

**HB**

**210**

SFIN

FILE

# SENATE FINANCE COMMITTEE REPORT

REPORTED OUT  
 MAY 15 2003  
 SENATE FINANCE COMMITTEE

DATE: 5/13/03

FURTHER:

DATE TURNED IN TO OFFICE: 15 May 2003

Finance Committee considered CS FOR HOUSE BILL NO. 210(RES)

HB 210 CHITINA DIP NET FISHERY

"An Act relating to the Chitina dip net fishery; and providing for an effective date."

and recommends:

- be replaced with \_\_\_\_\_ CS \_\_\_\_\_ (\_\_\_\_\_)
- adopt previous \_\_\_\_\_ CS \_\_\_\_\_ (\_\_\_\_\_)
- attached amendment(s)
- adopt Letter of Intent by \_\_\_\_\_ Committee
- further referral to \_\_\_\_\_ Committee

**Senate Bill:**

- same title
- new title

**House Bill:**

- same title
- technical title
- new: SCR # \_\_\_\_\_

**NEW FISCAL NOTE(S):**

Department	Date	Fiscal	Zero	FN#

**PREVIOUS FISCAL NOTE(S):**

Department	Date	Fiscal	Zero	FN#
F&G	5/7/03	(172.8)		#3
DNR	4/16/02		✓	#1

APPROPRIATION - no fiscal note

SIGNATURES AND RECOMMENDATIONS:	DO PASS	DO NOT PASS	NO REC	AMEND
<i>Adrian H. Taylor</i>	✓			
<i>Bob Bunker</i>		✓		
<i>Ken Stevens</i>	✓			
<i>Alvin C. ...</i>		✓		
COCHAIR:				
COCHAIR: <i>Cosy Wickens</i>	✓			

MAY 15 2003

SENATE

# FISCAL NOTE

STATE OF ALASKA  
2003 LEGISLATIVE SESSION

Fiscal Note Number: 1  
Bill Version: CSHB 210(RES)  
(H) Publish Date: 4/7/03

Revision Date/Time (Note if correction): \_\_\_\_\_ Dept. Affected: Natural Resources  
Title: Chitina Dip Net Fishery BRU: Resource Development  
Component: Claims, Permits & Leases  
Sponsor: Coghill, Stoltze  
Requester: (H) RES Component No.: 2460

**Expenditures/Revenues (Thousands of Dollars)**

Note: Amounts do not include inflation unless otherwise noted below.

OPERATING EXPENDITURES	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Personal Services						
Travel						
Contractual						
Supplies						
Equipment						
Land & Structures						
Grants & Claims						
Miscellaneous						
<b>TOTAL OPERATING</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

CAPITAL EXPENDITURES						
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CHANGE IN REVENUES ( )						
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**FUND SOURCE (Thousands of Dollars)**

1002 Federal Receipts						
1003 GF Match						
1004 GF						
1005 GF/Program Receipts						
1037 GF/Mental Health						
Other (Specify Type--Do not abbreviate)						
<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Estimate of any current year (FY2003) cost: None  
Mark this box (X) if funding for this bill is included in the Governor's FY 2004 budget proposal:

**POSITIONS**

Full-time						
Part-time						
Temporary						

**ANALYSIS:** (Attach a separate page if necessary)

This bill eliminates the \$25 fee for the Chitina dip net fishing permit and requires state agencies to publicize and mark state land that provides access to the fishery. The \$25 fee has been appropriated to Fish & Game in past years to pay for sewage and trash disposal, and to pay for the public's right to use land owned by Ahtna and Chitina Native Corp. Elimination of the fee eliminates the source of funding for sewage and solid waste cleanup for the approximately 7,000 dipnetters and their families who use this area.

DNR is working with other agencies regarding the responsibility for the signage as required in the bill.

Prepared by: Bob Loeffler, Director Phone 907-269-8625  
Division: Mining, Land & Water Date/Time 4/4/2003  
Approved by: Tom Irwin, Commissioner Date 4/4/2003  
Agency: Natural Resources

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# FISCAL NOTE

REPORTED OFF  
MAY 15 2003  
SENATE FINANCE  
COMMITTEE

**STATE OF ALASKA**  
**2003 LEGISLATIVE SESSION**

Fiscal Note Number: 3  
Bill Version: CSHB 210(RES)  
(H) Publish Date: 5/9/03

Revision Date/Time (Note if correction): 5/7/03 3:00 p.m. Dept. Affected: Fish and Game  
Title: Chitina Dip Net Fishery Permit Fee BRU: Sport Fisheries  
Component: Sport Fisheries  
Sponsor: Representatives Coghill, Stoltze  
Requester: House Finance Component No. 464

**Expenditures/Revenues** (Thousands of Dollars)

Note: Amounts do not include inflation unless otherwise noted below.

OPERATING EXPENDITURES	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Personal Services						
Travel						
Contractual	(172.8)	(172.8)	(172.8)	(172.8)	(172.8)	(172.8)
Supplies						
Equipment						
Land & Structures						
Grants & Claims						
Miscellaneous						
<b>TOTAL OPERATING</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>

<b>CAPITAL EXPENDITURES</b>						
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<b>CHANGE IN REVENUES ( 1024 F&amp;G )</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>
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**FUND SOURCE** (Thousands of Dollars)

1002 Federal Receipts						
1003 GF Match						
1004 GF						
1005 GF/Program Receipts						
1037 GF/Mental Health						
1024 Fish and Game Fund	(172.8)	(172.8)	(172.8)	(172.8)	(172.8)	(172.8)
<b>TOTAL</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>	<b>(172.8)</b>

Estimate of any current year (FY2003) cost: 0.0  
Check this box (X) if funding for this bill is included in the Governor's FY 2004 budget proposal:

**POSITIONS**

Full-time	0	0	0	0	0	0
Part-time	0	0	0	0	0	0
Temporary	0	0	0	0	0	0

**ANALYSIS:** (Attach a separate page if necessary)  
For the past three years (2000, 2001, 2002) the cost of a Chitina dip net fishing permit has been \$25.  
  
Revenues from the fee have been utilized as follows:  

- \$5 from each permit has been used to pay contractual costs for site waste management services including portable restrooms and garbage receptacles;
- \$2 from each permit has been retained to pay for administration of the permit program and services;
- \$18 from each permit has been allocated for contractual agreements with the Chitina and Ahlna Corporations for guaranteed access on corporation lands by permit holders and eligible family members.

Prepared by: Kelly Hepler, Director Phone 465-4180  
Division: Sport Fish Date/Time 5/7/03 3:08 PM  
Approved by: Kevin C. Duffy, Commissioner Date 5/7/2003  
Agency: Alaska Department of Fish and Game

... ITTEE COPY

FISCAL NOTE #3

STATE OF ALASKA  
2003 LEGISLATIVE SESSION

BILL NO. CSHB 210(RES)

**ANALYSIS CONTINUATION**

The number of permits issued for the past three calendar years is as follows: In 2002 and 2001, permits were sold by the department's licensing section through the same vendors who sell fishing and hunting licenses. In 2002, 5880 permits were sold and 534 free permits issued to seniors. In 2001, 8535 permits were sold and 506 free permits issued to seniors. In 2000, permits were not sold by the department's licensing section but by the Division of Sport Fish. A total of 8151 permits were issued in 2000 and we are assuming that 500 of these permits were free to seniors, making a total of 7651 actually sold. Based on this information, average annual sales for the past three years has been 7355. Funds generated from the sales of 7355 permits would be \$183.8.

With the recent change in classification of the fishery from subsistence to personal use, permittees will be required to have a sportfish license. We believe that a high percentage of participants have annually held sportfish licenses as they participated in sportfishing elsewhere. For this fiscal note, it is assumed that 10% of the permittees have not held sport fish licenses and will now purchase them in order to participate. The sale of these additional licenses would result in revenue to the Fish and Game Fund of \$11.0. This results in the net revenue decrease of \$172.8.

# ALASKA STATE HOUSE OF REPRESENTATIVES

Interim Address:

**3340 Badger Road, Suite 290**  
**North Pole, AK 99705**  
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Fax# (907)-488-4721



**Session Contact:**  
(907)-465-3719  
FAX# (907)-465-3258  
**State Capitol**  
**Room 204**

## REPRESENTATIVE JOHN COGHILL

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### Sponsor Statement – HB 210 Chitna Dipnetting Fee

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HB 210 would eliminate the \$25 fee for a Chitna Dipnetting Permit. In 2000 the legislature imposed the increased fee to guarantee access to the fishery by utilizing \$18.00 per permit to pay to Ahtna and Chitna Corporations a trespassing fee for river access across their land.

Legislation promoted by Representative John Davies and Senator Pete Kelly provided funding to undertake a survey in 2001. There was a specific \$100,000 appropriation for survey and signs. DOTPF was able to obtain the surveyor who had done the majority of surveying for native allotments and used aerial photography. There is approximately \$54,000 remaining for brochure design and printing costs for enough brochures as recommended by fish and game. DOTPF believes there might be enough and possibly put two information signs at the Pavillion and O'Brien Creek.

The results of the survey indicate that the more than 60% of the access to the river is public land, thus there is no reason for people to trespass on private lands to access the Chitna fisheries. A key facet of this legislation is to make sure public access is adequately marked to protect private property owners from trespasses.

In testimony last year, Gordy Williams, legislative liaison for Fish & Game, acknowledged that the Chitna dipnet fishery is the largest fishery in the state and that in 2001 the department issued over 8,000 household permits.

I acknowledge that there are problems of maintenance to overcome, but am committed to help solve them in the same manner as any other fishery in the state. One solution would be for Ahtna and Chitna Corporations to build parking spaces, camping facilities and boat ramps that could be utilized for a fee.

The elimination of the fee completely is a policy call that addresses Chitna as the only fishery in the state that has been singled out to pay a maintenance fee. Alaskans dipnetting in the Chitna fisheries should be treated the same as those utilizing other fisheries.

Representative\_John\_Coghill@LEGIS.state.ak.us

**White Paper**  
**HB 210, an Act Relating to the Chitina Dipnet Fishery**  
**Prepared by: The Alaska Fish and Wildlife Conservation Fund**  
**May 2, 2003**

**What does HB 210 do?**

HB 210 seeks to take the Chitina dipnetting fee out of state statute and by doing so, foster a regulatory process that would address services such as waste and trash removal. HB 210 also requires DOT to clearly delineate public and private access in and around Chitina and provide a public brochure showing ownership patterns. Currently there are no land markings nor public information about land ownership patterns at Chitina. HB 210's intent is to clearly show the public what access is legal and what access is trespass and by doing so, reduce, if not eliminate, trespass on private lands in and around Chitina. Further, HB 210 opens the door to private landowners seeking to charge an access fee across their lands, an option currently not authorized under existing statute.

**Why HB 210?**

In 2000, the Legislature established a \$25 Chitina dipnetting fee in response to trespass concerns from private landowners. Of this \$25, approximately \$17 went to private landowners for trespass impacts, \$5 went towards services such as trash and waste removal, and the remaining amount to administration.

