtue of statutes such as the Federal Trade Secrets Act. No use or disclosure without prior written permission is granted to Company or its Agent Northern Alaska Energy Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 411 TO MP 417.3

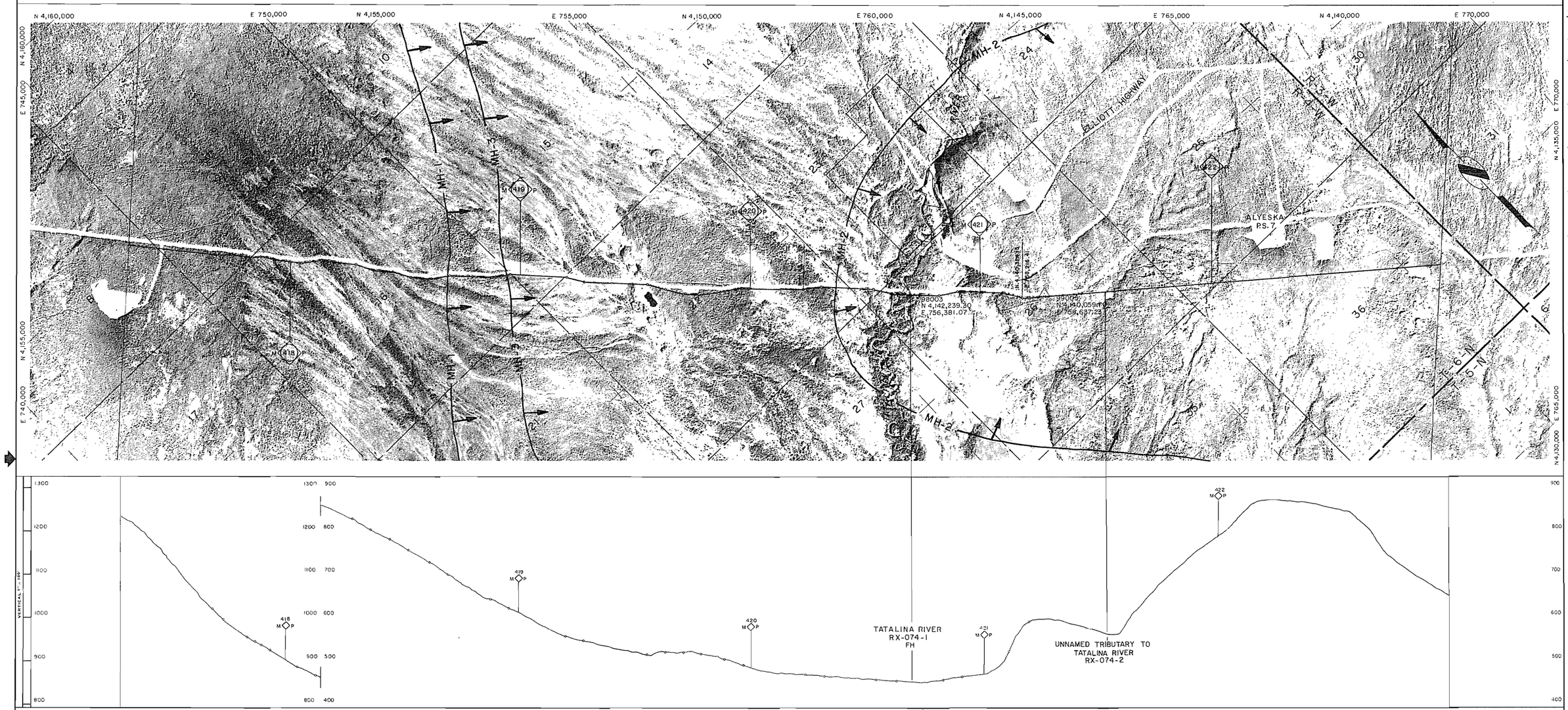
TOWNSHIP 7 N, T6N RANGE R5W, R4W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA		DATE 1978	FLUOR	DATE 4-3-80	
		DATE 4/4/80	N.W. ALASKAN	DATE 4/7/80	
SCALE IN FEET		DRAWING NUMBER			REV
1" = 1000'		4680-14-00-B-E-073			1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-074-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-074-1												
MH-074-2												
MH-074-3												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document or its confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act and use or disclosure of information contained in this drawing document may also be prohibited by a title of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 417.3 TO MP 423.0

TOWNSHIP T6N RANGE R4W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

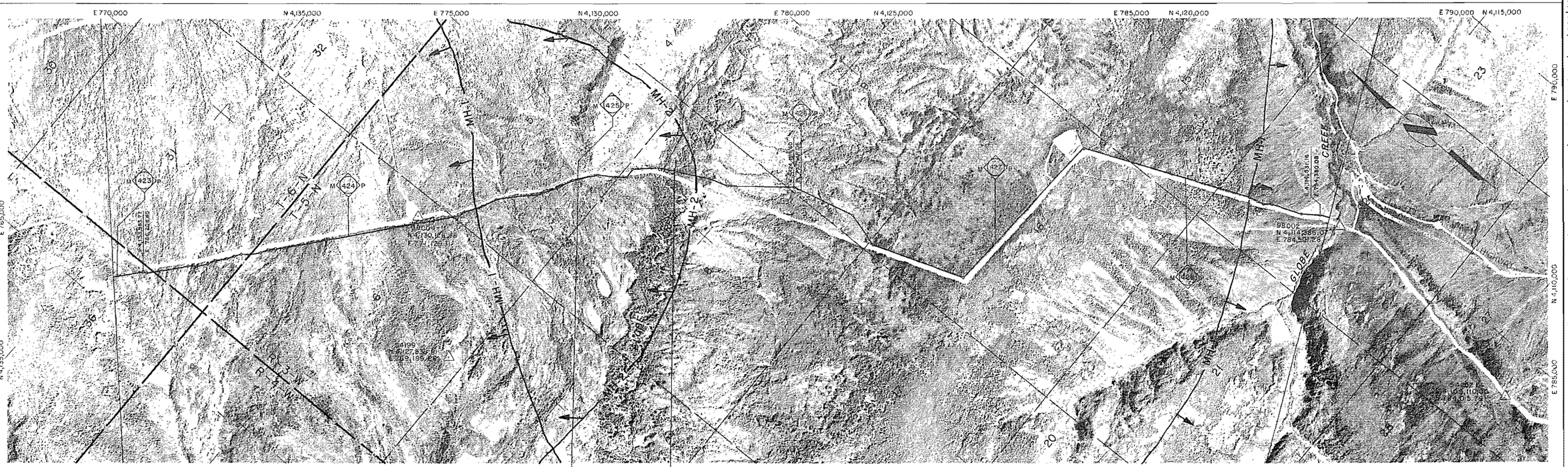
PHOTO AREA	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/4/80
	DATE 4/4/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-074	1

DISTRIBUTION CODE _____

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
EH-075-1



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

——— = *Avoidance Period; Most Activities Prohibited.
- - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-075-2	- - - -	- - - -	- - - -	- - - -	———	———	———	———	———	———	- - - -	- - - -

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-075-1	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
MH-075-2	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
MH-075-3	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
EH-075-1				———	———	———	———	———	———	———		

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing and concept is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is privileged, confidential and is protected by law. The Company or by third parties who have disclosed such information to the Company pursuant to a grant of authority. Information contained on this drawing may not be disclosed, transferred, or used except in accordance with a written agreement signed by the Company or as may subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained without such written agreement may be prohibited by certain civil rights of action, such as the Federal Trade Secrets Act, 18 USC 1905, and criminal sanctions. Except as permitted by such agreement or Alaska Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 423.0 TO MP 428.6

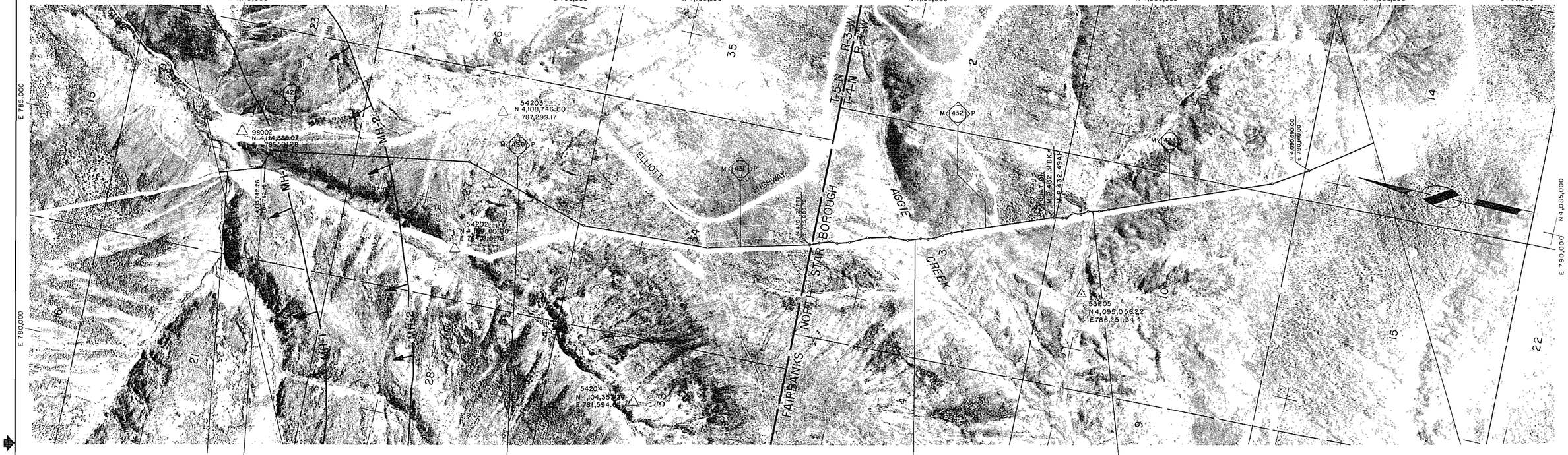
TOWNSHIP T 6N, T5 RANGE R4W, R3W MERIDIAN FAIRBANKS

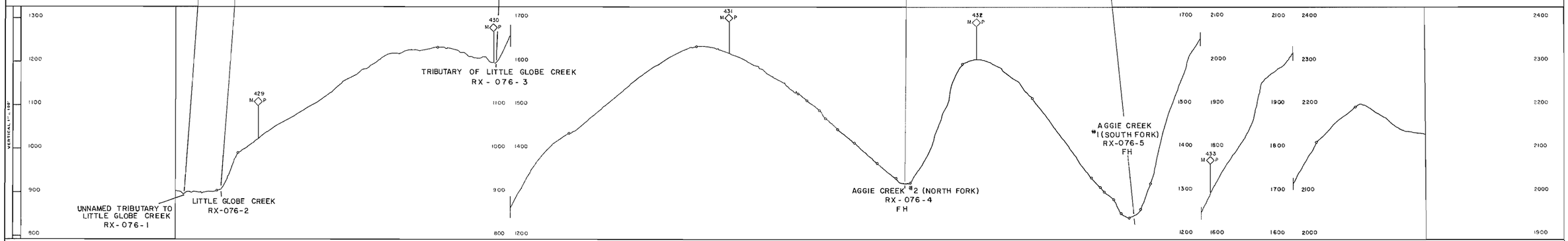
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA	DATE 1978	FLUOR E. Dudley	DATE 4/8/80		
[illegible]	DATE 4/8/80	NW ALASKAN [illegible]	DATE 4/9/80		
SCALE IN FEET		DRAWING NUMBER		REV	
1" = 1000'		4680-14-00-B-E-075		1	

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
- - - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-076-4					- - -	- - -	- - -	- - -	- - -	- - -		
RX-076-5					- - -	- - -	- - -	- - -	- - -	- - -		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-076-1	- - -	- - -	- - -									- - -
MH-076-2	- - -	- - -	- - -									- - -

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	NO WETLANDS IN RIGHT-A-WAY ONLY WETLANDS FOR ETC TRUNK			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing is the property of the Alaska Northwest Natural Gas Transportation Company and contains information that is considered to be confidential and/or proprietary by said Company or by third parties who have furnished such information to the Company pursuant to a contract or other agreement. Information contained on this drawing shall not be used, duplicated, or disclosed to others for any purpose which is contrary to, or in derogation of, the interests of the Company. Information contained on this drawing may also be prohibited by other applicable laws, such as the Federal Trade Secrets Act, Section 1905 of Title 18 of the United States Code, and/or the Trade Secrets Act, Section 10(d) of the Export Administration Act of 1979, as amended, or any successor act.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 428.6 TO MP 433.9

TOWNSHIP T5N, T4N RANGE R3W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

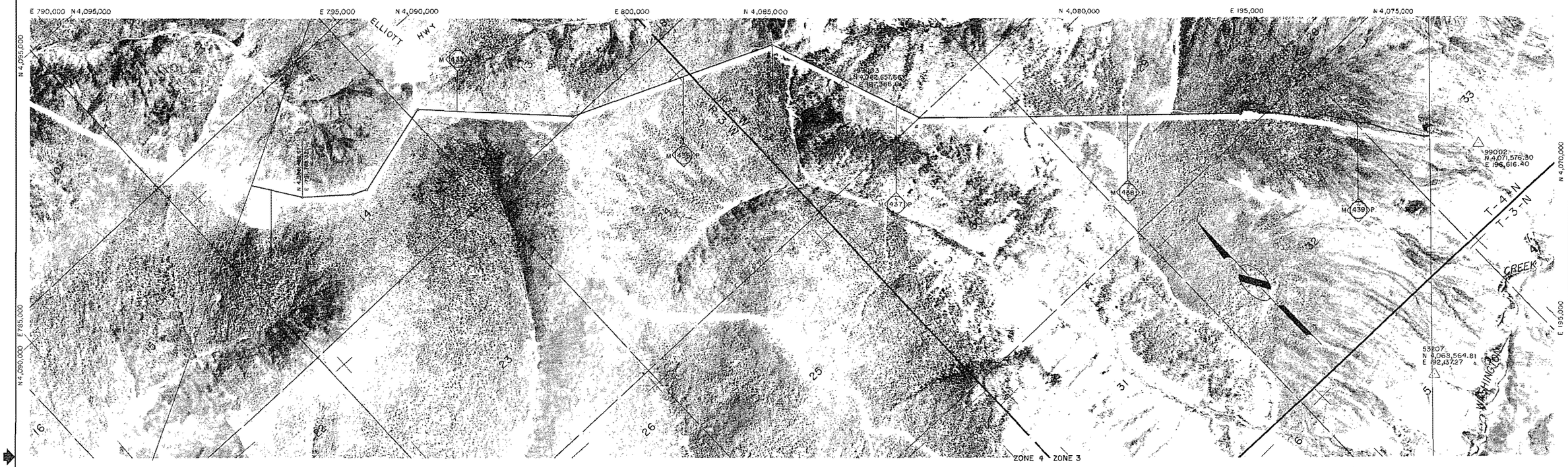
PHOTO AND DRAWN	DATE 1978	FLUOR K. Nikolay	DATE 4/8/80
	DATE 4/8/80	N.W. ALASKAN Anderson	DATE 4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-14-00-B-E-076 | REV: 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

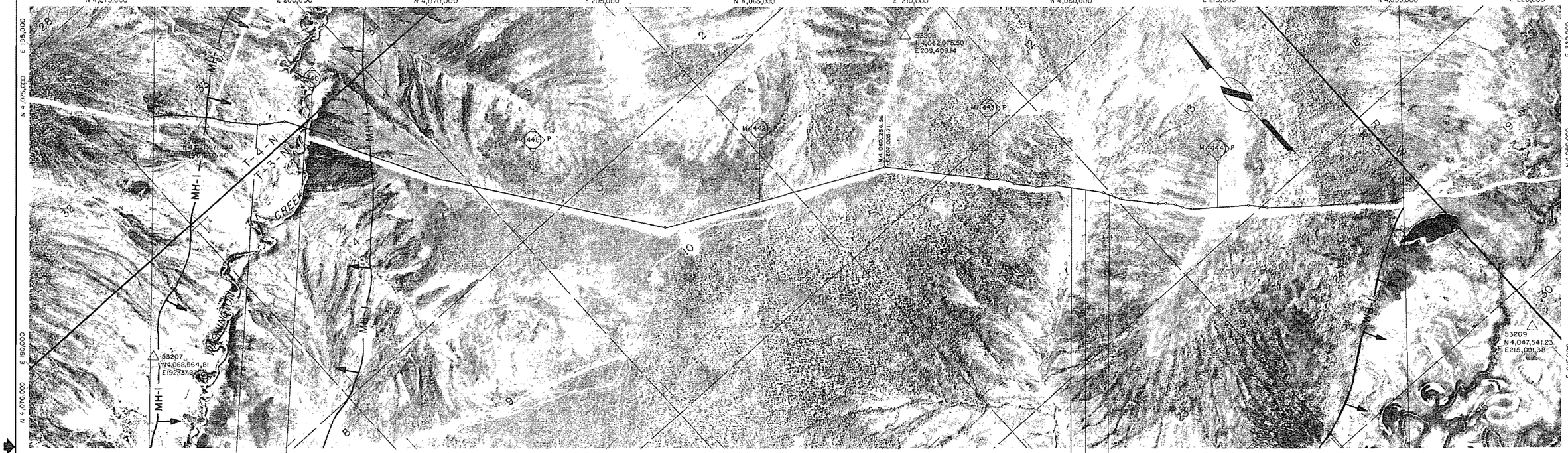
NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			
		AS-BUILT SYSTEM REVISIONS			

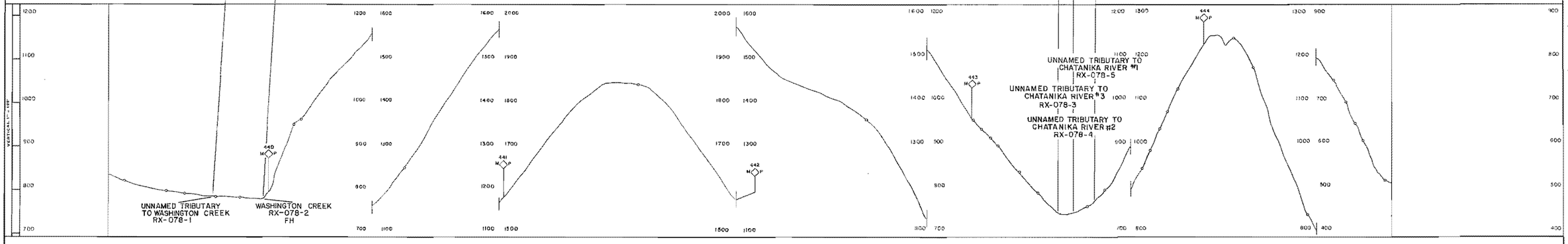
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

[boilerplate boilerplate boilerplate





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-078-2	____	____	____	____	____	____	____	____	____	____	____	____

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-078-1	____	____	____	____							.....	.....

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 439.3 TO MP 444.8

TOWNSHIP T 4N, T 3N RANGE R 2W MERIDIAN FAIRBANKS

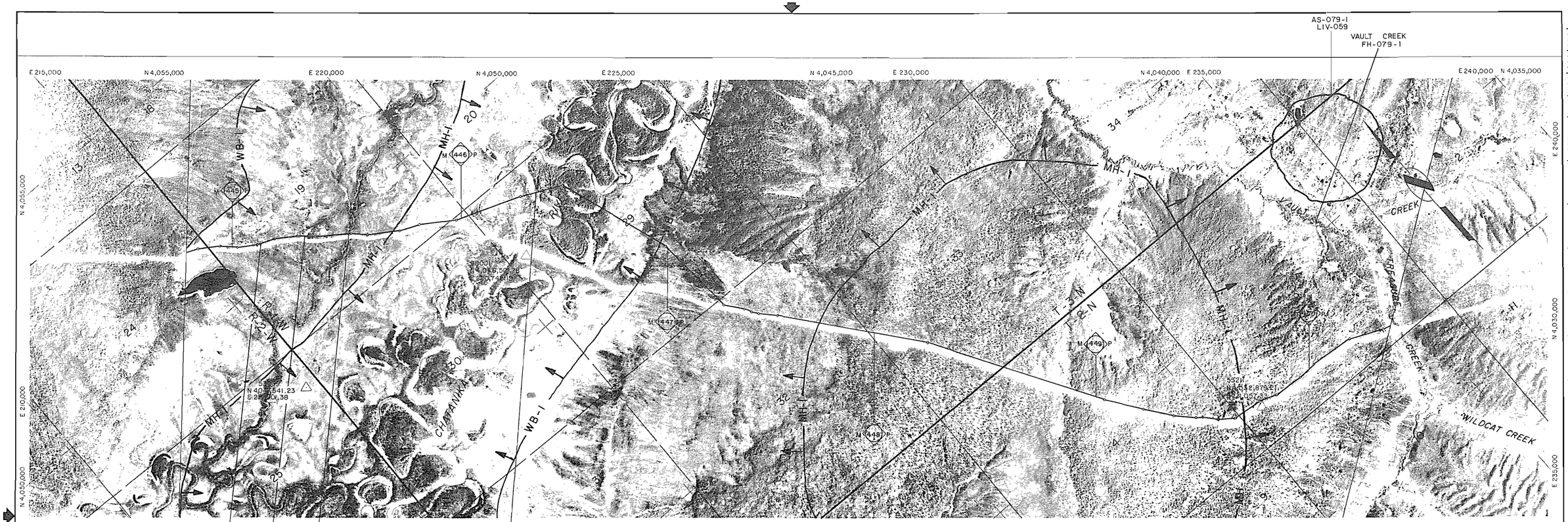
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

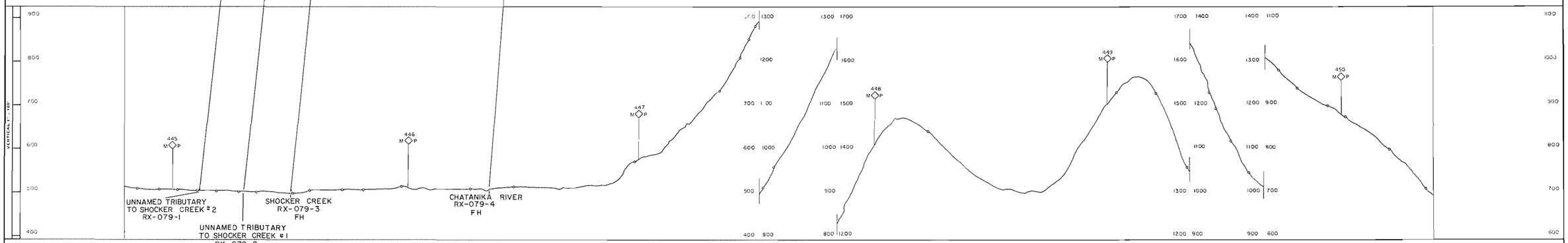
PHOTO MES.	DATE 1978	FLUOR	DATE 4/4/80
	DATE 4/4/80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-078	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-079-1					-----	-----	-----	-----	-----	-----		
RX-079-3					-----	-----	-----	-----	-----	-----		
RX-079-4					-----	-----	-----	-----	-----	-----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-079-1	-----	-----	-----	-----								-----
AS-079-1	-----	-----	-----	-----								-----

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

[boilerplate boilerplate boilerplate



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

***LEGEND**

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

- ____ = *Avoidance Period; Most Activities Prohibited.
- ..... = *Restricted Period; Some Activities Prohibited.
- x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-080-1					----	----	----	----	----			

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-080-1	----	----	----	----								----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FEDERAL FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company, or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 450.4 TO MP 455.9

TOWNSHIP T2N RANGE R1W MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

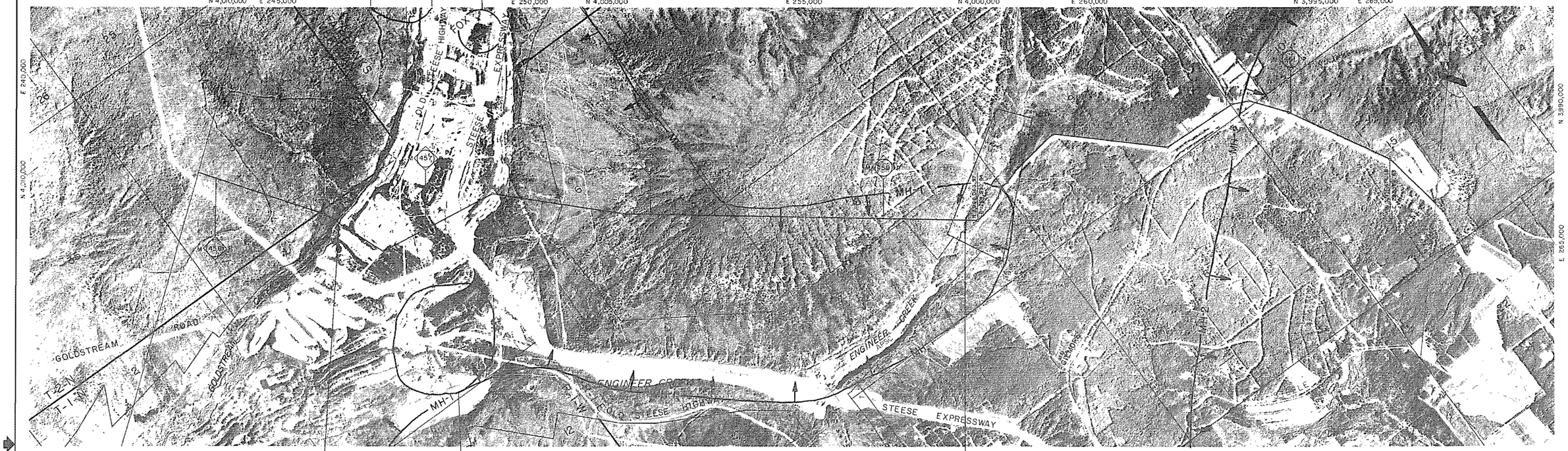
PHOTO APP.	DATE 1978	FLUOR	DATE 4/4/80
	DATE 4/4/80	NW ALASKAN	DATE 4/7/80

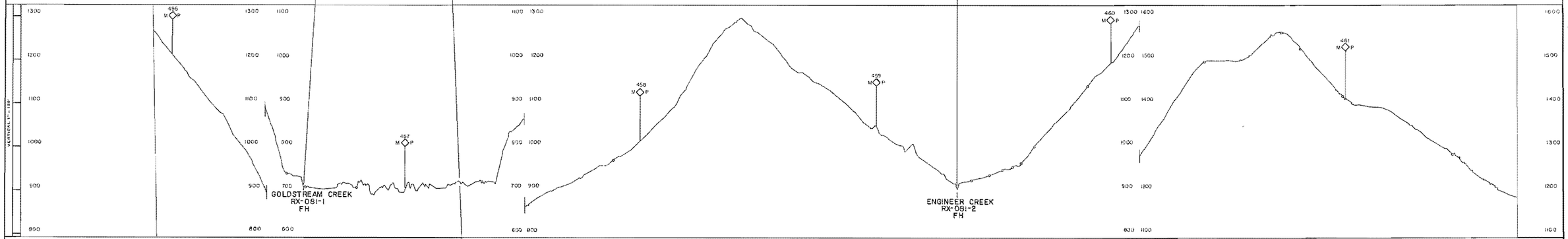
SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-14-00-B-E-080

REV. 1

DISTRIBUTION CODE





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-081-1					.....	.....	.....	.....	.....	.....		
RX-081-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-081-1	----	----	----	----	----	----	----	----	----	----	----	----
AS-081-2	----	----	----	----	----	----	----	----	----	----	----	----
AS-081-3	----	----	----	----	----	----	----	----	----	----	----	----
MH-081-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-081-2	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR PERMITTING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or any Joint parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any or disclosure of information contained in this drawing/document may also be withheld by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

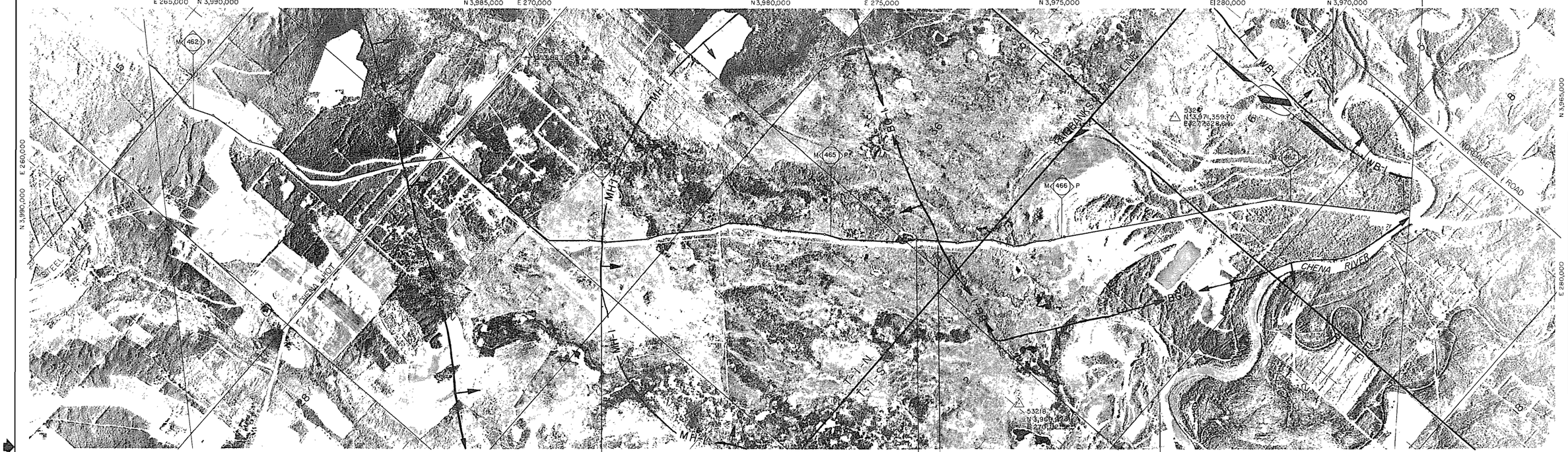
MP 455.9 TO MP 461.7

TOWNSHIP T2N, RANGE R1W, R1E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPV	DATE 1978	FLUOR	DATE 4/7/80		
	DATE 4/4/80	NW ALASKAN	DATE 4/7/80		
SCALE IN FEET		DRAWING NUMBER		REV.	
1" = 1000'		4680-14-00-B-E-081		1	

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-082-1												
FH-082-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-082-1	- - -	- - -	- - -	- - -	- - -				- - -	- - -		- - -
MH-082-1	- - -	- - -	- - -	- - -	- - -							- - -
MH-082-2	- - -	- - -	- - -	- - -	- - -							- - -

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

[boilerplate]

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 461.7 TO MP 467.5

TOWNSHIP T1N, T1S RANGE R1E, R2E MERIDIAN FAIRBANKS

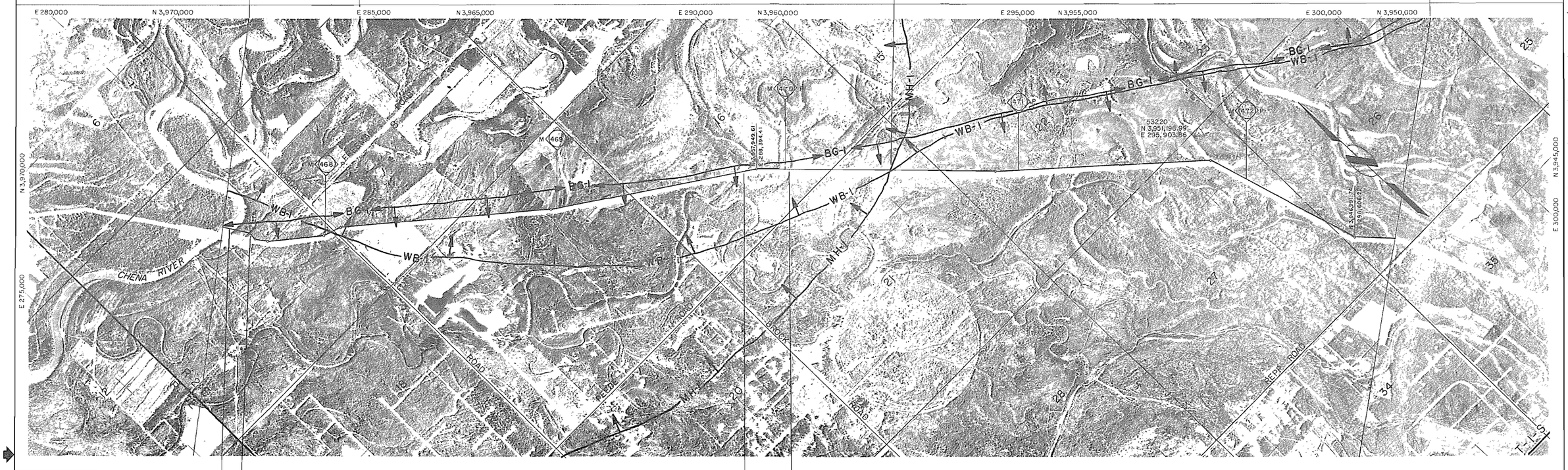
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO REQ'S	DATE	1979	FLUOR	DATE 4/7/80
[illegible]	DATE	4-4-80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-14-00-B-E-082	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-083-1												
RX-083-3					----	----	----	----				
RX-083-4					----	----	----	----				
FH-083-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-083-1	----	----	----	----	----	----			---	---		---
MH-083-1	----	----	----	----								---
MH-083-2	----	----	----	----	----	----						---

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaska Northwest Natural Gas Transportation Company or its subsidiaries or is loaned to it, and is copyrighted and proprietary to that Company. It is delivered on the express condition that neither it nor the Company's right to the use of the information contained in it will be used, reproduced or disclosed to others except as specifically permitted in writing by the Company. The delivery of this drawing/document does not convey any rights to it or to the information contained in it except as specifically stated in writing. It is not subject to mandatory disclosure under the Freedom of Information Act and is exempt from disclosure to the extent that this drawing/document may be withheld from disclosure to the public under exemption (b)(4) of such Act. No use of it is to be made by the Federal Trade Secrets Act. No use of it is to be made by the Federal Trade Commission or its agents or Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 467.5 TO MP 472.7

TOWNSHIP T1S RANGE R2E MERIDIAN FAIRBANKS

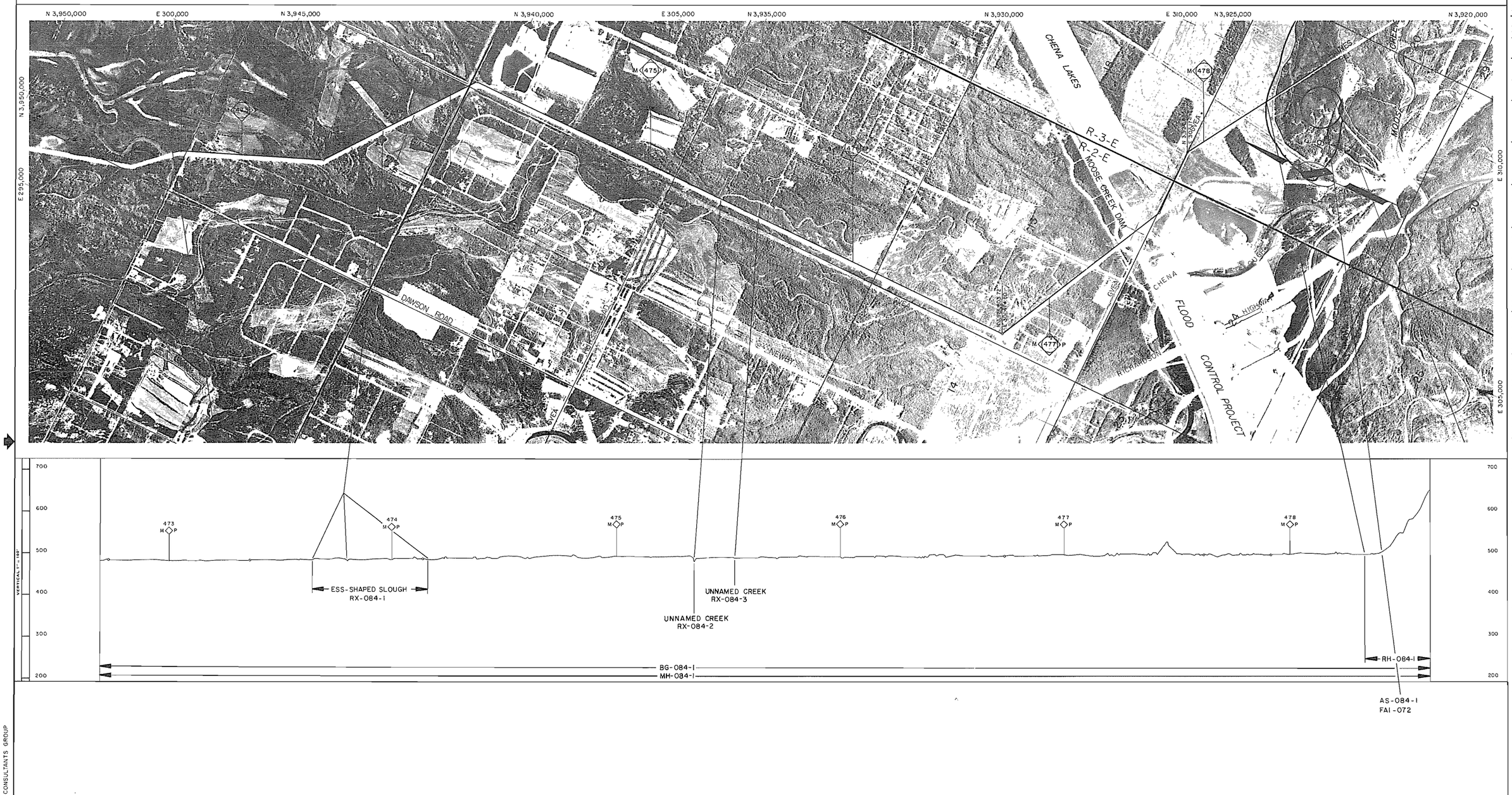
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE	1978	FLUOR	DATE	4/3/80
ARCH	DATE	4/7/80	NW ALASKAN	DATE	4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-083	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-084-1												
BG-084-1												
MH-084-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

4B" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 472.7 TO MP 478.6

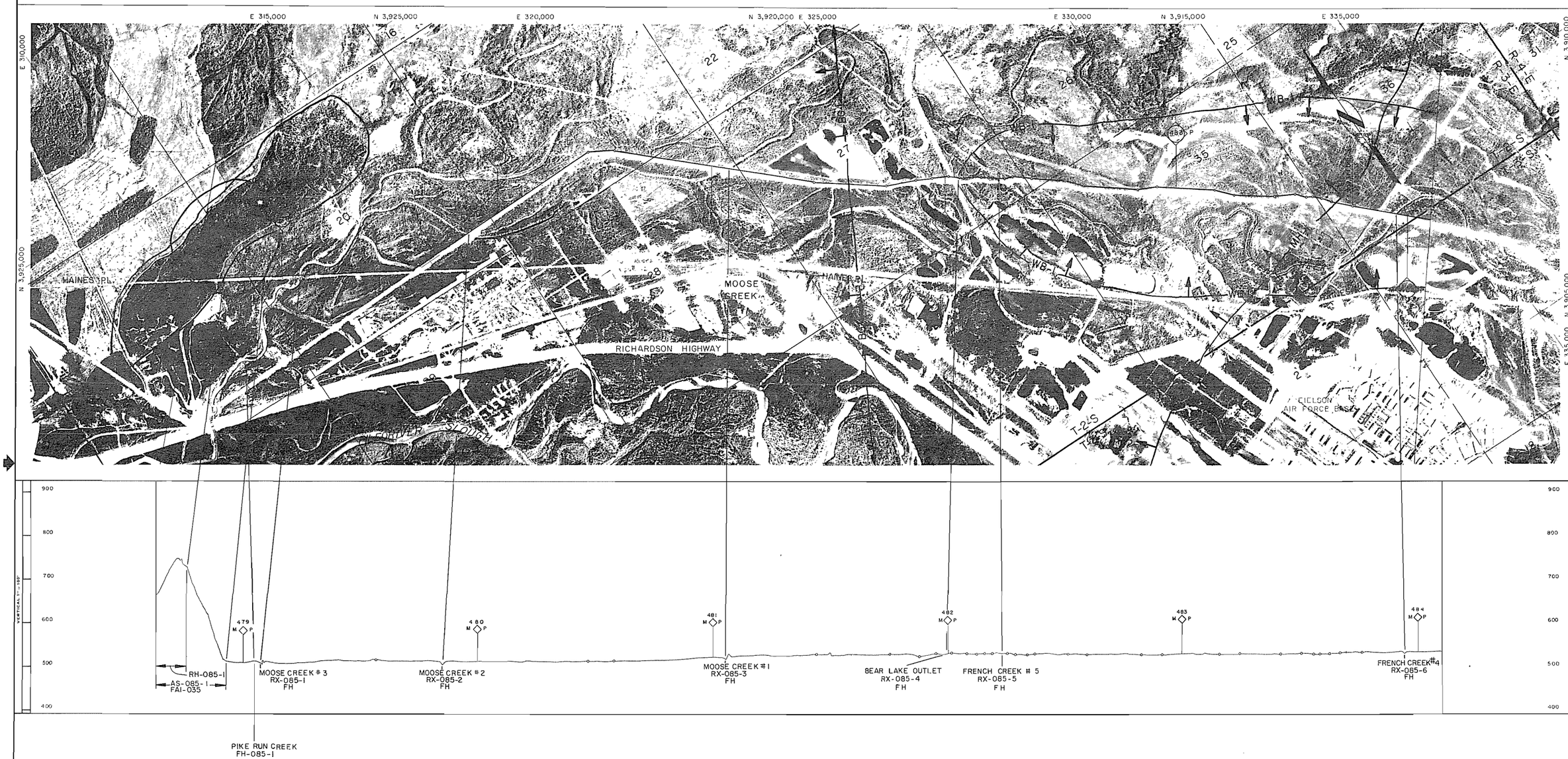
TOWNSHIP T15,T2S RANGE R2E,R3E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AND	DATE	FLUOR	DATE
James P. Webb	1978	R. Sibley	4/7/80
	4/4/80	N.W. ALASKAN	4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-084	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-085-1												
RX-085-2												
RX-085-3												
RX-085-4												
RX-085-5												
RX-085-6												
FH-085-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-085-1												
AS-085-1												
BG-085-1												
MH-085-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 478 6 TO MP 484 1

TOWNSHIP T2S, T3S RANGE R3E MERIDIAN FAIRBANKS

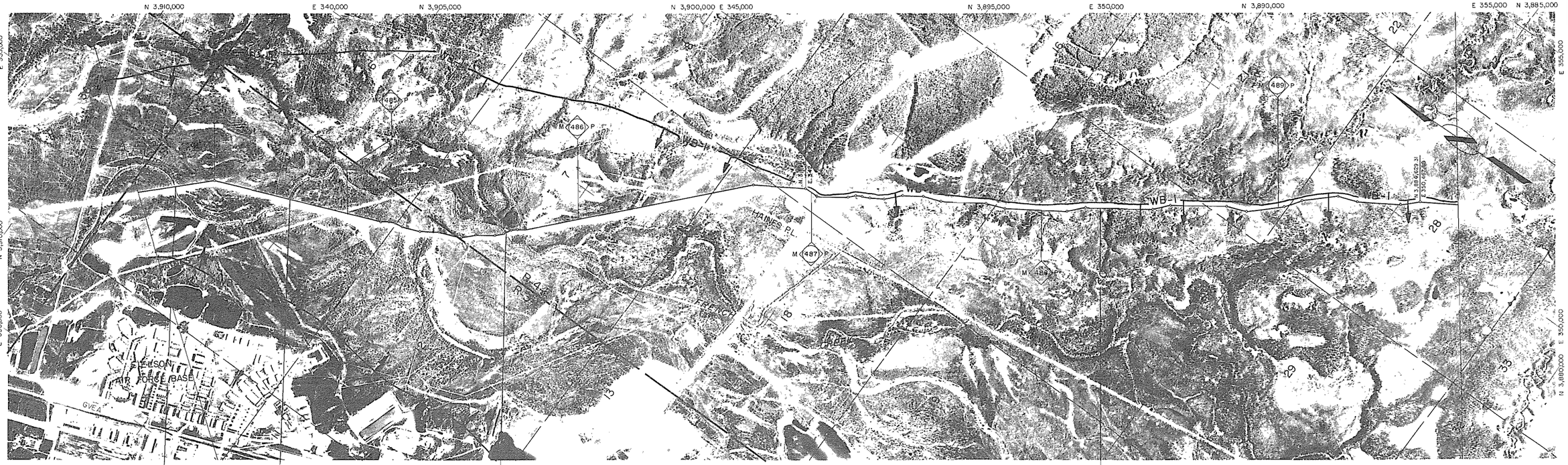
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

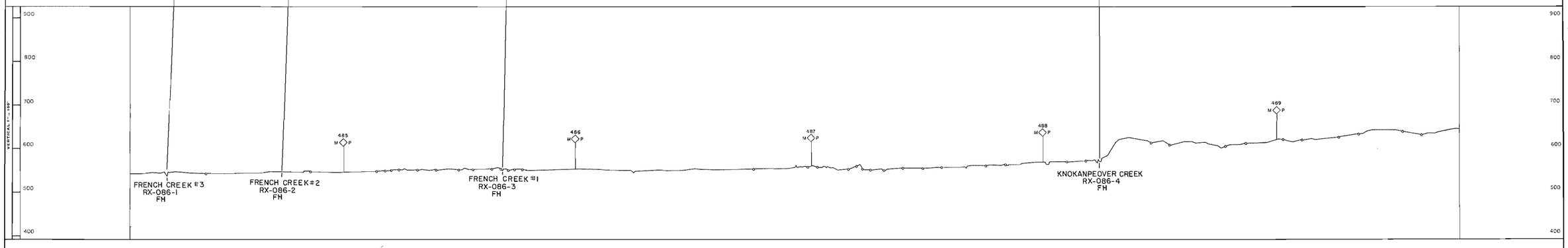
PHOTO APPD	DATE 1978	FLUOR R. Sibley	DATE 4/7/80
James Nichols	DATE 4/4/80	N.W. ALASKAN P. Assoc	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-085	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
- - - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-086-1					- - -	- - -	- - -	- - -	- - -	- - -	- - -	
RX-086-2					- - -	- - -	- - -	- - -	- - -	- - -	- - -	
RX-086-3					- - -	- - -	- - -	- - -	- - -	- - -	- - -	
RX-086-4					_____	_____	_____	_____	_____			

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 484.1 TO MP 489.8

TOWNSHIP T3S RANGE R3E,R4E MERIDIAN FAIRBANKS

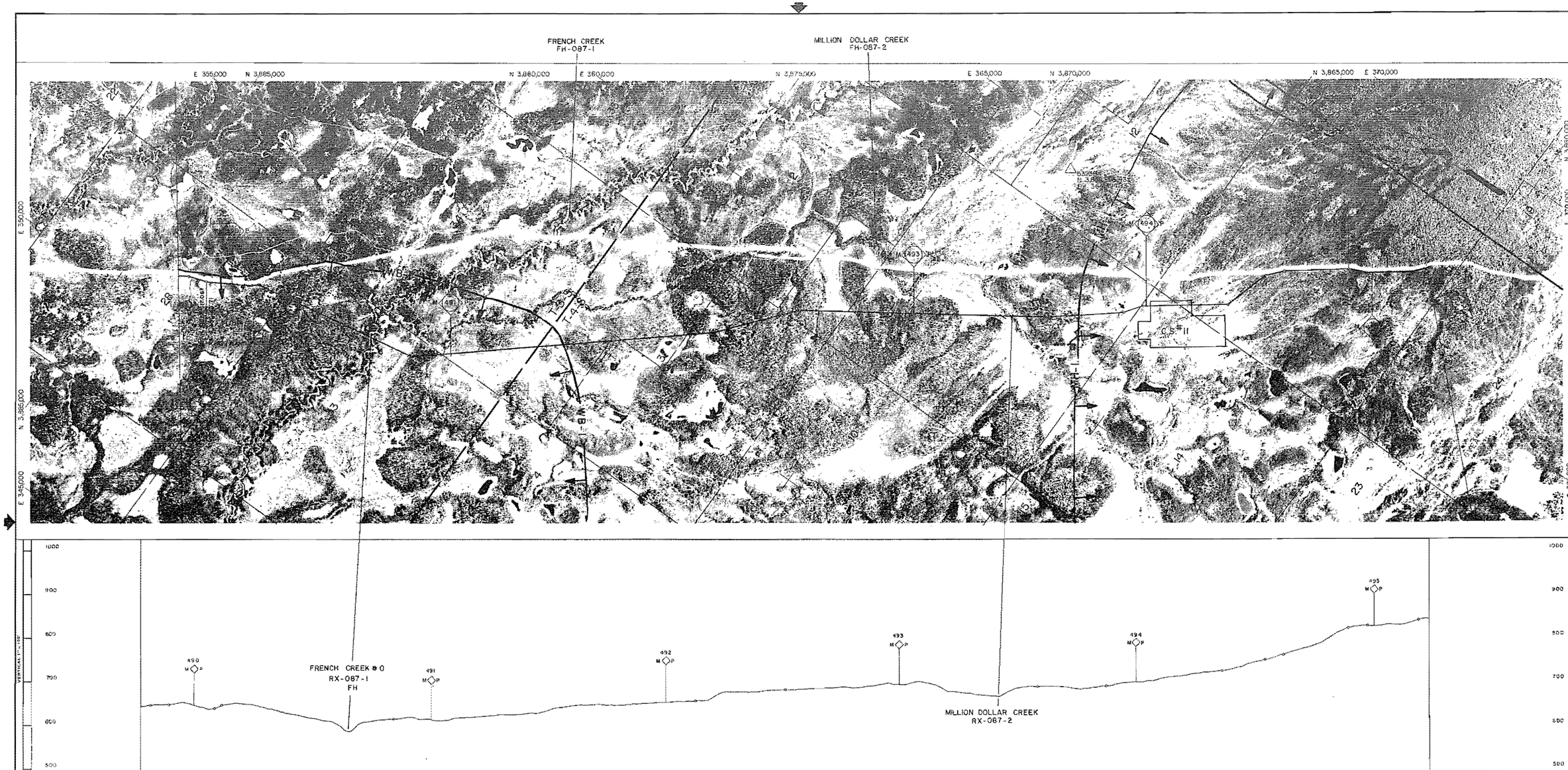
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO MAPS	DATE 1978	FLUOR	DATE 4-7-80
	DATE 4/4/80	NW ALASKA	DATE 4/7/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-14-00-B-E-086 REV. 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

—— = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-087-1												
FH-087-1												
FH-087-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-087-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is derived to be confidential and/or proprietary to said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 499.8 TO MP 495.2