In addition to the \$25 fee, the legislature also authorized \$100,000 to conduct a survey of lands in and around Chitina. This survey was completed in 2001 and clearly showed that at least 60% of the lands in and around Chitina were public. While some contend the percentage of public land is much higher, that fact that much of the area is public raised the issue of whether the trespass fee was legally valid. As the State noted soon thereafter, it placed them in the precarious position of charging a public fee to pay private landowners for access across public lands. No other agreement of this nature between the state and private landowners existed before then and none exists now, except at Chitina. If this precedent is allowed to prevail, it would create serious legal issues for the state as well as an economic hardship of undefined magnitude. This precedent must be taken seriously.

**Concerns with HB 210:**

Private landowners (Chitina and Ahtna Native Corporations), in a letter from Chitina Native Corporation to Representative Bill Williams, expressed several concerns. Each concern from the letter is enumerated below in addition to HB 210's statutory response.

*"The State has the responsibility to compensate private property owners or protect their private property if there will be trespass."*

The occurrence of trespass is assumed in this statement. As noted earlier, HB 210 would reduce or even eliminate trespass by requiring DOT to clearly mark public and private access and provide a public brochure showing these access points. Currently no markings nor public information exists to assist citizens seeking to avoid trespass.

Further, under existing statute, it remains virtually impossible for citizens to know if they are trespassing. Private landowners have posted no signs and until 2001 when the survey was conducted, the question of ownership remained unanswered. The ambiguity of ownership – what was public and private – was precisely the reason for the initial fee. HB 210 seeks to eliminate this ambiguity by getting the necessary land ownership information to the public. By doing so, private landowners will be able to fully prosecute trespass if they choose to do so and will have the added benefit of the state marking their lands for them (as opposed to doing it themselves). By marking these lands, trespass will be significantly reduced, and if not, prosecuted under law, further, private landowners will now be able to charge trespass fees across their lands whereas before this was not possible due to lack of marking. This provision is a win-win for both the individual citizen and private landowners.

It should be noted that never before has the state made payments to private landowners *if* something may happen on their land. The obligation in statute to prevent trespass is placed upon two parties: private landowners and individual citizens. Private landowners seeking to reduce or eliminate trespass can post signs, build fences, and otherwise implement measures to avoid public exposure. Similarly, individual citizens are required to know what is public and private and should they knowingly trespass on private lands, they can be prosecuted under law.

*"Many of the people (dipnetters) don't have a clue where this 50 to 60 percent (of public land) is located at."*

This is true because private landowners have not marked their lands nor has the 2001 survey showing land ownership been allowed to be produced and disseminated to the public. HB 210 allows this information dissemination to occur to reduce private property impacts. Under existing statute, individual citizens accessing the Chitina fishery *are not required* to know what is private because they pay a trespass fee to the private landowners expressly for the purpose of accessing these lands. The letter is inconsistent in that it appears to expect private citizens to know where the private land exists without acknowledging that 1) the land is not marked, and 2) citizens pay a fee to access these lands.

*"These dipnetters cut trees, leave trash, park and camp within the right of way, and want to be able to do so for free."*

The letter is correct in that people do park and camp within the right of way. This is encouraged to minimize any impact on private property, consistent with private landowners concerns. The letter is also correct in that trash is generated by users – with 10,000 people accessing the fishery on an annual basis, this is to be expected. It also highlights the state's responsibility to accommodate these users by providing trash and waste removal services.

The letter is flat wrong however when it states, *"...to do so for free."* This wholly ignores the fact that dipnetters have been paying for services for nearly two decades. It also ignores the fact that dipnetters have been paying for "trespass" access across public lands. If any discussion regarding remuneration for use is to occur, we submit that it should also include compensation by either the state or private landowners to the dipnetters who have historically paid "trespass fees" to private landowners for access to public lands.

#### **Summary:**

The Chitina Native Corporation letter states, *"If the State of Alaska desires to discontinue charging these dipnetters a fee for their dipnetting, that is fine, as long as there is something in place to ensure your responsibilities are met in regards to the private property."*

HB 210 does exactly this. It goes above and beyond the state's responsibilities in that the state is offering to mark private lands to avoid trespass, an action that historically and generally falls to the private landowners.

The passage of HB 210 will accomplish the following objectives: 1) assist in reducing or eliminating the impact to private lands, 2) afford private landowners the opportunity to charge discretionary access fees for trespass across their lands, 3) bring the State back into compliance with existing statutes regarding public payments for private access, 4) foster a regulatory process that could address services at Chitina in a long-term sustainable manner, 5) transfer the job of providing trash and waste removal from the ADF&G to a more appropriate agency such as DNR or DOT, and 6) make the Chitina dipnet fishery consistent in management and practice with all other fisheries in the State.

THE  
FOLLOWING  
DOCUMENT(S)  
ARE  
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COPIES

Richard H. Bishop  
1555 Gus's Grind  
Fairbanks, AK 99709  
907-455-6151 [rbishop@otl.alaska.net](mailto:rbishop@otl.alaska.net)

April 4, 2003

Rep. John Coghill, Majority Leader  
Alaska State Legislature  
State Capitol  
Juneau, AK 99801-1182  
By FAX 465-3258

Dear Rep. Coghill:

I strongly support passage of HB 210. Thank you for sponsoring the bill.

The Chitina dipnet fishery permit fee was an acceptable compromise during the many years that ownership of lands crossed to reach dipnet sites was uncertain. That uncertainty has been removed. As your bill requires, public access needs to be clearly marked so that dipnetters and other users of public lands and waters can avoid trespassing on private land.

There should be no permit fee to fish by dipnet at Chitina. Currently a sport fishing license is again required to dipnet.

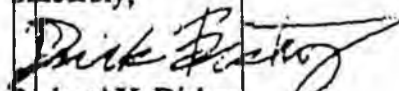
Responsibility for garbage and waste services should not be ADF&G's, nor should the cost of garbage and waste services be paid out of Fish & Game funds. Garbage/waste management at Chitina should be handled similarly to state parks, waysides, or boating access points such as at the Salcha River. If a "service fee" is needed, it could be implemented by DNR or DOT regulations, according to which Department assumes public service responsibilities.

I support the "user fee" for garbage/waste service at Chitina, but not dressed up as a fishing permit. I do not support continuing the payments to private landowners as compensation for possible trespass, nor a permit fee of any kind to provide such payments.

Please include this letter in the Committee hearing packet if possible.

Thank you.

Sincerely,



Richard H. Bishop



# Alaska Outdoor Council

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7anden  
airbanks

The Honorable John Coghill  
Majority Leader, Alaska State House  
State Capitol, Room 502  
Juneau, AK 99801

Dear Majority Leader Coghill,

On behalf of the Board of Directors and collective membership of 12,000 Alaskans, I am writing to express our appreciation to you for introducing House Bill 210 "An Act relating to the Chitina dip net fishery." Please know you have our strong support and commitment to passing this legislation.

House Bill 210 is very timely. As you may be aware, a survey of the lands in and around Chitina was completed in the summer of 2001. This survey conclusive' showed that up to 60% of the area utilized by dipnetters is public land. In addition, public corridors were identified that will allow dipnetters access to fishing sites without crossing private lands. The initial \$25 fee established by the legislature to secure access across private lands is no longer necessary.

Two letters speak to this point, the first from former Governor Tony Knowles to the Chitina Native Corporation dated April 25, 2002. The letter states, "Last summer DOT/PF staff completed this legislatively funded survey, which showed that at least 60 percent of the length of the right of way between O'Brien Creek and Haley Creek affords legal public access to the Copper River." Further, "The results of this survey places the state in the awkward position of collecting fees from a portion of users in the Chitina subsistence fishery to pay for access that is not needed in order to participate in the fishery." Governor Knowles concludes, "...ADF&G is considering a proposal that would repeal...the access fee."

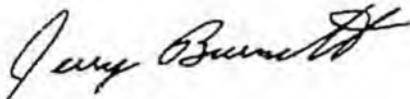
The second letter, from then Commissioners Pat Pourchot, DNR, and Frank Rue, ADF&G, to AHTNA Incorporated, dated August 5, 2002, stated, "The current year-to-year compensation process has been difficult for all parties, and given information from the survey and other developments, we do not believe that the current management arrangement is sustainable." The letter went on to state that a bill seeking to repeal the fee passed the Senate and "would likely have passed the House as well if it had not been so close to the end of the session."

It is our hope that through your efforts and others, dipnetters will no longer be forced to pay a private entity to access public lands. The facts in this case are clear: 1) the \$25 private land trespass fee is no longer needed now that public access has been identified;

2) the agencies responsible for marking and informing the public about this access have received funds to do so but have not done so because the fee remained in place unnecessarily, and 3) this bill in no way limits private landowners from charging for access across their lands should public patrons wish to utilize their lands. We believe it's a win-win for both landowners and the public and would strongly encourage HB 210's passage this year.

Again, thank you for introducing HB 210 and know we stand in support of its passage.

Sincerely,



Jerry Burnett  
President

CC: Frank Murkowski, Governor, State of Alaska  
Kevin Duffy, Commissioner, Alaska Department of Fish and Game  
Gene Therriault, Senate President, Alaska State Legislature  
Pete Kott, House Speaker, Alaska State Legislature



TONY KNOWLES  
GOVERNOR  
governor@gov.state.ak.us

STATE OF ALASKA  
OFFICE OF THE GOVERNOR  
JUNEAU

P.O. Box 11000  
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April 25, 2002

*Jesse -  
8 pages total  
includes other  
brochures*

Ms. Mildred Buck  
President and CEO  
Chitina Native Corporation  
P.O. Box 3  
Chitina, AK 99566

Dear Ms. Buck:

Thank you for your letter concerning issues related to the subsistence fishery in the Chitina subdistrict of the Copper River. The focus of state involvement has been to maintain access to the fishery, while at the same time being good neighbors and responsible stewards of the area's resources. Since 1992, this has been accomplished by the collection of fees from dip net fishermen. The bulk of these receipts were paid to the Chitina and Ahma corporations through contractual arrangements that provided access across corporation lands.

When the Legislature passed Senate Bill 301 in 2000, increasing the Chitina dip net fee from \$10 to \$25, it also contained language directing the Alaska Department of Fish and Game (ADF&G) to work with private landowners, the Department of Natural Resources (DNR), and the Department of Transportation and Public Facilities (DOT/PP) to "identify the portion of the Copper River Railroad right-of-way associated with the Chitina dip net fishery." Last summer DOT/PP staff completed this legislatively funded survey, which showed that at least 60 percent of the length of the right-of-way between O'Brien Creek and Halcy Creek affords legal public access to the Copper River.

The results of this survey places the state in the awkward position of collecting fees from a portion of users in the Chitina subsistence fishery to pay for access that is not needed in order to participate in the fishery. Given the new survey and in response to inquiries from legislators, ADF&G is considering a proposal that would repeal or reduce the access fee. The state recognizes the need for garbage and sanitation services for the visiting public, and ADF&G is working with legislators to arrive at an arrangement to ensure those services continue to be provided.