TOWNSHIP T3S, T4S RANGE R4E MERIDIAN FAIRBANKS

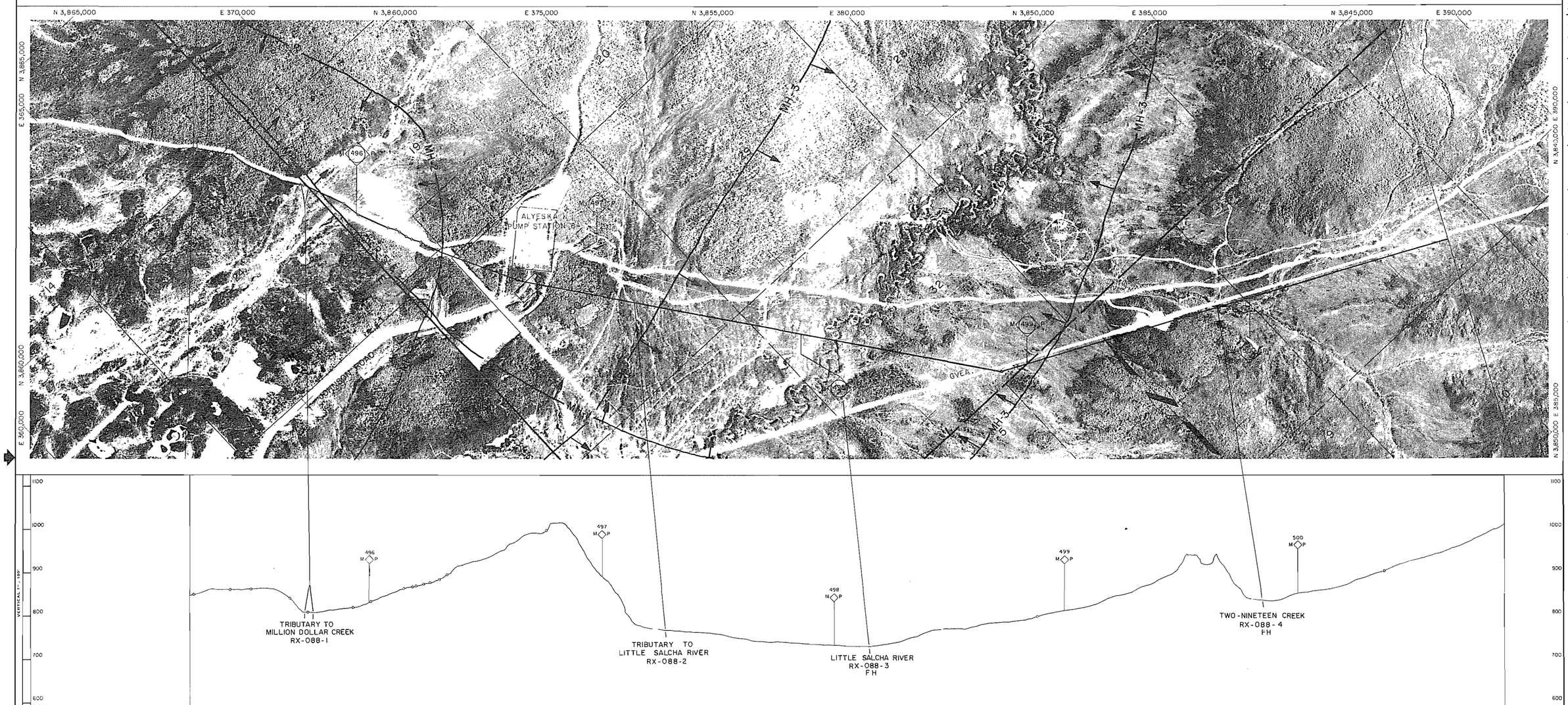
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA	DATE	FLUOR	DATE
	1978		4/8/80
	DATE 4/8/80	NW ALASKAN	DATE 4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-087	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

—— = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-088-3												
RX-088-4												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-088-2												
MH-088-3												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or non-agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any or disclosure of information contained in this drawing document may also be prohibited by writer of applicable laws such as the Federal Trade Secrets Act. Therefore, disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 495.2 TO MP 500.9

TOWNSHIP T4S, T5S RANGE R4E, R5E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO ARCH	DATE 1978	FLUOR R. Dibley	DATE 4/8/80
[illegible]	DATE 4/8/80	N.W. ALASKAN [illegible]	DATE 4/9/80

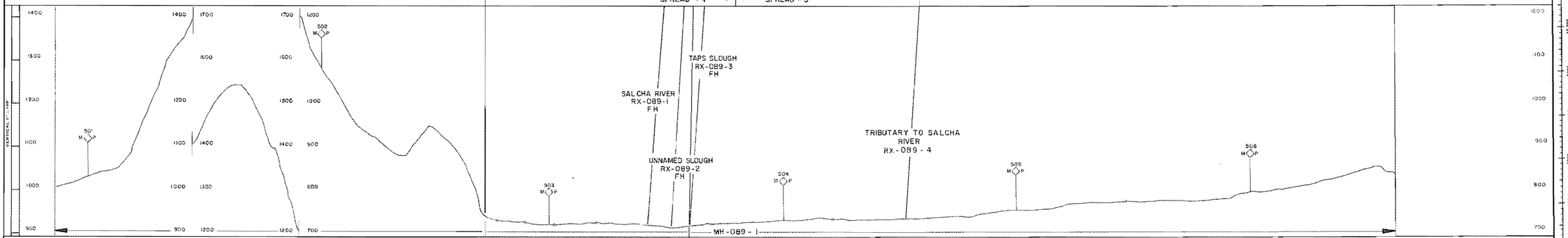
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-14-00-B-E-088	1

DISTRIBUTION CODE

SALCHA RIVER
FH-089-2



SPREAD #4 — SPREAD #5



SITES NOT ON ALIGNMENT SHEET
EH-089-1
EH-089-2

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-089-1	____	____	____	____	____	____	____	____	____	____	____	____
RX-089-2	____	____	____	____	____	____	____	____	____	____	____	____
RX-089-3					_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		
FH-089-1	____	____	____	____	____	____	____	____	____	____	____	____
FH-089-2	____	____	____	____	____	____	____	____	____	____	____	____

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-089-2	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	____	____	____	____	____	____	____	_ _ _ _
EH-089-1					____	____	____	____				
EH-089-2					____	____	____	____				

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		REVISED PIPELINE ROUTE			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act and use or disclosure of such information can be made in this document only to the extent provided by law or applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Alaska Northwest Natural Gas Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 500.9 TO MP 506.6

TOWNSHIP T 5S RANGE R5E,R6E MERIDIAN FAIRBANKS

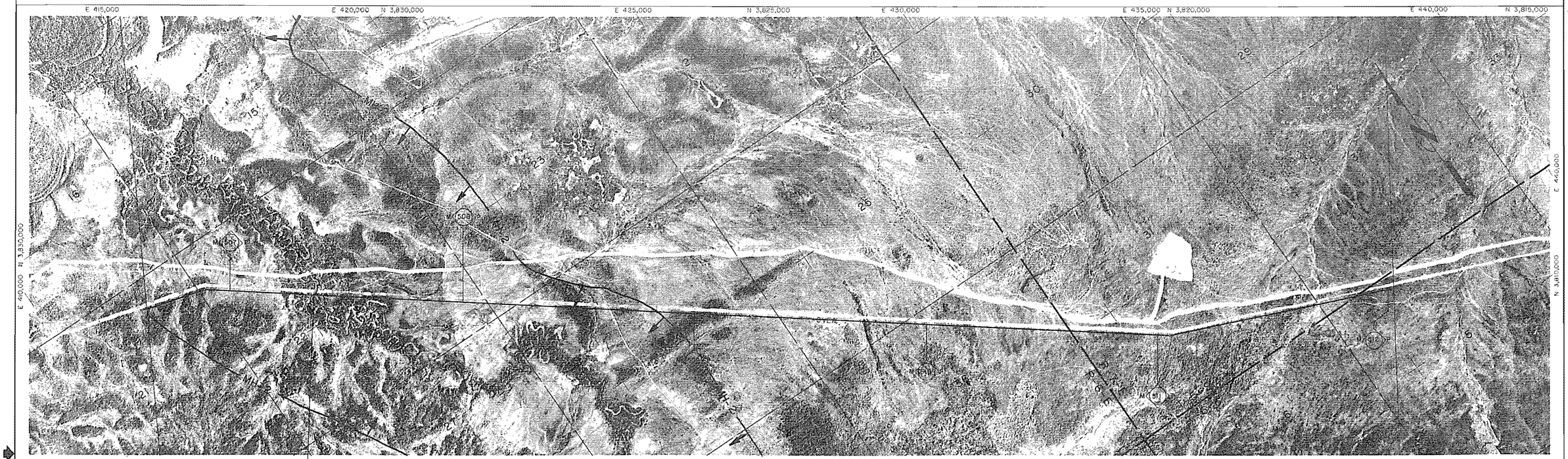
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

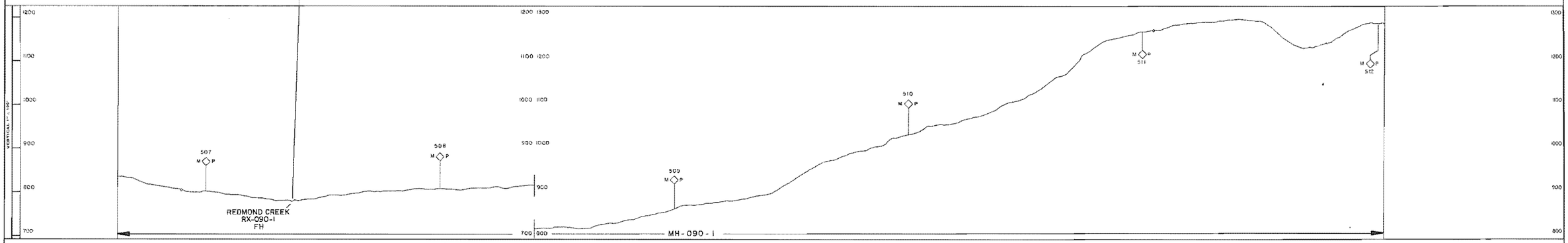
PHOTO AREA	DATE 1979	FLUOR	DATE 4/2/80
	DATE 4/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-089 REV: 1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.

---- = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-090-1					___	___	----	----	___	___		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-090-2	----	----	----	----								----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOSTS			
		RELEASED FOR BIDDING			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANT'S GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained on this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained on this drawing/document may also be prohibited by virtue of other law such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

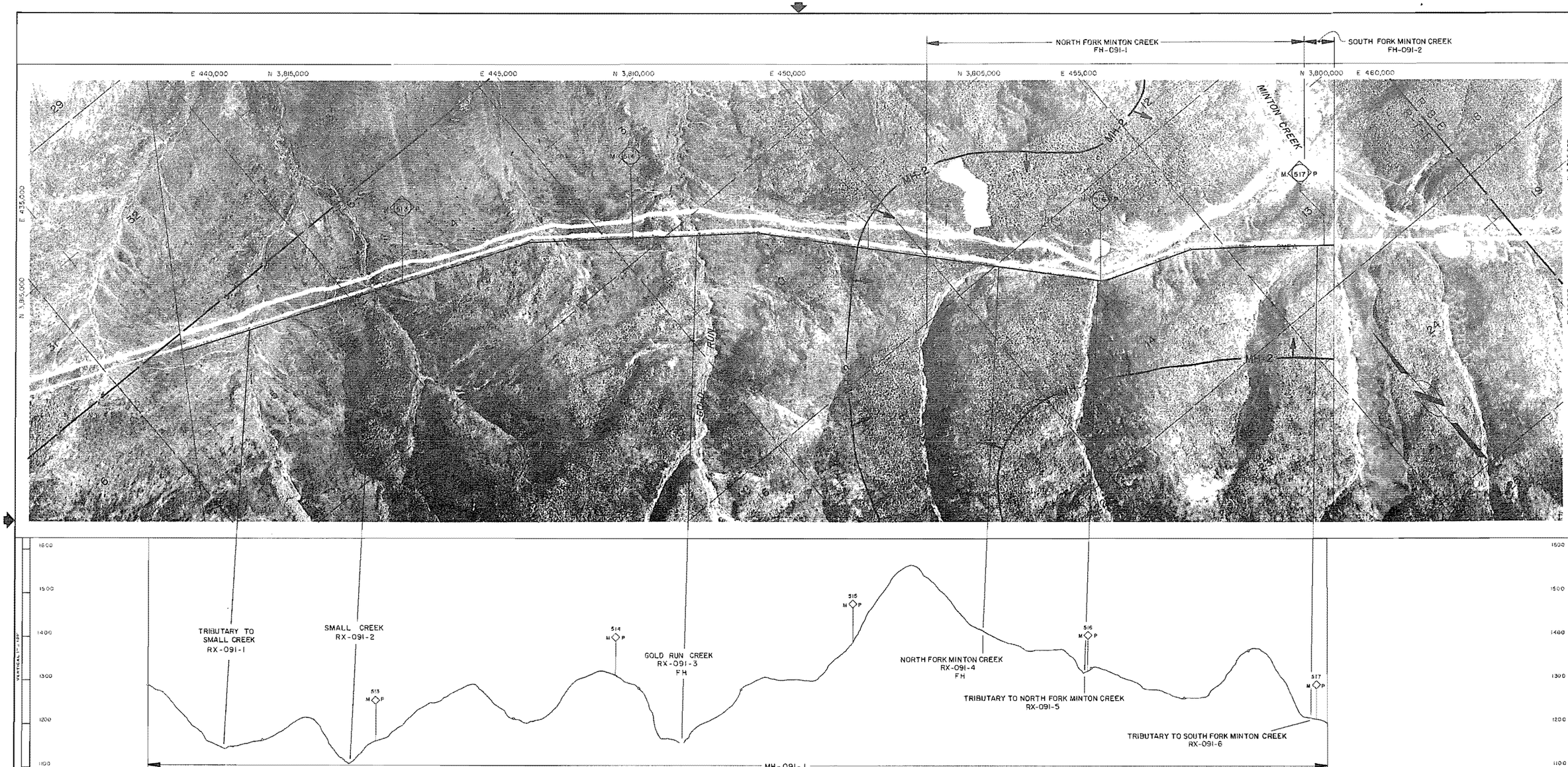
MP 505.6 TO MP 512.0

TOWNSHIP T55,T65 RANGE R66,67E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR	DATE 4/7/80		
	DATE 4/2/80	NW ALASKAN	DATE 4/2/80		
SCALE IN FEET		DRAWING NUMBER		REV.	
1" = 1000'		4680-15-00-B-E-090		1	

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-091-4												
RX-091-3												
FH-091-1												
FH-091-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-091-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FIRE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 512 0 TO M P 517 0

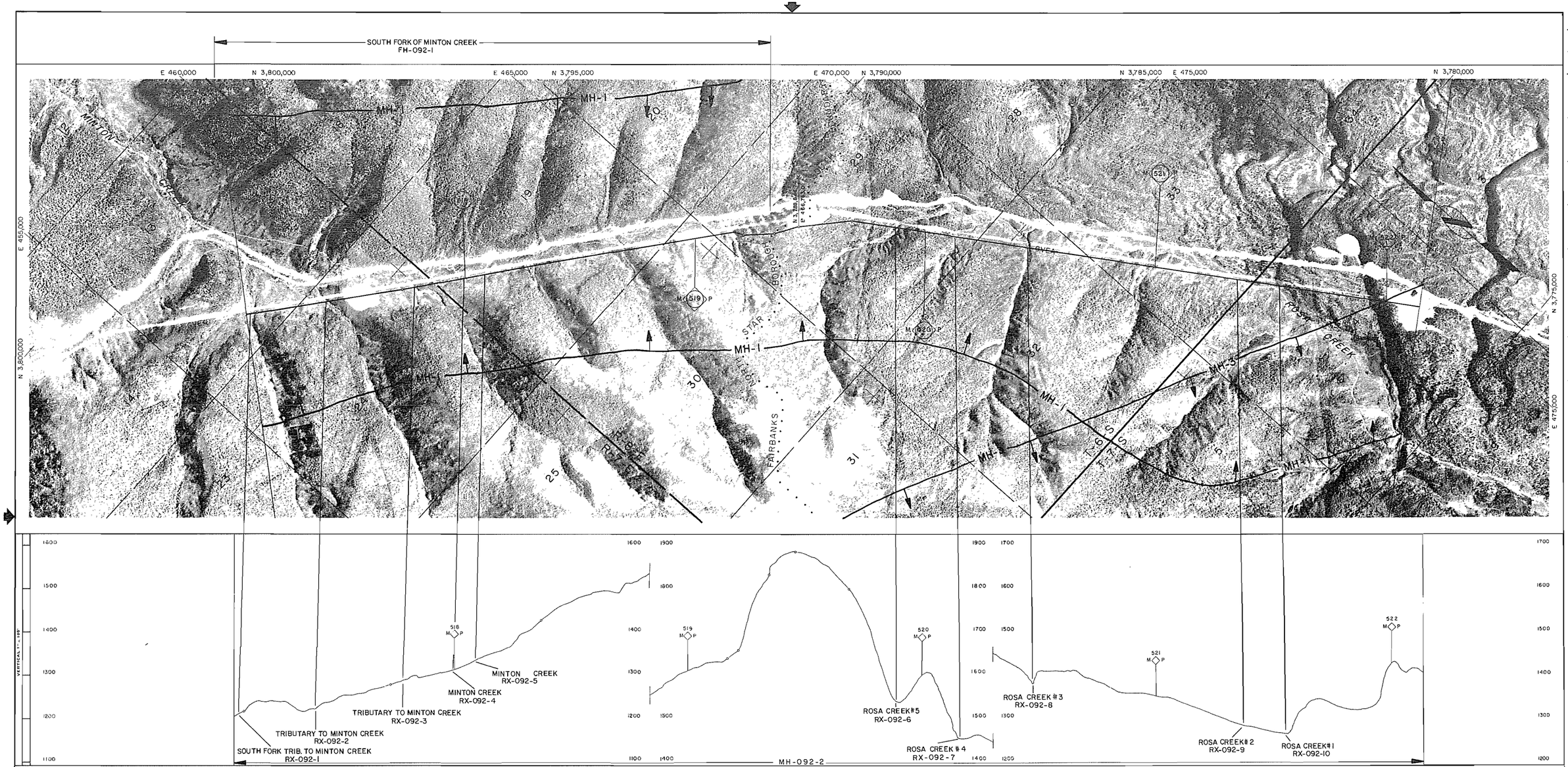
TOWNSHIP T6S RANGE R7E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO SPEC	DATE 1978	FLUOR	DATE 4/2/80
[signature]	DATE 4/2/80	N.W. ALASKAN [signature]	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-091	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-092-1					- - -	- - -	- - -	- - -	- - -	- - -		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-092-1	- - -	- - -	- - -									- - -
MH-092-3	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 517.0 TO MP 522.1

TOWNSHIP T6S, T7S RANGE R7E, R8E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

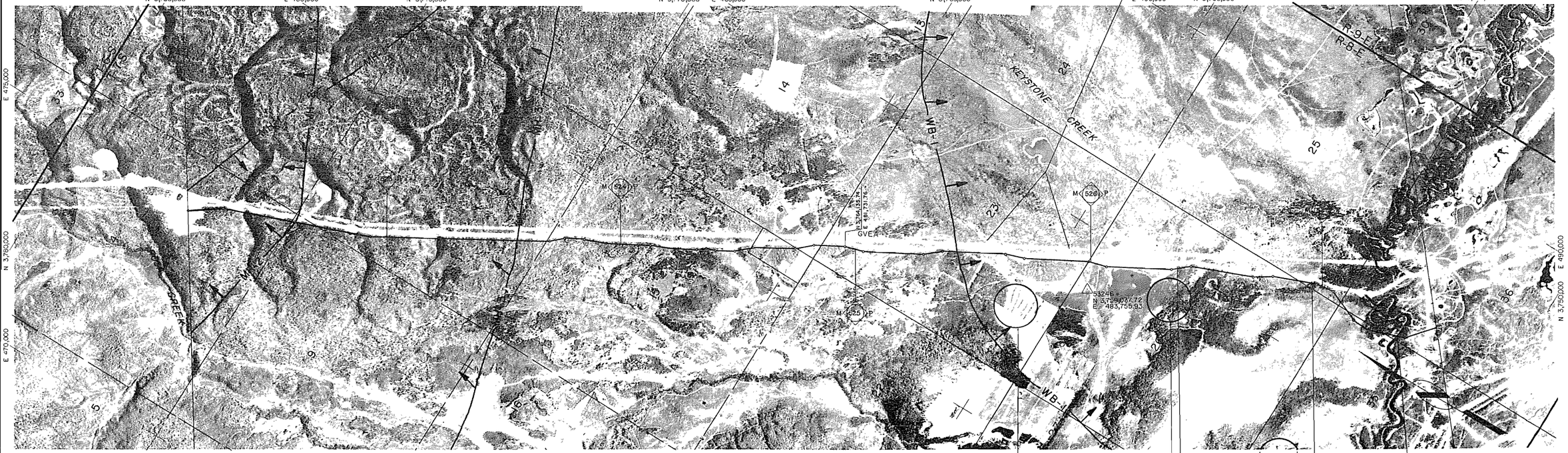
PHOTO APCS	DATE 1978	FLUOR	DATE 4/2/80
[signature]	DATE 4/2/80	N.W. ALASKAN [signature]	DATE 4/2/80

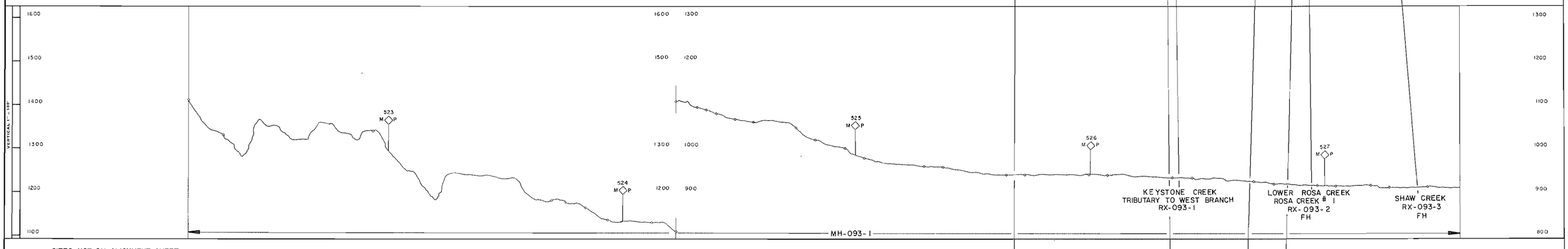
SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-092	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

WEST BRANCH
KEYSTONE CREEK
FH-093-1





SITES NOT ON ALIGNMENT SHEET
AS-093-4 (XBD-015)

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

_____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-093-2					----------							
RX-093-3					----------							
FH-093-1					----------							

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-093-1	----------											----------
AS-093-2	----------											----------
AS-093-3	----------											----------
MH-093-1	----------											----------
MH-093-2	----------											----------

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR THE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary to said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and or proprietary is not subject to mandatory disclosure under the Freedom of Information Act and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

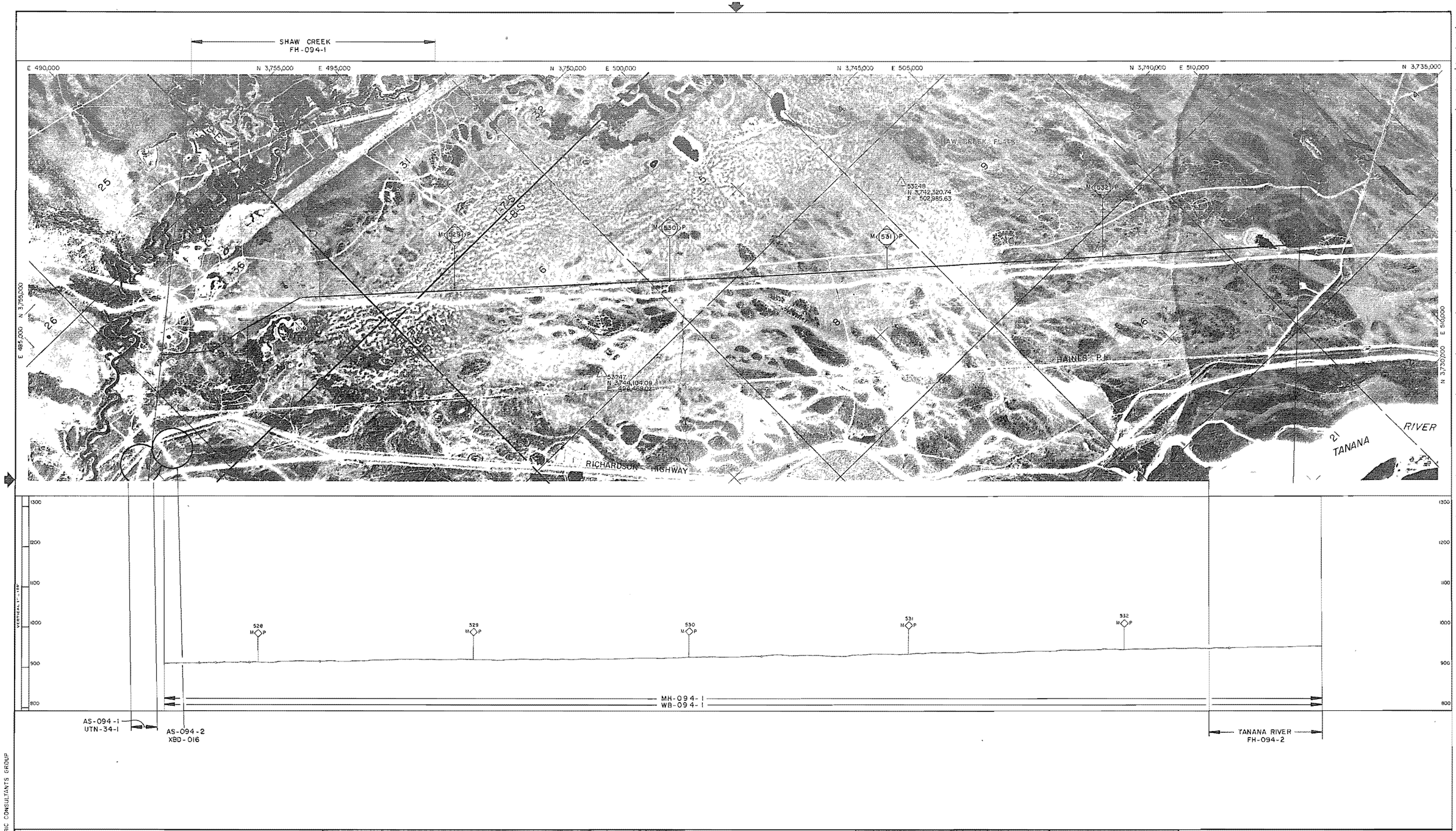
M P 522.1 TO M P 527.5

TOWNSHIP T 7S RANGE R8E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APES	DATE 1978	FLUOR	DATE 4/24/80		
	DATE 4-24-80	NW ALASKAN	DATE 4/24/80		
SCALE IN FEET		DRAWING NUMBER		REV	
1" = 1000'		4680-15-00-B-E-093		1	