Ms. Mildred Buck

April 25, 2002

Page 2

In letters to both the Chitina and Ahtna Corporations in February 2002, ADF&G staff articulated the state's position. Although ADF&G believes collecting the full access fee is not justifiable, they will cooperate on other important issues. ADF&G and DOT/PP staff will work together to produce a map useful in locating public access points to the river along the right-of-way. DOT/PP staff will work with survey professionals to mark the right-of-way so the public can avoid trespass. Additionally, the state will work this season with private landowners to help mark private lands, and will include a statement on the Chitina subsistence permit about the need to avoid trespassing on private lands. If your corporation is interested in collecting a fee for access across your private lands, campgrounds, or for other services on your lands, ADF&G will offer assistance to you.

I am confident that by working together we can find solutions that recognize the rights and needs of all parties involved with fisheries access and impacts in the Chitina area.

Sincerely,



Tony Knowles  
Governor

# STATE OF ALASKA

## DEPARTMENT OF NATURAL RESOURCES OFFICE OF THE COMMISSIONER

TONY KNOWLES, GOVERNOR

- 400 WILLOUGHBY AVENUE  
JUNEAU, ALASKA 99801-1796  
PHONE: (907) 465-2400  
FAX: (907) 465-3886
- 550 WEST 7<sup>TH</sup> AVENUE, SUITE 1400  
ANCHORAGE, ALASKA 99501-3650  
PHONE: (907) 269-8431  
FAX: (907) 269-8918

August 5, 2002

Mr. Ken Johns  
President/CEO, Ahtna Incorporated  
PO Box 649  
Glennallen, Alaska 99588

Mr. Harry Billum  
President, Chitina Corporation  
PO Box 3  
Chitina, Alaska 99566

Dear Sirs:

The State of Alaska would like to pursue potential long-term solutions to land use issues in the Chitina area. This approach follows legislation passed in 2000 and is in concert with testimony before the legislature on Chitina dip net legislation at the end of the last legislative session. The recent completion of the land survey that was called for in the 2000 legislation provides information that we believe is valuable in furthering discussions between the parties.

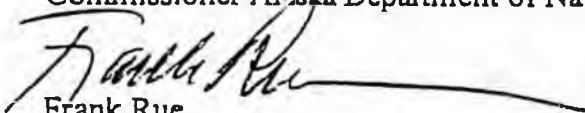
The goal of such discussions would be the long-term resolution of access issues to the mutual satisfaction of the landowners and the State. We believe a solution that provides both public access to the Chitina dip net fishery and adequately addresses local impacts can be found. The current year-to-year compensation process has been difficult for all parties, and given information from the survey and other developments, we do not believe that the current arrangement is sustainable. A bill with a January 2003 repeal of the \$25 Chitina dipnet fee, which is the basis for the current access contracts, passed the State Senate last session and would likely have passed the House as well if it had not been so close to the end of the session.

The State is committed to working with your corporation on long-term Chitina dip net fishery related land issues. Potential solutions may involve land trades, leases, or other mutually acceptable agreements. We stand ready to discuss issues and solutions with you, and look forward to hearing from you about your desire to proceed.

Sincerely,

  
Pat Pourchot

Commissioner Alaska Department of Natural Resources

  
Frank Rue

Commissioner Alaska Department of Fish and Game

RECEIVED  
AUG 07 2002  
SPORT FISH

cc: Commissioner Joe Perkins - DOT&PF  
Bob Loeffler - DNR  
Kelly Hepler - ADF&G  
Ralph Swarthout - DOT

Chitna

**Subject:** Chitna

**Date:** Tue, 25 Mar 2003 08:19:35 -0900

**From:** "Mac Carter" <maccarter@starband.net>

**To:** "John Coghill" <Representative\_John\_Coghill@legis.state.ak.us>

Representative Coghill

Thank You for the effort in correcting the permitting of salmon dip netting in Chitna, I too had many request on my travels from people to do away with charging to fish. I do question the cost for policing and cleaning up?

Keep up the good work!

Mac Carter

[maccarter@starband.net](mailto:maccarter@starband.net)

**Subject: Copper River Dipnetting**

**Date:** Fri, 14 Feb 2003 16:55:46 -0900

**From:** "jimmayo" <jimmayo@wildak.net>

**To:** "Rep Pete Kott" <Representative\_Pete\_Kott@legis.state.ak.us>,  
"Rep John Coghill" <Representative\_John\_Coghill@legis.state.ak.us>,  
"Sen Ben Stevens" <Senator\_Ben\_Stevens@legis.state.ak.us>,  
"Rep Carl Morgan" <Representative\_Carl\_Morgan@legis.state.ak.us>,  
"Rep John Harris" <representative\_John\_Harris@legis.state.ak.us>,  
"Sen Gene Therriault" <Senator\_Gene\_Therriault@legis.state.ak.us>,  
"Sen Georgianna Lincoln" <Senator\_Georgianna\_Lincoln@legis.state.ak.us>

TO OUR STATE LEGISTRATOR'S:

LAST YEAR IT WAS FOUNDED, THAT IN FACT, WE, THE DIPNETTER'S, WERE ACTUALLY DIPNETTING FROM THE STATE RIGHT OF WAY BUT WE PAID THE \$35.00. BUT NOW THIS COMING SEASON, KNOWLY THAT MOST OF THE LAND ALONG O'BRIEN CREEK ROAD FALLS WITHIN THE STATE RIGHT OF WAY, WE, THE DIPNETTER'S, HAVE TO PAID A \$10.00 TRESPASSING FEE!!!! GET ME A BREAK, THAT DON'T EVEN MAKE IT RIGHT. COME ON, LET'S GET IT RIGHT THIS YEAR BEFORE THE SEASON START'S. JIM MAYO, P.O.BOX 201, DELTA JUNCTION, AK 99737

INTERIOR REGION :

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## Where to Get Copper River Personal Use and Subsistence Permits

There are two different permits available for salmon fishing in the Copper River, the "**Chitina Subdistrict Dipnet Permit**", and the "**Glennallen Subdistrict Dipnet or Fishwheel Permit**". The Chitina permit is for dip netting **downstream** of the Chitina-McCarthy Bridge. The Glennallen permit is for dip netting **OR** using a fishwheel **upstream** of the Chitina-McCarthy Bridge to the confluence of the Slana River.

A household may choose **EITHER** a Chitina Subdistrict Permit (below the bridge) **OR** a Glennallen Subdistrict Permit (above the bridge), **not both**.

[Chitina Subdistrict Permit](#)[Glennallen Subdistrict Permit](#)[Chitina Home](#)

## Where to Buy Chitina Subdistrict Dipnetting Permits

Duplicates for lost or misplaced permits are available at ADF&G offices **only**

### Anchorage

ADFG - Anchorage	333 Raspberry Rd	(907) 262-2218
B & J COMMERCIAL	2749 C ST	(907) 274-6113
CARR'S #10	900 E DIMOND BLVD	(907) 341-1000
CARR'S #1805 AURORA VILLAGE	1650 W NORTHERN LIGHTS BLVD	(907) 297-0500
CARRS/SAFEWAY #1813	1501 HUFFMAN RD	(907) 348-1300
FRED MEYER	1000 E NORTHERN LIGHTS BLVD	(907) 264-9600
FRED MEYER	2000 W DIMOND BLVD	(907) 267-6700
FRED MEYER, ANCHORAGE DEBARR	7701 DEBARR RD	(907) 269-1700
KMART CORP. ANCH. #7569	8601 OLD SEWARD HWY	(907) 522-8900
Mountain View Sports Center	3838 Old Seward Hwy	(907) 563-8700
WAL-MART #2070	3101 A ST	(907) 563-5900

### CHITINA

CHITINA GROCERY	PO BOX 76	(907) 823-2211
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### CHUGIAK

PETERS CREEK TRADING POST, INC	23108 BARBARA ST	(907) 688-2121
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### COPPER CENTER

COPPER RIVER CASH STORE	PO BOX E	(907) 822-3266
KENNY LAKE MERCANTILE	HC 60 BOX 230	(907) 822-3313

### DELTA JUNCTION

GRANITE VIEW SPORTS AND GIFTS	PO BOX 51	(907) 895-4990
THE TANANA TRADING POST	PO BOX 1067	(907) 895-4145

### EAGLE RIVER

WAL-MART STORE #2188	18600 EAGLE RIVER RD	(907) 694-9780
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### EIELSON AFB

EIELSON BASE EXCHANGE	BLDG 3310	(907) 372-2139
<b>Fairbanks</b>		
ADFG - Fairbanks	1300 College Rd	(907) 459-7207
BIG RAY'S ALASKA, INC	507 2ND AVE	(907) 452-3458
Chitina 1 Stop	PO Box 752553	(456) -30-01
FRED MEYER	19 COLLEGE RD	(907) 459-4220
FRED MEYER	3755 AIRPORT WAY	(907) 474-1400
J & L SPORTS	910 COLLEGE RD	(907) 451-7210
MLG INC. DBA SENTRY HARDWARE	250 3RD ST	(907) 452-4774

**FORT WAINWRIGHT**

NORTHERN ALASKA EXCHANGE	PO BOX 35029	(907) 356-1215
<b>Glennallen</b>		
ADFG - Glennallen	186.3 Glenn Highway	(907) 822-3309
HUB OF ALASKA INC.	PO BOX 14	(907) 822-3393
LITTLE NELCHINA FARM	HC 1 BOX 2292	(907) 822-3059
TAZLINA RIVER TRADING POST	PO BOX 364	(907) 822-3277

**NORTH POLE**

MOOSE CREEK GENERAL STORE	3349 CLAUDE ST	(907) 488-0910
SENTRY PLAZA HARDWARE	301 N SANTA CLAUS LN	(907) 488-6521

**PALMER**

ALASKA OUTFITTERS	HC 3 BOX 8449	(907) 746-1696
CARRS #14	PIONEER SQUARE SUITE #14	(907) 745-7505
TESORO TO GO	400 GLACIER VIEW DR.	(907) 745-0405
THE STORE	HC 4 BOX 7246	(907) 746-6510

**SALCHA**

SALCHA STORE & SERVICE	7666 RICHARDSON HWY	(907) 485-9097
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**SOLDOTNA**

FRED MEYER, SOLDOTNA	43843 STERLING HWY	(907) 260-2200
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**VALDEZ**

HOOK LINE AND SINKER	PO BOX 1345	(907) 835-4410
SOUTH CENTRAL HARDWARE	PO BOX 428	(907) 835-2300
Valdez Prospector	PO Box 1090	(835) -38-58

**WASILLA**

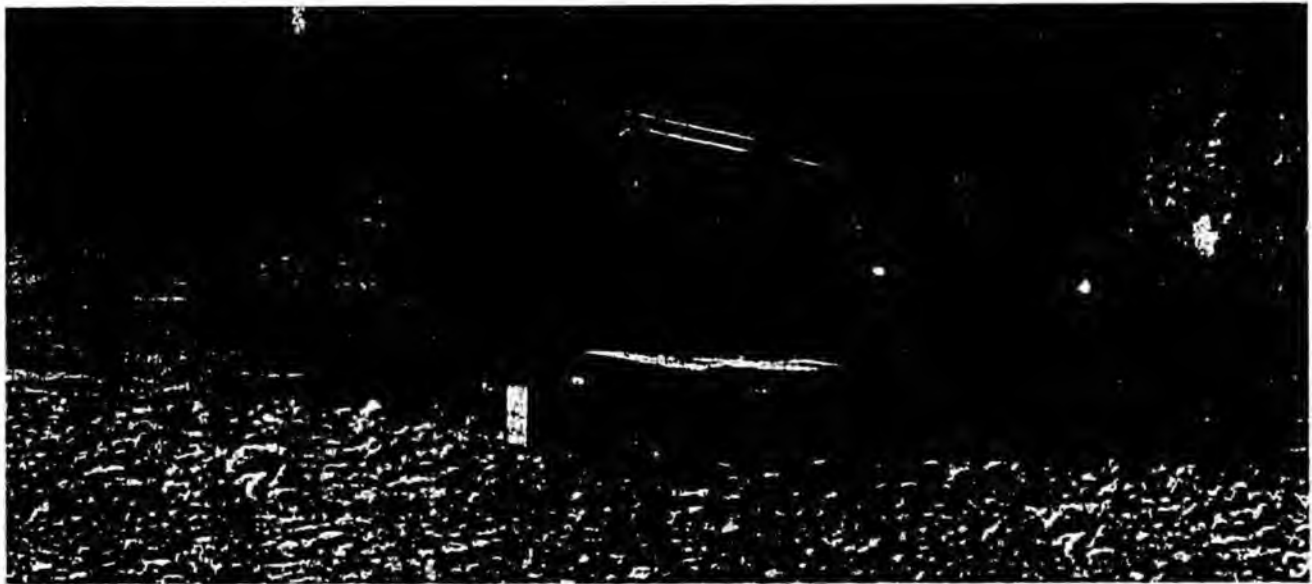
CARR'S #1811	595 E PARKS HWY STE 300	(907) 376-2421
FRED MEYER	1501 E PARKS HWY	(907) 352-5014
VALLEY COUNTRY STORE #1	PO BOX 870729	(907) 376-7888
WAL-MART #2074	1350 S SEWARD MERIDIAN PRKWY	(907) 376-9780

[Chitina Subdistrict Permit](#)[Top of Page](#)[Chitina Home](#)**Glennallen Subdistrict Dipnet or Fishwheel Permits**

Glennallen subdistrict permits for dipnetting and fishwheel use will be available only at ADF&G offices in: **Glennallen, Tok, Delta Fairbanks, Palmer, and Anchorage.**

**All fishwheels must be registered and can only be registered at the Glennallen or Tok ADF&G offices.**

**NOTE:** The Glennallen subdistrict is more difficult dipnetting habitat because the river widens. The same number of fish which are funneled through the canyon in the Chitina subdistrict are more spread out in the Glennallen subdistrict. So, dippers have to venture out further into the river to dip salmon with a lower degree of success on average. Access to the Copper is also more difficult in the Glennallen subdistrict, as most of the land is private property.



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Sport Fish Interior Region Webmaster: [sf3web@fishgame.state.ak.us](mailto:sf3web@fishgame.state.ak.us)  
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## Senate RESOURCES Minute



May 08, 2002

### SB 366-CHITINA DIP NET FISHERY PERMIT FEE

**CHAIRMAN JOHN TORGERSON** called the Senate Resources Committee meeting to order at 3:50 p.m. and announced SB 366 to be up for consideration.

**SENATOR WILKEN** explained that three years ago, the legislature enacted legislation that requires a \$25 fee per family to fish the Chitina dipnet fishery of which \$18 went to the Ahtna and Chitina Corporations and \$7 went to the Alaska Department of Fish and Game (ADF&G) for maintenance. There has also been some discussion, after a survey was completed, that perhaps no trespass fees are required anymore. This bill addresses changing the fee to a certain amount that doesn't pay the trespass fees.

**MR. GORDY WILLIAMS**, legislative liaison, ADF&G, said the Chitina dipnet fishery is the largest fishery in the state and varies from year to year. Last year over 8,000 household permits were issued. A fee has been in place since 1992; it was initially \$10 but was increased to \$25 in 2000 by SB 301. That bill also changed language to reflect that the Board of Fisheries had changed the fishery from personal use to subsistence and it contained intent language directing the Administration to do several things. The Administration was to enter into an agreement by February 1, 2001 that would last for at least three years and ADF&G was to work with other state and federal agencies on long-term solutions. It also required the state to work with private owners to identify and survey the right-of-way.

ADF&G was unable to enter into a three-year contract with the Chitina and Ahtna Corporations, but it has entered into two successive one-year contracts, the last of which expired in December. Those contracts continue to provide guaranteed access for dipnetters across the Chitina-Ahtna lands that lie between the boundary of the public right-of-way and the ordinary high water line of the Copper River. The fee has provided \$10 to Chitina Native Corporation, \$8 to Ahtna for guaranteed access, \$5 to ADF&G for maintenance contracts for solid waste and garbage, and a \$2 administrative fee for the department. He explained:

A survey was undertaken using funds appropriated by the legislature last year and that survey is not totally final yet. There are still drafts going back and forth between DOT and the contractor. But the preliminary estimates are that about 60% of the dip net use area is accessible from the right-of-way. Money for that appropriation is also, as is spelled out in language last year, to publish a brochure and for DOT to go out and put some on-ground marking in to try to indicate where the public right-of-way does access the river and where the private lands are.

**MR. WILLIAMS** said the survey has provided important new information on the land status and confirms a real patchwork of public and private land ownership along the river. People use several very key areas for fishing, camping, parking, and

ancillary activities, such as the mouths of O'Brien Creek and Haley Creek, that are private lands or they ask ADF&G questions about the ordinary watermark. He added:

So, while we recognize that there are policy issues which [indisc.] in light of this new survey, we believe the best option for 2002 is to retain the fee at \$25 and to enter into one-year agreements again with the Chitina and Ahtna Corporations and we've had discussions with them along those lines. We believe that will result in a more orderly fishery and provide both the atmosphere for further discussions on long-term solutions as directed by SB 301 - possible land trades. Those discussions can use the new information from the survey and be able to sit down, hopefully, with private landowners and talk about the various options.

Also, the fishery has been impacted by a landslide, which is south of O'Brien Creek, which currently blocks the road. DOT is looking at options for removing that landslide but it's a difficult area. The original landslide was in the last year and then there's been a couple of smaller ones since. It's a very unstable area. They need to get in and do some assessment work. Part of that would be on Ahtna lands and they look forward to working cooperatively with the landowners on those kinds of issues.

In summary, we recognize that there's important new information on land status in the area that came with the survey. It is, however, very new information and with the final survey not in yet. The 2002 season is likely to start in mid-June and people will be looking to buy the permits here in the next few weeks. Certainly, by the first of June, people will start to look to buy their permits. We think keeping the fee at \$25, having access contracts in place will provide an orderly fishery and will allow us to go forward in a hopefully productive manner this year working towards long-term solutions that would benefit both the state and the local landowners.

CHAIRMAN TORGERSON asked if the state is paying the Ahtna Corporation for access to state land.

MR. WILLIAMS replied, "It was always recognized that there was some private land. It just wasn't known how much of it is and now the estimate is about 60%, but some of that 40% is pretty important key land."

CHAIRMAN TORGERSON asked why ADF&G couldn't configure this to pay the 40% and not 60%.

MR. WILLIAMS replied that the discussion has centered around the policy issue of going to the area and access to the fishery, but because of the patchwork ownership pattern, it would be difficult for people to stay off of the private land. With 30,000 to 40,000 people using the fishery, private landowners think people will trespass either knowingly or unknowingly. It's more of a policy call about should there be a fee, not about how much. ADF&G is saying that given the status this year - the need to work on long-term solutions and DOTPF needing time to work on the landslide problem, ADF&G believes the fee should be maintained this year. That would allow everyone to have guaranteed access

MR. HEPLER replied that it is about a mile below O'Brien Creek.

SENATOR WILKEN asked if Rand Creek and Haley Creek are private or public.

MR. HEPLER replied that a lot of it is private and that it's harder to determine the high water mark on a river delta than in other places.

SENATOR WILKEN asked if boat access to the river would be available if the O'Brien Creek and Haley Creek boat launches were closed.

MR. HEPLER replied if they shut down the Haley Creek boat launch, people would probably have to go to where the bridge crosses. It would be a longer run.

SENATOR WILKEN asked if options are available for both parties to look at during the negotiations to start to come to some conclusion or whether they are so far apart that there hasn't been a real discussion.

MR. HEPLER replied that discussions have been two-fold. One discussion has been about what an agreement would look like if they come to an agreement this year. The corporations want to have the same agreements they had in previous years. At the same time they have been talking about long-term solutions. The energy is there to come up with something.

SENATOR WILKEN asked when the preliminary survey was completed and when the final would be available.

MR. WILLIAMS replied that Mr. Swarthout and Mr. Bennett, with ADF&G in Fairbanks, could answer that.

SENATOR WILKEN said his intent in this fishery is to have an accessible, productive, safe fishery and he could support a continuation of the \$25 fee knowing that this is the end and that next year there will be some agreement between the state and the corporations. He would also consider an effective date. He didn't want to be talking about \$18 or \$25 and having an inaccessible, unproductive, unsafe fishery for Fairbanks people.

CHAIRMAN TORGERSON said he didn't see why they couldn't continue to pay \$25 for access across private land and leave the state lands at \$10, "and you do that basically by grouping the two and dividing it by the total."

MR. WILLIAMS said, "It's one fee that's \$25. Out of that, \$5 goes to maintenance, \$2 to us, \$18 to the corporations."

CHAIRMAN TORGERSON asked, "Are we maintaining their land, too?"

MR. WILLIAMS replied that they pick up trash.

CHAIRMAN TORGERSON said he didn't mind paying for access to that land, but he didn't see why the state was paying for the use of its own land. He stated, "According to this, you're paying \$18 for use on 60% of the state's land and we're paying an entity that has no control over that. It's our land - if your survey is right."

MR. WILLIAMS replied they could assume \$15. The \$5 service fee is for trash pick up and porta-potties, leaving \$10.

CHAIRMAN TORGERSON said, according to their figures, 3,800 users don't use the private land, but the state is paying \$18 per head for them as if they were.

SENATOR ELTON said his understanding is that the \$25 fee is per family.

CHAIRMAN TORGERSON said that 40% is Native land. He thought it was fair to reimburse them for what the public is using.

MR. WILLIAMS said that the 40% and 60% figures don't apply to the number of permits; they apply to the land status.

CHAIRMAN TORGERSON asked if the \$100,000 survey only shows who owns the land.

MR. WILLIAMS replied yes.

CHAIRMAN TORGERSON asked if they know how many people go over the private land.

SENATOR WILKEN asked Mr. Ralph Swarthout, Northern Regional Director, DOTPF, to go over the survey process. Mr. Swarthout indicated that Mr. John Bennett would go over it.

MR. JOHN BENNETT, Right-of-way Chief, DOTPF, said he was the contract manager and took the task from ADF&G. He did a professional services agreement with a survey company out of Anchorage called Crazy Mountain Joint Venture. The company was tasked with mapping the location of the Copper River Highway right-of-way because DOTPF had no information on that. He explained:

They prepared an as-built survey of the centerline geometry from the Copper River Bridge on McCarthy Road through Chitina down to Haley Creek. The next task was to determine as best they could the ordinary high water line on the Copper River along that stretch - basically so we could determine the relationship between the edge of the right-of-way, which is 150 feet on each side of the center line of the Copper River Highway and the ordinary high water line, therefore, being able to determine in what areas you could actually go from the road right-of-way to the state owned lands below the high water lines without getting into a trespass situation.