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-094-1												
FH-094-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-094-2												
MH-094-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 527.5 TO M.P. 532.9

TOWNSHIP T7S, T8S RANGE R8E, R9E MERIDIAN FAIRBANKS

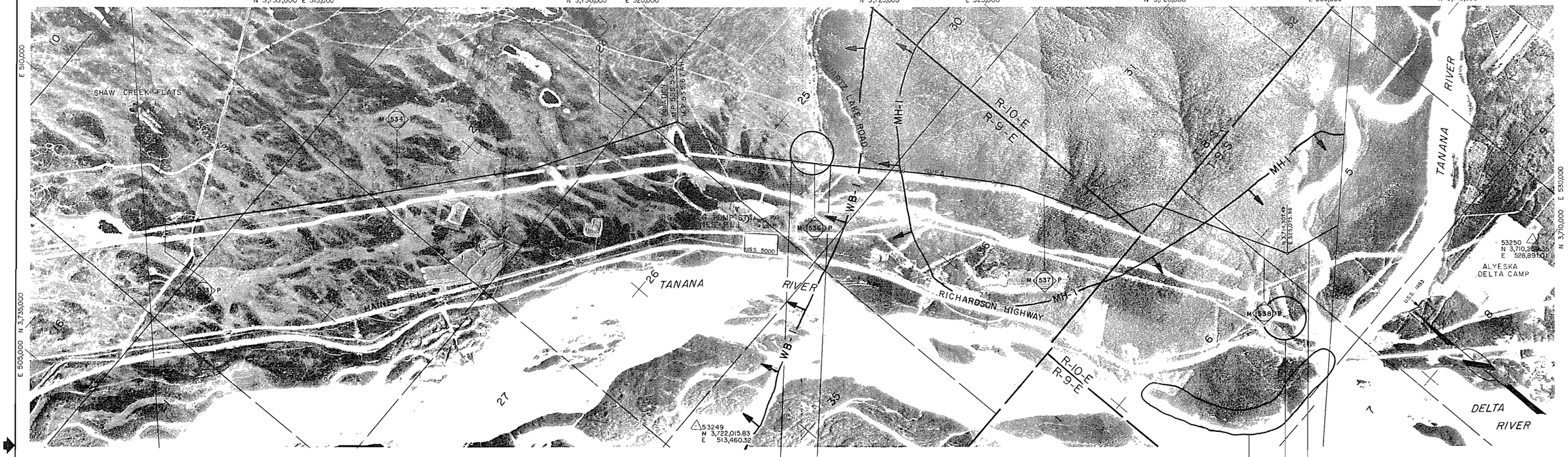
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

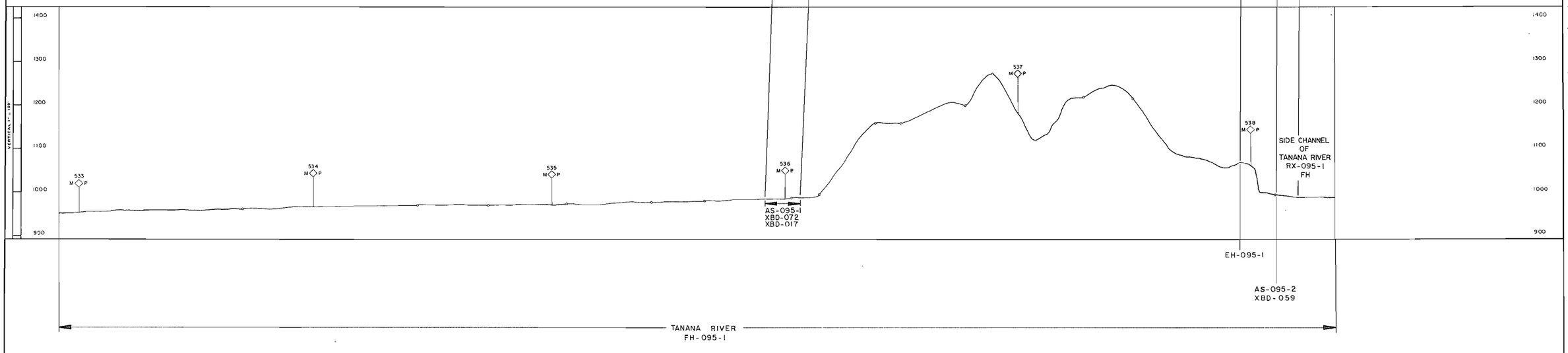
PHOTO REC.	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/2/80
	DATE 4/2/80	N.W. ALASKA [signature]	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-094	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-095-1 FH-095-1	———	———	———	———	———	———	———	———	———	———	———	———

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-095-1				———	———	———	———	———	———	———	———	———
AS-095-1	- - -	- - -	- - -	———	———	———	———	———	———	———	- - -	- - -
AS-095-2	- - -	- - -	- - -	———	———	———	———	———	———	———	- - -	- - -
MH-095-1	- - -	- - -	- - -	———	———						- - -	- - -

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is derived to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaska Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 532.9 TO M P 538.3

TOWNSHIP T6S, T5S RANGE R9E, R10E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

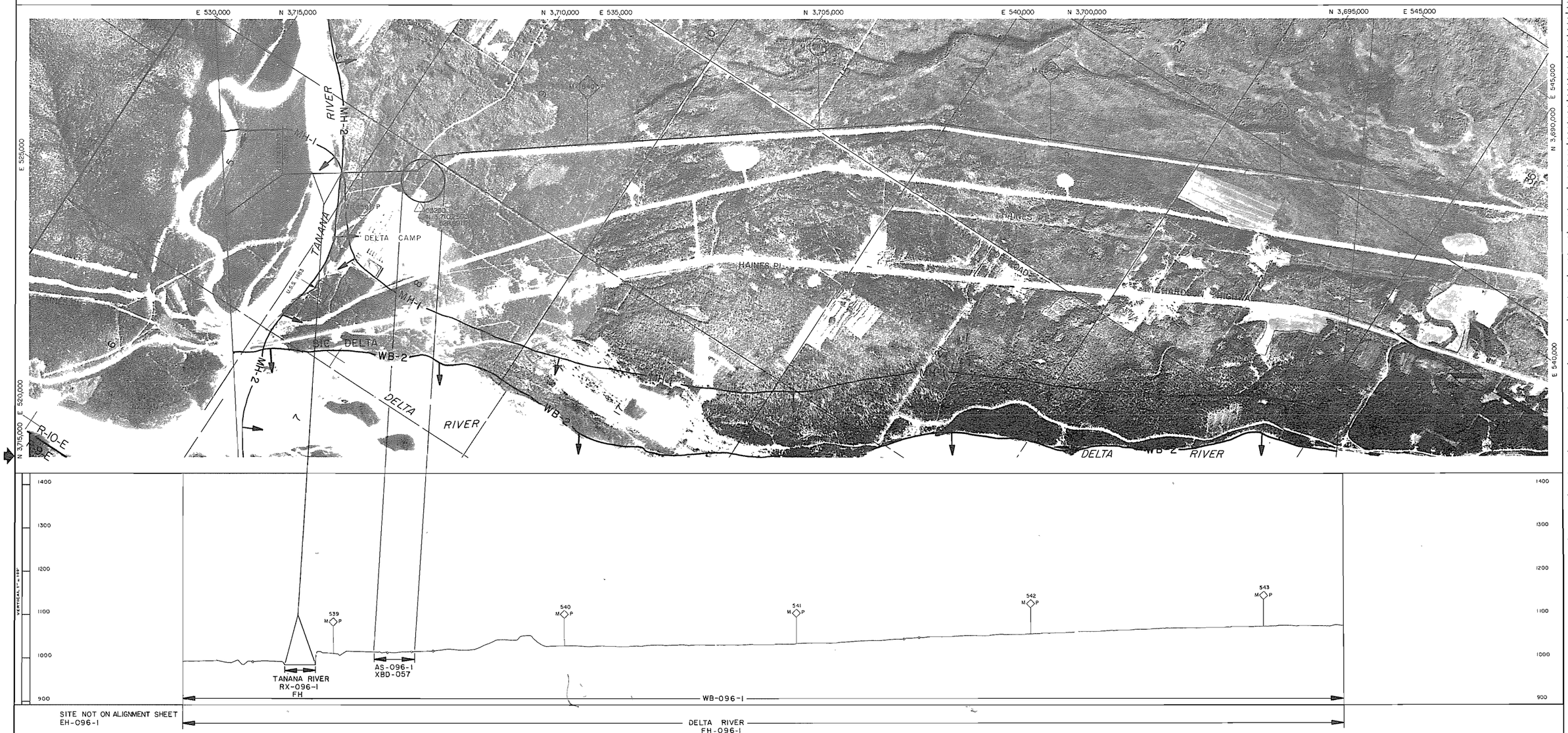
PHOTO APP.	DATE 1976	FLUOR	DATE 4/8/80
	DATE 4/8/80	NW ALASKAN	DATE 4/9/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-095 REV. 1

DISTRIBUTION CODE

SITES NOT ON ALIGNMENT SHEET
EH-096-2



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

***LEGEND**

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

—— = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-096-1												
RX-096-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-096-1												
EH-096-2												
WB-096-2												
MH-096-1												
MH-096-2												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 538.3 TO M.P. 543.3

TOWNSHIP T9S RANGE R10E MERIDIAN FAIRBANKS

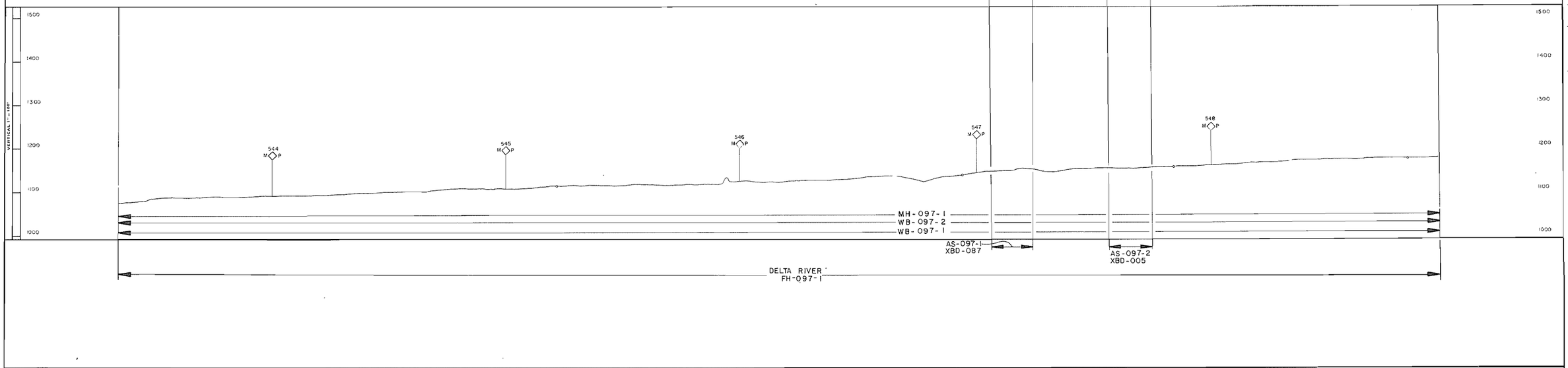
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCG	DATE 1978	FLUOR	DATE 4/2/80
[signature]	DATE 4/2/80	N.W. ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-096	1

DISTRIBUTION CODE





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-097-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-097-3					----				----			
WB-097-4					----				----			
AS-097-2	----	----	----	----							----	----
MH-097-1	----	----	----	----	----							----
MH-097-2	----	----	----	----	----				----			----
MH-097-3	----	----	----	----								----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED ROUTE & MILEPOST			
		RELEASED FOR FEDERAL FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 543.3 TO MP 549.0

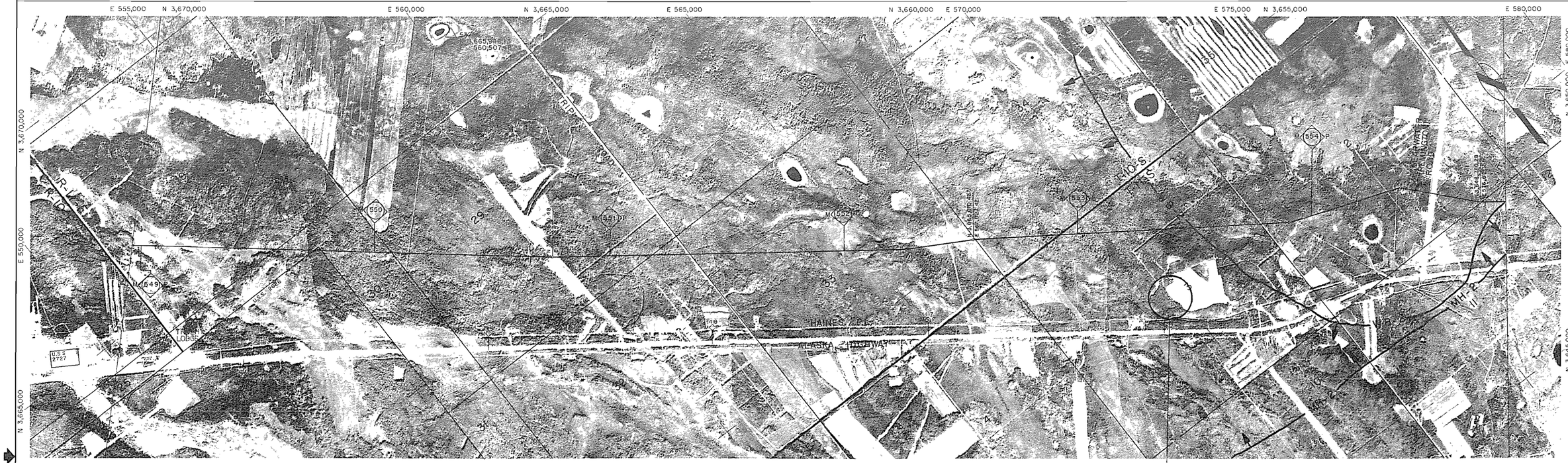
TOWNSHIP T9S, T10S RANGE R10E, R11E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCG	DATE 1978	FLUOR	DATE 4/2/80
	DATE 4/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-097	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-098-1	____	____	____	____	....				____	____		
MH-098-1	____	____	____	____								____
MH-098-2	____	____	____	____								

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 549.0 TO MP 554.9

TOWNSHIP T10S, T11S RANGE R11E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA	DATE	FLUOR	DATE
	1978		4/2/80
	DATE	NW ALASKAN	DATE
	4/2/80		4/2/80

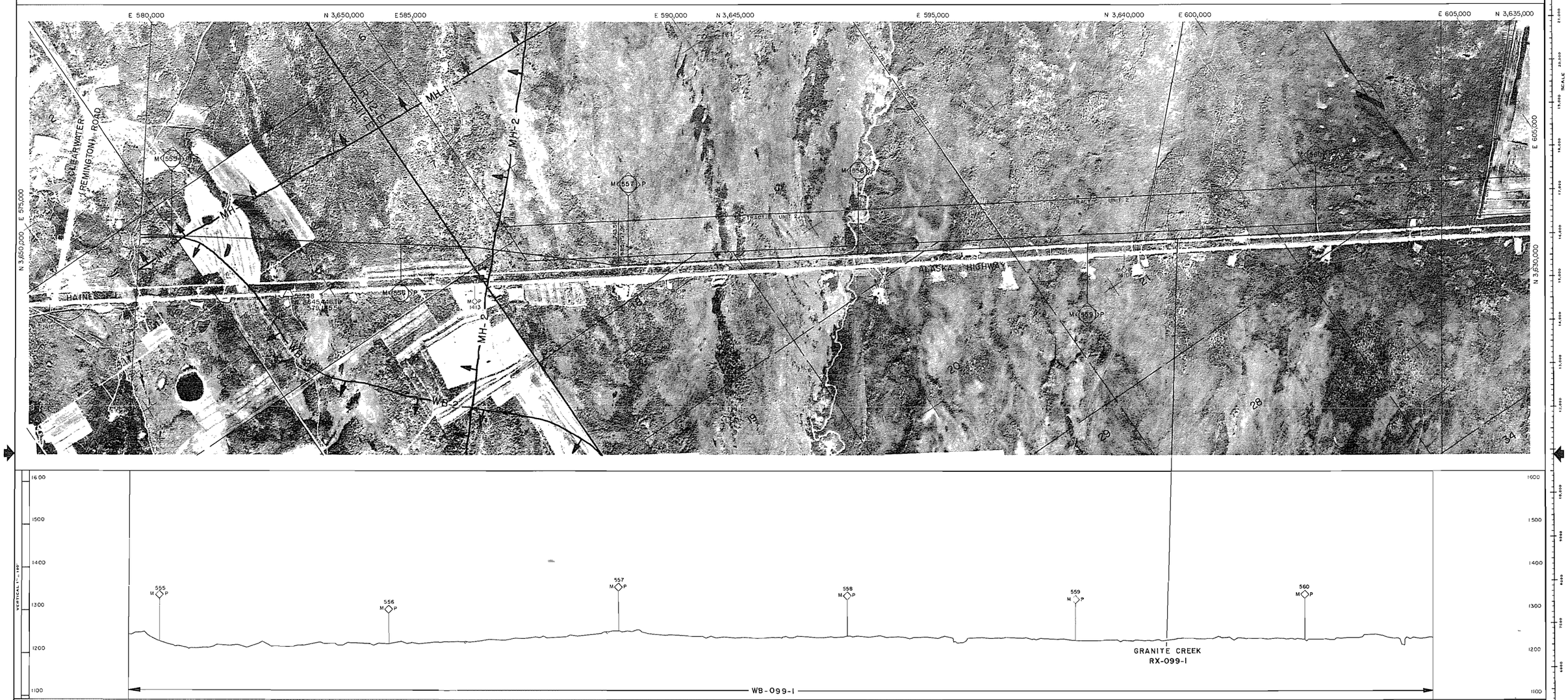
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-098

REV.: 1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-099-1					---				---			
MH-099-1	----	----	----	----	----	----	----	----	----	----	----	----
MH-099-2	----	----	----	----	----	----	----	----	----	----	----	----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 554.9 TO M P 560.5

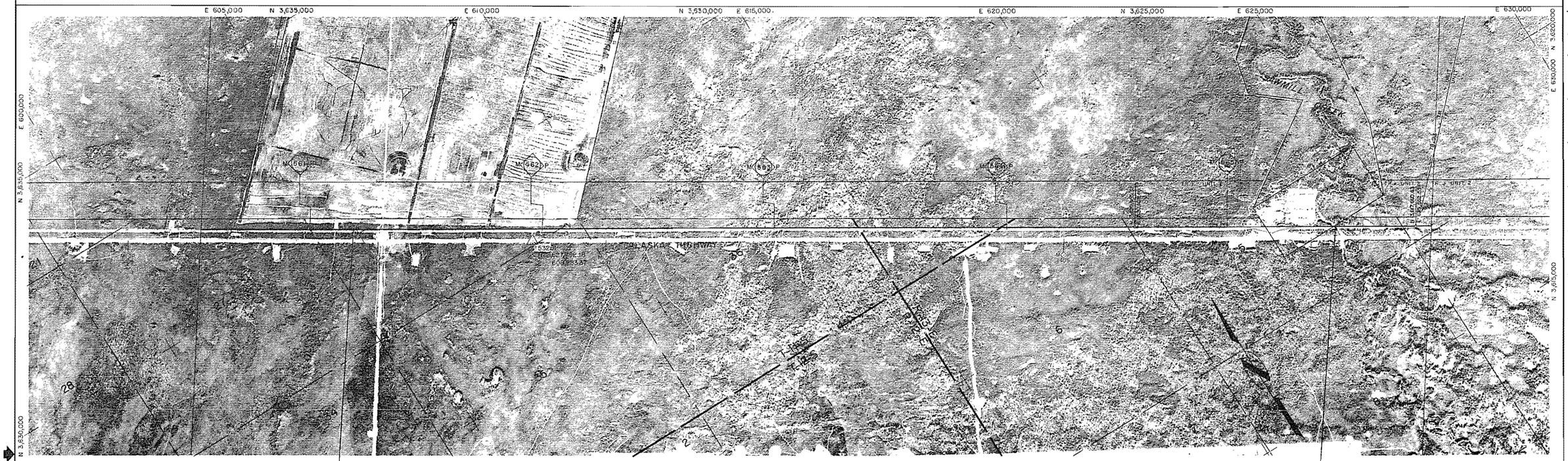
TOWNSHIP T11S RANGE R11E, R12E MERIDIAN FAIRBANKS

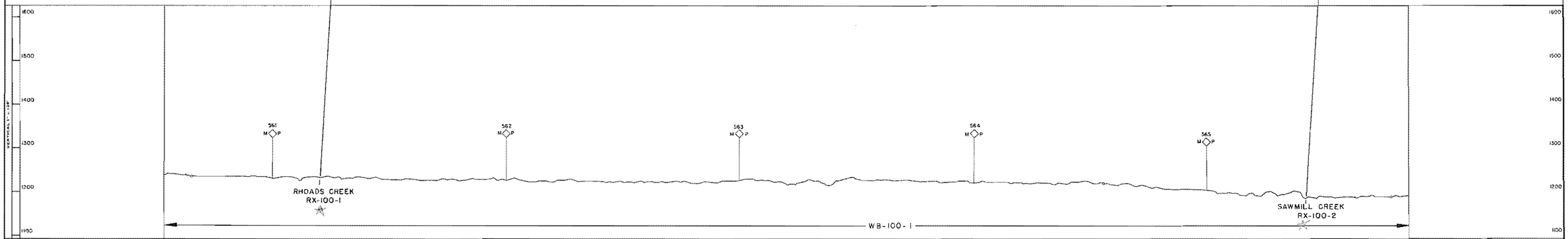
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPD	DATE	FLUOR	DATE
James Webb	1978	R. Dibley	4/2/80
	DATE 4/2/80	N.W. ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-099	1

DISTRIBUTION CODE





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-100-1					___				___			

NO	DATE	REVISION	BY	CHKD	APP
1	4-90	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 560.5 TO MP 565.8

TOWNSHIP T11S, T12S RANGE R12E, R13E MERIDIAN FAIRBANKS

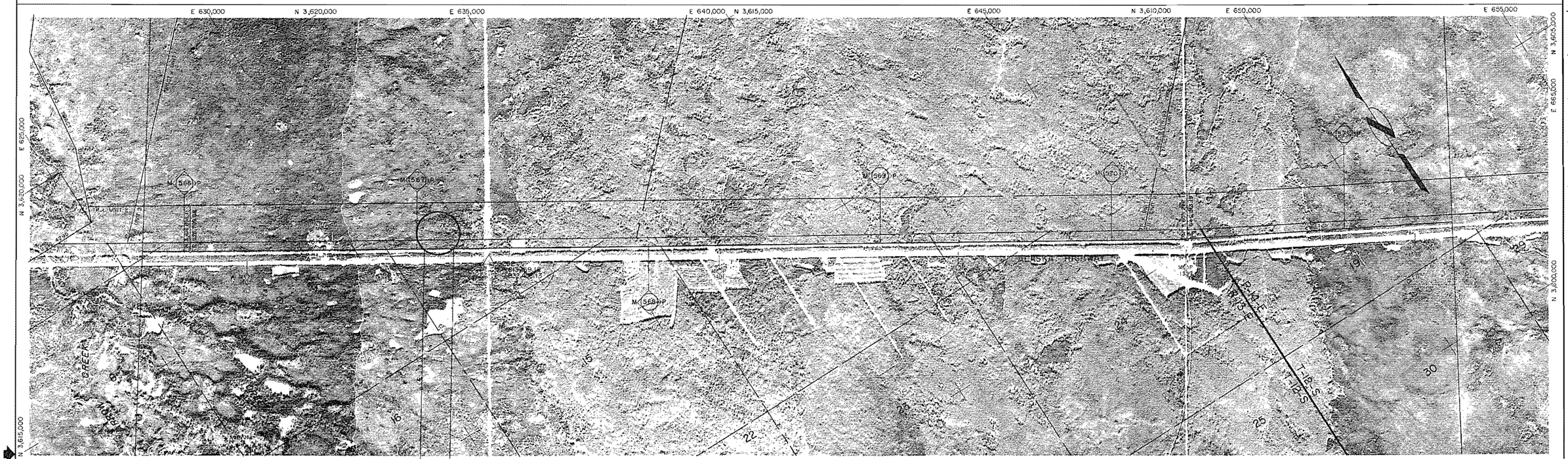
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APP.	DATE 1978	FLUOR	DATE 2/80
	DATE 7/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-100 REV. 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.

---- = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-101-1					---				---			

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FILING			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 565.8 TO M.P. 571.5

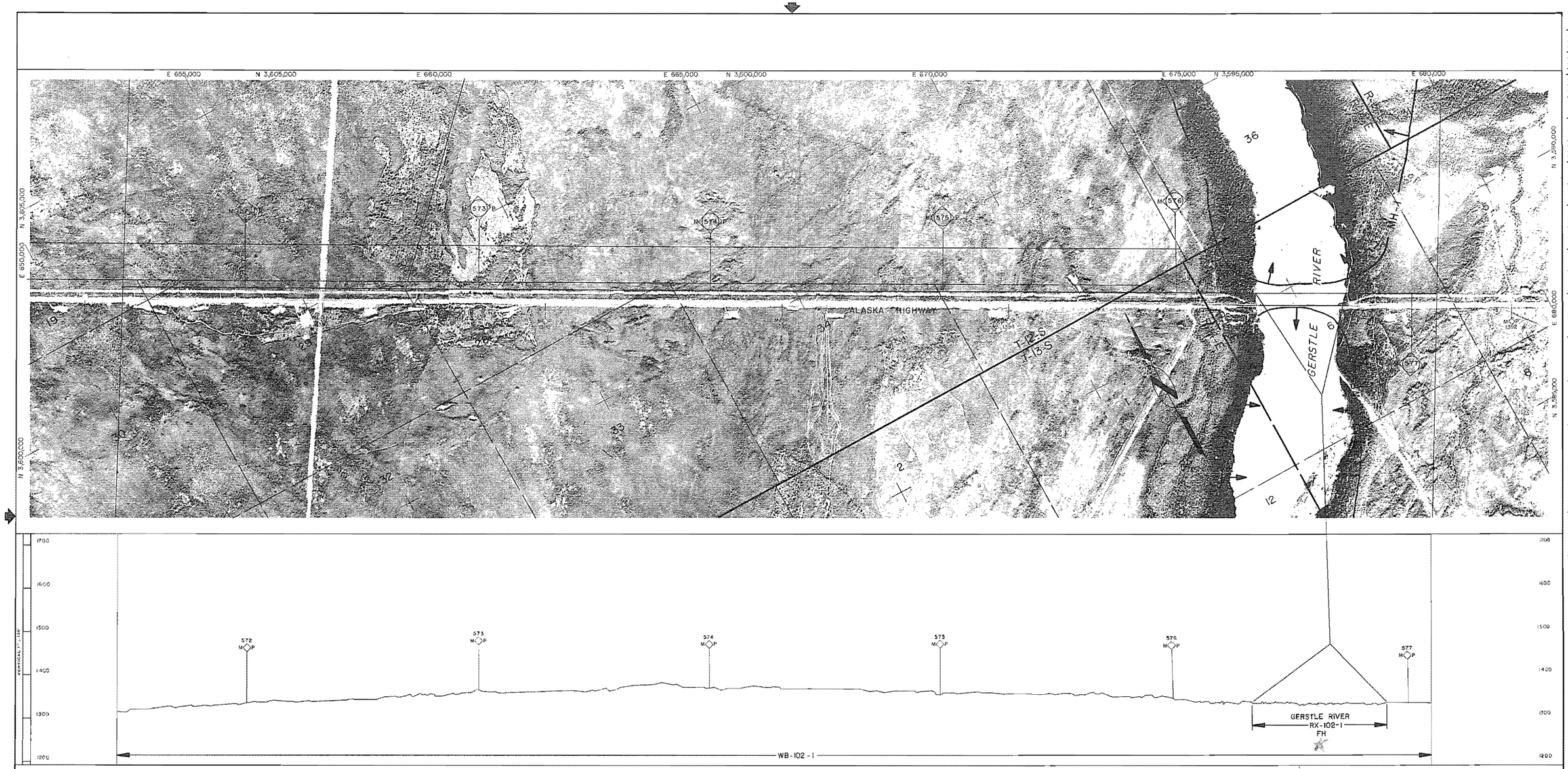
TOWNSHIP T12 S RANGE R13E, R14E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA		DATE	1978	FLUOR	DATE 4/30
		DATE	4/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-101	1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
- - - - = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-102-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-102-1												
WB-102-2												
MH-102-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED AND REPOSE			
		RELEASED FOR FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 571.5 TO M P 577.1

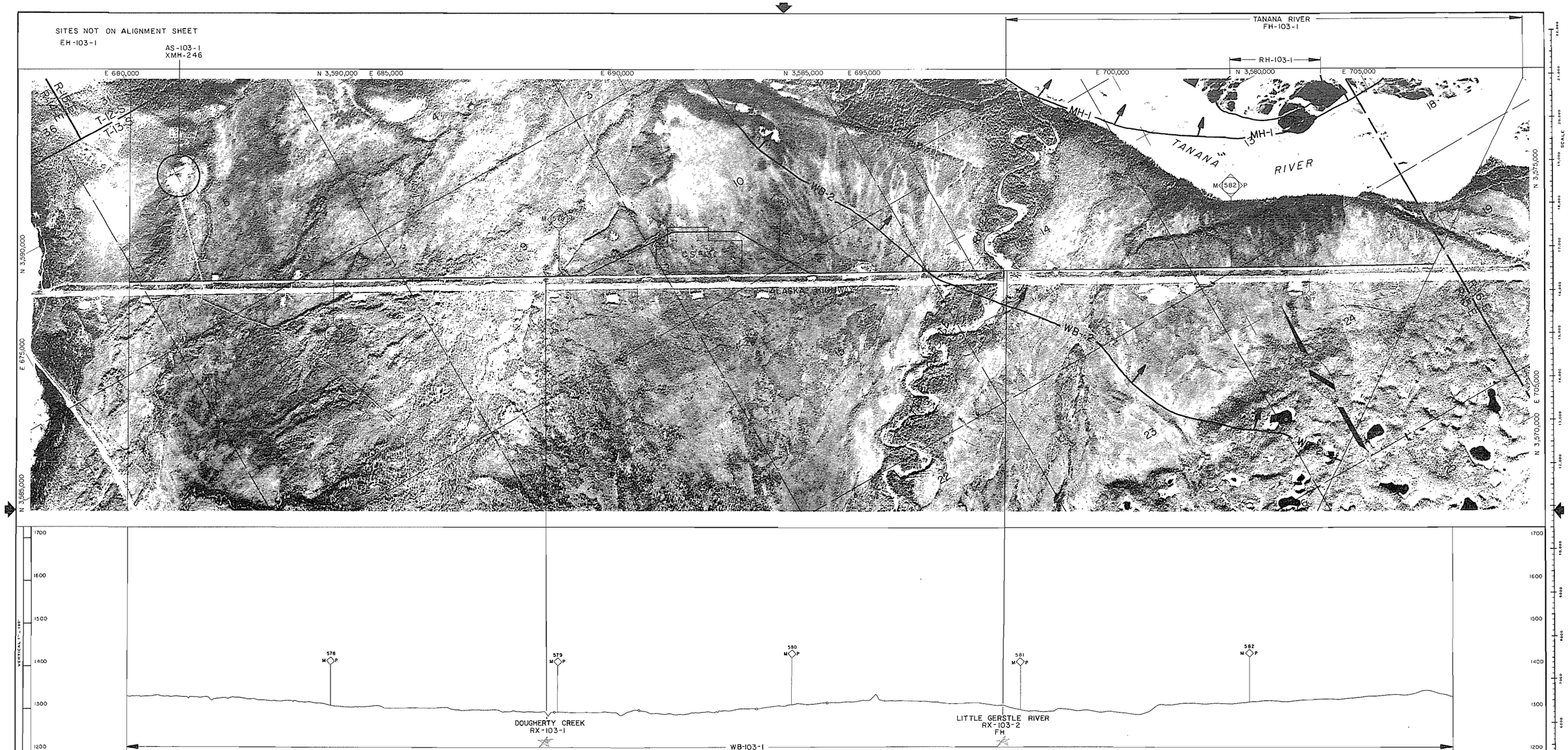
TOWNSHIP T12S, T13S RANGE R14E, R16E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPS	DATE 1978	FLUOR	DATE 4/2/80
	DATE 4/2/80	N W ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-102	1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-103-2												
FH-103-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-103-1												
EH-103-1												
MH-103-1												
RH-103-1												
WB-103-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 577.1 TO MP 582.9

TOWNSHIP T13S RANGE R15E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO MGR	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/8/80
	DATE 4/8/80	N W ALASKAN [signature]	DATE 4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-103	1

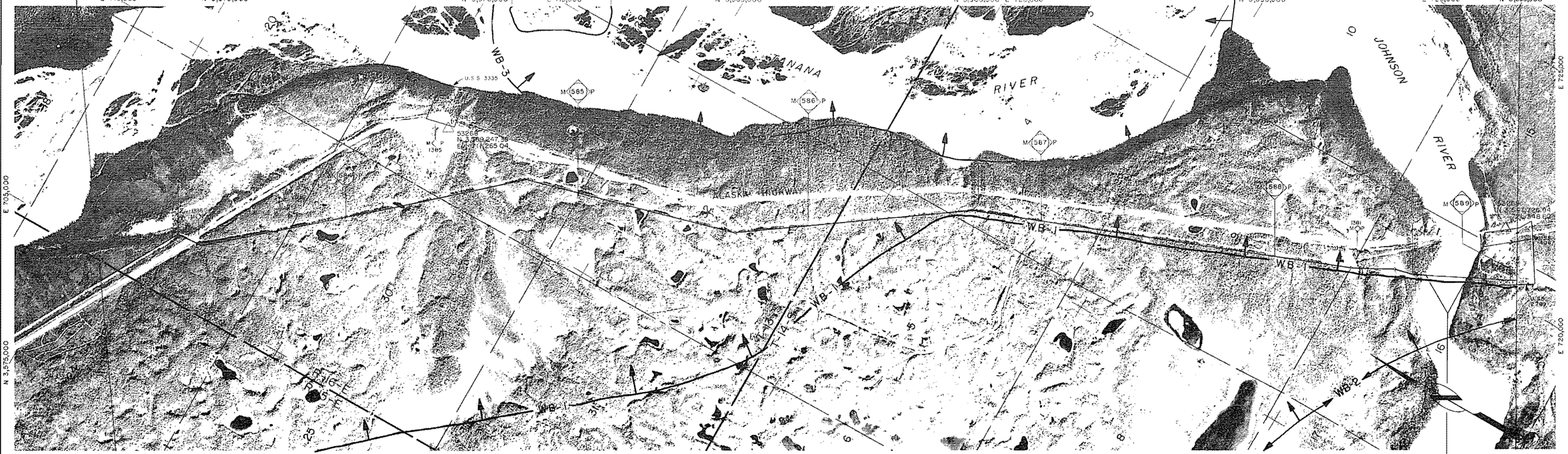
DISTRIBUTION CODE _____

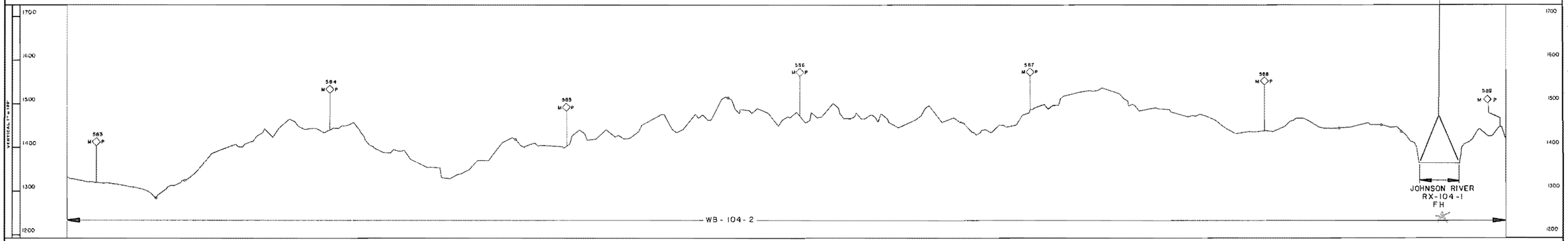
SITES NOT ON ALIGNMENT SHEET

EH-104-1

TANANA RIVER
FH-104-1

RH-104-1





Sample upstream

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-104-1	----	----	----	----	----	----	----	----	----	----	----	----
FH-104-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-104-1												
WB-104-2				----	----				----			
WB-104-3				----	----				----			
EH-104-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	[illegible]			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document, which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and no disclosure of information contained in this drawing/document may otherwise be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 582.9 TO M.P. 589.0

TOWNSHIP T13S,T14S RANGE R15E,R16E MERIDIAN FAIRBANKS

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPR.	DATE 1978	FLUOR [illegible]	DATE 4/2/80
[illegible]	DATE 4/2/80	NW ALASKAN [illegible]	DATE 4/2/80

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-104

REV.: 1

DISTRIBUTION CODE

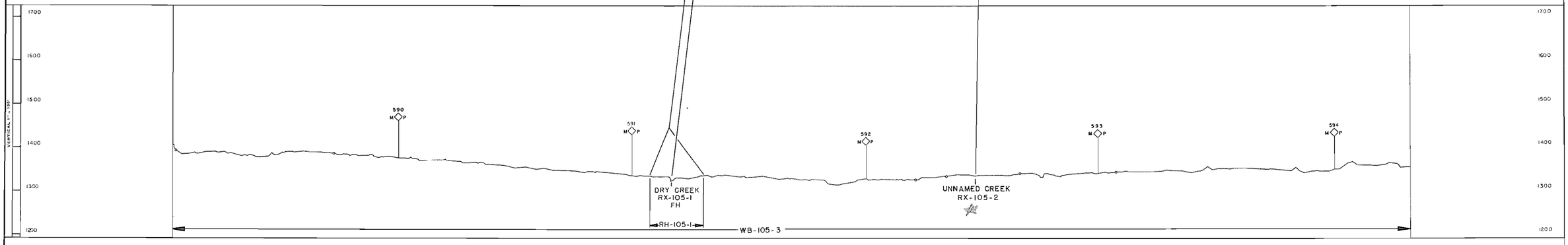
SITES NOT ON ALIGNMENT SHEET
EH-105-1

TANANA RIVER
FH-105-1

JOHNSON SLOUGH
FH-105-2

AS-105-1
XMH-248





*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.

------ = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH - 105 - 1	———											
FH - 105 - 2	———											
RX - 105 - 1	- - -											

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH - 105 - 1				———	———	———	———	———				
RH - 105 - 1				———	———	———	———					
WB - 105 - 2									- - -			
WB - 105 - 3				— —	— —							
WB - 105 - 4				— —	— —				- - -			

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED MILITARY			
		RELEASED FOR FEDERAL FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 589.0 TO MP 594.3

TOWNSHIP T14S, T22N RANGE R16E, R5E MERIDIAN FAIRBANKS, COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPR.	DATE 1978	FLUOR	DATE 4/2/80
	DATE 4/2/80	NW ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-105	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

SITES NOT ON ALIGNMENT SHEET
EH-106-1

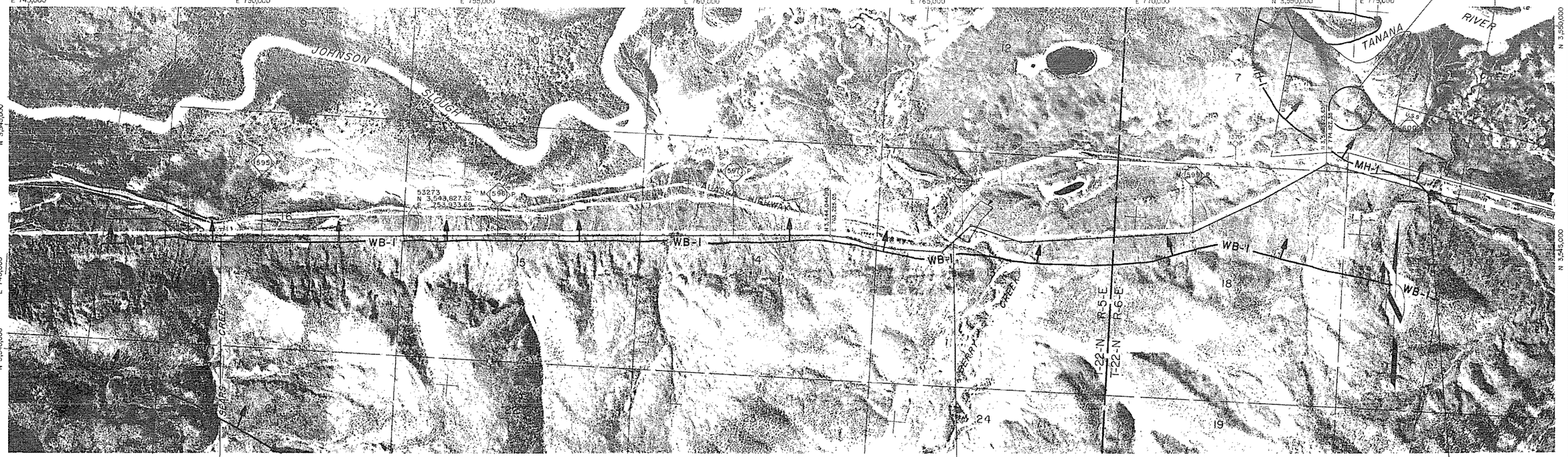
TANANA RIVER
FH-106-1

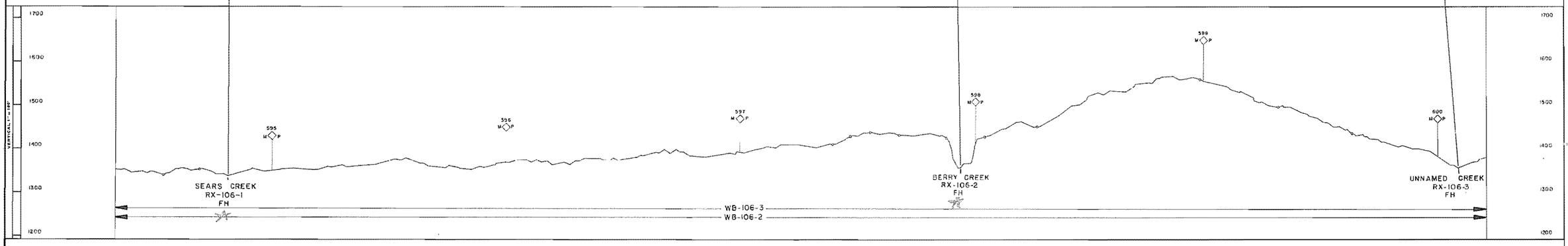
JOHNSON SLOUGH
FH-106-2

SAM CREEK
FH-106-3

RH-106-1

AS-106-1
UTN-30





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_ _ _ _ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-106-1	----	----	----	----	----	----	----	----	----	----	----	----
RX-106-2	----	----	----	----	----	----	----	----	----	----	----	----
RX-106-3				----	----	----	----	----	----	----		
FH-106-1	----	----	----	----	----	----	----	----	----	----	----	----
FH-106-2				----	----	----	----	----	----	----		
FH-106-3				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-106-1				----	----	----	----	----				
WB-106-1				X-	----	----	----	----				
WB-106-2									----			
WB-106-3				----								
EH-106-1				----	----	----	----	----				
MH-106-1	----	----	----	----	----	----						----

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by certain applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agents Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 594.3 TO M.P. 600.2

TOWNSHIP T22N RANGE R5E, R6E MERIDIAN COOPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

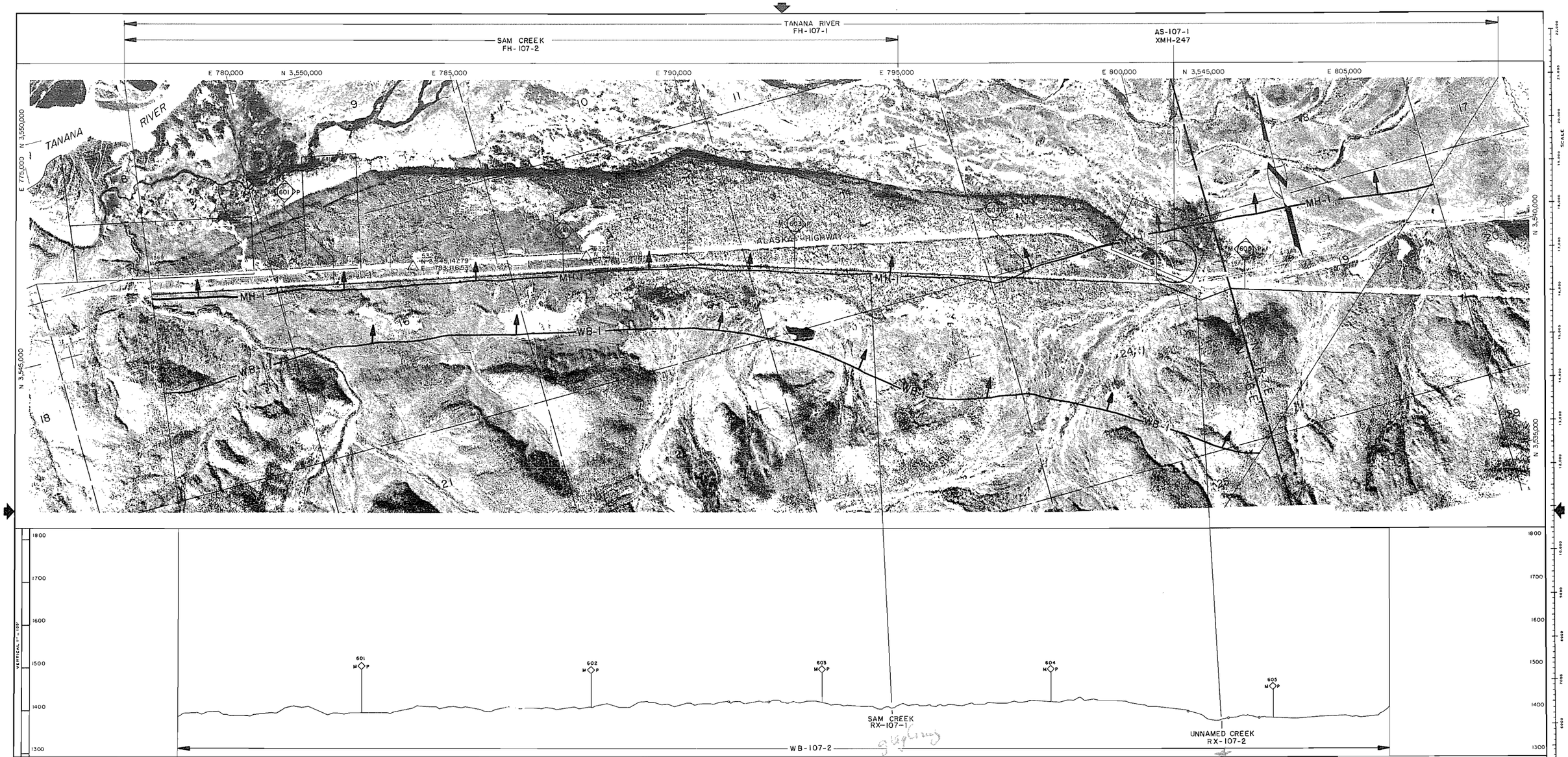
PHOTO AMS		DATE 1978	FLUOR	DATE 4/4/80	
		DATE 4/21/80	N.W. ALASKAN	DATE 4/21/80	

SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-15-00-B-E-106

REV.: 1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-107-1												
FH-107-1												
FH-107-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-107-1												
WB-107-1												
WB-107-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED NO FEDS			
		RELEASED FOR PERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 600.2 TO MP 605.5

TOWNSHIP T22N RANGE R6E,R7E MERIDIAN COPPER RIVER

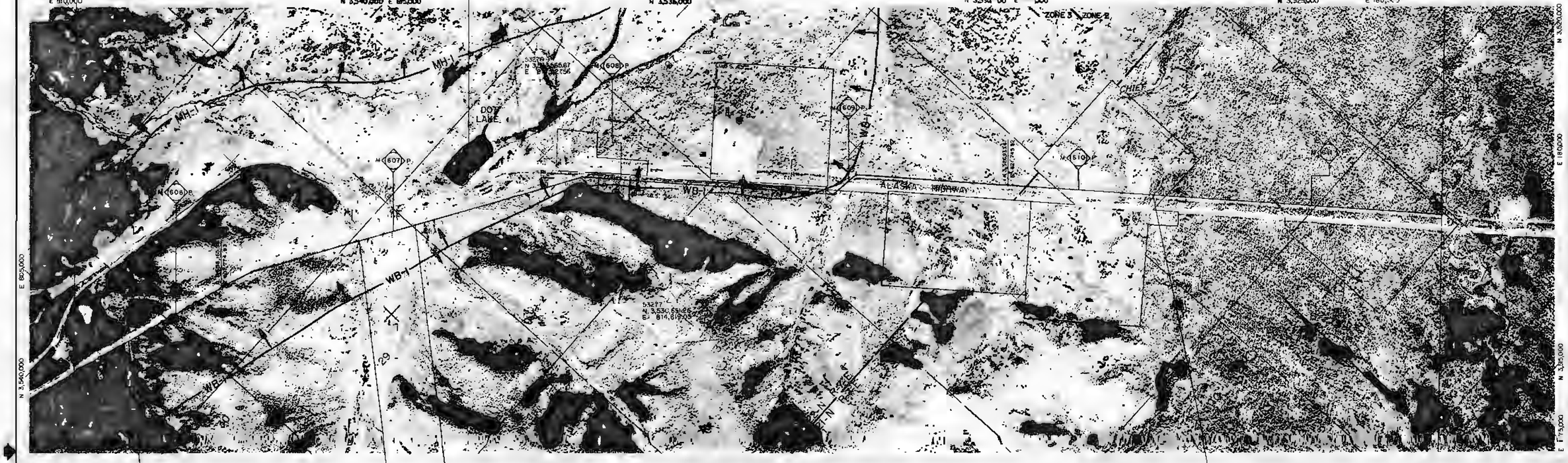
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