The survey was commenced sometime in the fall of last year. I don't have the dates with me. The mapping was done over the course of the winter. We have one task left to perform, but we had deferred it after the annual Chitina Dipnetters meeting when we found out that it's our understanding that we're going ahead with the status quo on the permit fee...

With the milepost markers and the map we intend to publish in a brochure and give to each dipnet permittee, they will be able to walk or drive down the road, look at the milepost markers and determine if they're at a location where they can go directly to the water without being in a trespass situation.

SENATOR WILKEN asked him when the survey was completed.

MR. BENNETT said the fieldwork was completed late last fall. He

explained:

The milepost markers will either be completed this fall or, if this bill passes, we're going to have to scramble out there and do it this week.

SENATOR WILKEN asked if he had a preliminary report on what the survey shows as far as what is public and what is private.

MR. BENNETT replied that he had a map that was just delivered by the survey contractor yesterday and he didn't know if Mr. Williams had received copies of what he plotted out.

MS. SUE ASPELUND, Executive Director, Cordova District Fishermen United (CDFU), opposed the reduction of the fee this year because the timing is inappropriate given the lateness, relative to how soon the fishery should commence for the prosecution of an orderly fishery. In addition, because resource management can be costly, CDFU encourages future discussion of using a fee similar to this one to reimplement much needed in-season reporting requirements in the future for the Chitina dip net fishery.

MR. BRUCE CAIN, Executive Director, Native village of Eyak, said the original Copper River railroad right-of-way was 100 ft., not 300 ft. as is proposed, and it was only valid as long as it was used as a railroad.

MR. JOSEPH HEART, resource manager, Ahtna Incorporated, said he is also the Chairman of the Land Committee for Chitina Native Corporation as well as the Vice President of the Corporation. He is one of the main negotiators on behalf of the Native corporations with ADF&G. He stated, "Ahtna and Chitina, both, do not support the passing of SB 366."

He said that both corporations have been cooperative. However, they feel strongly that when the state invites people to use the resource and invites them to come near or across their property, the land rights need to be protected or an agreement needs to be worked out to compensate for the impacts, like trash collection, tree cutting, fire rings, etc. He said hardly anyone lives in Chitina and the only time large negative impacts occur is when the fishery is operating. He has been working with Commissioner Rue and others and believes the fee should be left in place this year so they can address a lot of the issues, like the right-of-way the state has on 60 % of the land for access to the river and the intent of that.

SENATOR ELTON said the previous testifier suggested that the right-of-way ought to be 50 ft. from the centerline and the department has testified that it is using 150 ft. in each direction from the centerline. He asked Mr. Heart what their stance is on that.

MR. HEART replied that the original right-of-way was in place for the railroad and it was 100 ft. In the 1980s, when Chitina Corporation started charging people to cross its land, DOTPF realigned the highway access and that's how this agreement came into being. At that time, everyone knew the right-of-way was 100 ft. The state courts decided the right-of-way was 150 ft. Their paperwork still shows it as a 100 ft. right-of-way. Native allotments on that same road show a 100 ft. right-of-way on their titles. They feel it should still be a 100 ft. right-of-way.

SENATOR ELTON asked his opinion of an amendment that would provide an effective date some time after this summer instead of

immediately.

MR. HEART said for this year a later effective date would be okay if the state is willing to work out some of the issues.

MR. TOM TALBY, ADF&G, Glennallen, said he was available to answer questions.

MR. MIKE TINKER, Fish and Game Advisory Committee, said:

There are about 5,000 netters in the Dip Netters Association that live in the Fairbanks-Delta Junction-Nenana area. There are 5,001 in the Mat-Su area. So, to talk about this as a Fairbanks issue is not correct. About a year and a half ago, the Board of Fisheries found that the Chitina dipnet fishery was a subsistence fishery. This fee makes it the only subsistence fishery in the State of Alaska that we charge for. Fifty miles up the road from Chitina, Ahtna maintains a fee schedule for access to the Gulkana and other waters and both collect the fee themselves for trespass over their property and maintains a protection force or an advisory force for people who want to find out where to get a permit or that might be trespassing. The fact that the state should continue to do this for them at Chitina is just ludicrous. Discussions that they're talking about now and they're worried about having for the next year, and the next year, have been had for the last five or six years with the fee going up. It's time to end it. Our constituents on the Advisory Committee and our constituents here in Fairbanks really don't feel there should be any fee at all unless you are going to start to require subsistence fishermen statewide to buy a simple general fishing permit as they would a hunting permit to go hunting. Going to \$10 is certainly a jump in the right direction and allows the services that could be there. You might ask Mr. Hepler how we got to this point. My letters to some of you and to him started in late February and that was after a month of discussions here in Fairbanks. Before that he was all for doing away with the fee schedule until the commissioner got a letter from Ahtna in mid-March, which he and the other fishery guys didn't get until April and now all of a sudden it's a crisis.

MR. TINKER said the issue is whether or not we're going to charge a fee for the subsistence fisheries.

**TAPE 02-28, SIDE B**

MR. STAN BLOOM, President, Chitina Dip Netters Association, said last year they supported raising the fee to \$25 but the survey now shows that 60% of the land is on one side of the river. This fee does not cover anybody who goes on the other side of the river or in a boat. He pointed out:

So, you should do away with the fee that pays the Native corporations for trespass. If they want to put up posted signs and they want to charge a fee, let them do it. It's hard enough paying for our services. We're the only group that pays for our own services in the state. When you go to the Kenai you don't pay \$10 so you can use a toilet or have someone pick up the trash. The state does that. The state should do that in this case..

He said that all subsistence users are required to have a state hunting license.

No subsistence user is required to have a state fishing license. It's ludicrous to let all of us people fish free when you must manage the fishery. I say drop the word 'sport' out of paragraph 1, charge everybody \$15 for a fishing license, use that money to provide the services and put it in DNR. Let me tell you, Fish and Game doesn't have to make a contract for toilets and for trash pick up. I took pictures of the toilets last year that would gag a maggot. The trash was piled up so high that when I pulled up with my truck that says "Chitina Dipnetters" on it, three guys went out and started piling trash bags into a pick up truck to haul them away before I took a picture of it. Fish and Game is not the person to handle services. Put it in DNR or DOT or somebody that's got some kind of expertise in that kind of stuff and let Fish and Game go out there and count little fishies and do what biologists do. I say do away with the permit fee period, make everybody have a fishing license and the state provide services just like they do on the Kenai or any other place they hold a fishery...

MS. LISA HARBO said she fished the Chitina Dipnet fishery with her family since she was a kid and opposes the permit fee that they pay for several reasons. One is that no other subsistence fishery in the state requires a fee. In the federal fishery for the Chitina sub district in the same area, people are paying no fee and have higher limits. She also didn't think they should have to pay a trespass fee when they can cross a public easement path and didn't think their legal rights to dipnet should be tied to the trespass fee payments.

MR. HERB SIMON said he is testifying as a private individual from Nelchina whose family has been there since after World War II. He agreed with the gentleman from Fairbanks who suggested requiring a state license instead of fooling with the dipnet fee.

He would like to believe that the negotiations have been in good faith, but apparently that isn't the case. He thought they should get a kick-back because they have been paying this fee for years and there is public access and the same fees are not being charged for access in other places.

MR. DICK BISHOP, Alaska Outdoor Council, supported SB 366 and suggested attaching a sunset provision to the \$10 fee so it could eventually be removed. People have noted that it is the only fee on a subsistence fishery in the state and they feel that is not appropriate. He added:

We agree with the rationale that the fee should be reduced at this time. The whole point of the several-year dialogue here has been to identify and provide the public access, relieve the public of the problem of trespassing and relieve the state of the obligations of negotiating contracts to cover potential trespass and make it possible for people to access that fishery on the public lands that are available to access it...We would like to see if there needs to be a fee to cover the cost of services there such as trash and waste disposal. Then it should be under a different guise and not as a subsistence fishing permit fee. It should

perhaps be a service fee and normally those things are handled through a general fund appropriation to another department...

CHAIRMAN TORGERSON said the committee was working on amendments as they talked, but a quorum of the committee wasn't present, so he would hold the bill.

---

Bill Root:



TO REPORT PROBLEMS WITH BASIS INQUIRY

LIVE KTOO STREAMS 

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# Senate RESOURCES Minute



May 08, 2002

## SB 366-CHITINA DIP NET FISHERY PERMIT FEE

CHAIRMAN TORGERSON announced that the committee would take up SB 366 again, as a quorum was now present.

SENATOR WILKEN moved to adopt Amendment 1 to replace \$25 with \$0 in Section 1, to change the effective date to 1/1/2003 in Section 2, and to add a new Section 3 that says, conceptually, the Department of Fish and Game will report to the legislature the final results of the Chitina fishery access negotiations by February 1, 2003.

There were no objections and Amendment 1 was adopted.

CHAIRMAN TORGERSON asked if there was any objection to moving the bill.

SENATOR WILKEN reiterated that it is important to have a safe, productive and accessible fishery at Chitina this year and that, "By this time next year, we'll have this problem fixed."

There were no objections and CSSB 366(RES) moved from committee.

Bill Root:



TO REPORT PROBLEMS WITH BASIS INQUIRY

LIVE KTOO STREAMS



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SENATE FINANCE COMMITTEE

SIGN-IN

HB 210-CHITINA DIP NET FISHERY

NAME: Jesse VanderZanden Subject/Bill No: \_\_\_\_\_

Co./Dept./Title: Alaska Outdoor Council Phone: 455-4262

Address: 20 Box 73902, FBAS Zip: 99709

Do you wish to testify?  Yes  No  Respond To Questions

NAME: \_\_\_\_\_ Subject/Bill No: \_\_\_\_\_

Co./Dept./Title: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Zip: \_\_\_\_\_

Do you wish to testify?  Yes  No  Respond To Questions

NAME: \_\_\_\_\_ Subject/Bill No: \_\_\_\_\_

Co./Dept./Title: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Zip: \_\_\_\_\_

Do you wish to testify?  Yes  No  Respond To Questions

NAME: \_\_\_\_\_ Subject/Bill No: \_\_\_\_\_

Co./Dept./Title: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Zip: \_\_\_\_\_

Do you wish to testify?  Yes  No  Respond To Questions

**SITE: FAIRBANKS LIO**

**COMMITTEE: (S) FIJ**

**DATE: 05/15/03**

**SUBJECT OF MEETING:**

**HB210**

**UPDATE #:3**

# PLEASE SIGN IN

DO YOU WANT

**P R I N T YOUR NAME**

**ADDRESS (MAILING & ZIP)**

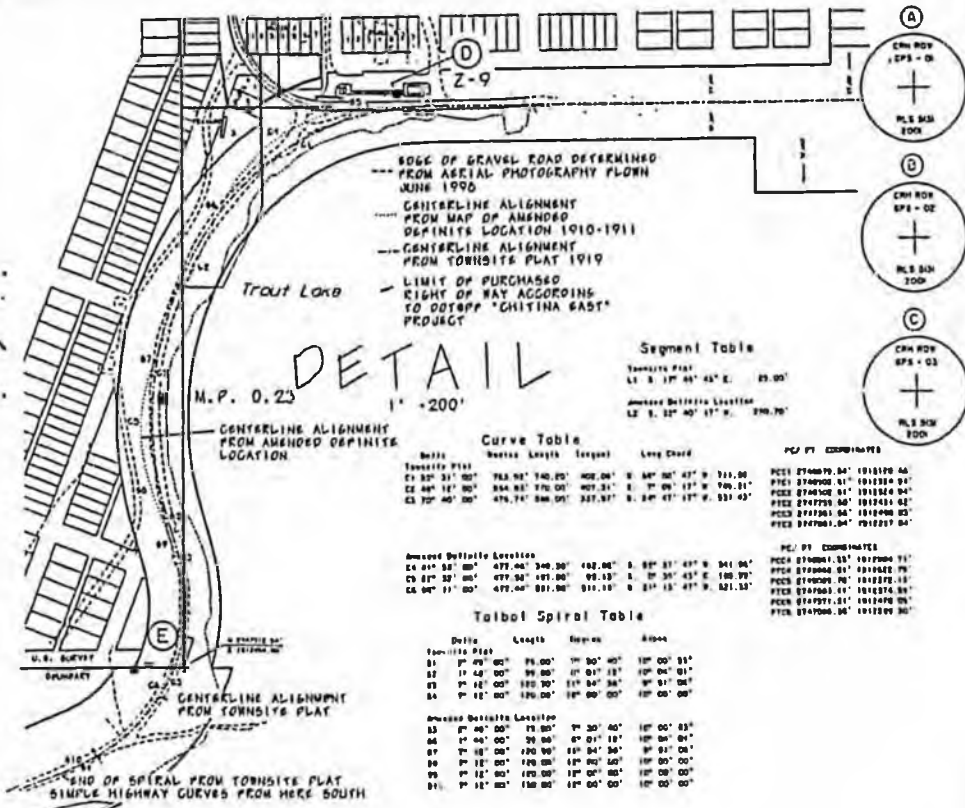
**REPRESENTING**

**TO TESTIFY?  
Y OR N**

<input checked="" type="checkbox"/> <b>Byron Haley</b>			<b>Y HB 210</b>
Email address:			
<input checked="" type="checkbox"/> <b>Paul Holland</b>			<b>Y HB 210</b>
Email address:			
<input checked="" type="checkbox"/> <b>Mark Heim: Hem</b>			<b>Y HB 210</b>
Email address:			
Email address:			
Email address:			
Email address:			
Email address:			



THE FOLLOWING DOCUMENT HAS NOT  
BEEN FILMED BUT IS AVAILABLE IN THE  
ORIGINAL FILE.



EDGE OF GRAVEL ROAD DETERMINED FROM AERIAL PHOTOGRAPHY FROM JUNE 1990  
 CENTERLINE ALIGNMENT FROM MAP OF AMENDED DEFINITE LOCATION 1910-1911  
 CENTERLINE ALIGNMENT FROM TOWNSHIP PLAT 1919  
 LIMIT OF PURCHASED RIGHT OF WAY ACCORDING TO 0050FF "CHITINA EAST" PROJECT

# DETAIL

Segment Table

Stationing	Length	Curve
11 + 31' 45" 45" E. 25.00'		
Amended Definite Location	12 E. 32' 40" 41" W. 290.70'	

Curve Table

Stationing	Length	Radius	Delta	Long Chord	PC	PT	COMMENTS
11 + 31' 45" 45" E. 25.00'	783.90'	740.25'	102.00'	0. 00' 00" 47" N. 713.30'	PC1	PT1	PC1 274000.00' 101810.00'
12 E. 32' 40" 41" W. 290.70'	844.83'	770.00'	101.31'	0. 00' 00" 17" N. 790.11'	PC2	PT2	PC2 274000.00' 101810.00'
13 E. 32' 40" 41" W. 290.70'	476.74'	500.00'	101.31'	0. 00' 00" 17" N. 531.43'	PC3	PT3	PC3 274000.00' 101810.00'

Talbot Spiral Table

Stationing	Length	Radius	Delta	Long Chord
11 + 31' 45" 45" E. 25.00'	783.90'	740.25'	102.00'	0. 00' 00" 47" N. 713.30'
12 E. 32' 40" 41" W. 290.70'	844.83'	770.00'	101.31'	0. 00' 00" 17" N. 790.11'
13 E. 32' 40" 41" W. 290.70'	476.74'	500.00'	101.31'	0. 00' 00" 17" N. 531.43'

Cement 3/4 in. diam. 8/16 in. label in a 1 in. diam. drill hole in the west end of the bridge over the Copper River on the southerly side of the road, 0.3 ft. southeasterly of an expansion joint and 17 ft. northwesterly at edge of bridge 14 feet from the centerline of the road

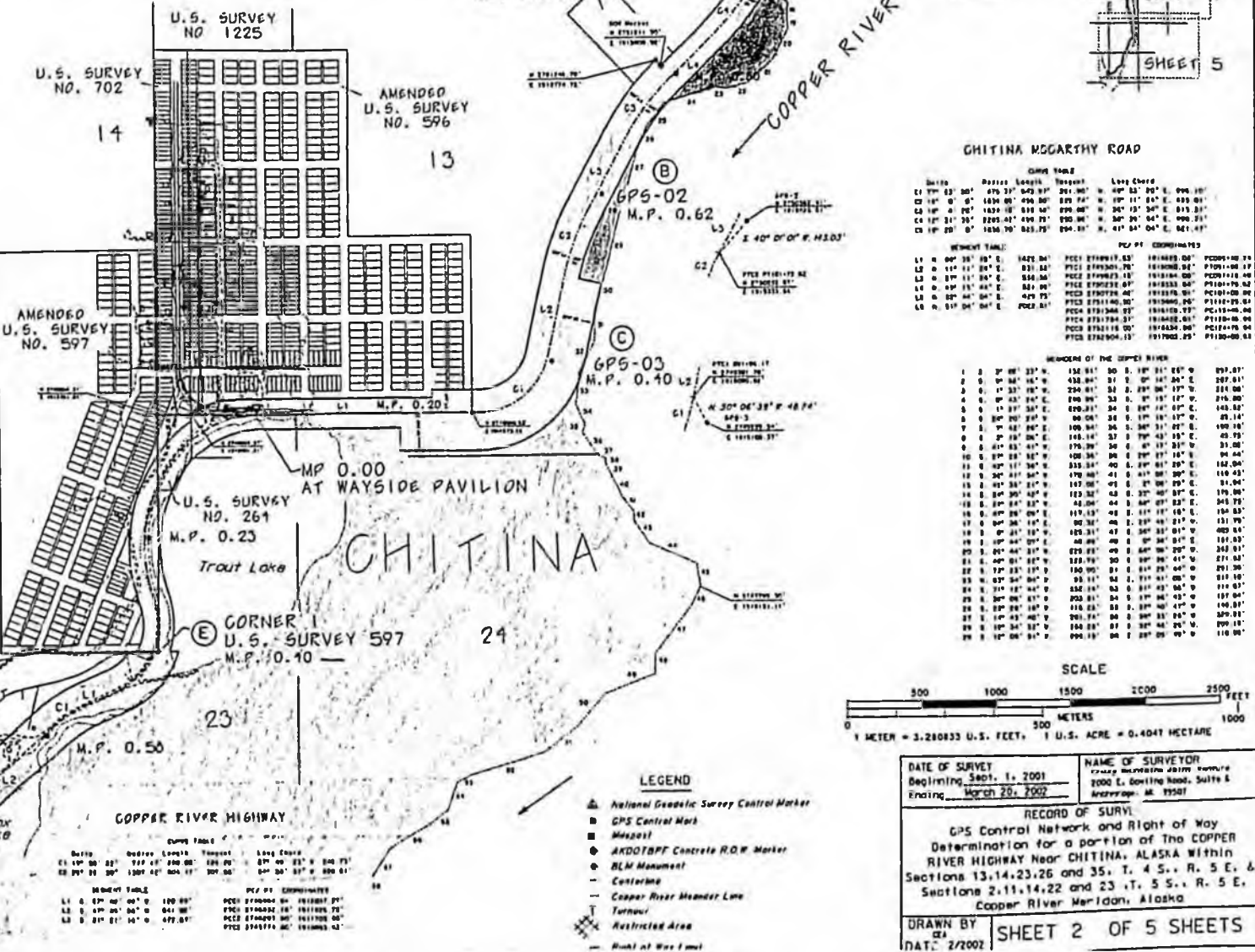
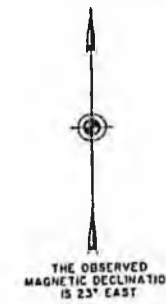
Set an monument post, 2 1/2 in. diam., 30 in. long, 34 in. in the ground, and in a corner of stone, with 3 in. diameter top marked as shown.  
 Point is 10 feet east of the centerline of the road in lot 14.  
 An orange concrete post in 1 foot East

Set an monument post, 2 1/2 in. diam., 30 in. long, 34 in. in the ground, and in a corner of stone, with 3 in. diameter top marked as shown.  
 Point is 25 feet east of the centerline of the road in lot 14.  
 An orange concrete post in 1 foot East

Revised a stream LINCOS with 1/2 in. dia. to the top of a cement post, 1 foot square, measuring 1 foot above the ground, 25 feet east of the centerline with brass cap marked as shown from sketch.  
 A steel survey, 20 in. diam. bears a 17 1/2" E., 25 feet west marked 187.  
 A survey, 20 in. diam. bears a 40" E., 418 feet west marked 181.  
 An orange concrete post in 1 foot East

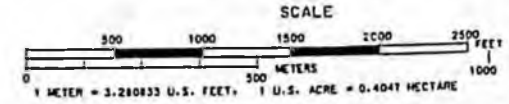
Revised a stream LINCOS with 1/2 in. dia. to the top of a cement post, 1 foot square, measuring 1 foot above the ground, 25 feet east of the centerline with brass cap marked as shown from sketch.  
 A steel survey, 20 in. diam. bears a 17 1/2" E., 25 feet west marked 187.  
 A survey, 20 in. diam. bears a 40" E., 418 feet west marked 181.  
 An orange concrete post in 1 foot East

Set an monument post, 2 1/2 in. diam., 30 in. long, 34 in. in the ground, and in a corner of stone, with 3 in. diameter top marked as shown.  
 Point is 25 feet east of the centerline of the road in lot 14.  
 An orange concrete post in 1 foot East



CHITINA MCGARTHY ROAD

Stationing	Length	Radius	Delta	Long Chord
11 + 31' 45" 45" E. 25.00'	783.90'	740.25'	102.00'	0. 00' 00" 47" N. 713.30'
12 E. 32' 40" 41" W. 290.70'	844.83'	770.00'	101.31'	0. 00' 00" 17" N. 790.11'
13 E. 32' 40" 41" W. 290.70'	476.74'	500.00'	101.31'	0. 00' 00" 17" N. 531.43'