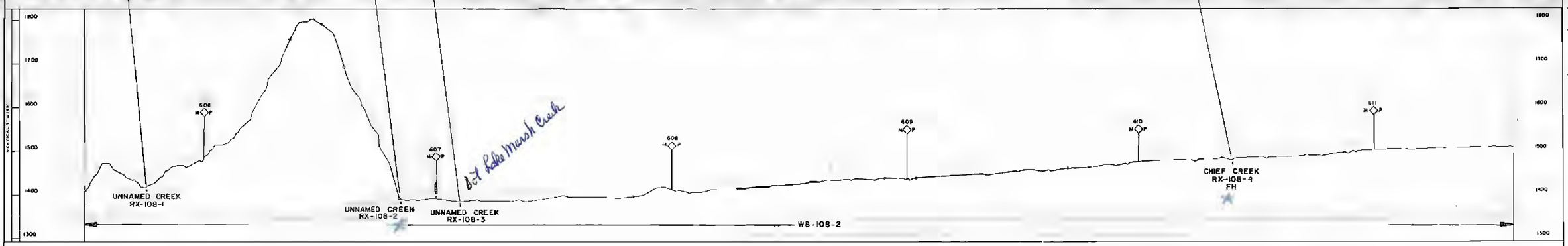
PHOTO APCS	DATE 1978	FLUOR	DATE 4/2/80
[signature]	DATE 4/2/80	N W ALASKAN	DATE 4/2/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-B-E-107	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period: Most Activities Prohibited.
..... = *Restricted Period: Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-108-4												
FH-108-1												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-108-1												
WB-108-2												
MH-108-1												

NO	DATE	REVISION	BY	CHK'D	APP
	4-80				

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 805.5 TO M P 615

TOWNSHIP T22N, T21N RANGE R7E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AREA	DATE	FLUOR	DATE
	11-79		4/1/80
	4-80	N.W. ALASKAN	4/3/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-15-00-8-E-108	1

DISTRIBUTION CODE

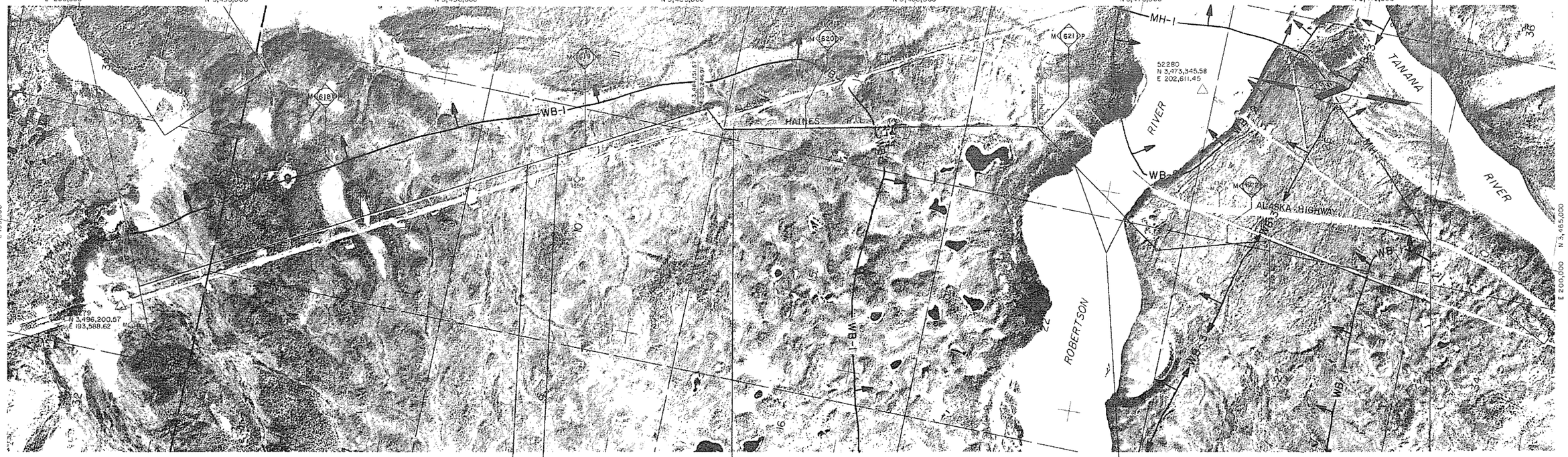
Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

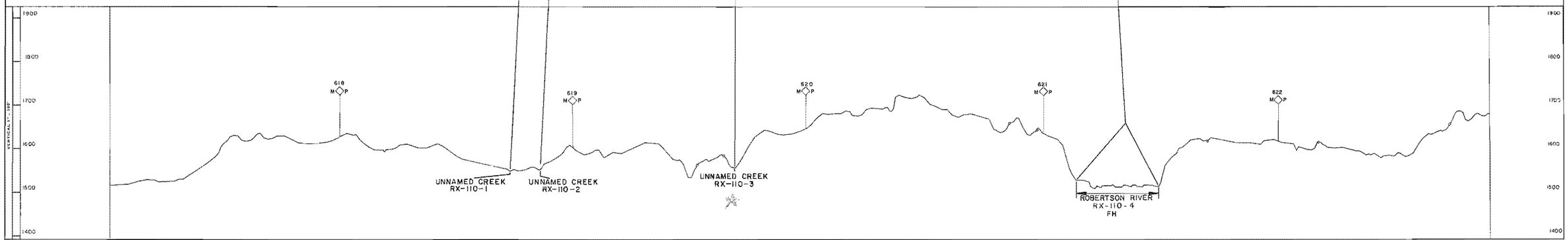
SITES NOT ON ALIGNMENT SHEET
EH-109-1



SITES NOT ON ALIGNMENT SHEET EH-110-1

TANANA RIVER
FH-110-1





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-110-1												
RX-110-4	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EH-110-1					____	____	____					
MH-110-1	----	----	----	----	____	____						----
WB-110-2				----	----							
WB-110-3				----	----							

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED AS-BUILT RELEASED TO FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or like agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 617.0 TO MP 622.9

TOWNSHIP T21N, T20N RANGE R8E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE 1978	FLUOR K Wilson	DATE 4/2/80
APD	DATE 4/2/80	NW ALASKAN AGENT	DATE 4/2/80

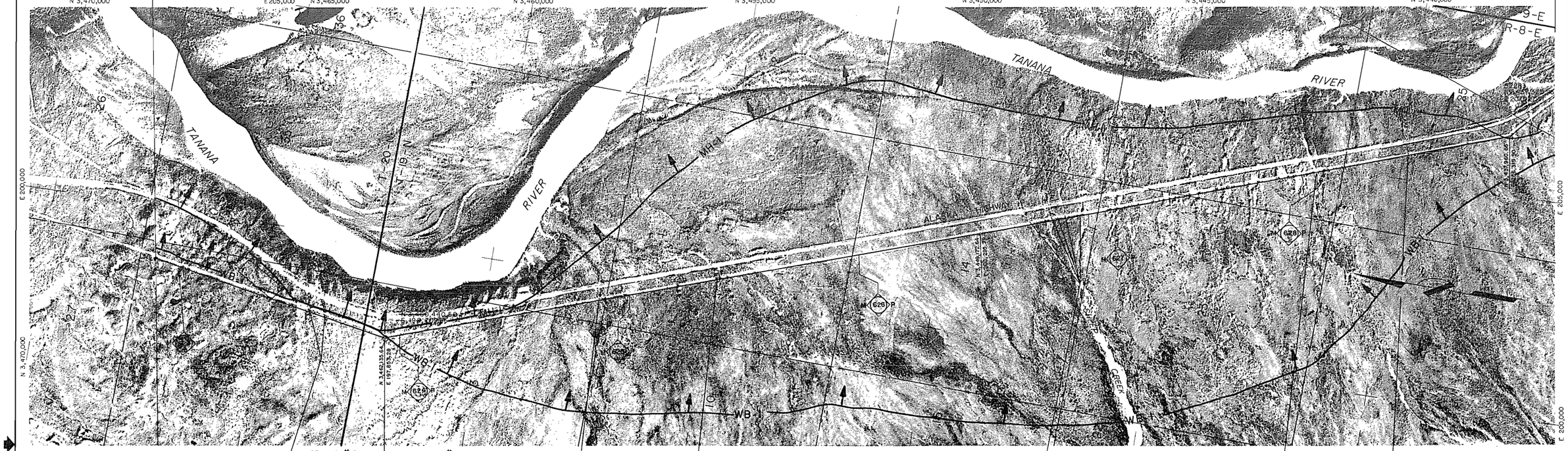
SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-15-00-B-E-110

REV. 1

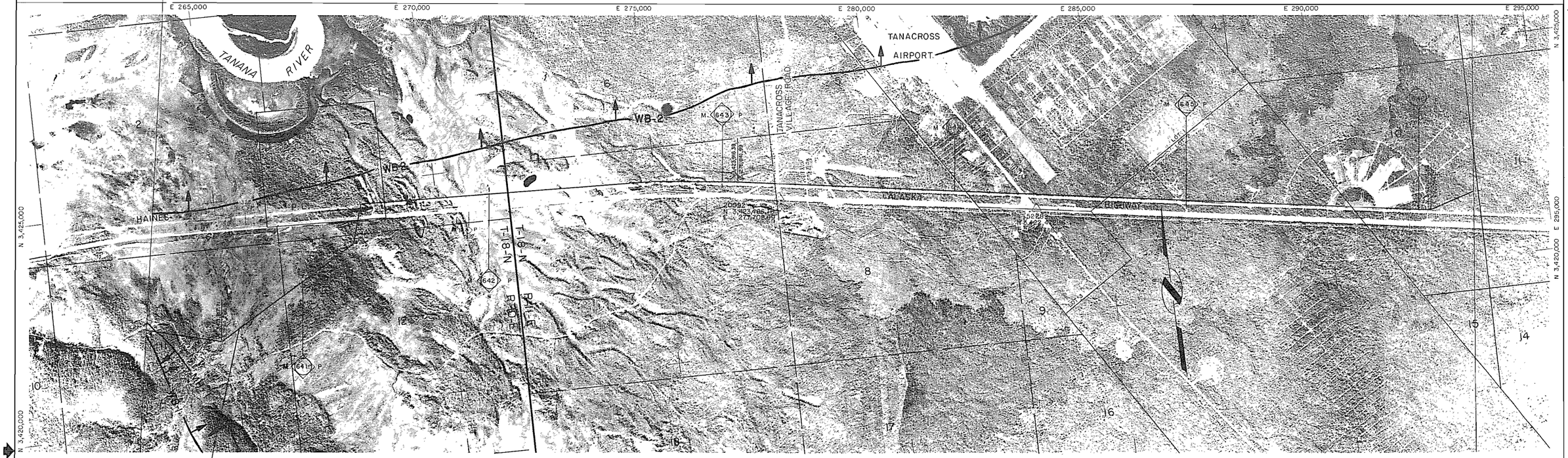
DISTRIBUTION CODE

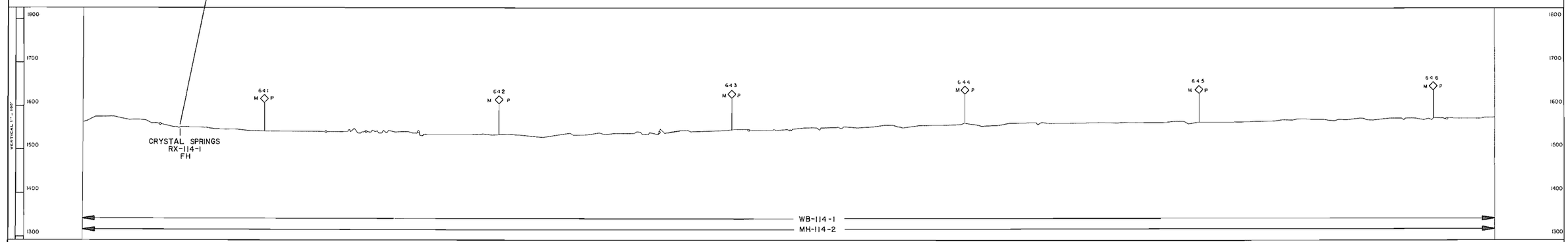
TANANA RIVER
FH-III-1



SITES NOT ON ALIGNMENT SHEET RH-114-1

TANANA RIVER FH-114-1





Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
----- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-114-1	----	----	----	----	----	----	----	----	----	----	----	----
FH-114-1	----	----	----	----	----	----	----	----	----	----	----	----

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-114-1	----	----	----	----	----	----				----	----	----
MH-114-2	----	----	----	----	----							----
RH-114-1				----	----	----	----					
WB-114-1					--							

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 640.2 TO M P 646.3

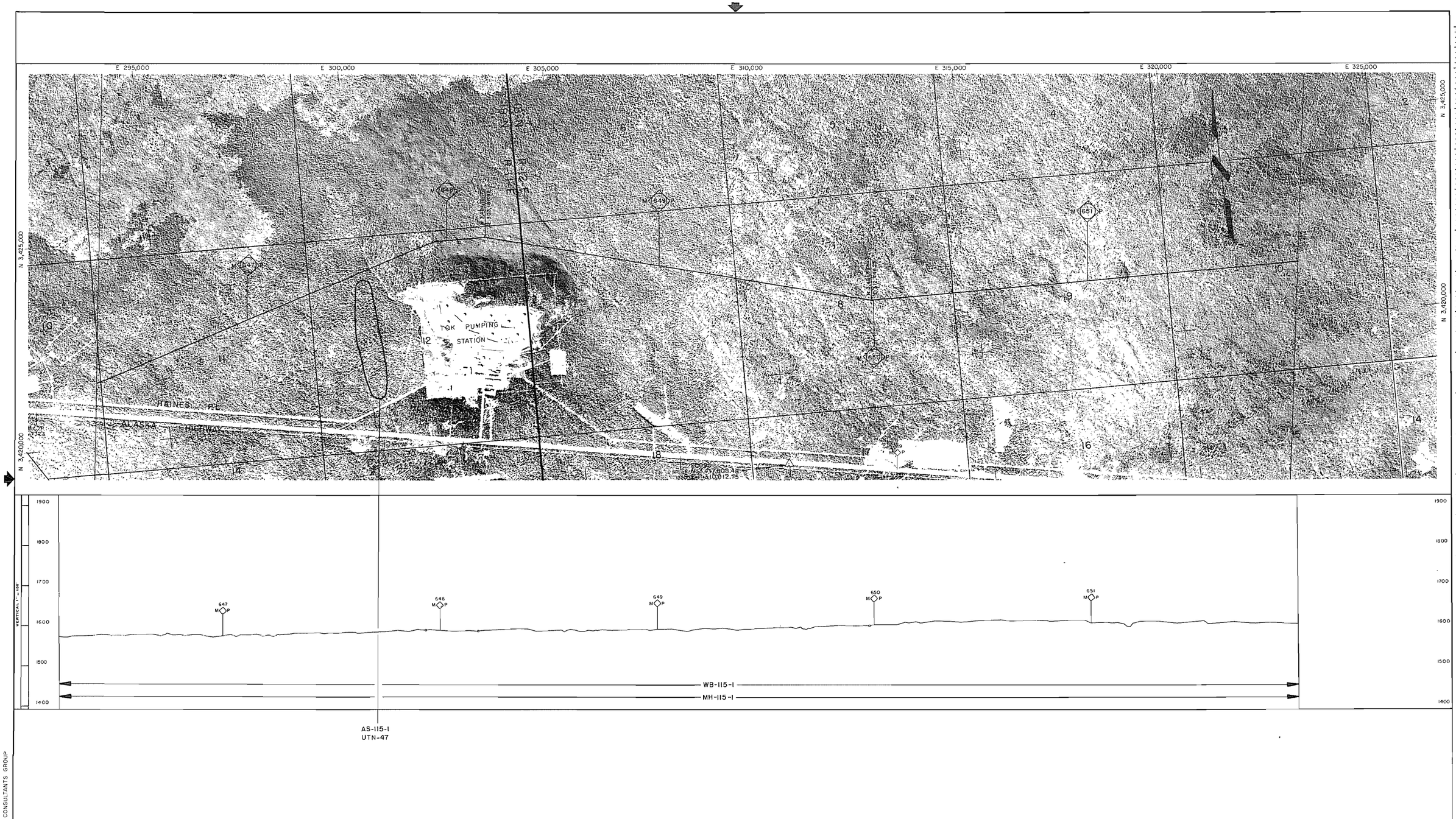
TOWNSHIP T18N RANGE R10E, R11E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APP	DATE 1978	FLUOR	DATE 4/7/80
	DATE 4/7/80	NW ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-114	1

DISTRIBUTION CODE _____



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
----- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-115-1												
WB-115-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 646.3 TO M.P. 552.0

TOWNSHIP T18N RANGE R11E, R12E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/7/80
	DATE 4/7/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-115	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-116-1					—							
MH-116-1	- - -	- - -	- - -	- - -								- - -

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary in nature is mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

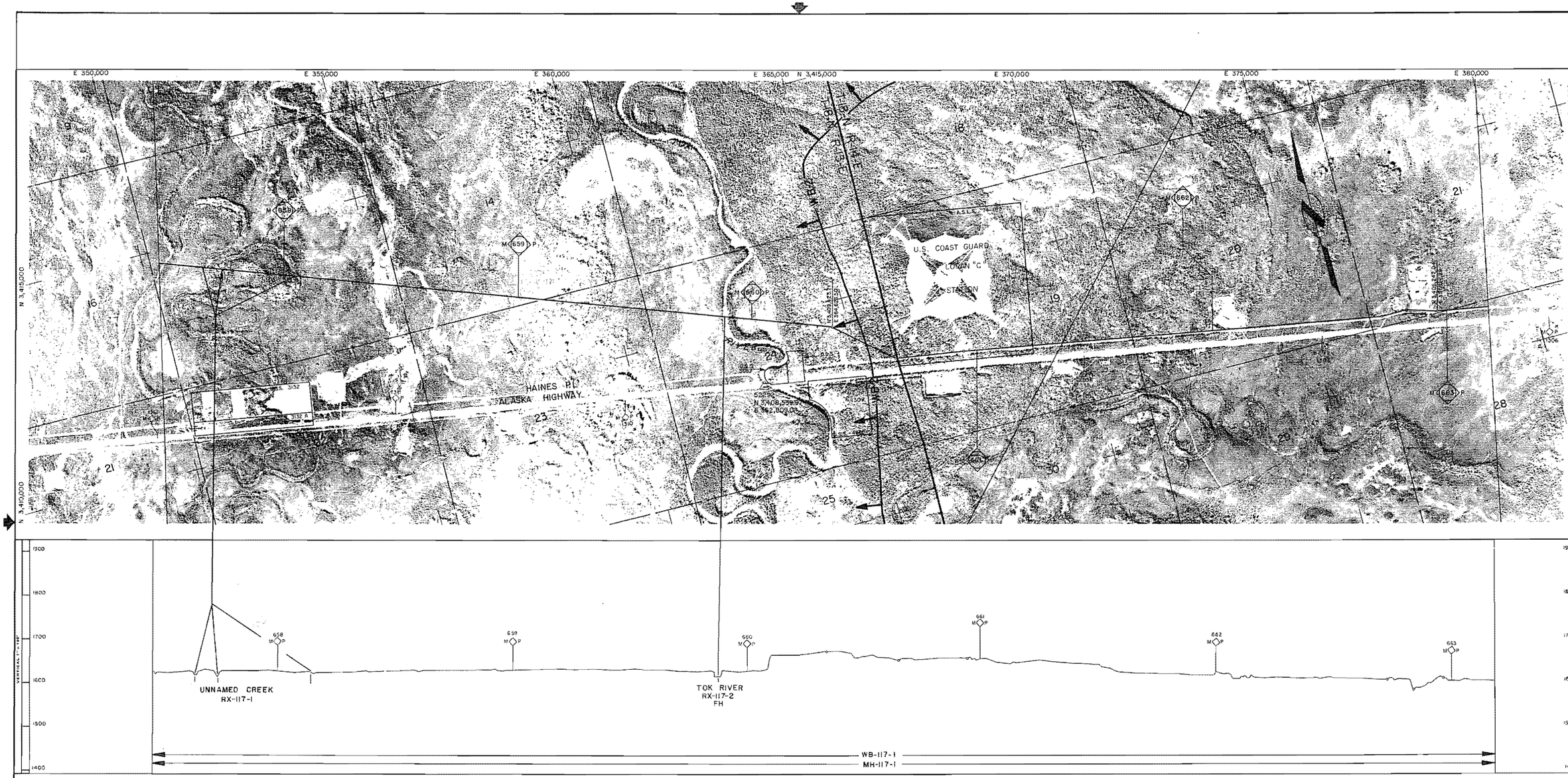
ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 652.0 TO MP 657.5

TOWNSHIP 11 & 12 S, 18 & 19 N RANGE 12 & 13 E, 11 & 12 E, 8 & 9 W, 10 & 11 E, 12 & 13 E, 14 & 15 E, 16 & 17 E, 18 & 19 E, 20 & 21 E, 22 & 23 E, 24 & 25 E, 26 & 27 E, 28 & 29 E,



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
_____ = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-117-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-117-1												
MH-117-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 657.5 TO MP 663.2

TOWNSHIP T18N RANGE R13E, R14E MERIDIAN COPPER RIVER

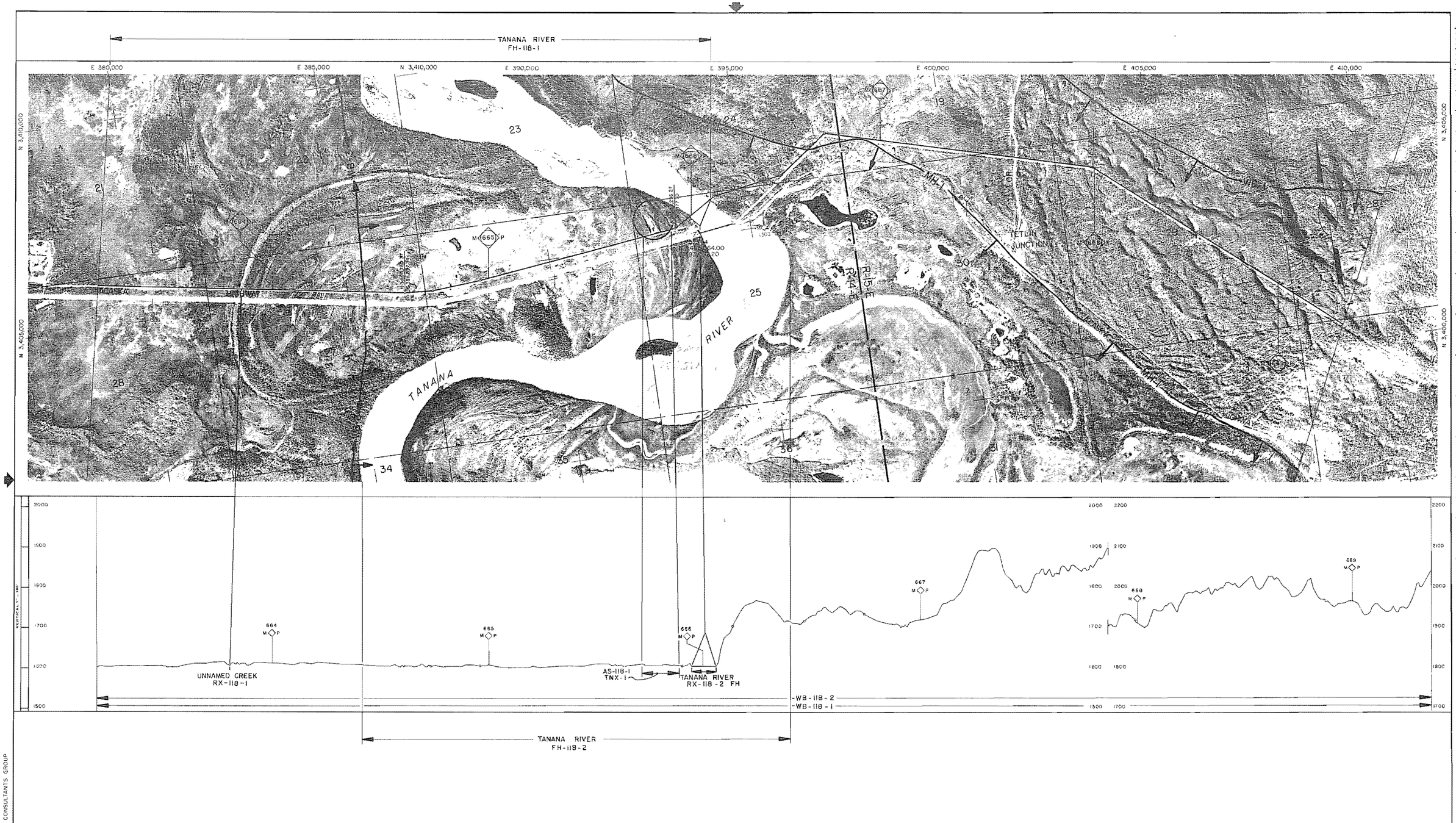
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPR	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/7/80
	DATE 4/7/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV
1" = 1000'	4680-16-00-B-E-117	1