- LEGEND
- National Geodetic Survey Control Marker
  - GPS Control Mark
  - Wellpost
  - AKDOT/BPF Concrete R.O.W. Marker
  - BLM Monument
  - Centerline
  - Copper River Meander Line
  - Turnout
  - Restricted Area
  - Right of Way Line

DATE OF SURVEY: Beginning 5/01, 2001; Ending March 20, 2002

NAME OF SURVEYOR: [Name]

RECORD OF SURVY: GPS Control Network and Right of Way Determination for a portion of the COPPER RIVER HIGHWAY NEAR CHITINA, ALASKA Within Sections 13, 14, 23, 26 and 35, T. 4 S., R. 5 E., S. Swatlines 2, 11, 14, 22 and 23, T. 4 S., R. 5 E., Copper River Meridian, Alaska

DRAWN BY: [Name]

DATE: 2/2002

SHEET 2 OF 5 SHEETS

MEMBER POINT COORDINATES

Stationing	Length	Radius	Delta	Long Chord
11 + 31' 45" 45" E. 25.00'	783.90'	740.25'	102.00'	0. 00' 00" 47" N. 713.30'
12 E. 32' 40" 41" W. 290.70'	844.83'	770.00'	101.31'	0. 00' 00" 17" N. 790.11'
13 E. 32' 40" 41" W. 290.70'	476.74'	500.00'	101.31'	0. 00' 00" 17" N. 531.43'

LOCATION	GROSS SQ. FT.	NET SQ. FT.	COST/YR. 20 YR. AMORIZATION & JANITORIAL, HEAT ELEC. ETC.	CAPITOL COST	CUR L CO	R.	COST/SQ. FT. TO OWN/YR.	ESTIMATED COST/SQ. FT. FOR COMPARABLE RENTAL SPACE/YR.
<u>Sitka</u>						14,971		
Court & Office Bldg.	27,164	18,200	213,077	1,576,090			7.84	8.40
[.056]	(1,526)	(1,023)	(11,484)	(84,730)				
Public Safety Main Bldg.	22,750	18,200	177,325	1,311,188			7.79	8.40
Phys. Ed. Bldg.	18,016	16,215	105,593	665,264			5.86	7.20
<b>TOTAL SITKA</b>	<b>67,930</b>	<b>52,615</b>	<b>495,995</b>	<b>3,552,542</b>		<b>44,971</b>		
<b>GRAND TOTAL</b>	<b>798,661</b>	<b>660,377</b>	<b>7,066,855</b>	<b>54,667,231</b>		<b>2,532,024</b>		
			<b>-(996,752)</b>	<b>-(7,919,686)</b>				
			<b>6,070,103</b>	<b>46,747,545</b>				

\*\*Either State or City Land

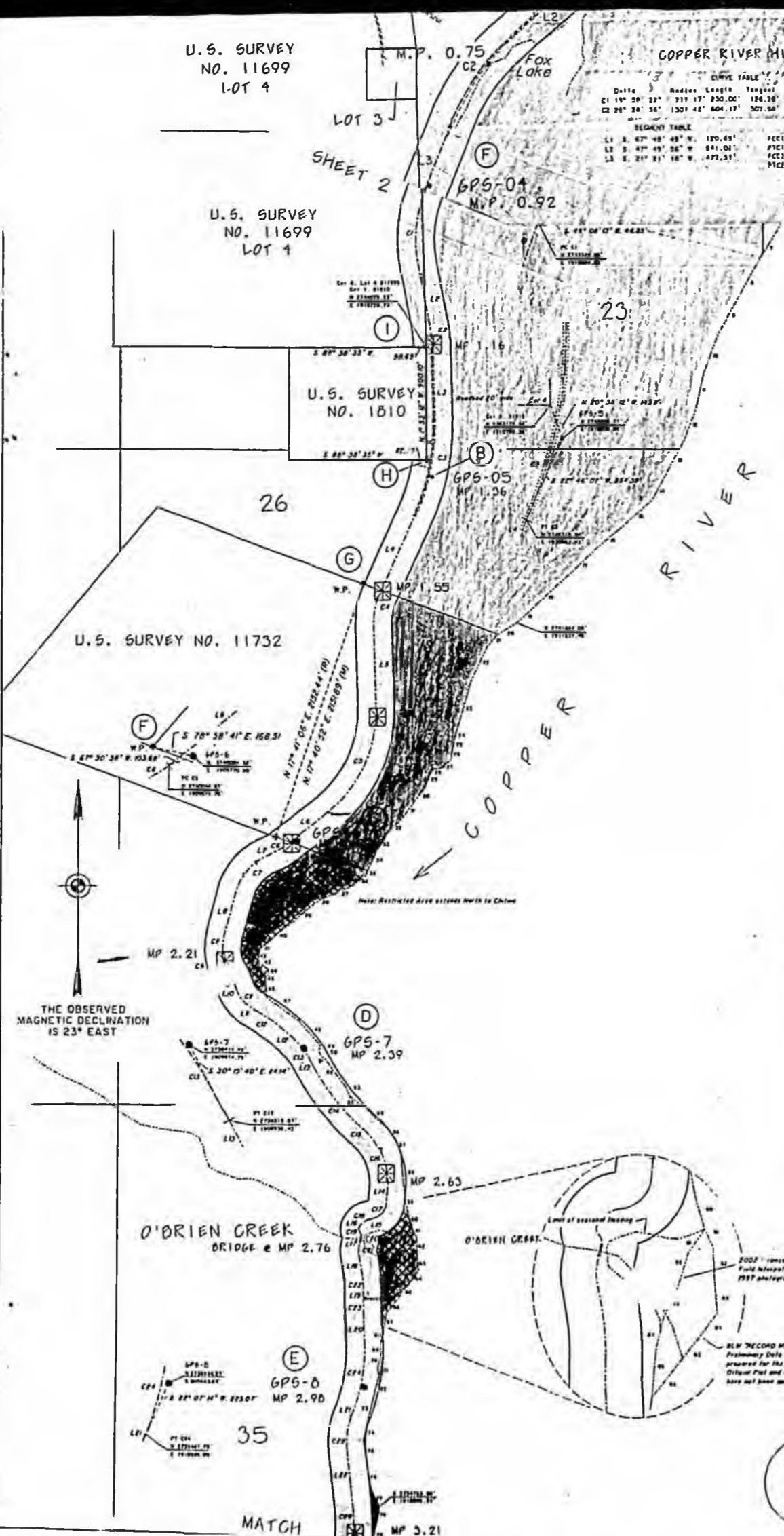
\* Includes Kenai, Homer & Soldotna

[ ] Denote % use of Buildings by Department of Labor

NOTE: Figures shown in ( ) denote Department of Labor space which will be financed by Federal Manpower Administration.



16/12	271796.01	151632.06	43/64	274878.87	181370.03
16/16	271796.82	151632.71	44/65	274930.84	181610.86
16/17	271879.64	151639.02	45/66	274799.30	181613.11
17/16	271845.00	151641.88	46/67	274850.87	181612.71
17/18	271819.69	151646.44	47/68	274735.55	181633.14
17/20	271471.06	151665.31	48/69	274724.33	181634.63
20/21	271870.71	151668.15	49/70	274708.84	181647.94
21/22	271813.83	151669.65	50/71	274890.82	181632.70
22/23	271871.07	151671.91	51/72	274803.44	181610.48
23/24	271881.50	151689.81	52/73	274654.33	181616.39
24/25	271894.09	151696.01	53/74	274648.88	181615.28
25/26	271901.66	151716.05	54/75	274630.47	181615.00
26/27	271907.05	151649.73	55/76	274810.21	181633.81
27/28	271904.81	151637.97	56/77	274604.39	181609.72
28/29	271917.74	151638.41	57/78	274567.10	181619.48
29/30	271926.11	151643.21			



### CURVE TABLE

Curve	Delta	Radius	Length	Tangent	Long Chord
C1	33° 58' 57"	1038.80'	616.12'	317.42' S. 4° 21' 50" W.	607.13'
C2	9° 32' 46"	1276.95'	212.76'	7° 51' 16" W.	212.51'
C3	26° 6' 43"	1779.79'	811.12'	412.73' S. 9° 58' 30" W.	804.12'
C4	26° 19' 34"	575.17'	264.28'	134.51' S. 9° 52' 57" E.	261.96'
C5	53° 46' 14"	1045.01'	980.86'	529.05' S. 23° 34' 24" W.	945.31'
C6	13° 46' 2"	407.65'	97.95'	49.21' S. 57° 19' 32" W.	97.72'
C7	50° 22' 47"	470.83'	414.00'	221.46' S. 39° 01' 10" W.	400.79'
C8	16° 5' 0"	628.97'	176.56'	88.86' S. 5° 47' 16" W.	175.98'
C9	30° 19' 22"	327.93'	173.55'	88.86' S. 17° 24' 56" E.	171.54'
C10	11° 18' 42"	446.66'	88.18'	44.23' S. 26° 55' 16" E.	88.04'
C11	40° 47' 34"	293.30'	208.80'	109.09' S. 41° 39' 42" E.	204.50'
C12	12° 59' 5"	1427.04'	323.41'	162.40' S. 55° 33' 57" E.	322.72'
C13	18° 20' 16"	612.81'	260.22'	131.23' S. 39° 54' 06" E.	259.11'
C14	19° 23' 37"	1920.01'	649.89'	328.08' S. 40° 25' 36" E.	646.79'
C15	4° 33' 33"	715.39'	56.93'	28.48' S. 47° 50' 38" E.	56.91'
C16	49° 14' 25"	561.03'	482.15'	257.10' S. 20° 56' 36" E.	467.45'
C17	76° 32' 59"	139.29'	186.10'	109.91' S. 41° 57' 05" W.	172.57'
C18	43° 12' 57"	111.82'	84.34'	44.29' S. 58° 37' 06" W.	82.36'
C19	81° 20' 42"	33.72'	47.95'	29.04' S. 3° 43' 40" E.	44.01'
C20	55° 24' 15"	46.86'	24.61'	24.61' S. 16° 45' 55" E.	43.57'
C21	22° 34' 2"	180.88'	71.24'	36.09' S. 60° 20' 51" E.	70.78'
C22	11° 30' 6"	977.25'	196.19'	95.43' S. 5° 52' 40" E.	195.86'
C23	3° 46' 59"	1986.71'	131.19'	68.62' S. 2° 01' 14" E.	131.16'
C24	23° 28' 40"	1420.97'	582.26'	295.20' S. 7° 49' 36" W.	578.20'
C25	27° 11' 57"	583.15'	276.83'	141.00' S. 5° 57' 37" W.	274.24'
C26	39° 57' 12"	1491.90'	104.33'	542.32' S. 12° 20' 25" W.	1019.38'