DISTRIBUTION CODE _____

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-118-2												
FH-118-1												
FH-118-2												

SITE OR AREA	** SENSITIVE PERIOD JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-118-1				X								
WB-118-2												
WB-118-3												
MH-118-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 663.2 TO M.P. 669.4

TOWNSHIP T18N RANGE R14E, R15E MERIDIAN COPPER RIVER

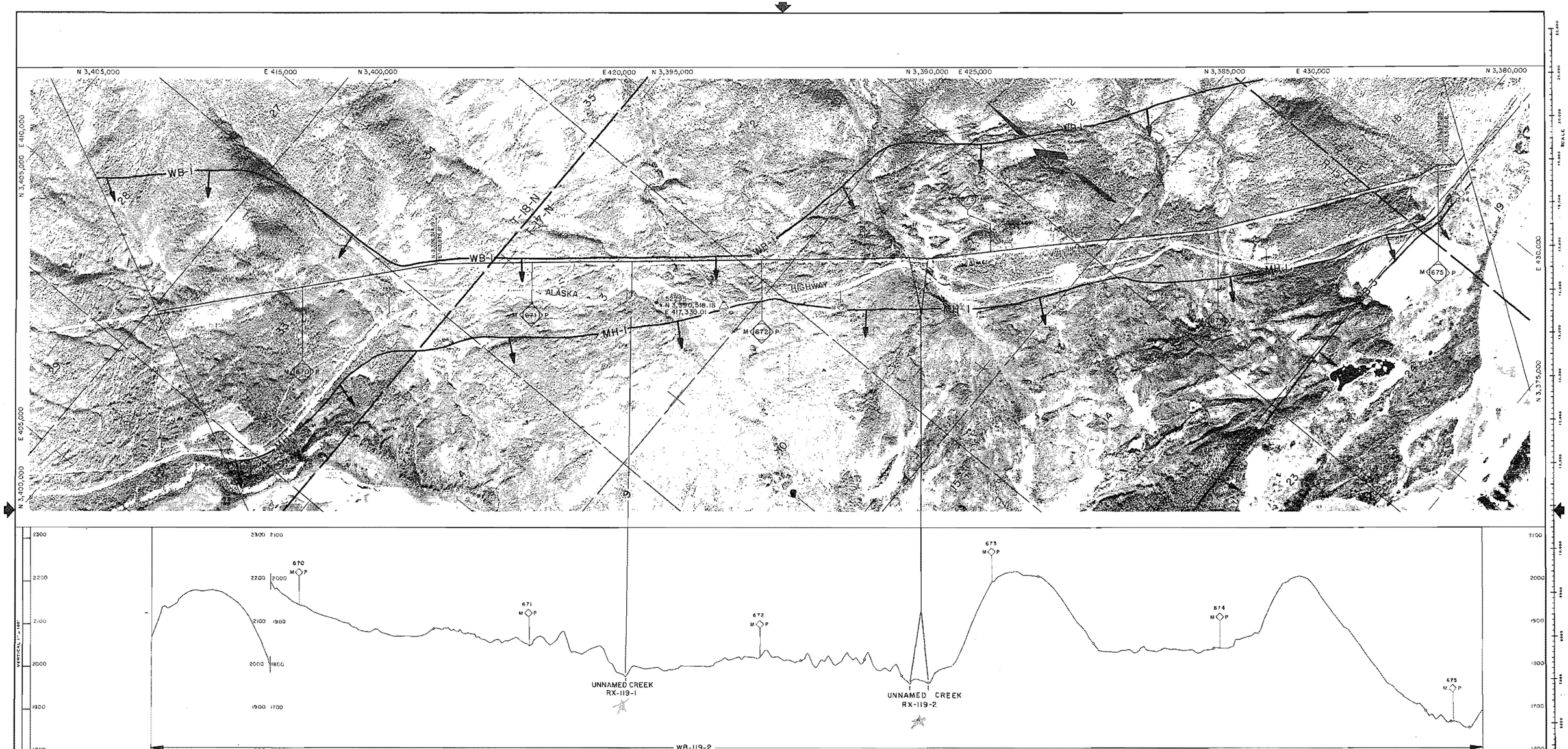
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO AFCS	DATE	FLUOR	DATE
James P. Wilde	1978	K. Dalley	4/3/80
	4/7/80	N.W. ALASKAN	4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-118	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
---- = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-119-1				X	----	----	----	-				
WB-119-2				----					---			
WB-119-3				----					---			
MH-119-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR PERMITTING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 669.4 TO MP 675.1

TOWNSHIP T18N, T17N RANGE R15E, R16E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

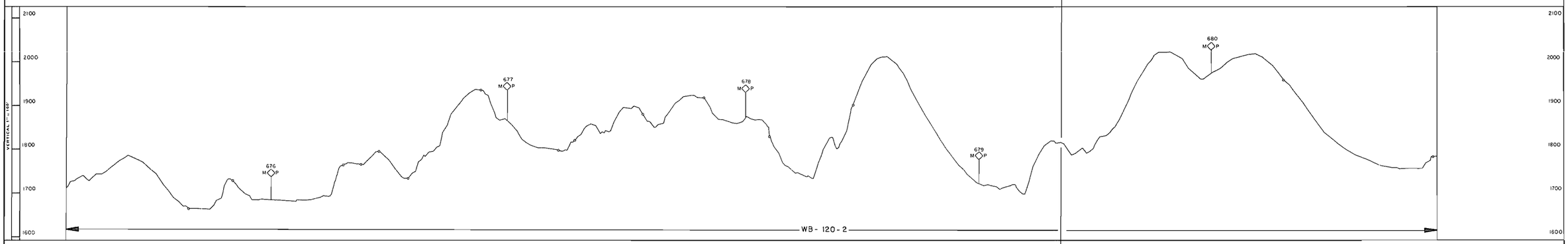
PHOTO SPEC.	DATE 1978	FLUOR	DATE 4/7/80
	DATE 4/7/80	N.W. ALASKAN	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-119	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLODD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-120-1				X----								
WB-120-2				----					----			
WB-120-3				----					----			
AS-120-1												
MH-120-1				____								

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

FLUOR
PROJECT MANAGEMENT CONTRACTOR

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 675.1 TO MP 680.9

TOWNSHIP T17N RANGE R16E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

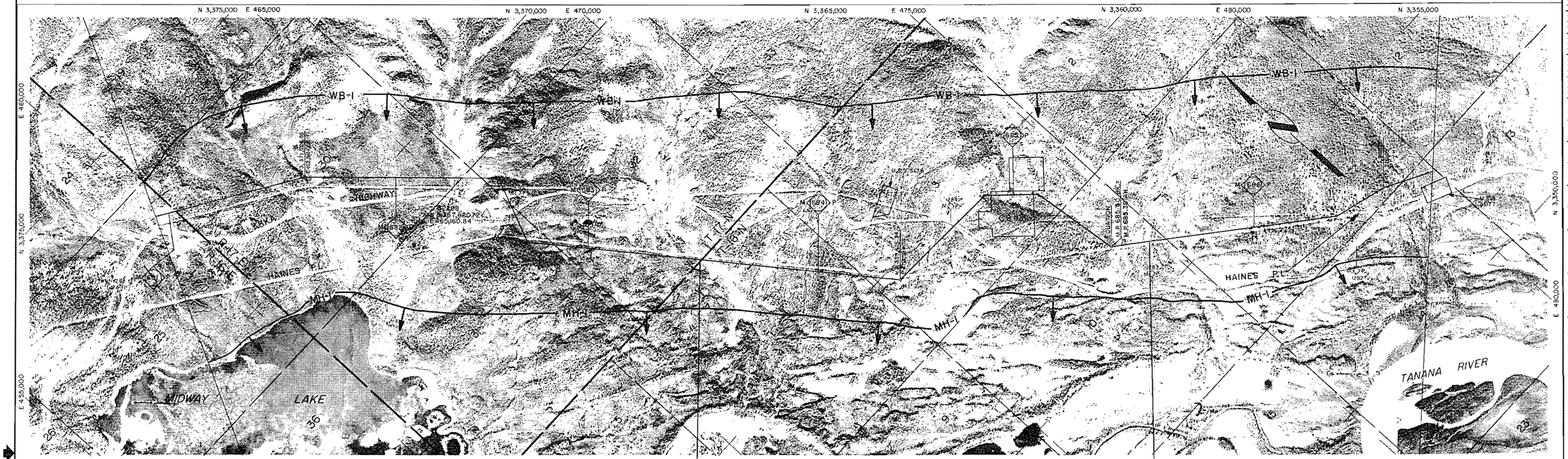
PHOTO APCG	DATE 1978	FLUOR	DATE 4/7/80
	DATE 4/7/80	NW ALASKAN	DATE 4/7/80

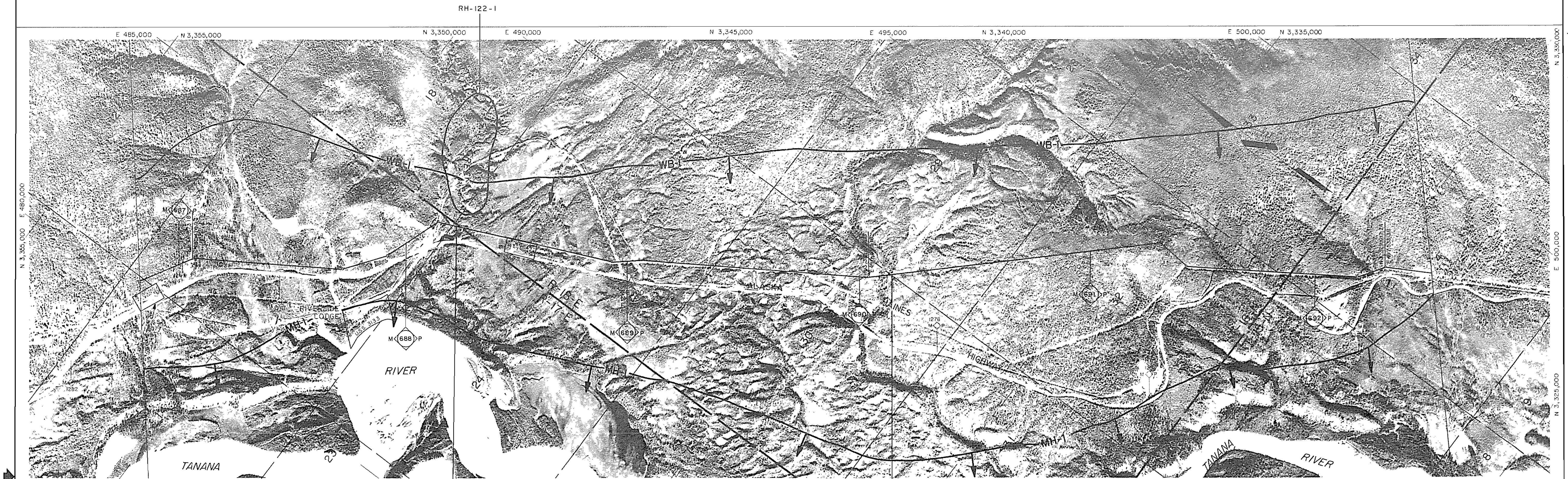
SCALE IN FEET 1" = 1000'

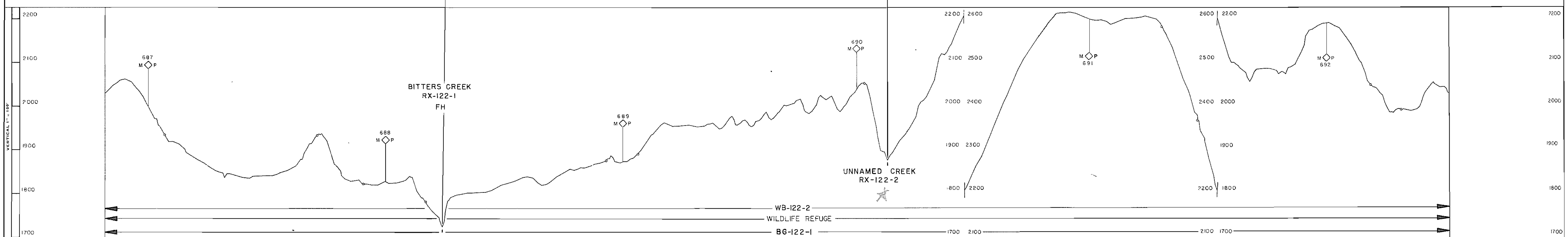
DRAWING NUMBER 4680-16-00-B-E-120

REV. 1

DISTRIBUTION CODE


N 3,375,000 E 465,000
N 3,370,000 E 470,000
N 3,365,000 E 475,000
N 3,360,000 E 480,000
N 3,355,000
E 460,000
N 3,375,000
E 455,000
N 3,350,000
E 480,000
WB-I
WBH
MH-I
HAINES
HIGHWAY
ALASKA
T.12N.
T.6N.
MIDWAY
LAKE
TANANA RIVER
M 682 P
M 683 P
M 684 P
M 685 P
M 686 P
M 687 P
M 688 P
M 689 P
M 690 P
M 691 P
M 692 P
M 693 P
M 694 P
M





SITES NOT ON ALIGNMENT SHEET
RH-122-2

TANANA RIVER
FH-122-1

***LEGEND**

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

—— = *Avoidance Period; Most Activities Prohibited.
.... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-122-1				- -	- -	- -	- -	- -	- -	- -		
FH-122-1	—	—	—	—	—	—	—	—	—	—	—	—

SITE OR AREA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-122-1			—	—	—							
MH-122-1				—	—	—						
RH-122-1				—	—	—	—	—				
RH-122-2				—	—	—	—	—				
WB-122-1				x - -	- -	- -	- -	- -				
WB-122-2									- -			

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M P 686.6 TO M P 692.5

TOWNSHIP T16N, T15N RANGE R17E, R18E MERIDIAN COPPER RIVER

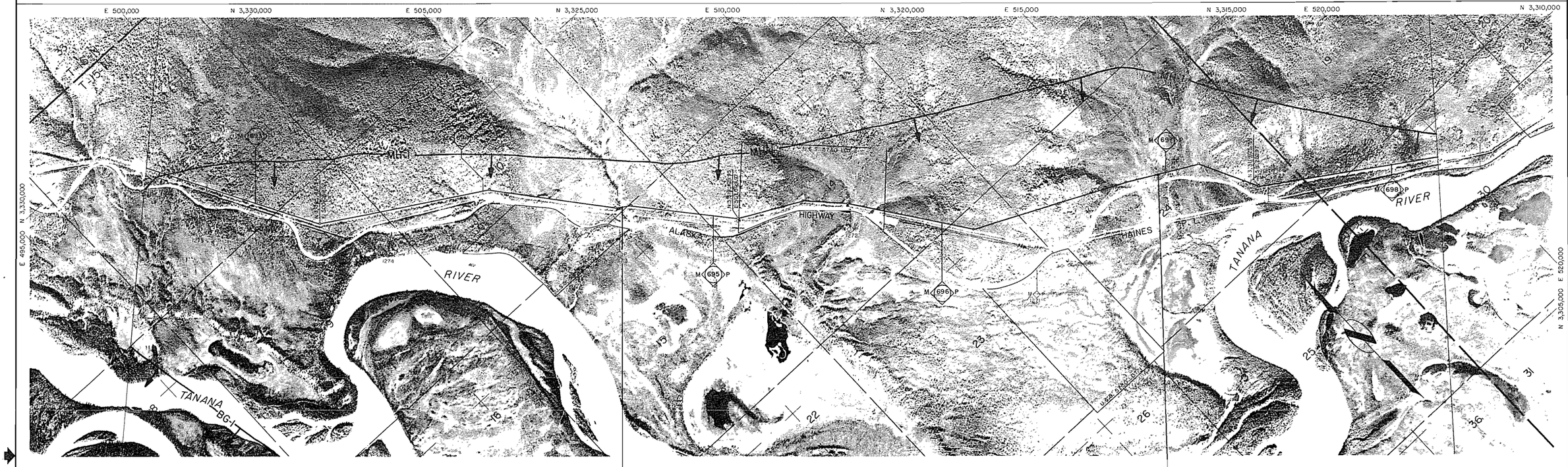
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

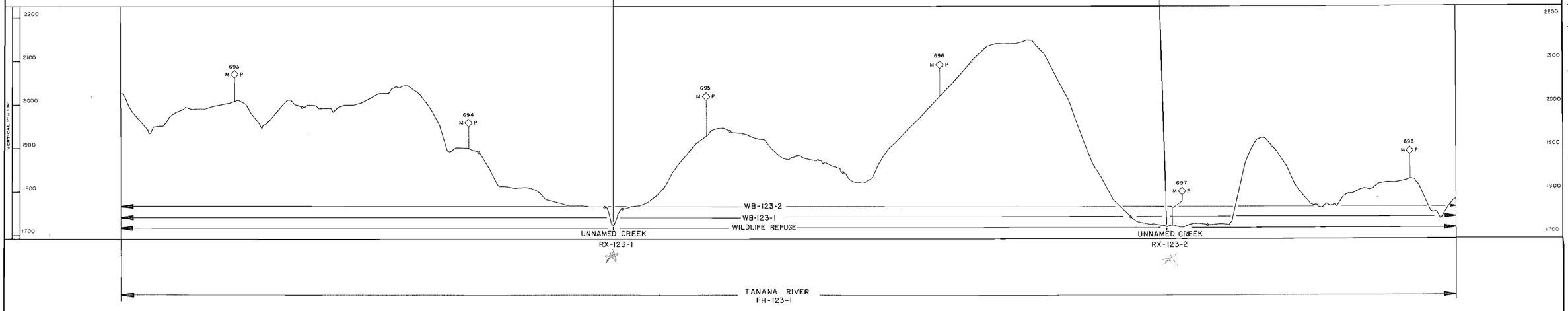
PHOTO APCG	DATE 1978	FLUOR R. Sibley	DATE 4/8/80
James Wehl	DATE 4/8/80	N W ALASKAN [signature]	DATE 4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-122	1

DISTRIBUTION CODE ________

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP





Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

***LEGEND**

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

****SENSITIVE PERIOD**

____ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-123-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BG-123-1			----	----	----							
MH-123-1					----	----						
WB-123-1				X	----	----	----	----	----			
WB-123-2									----			

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 692.5 TO MP 698.2

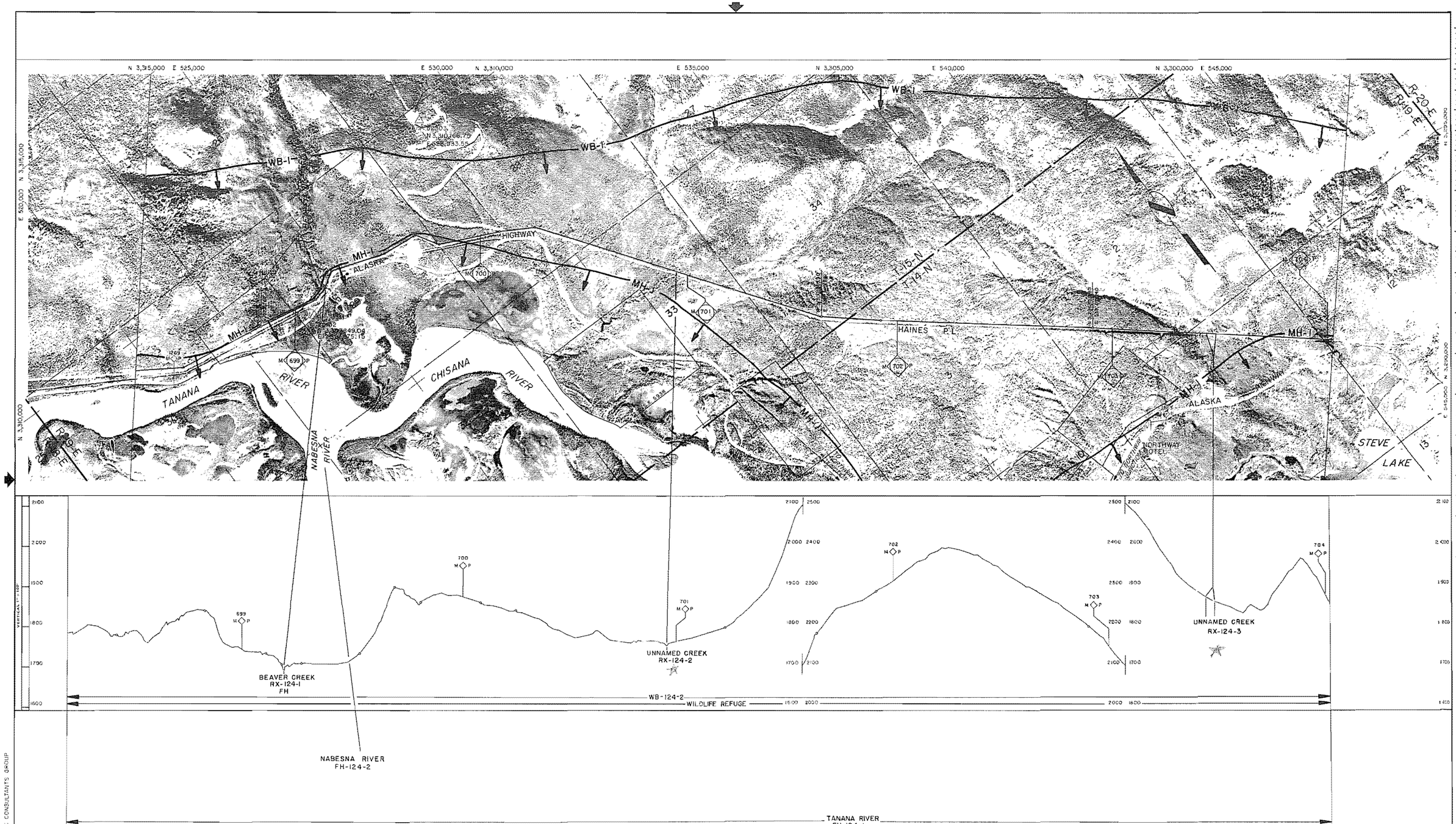
TOWNSHIP T15N RANGE R18E, R19E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APVD	DATE 1978	FLUOR	DATE 4/15/80
	DATE 4/7/80	NW ALASKAN	DATE 4/22/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-123	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-124-1												
FH-124-1												
FH-124-2												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-124-1												
WB-124-1												
WB-124-2												

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and any or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 698.2 TO MP 704.0

TOWNSHIP T15N, T14N RANGE R19E MERIDIAN COPPER RIVER

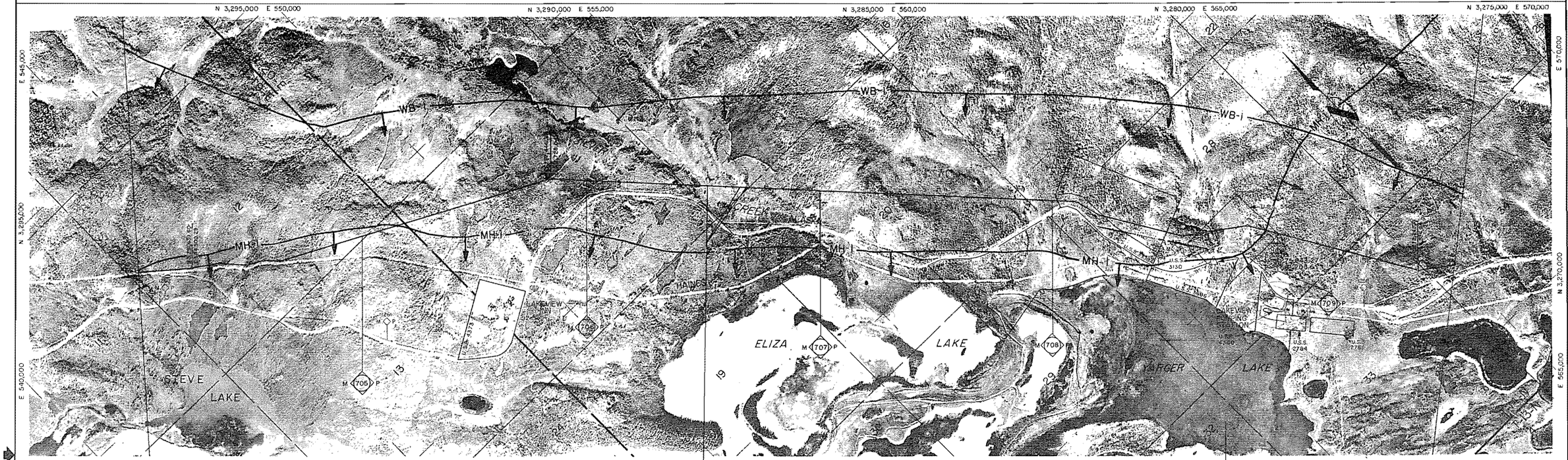
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPS	DATE 1978	FLUOR R. Sibley	DATE 4/7/80
[signature]	DATE 4/7/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-124	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT

RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

——— = **Avoidance Period; Most Activities Prohibited.
..... = **Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-125-1				———	———	———	———	———	———	———		
FH-125-1				———	———	———	———	———	———	———		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-125-1				———	———	———	———	———	———	———		
WB-125-1				x	———	———	———	———	———	———		
WB-125-2				x	———	———	———	———	———	———		

NO	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FENCING			

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary to said Company or to third parties who furnished such information to the Company pursuant to a license or other agreement. Information contained in this drawing document which is confidential or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. Any use or disclosure is authorized except as permitted by said Company or its Alpine Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 704.0 TO MP 709.8

TOWNSHIP T14N RANGE R15E,R20E MEridian COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

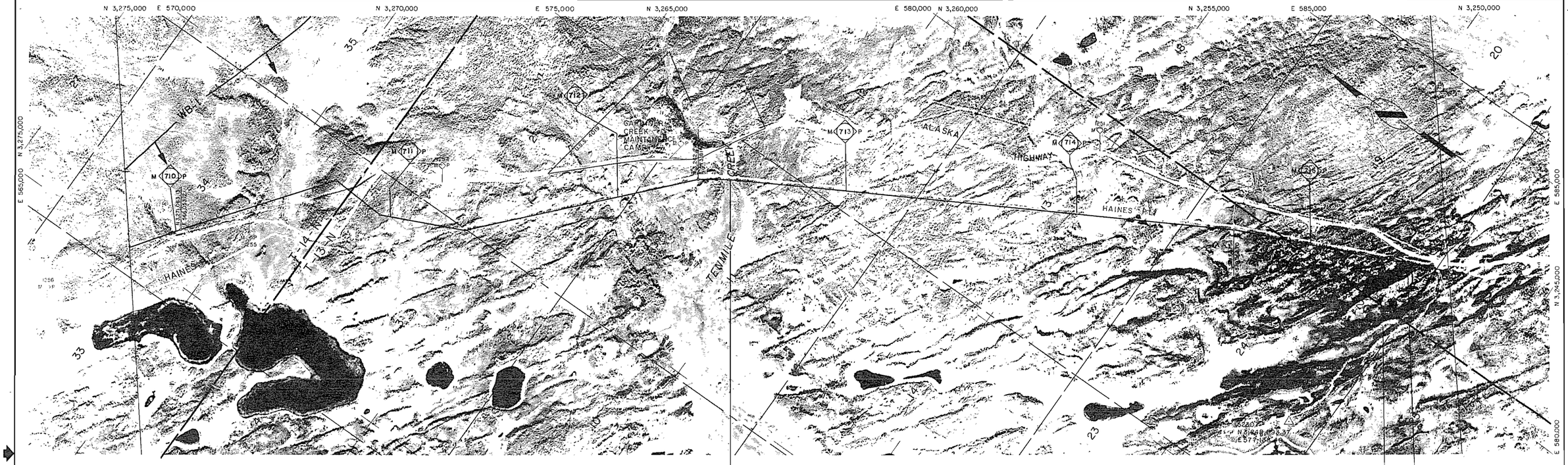
PHOTO APVD	DATE	FLUOR	DATE
[illegible]	1978	[illegible]	4/7/80
[illegible]	4/7/80	NW ALASKAN	4/7/80

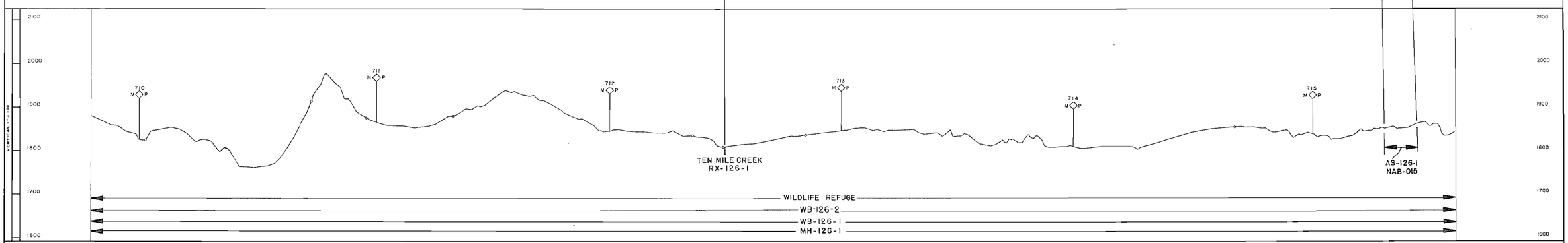
SCALE IN FEET: 1" = 1000'

DRAWING NUMBER: 4680-16-00-B-E-125

REV: 1

DISTRIBUTION CODE





*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-126-1					x							
WB-126-2												
AS-126-1												
MH-126-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing document is the property of the Alaska Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is not confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by other applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P 709.8 TO M.P.715.6

TOWNSHIP T14N,T13N RANGE R20E,R21E MERIDIAN COPPER RIVER

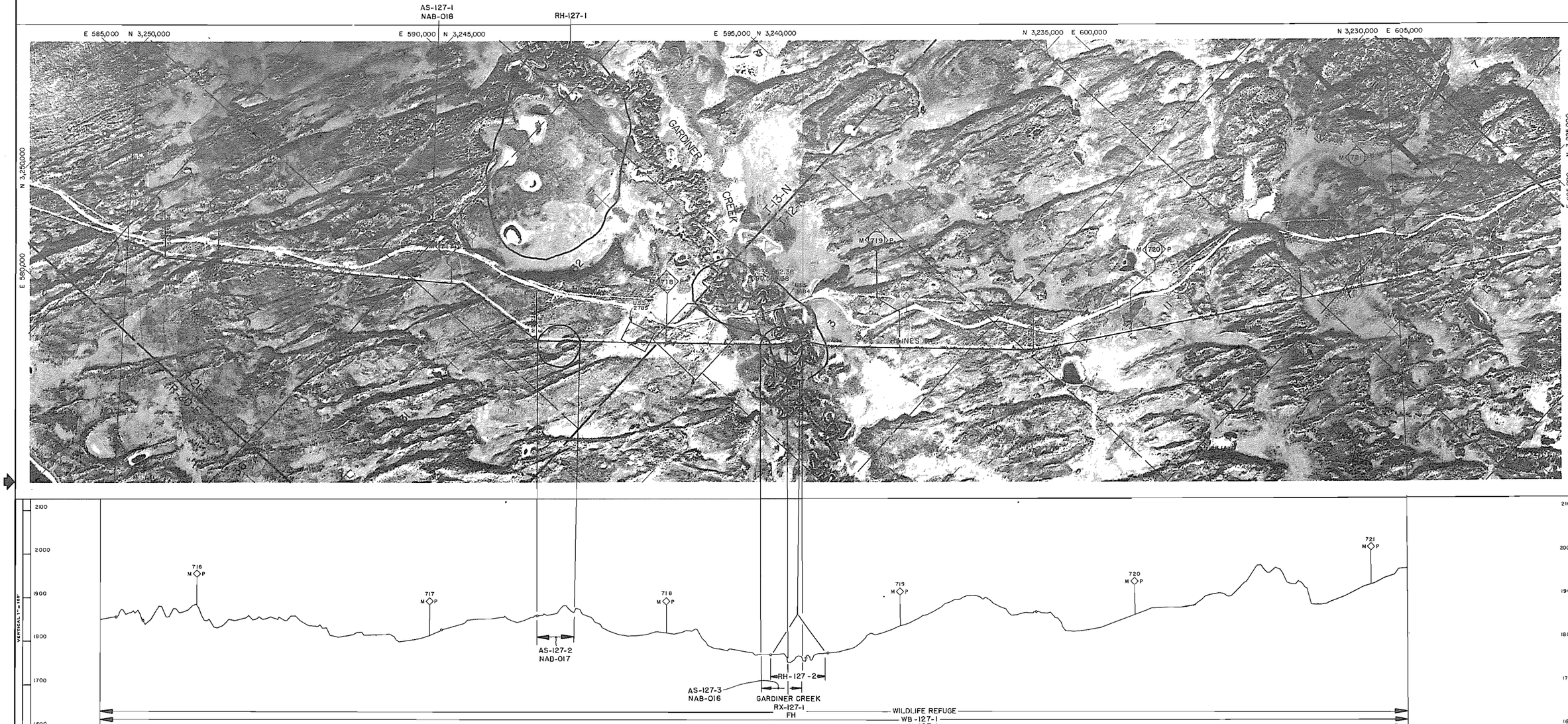
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPD	DATE	1978	FLUOR	DATE	4/7/80
	DATE	4/7/80	NW ALASKAN	DATE	4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-126	1

DISTRIBUTION CODE

Prepared by ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-127-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RH-127-1												
RH-127-2												
WB-127-1				x								
MH-127-1												

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 715.6 TO M.P. 721.2

TOWNSHIP T13N, T12N RANGE R21E MERIDIAN COPPER RIVER

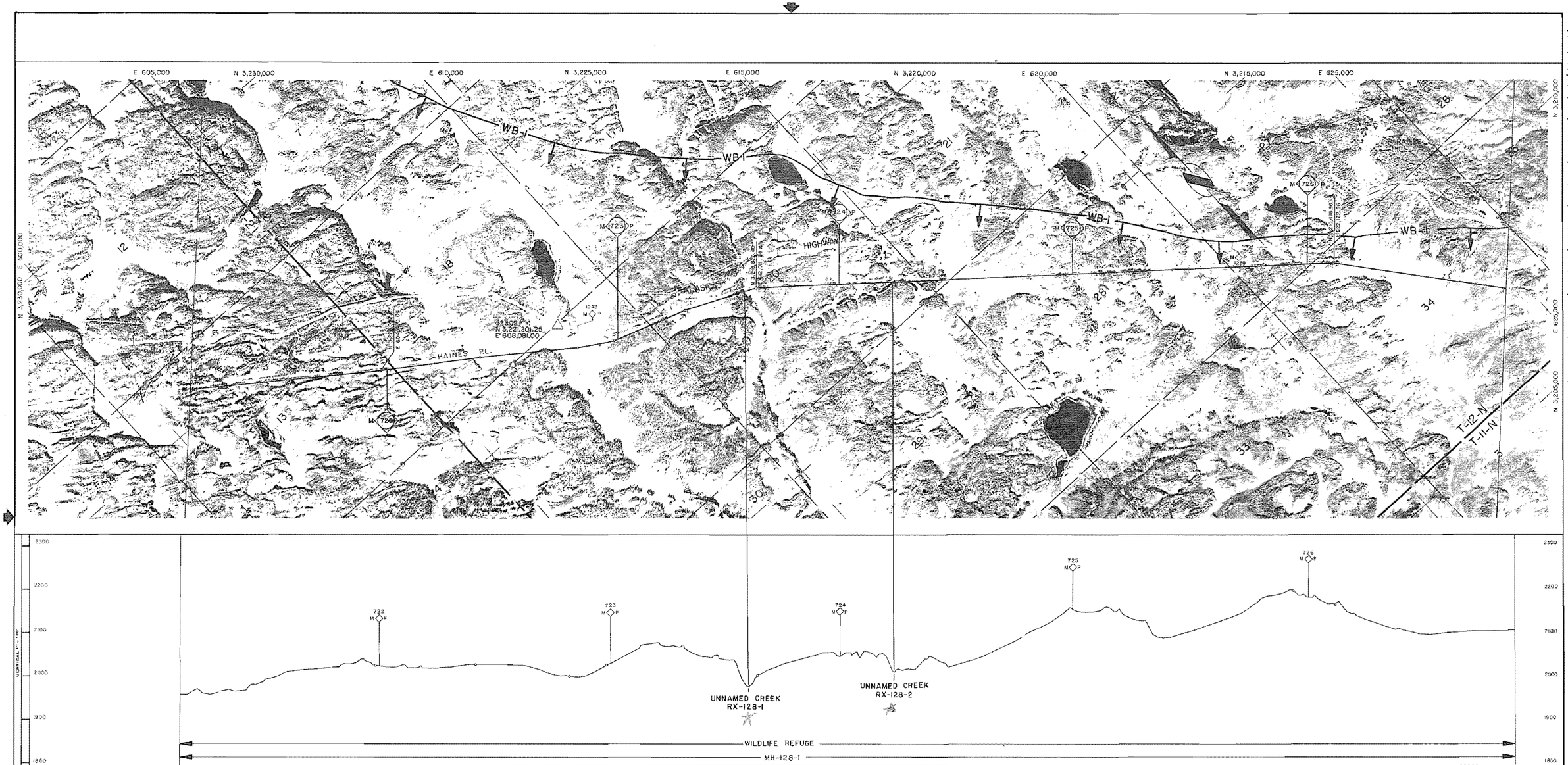
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APCS	DATE 1978	FLUOR R. Dilley	DATE 4/7/80
[signature]	DATE 4/7/80	N.W. ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-127	1

DISTRIBUTION CODE _____

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WB-128-1				X-	-	-	-	-				
MH-128-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4 80	REVISED MILEPOST			
		RELEASED FOR FENCE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing document may also be prohibited by either of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 721.2 TO MP 726.9

TOWNSHIP T12N RANGE R21E, R22E MERIDIAN COPPER RIVER

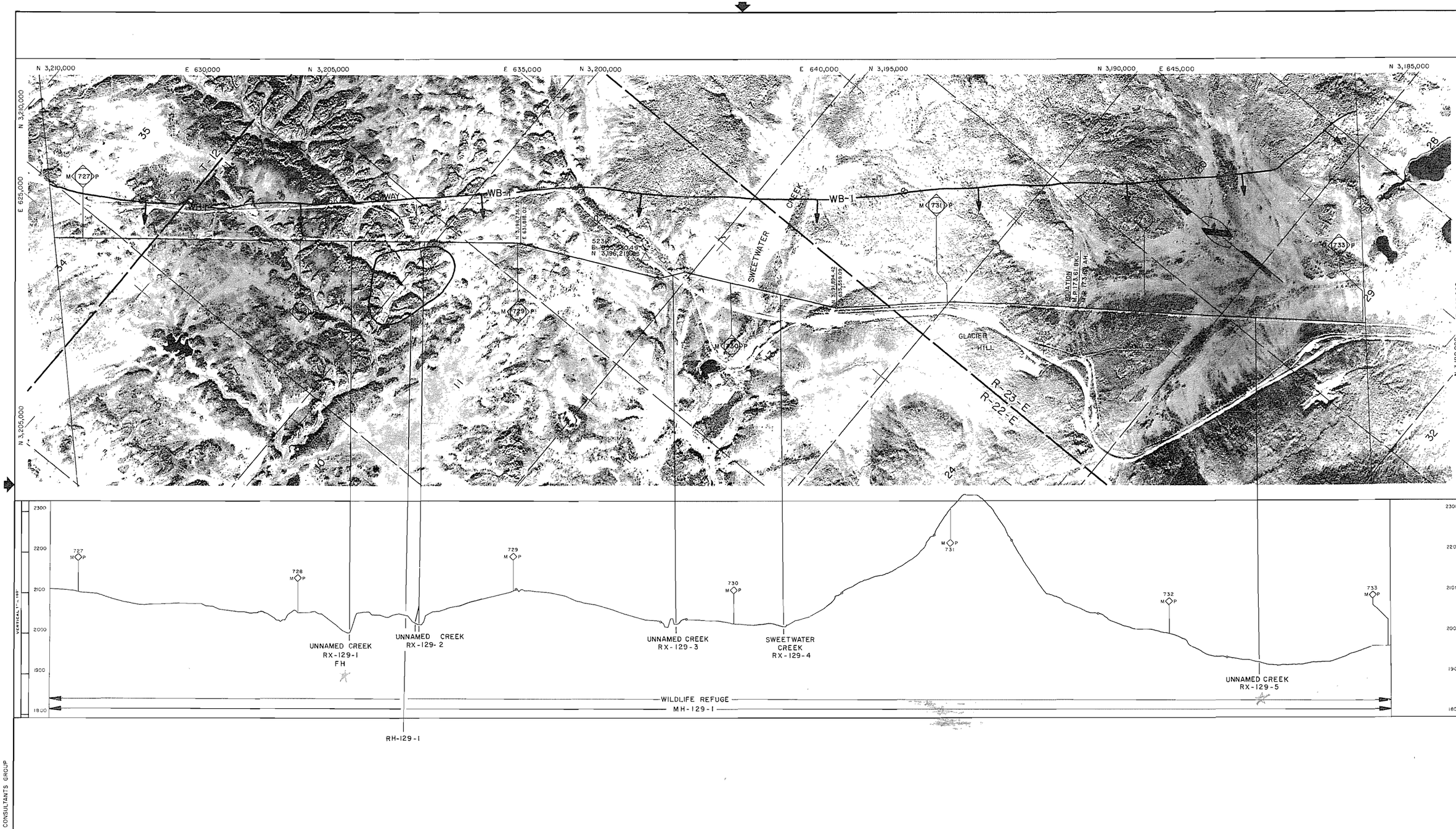
ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPR.	DATE	FLUOR	DATE
[signature]	1978	[signature]	4/7/80
	DATE 4/7/80	N W ALASKAN [signature]	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-128	1

DISTRIBUTION CODE

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

___ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-129-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-129-1												
RH-129-1												
WB-129-1												

NO.	DATE	REVISION	BY	CHKD	APP
1	4-80	REVISED PIPELINE ROUTE & MILEPOST			
		RELEASED FOR FERC FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 726.9 TO MP 733.0

TOWNSHIP T12N,T11N RANGE R22E,R23E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPD	DATE	FLUOR	DATE
James Wehle	1978	R. Sibley	4/8/80
	DATE 4/8/80	N.W. ALASKAN Acorn	DATE 4/9/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-129	1

DISTRIBUTION CODE



*LEGEND

AS = ARCHEOLOGICAL SITE	RX = RIVER AND FLOOD PLAIN XING
BG = BIG GAME MOVEMENT ZONE	WB = WATER BIRD HABITAT
DS = DISPOSAL SITE	WL = WETLANDS
EC = EROSION CONTROL SITE	
ED = EXISTING DRAINAGE STRUCTURE	
EH = ENDANGERED SPECIES HABITAT	
FH = FISH HABITAT	
LB = LAND BIRD HABITAT	
MH = MAMMAL HABITAT	
MS = MATERIAL SITE	
RA = RESTORATION AREA	
RH = RAPTOR HABITAT	

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.

..... = *Restricted Period; Some Activities Prohibited.

x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RX-130-1				----	----	----	----	----	----	----		

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MH-130-1	----	----	----	----	----	----						----
WB-130-1	----	----	----	----	x	----	----	----	----			

NO.	DATE	REVISION	BY	CHKD	APP.
1	4-80	REVISED MILEPOST			
		RELEASED FOR FERC FILING			

Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE
This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

M.P. 733.0 TO M.P. 738.9

TOWNSHIP T11N, T10N RANGE R23E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

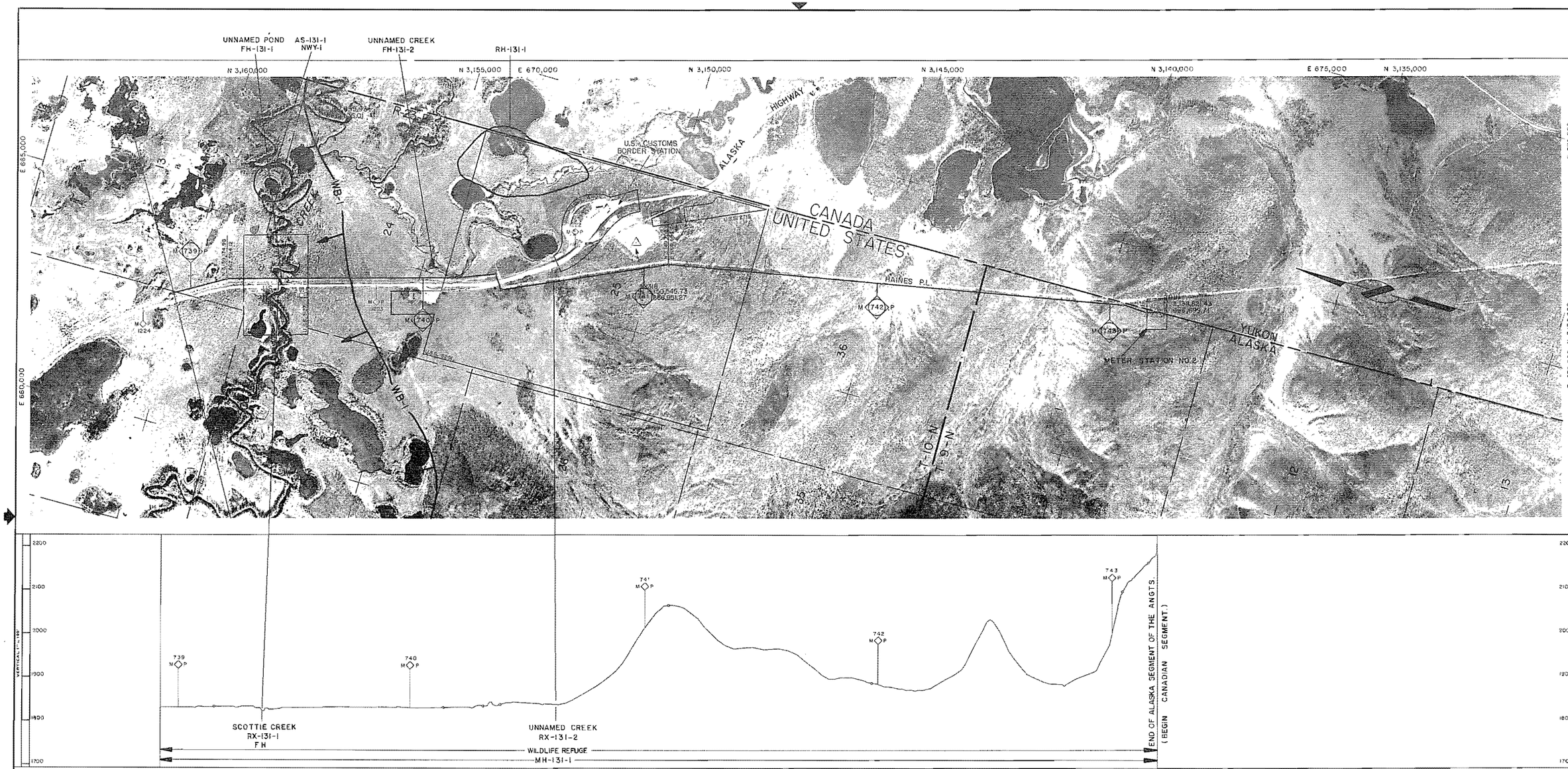
PHOTO APES	DATE 1979	FLUOR	DATE 4/8/80
	DATE 4/5/80	N.W. ALASKAN	DATE 4/5/80

SCALE IN FEET 1" = 1000'

DRAWING NUMBER 4680-16-00-B-E-130

REV. 1

DISTRIBUTION CODE



Prepared By ALASKA PHOTOGRAMMETRIC CONSULTANTS GROUP

*LEGEND

AS = ARCHEOLOGICAL SITE
BG = BIG GAME MOVEMENT ZONE
DS = DISPOSAL SITE
EC = EROSION CONTROL SITE
ED = EXISTING DRAINAGE STRUCTURE
EH = ENDANGERED SPECIES HABITAT
FH = FISH HABITAT
LB = LAND BIRD HABITAT
MH = MAMMAL HABITAT
MS = MATERIAL SITE
RA = RESTORATION AREA
RH = RAPTOR HABITAT
RX = RIVER AND FLOOD PLAIN XING
WB = WATER BIRD HABITAT
WL = WETLANDS

*Refer to the Environmental Master Guide Text for details and documentation.

**SENSITIVE PERIOD

____ = *Avoidance Period; Most Activities Prohibited.
..... = *Restricted Period; Some Activities Prohibited.
x = Subject to Field Determination.

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FH-131-1												
FH-131-2												
RX-131-1												

SITE OR AREA	** SENSITIVE PERIOD											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AS-131-1												
MH-131-1												
RH-131-1												
WB-131-1												

NO	DATE	REVISION	BY	CHKD	APP
1	4 80	[illegible]			
		RELEASED FOR FIRE FILING			

FLUOR
PROJECT MANAGEMENT CONTRACTOR

NOTICE

This drawing/document is the property of the Alaskan Northwest Natural Gas Transportation Company and contains information that is deemed to be confidential and/or proprietary by said Company or by third parties who furnished such information to the Company pursuant to a license or use agreement. Information contained in this drawing/document which is confidential and/or proprietary is not subject to mandatory disclosure under the Freedom of Information Act, and use or disclosure of information contained in this drawing/document may also be prohibited by virtue of applicable laws such as the Federal Trade Secrets Act. No use or disclosure is authorized except as permitted by said Company or its Agent, Northwest Alaskan Pipeline Company.

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY

48" NATURAL GAS PIPELINE

ENVIRONMENTAL MASTER GUIDE

MP 738.9 TO MP 743.1

TOWNSHIP TION, T9N RANGE R23E MERIDIAN COPPER RIVER

ALASKA SEGMENT OF THE ALASKA NATURAL GAS TRANSPORTATION SYSTEM

PHOTO APPD	DATE	FLUOR	DATE
James P. Webb	1978	R. Sibley	4/7/80
	DATE 4/7/80	H.W. ALASKA Dr. Asson	DATE 4/7/80

SCALE IN FEET	DRAWING NUMBER	REV.
1" = 1000'	4680-16-00-B-E-131	1

DISTRIBUTION CODE