### SEGMENT TABLE

Segment	Delta	Radius	Length	Tangent	Long Chord
L1	21° 21' 18"	W. 477.57'			
L2	12° 37' 39"	E. 461.06'			
L3	3° 04' 51"	E. 553.98'			
L4	23° 01' 50"	W. 677.80'			
L5	3° 17' 44"	E. 647.78'			
L6	50° 26' 32"	W. 438.51'			
L7	64° 12' 31"	W. 58.01'			
L8	13° 49' 45"	W. 309.92'			
L9	32° 36' 30"	E. 16.12'			
L10	21° 15' 57"	E. 43.15'			
L11	62° 03' 34"	E. 41.17'			
L12	49° 04' 18"	E. 21.38'			
L13	30° 43' 47"	E. 58.94'			
L14	3° 40' 36"	W. 115.04'			
L15	80° 13' 32"	W. 14.08'			
L16	3° 00' 38"	W. 23.44'			
L17	10° 56' 10"	W. 74.41'			
L18	11° 37' 53"	E. 119.82'			
L19	0° 07' 39"	E. 9.47'			
L20	3° 54' 43"	E. 248.85'			
L21	19° 33' 57"	W. 26.57'			
L22	7° 38' 03"	E. 467.72'			

### PC/PT COORDINATES

Station	PC/PT	Coordinates
PC C1	2745329.88	1910689.53
PT C1	2744724.51	1910643.33
PC C2	2744274.60	1910744.13
PT C2	2744004.08	1910773.17
PC C3	2743510.90	1910802.94
PT C3	2742718.94	1910663.65
PC C4	2742095.16	1910398.48
PT C4	2741837.07	1910353.59
PC C5	2741190.36	1910390.83
PT C5	2740323.94	1910012.78
PC C6	2740044.67	1909874.70
PT C6	2739591.92	1909592.45
PC C7	2739566.68	1909540.21
PT C7	2739655.29	1909287.88
PC C8	2739354.36	1909213.00
PT C8	2739179.28	1909196.05
PC C9	2739179.28	1909196.05
PT C9	2739015.61	1909247.39
PC C10	2739002.02	1909258.08
PT C10	2736923.52	1909295.94
PC C11	2738883.31	1909311.59
PT C11	2738730.53	1909447.52
PC C12	2738711.24	1909483.89
PT C12	2738528.76	1909750.06
PC C13	2738514.75	1909766.22
PT C13	2738315.97	1909932.43
PC C14	2738265.31	1909962.55
PT C14	2737772.95	1910381.98
PC C15	2737772.95	1910381.98
PT C15	2737374.75	1910424.17
PC C16	2737374.75	1910424.17
PT C16	2737298.18	1910591.26
PC C17	2737183.38	1910583.88
PT C17	2737055.04	1910468.52
PC C18	2737055.04	1910468.52
PT C18	2737009.76	1910384.33
PC C19	2736991.04	1910370.23
PT C19	2736947.13	1910373.08
PC C20	2736947.13	1910373.08
PT C20	2736905.41	1910385.65
PC C21	2736905.41	1910385.65
PT C21	2736832.36	1910371.54
PC C22	2736832.36	1910371.54
PT C22	2736644.21	1910396.12
PC C23	2736644.21	1910396.12
PT C23	2736449.38	1910416.19
PC C24	2736449.38	1910416.19
PT C24	2736349.91	1910426.21
PC C25	2736349.91	1910426.21
PT C25	2736308.03	1910420.84
PC C26	2736308.03	1910420.84
PT C26	2736260.56	1910437.81
PC C27	2736260.56	1910437.81
PT C27	2736189.96	1910321.67
PC C28	2736189.96	1910321.67
PT C28	2736109.36	1910303.81
PC C29	2736109.36	1910303.81
PT C29	2736070.57	1910165.90

- ### LEGEND
- National Geodetic Survey Control Marker
  - GPS Control Mark
  - Milepost
  - AKDOT/BPF Concrete R.O.W. Marker
  - BLM Monument
  - Centerline
  - Copper River Meander Line
  - Turnout
  - Restricted Area
  - Right of Way Limit

### MEANDER POINT COORDINATES

Station	Coordinates
1/2	2745776.64
2/3	2745726.08
3/4	2745305.01
4/5	2745395.19
5/6	2745244.33
6/7	2745063.17
7/8	2744811.45
8/9	2744548.94
9/10	2744229.30
10/11	2743924.83
11/12	2743638.27
12/13	2743378.84
13/14	2743070.87
14/15	2742902.87
15/16	2742678.41
16/17	2742500.06
17/18	2742426.26
18/19	2742062.82
19/20	2741884.09
20/21	2741796.65
21/22	2741690.30
22/23	2741411.15
23/24	2740993.32
24/25	2740933.50
25/26	2740862.82
26/27	2740770.48
27/28	2740697.02
28/29	2740694.76
29/30	2740541.69
30/31	2740438.82
31/32	2740277.15
32/33	2740203.83
33/34	2740022.66
34/35	2739873.19
35/36	2739825.25
36/37	2739741.42
37/38	2739655.22
38/39	2739594.66
40/41	2739268.16
41/42	2739204.83
42/43	2739126.11
43/44	2739047.68
44/45	2739005.66
45/46	2738970.18
46/47	2738818.67
47/48	2738638.58
48/49	2738443.63
49/50	2738403.25
50/51	2738353.01
51/52	2738347.02
52/53	2738122.82
53/54	2738037.06
54/55	2737961.14
55/56	2737778.26
56/57	2737714.85
57/58	2737569.00
58/59	2737277.09
59/60	2737114.51
60/61	2736979.01
61/62	2736913.46
62/63	2736764.65
63/64	2736645.03
64/65	2736583.92
65/66	2736428.22
66/67	2736297.07
67/68	2736168.07
68/69	2736037.12
69/70	2735976.66
70/71	2735844.46
71/72	2735759.18
72/73	2735616.55
73/74	2735398.27
74/75	2735265.04
75/76	2735058.54
76/77	2734859.50
77/78	2734723.60
78/79	2734604.31
79/80	2734392.59
80/81	2736979.01
81/82	2736881.49
82/83	2736755.30
83/84	2736627.26
84/85	2736501.47
85/86	2736297.07

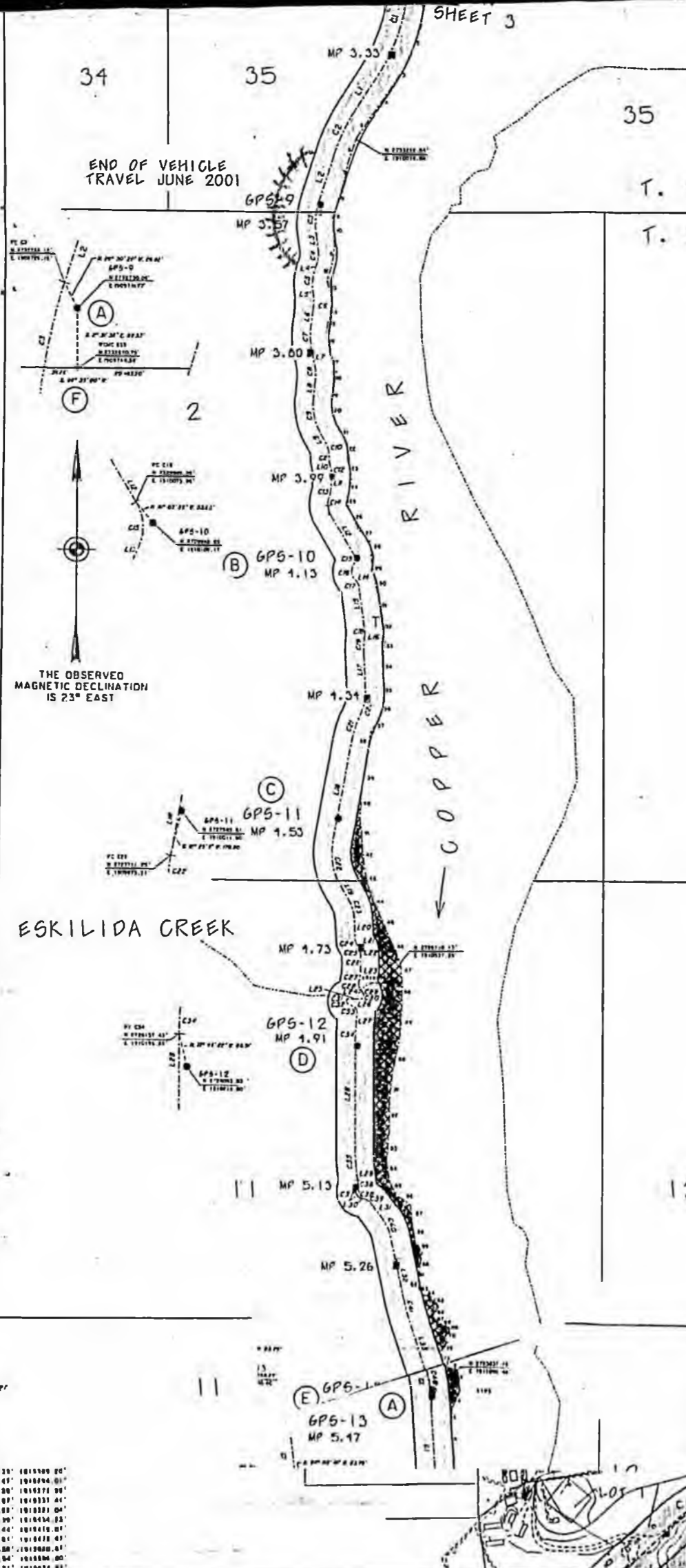
- ### LEGEND
- National Geodetic Survey Control Marker
  - GPS Control Mark
  - Milepost
  - AKDOT/BPF Concrete R.O.W. Marker
  - BLM Monument
  - Centerline
  - Copper River Meander Line
  - Turnout
  - Restricted Area
  - Right of Way Limit

DATE OF SURVEY: Beginning Sept. 1, 2001  
Ending March 20, 2002

RECORD OF SURVEY  
GPS Control Network and Right of Way  
Determination for a portion of The COPPER RIVER HIGHWAY Near CHITINA, ALASKA within Sections 13,14,23,26 and 35, T. 4 S., R. 5 E. & Sections 2,11,14,22 and 23, T. 5 S., R. 5 E., Copper River Meridian, Alaska

DRAWN BY: [Signature]  
DATE: 2/2002  
SHEET 2 OF 5 SHEETS

SCALE	CHECKED	FILE NO.
1" = 400'	KJL	
157.18'	45 S. 39° 24' 59" W.	45 94'
198.31'	46 S. 6° 41' 47" E.	152.55'
294.84'	47 S. 55° 27' 29" E.	317.60'
299.24'	48 S. 43° 22' 18" E.	268.19'
361.09'	49 S. 17° 26' 22" W.	42.33'
321.14'	50 S. 26° 41' 12" E.	56.22'
291.86'	51 S. 71° 01' 05" E.	18.43'
275.44'	52 S. 38° 32' 22" E.	286.64'
346.43'	53 S. 06° 08' 05" E.	95.53'
189.62'	54 S. 55° 51' 53" E.	135.29'
328.98'	55 S. 49° 15' 36" E.	280.22'
278.04'	56 S. 42° 42' 51" E.	86.31'
370.84'	57 S. 21° 09' 12" E.	34.09'
341.68'	58 S. 6° 55' 00" E.	314.99'
177.24'	59 S. 11° 26' 03" E.	165.87'
168.68'	60 S. 17° 01' 26" E.	141.72'
145.20'	61 S. 28° 26' 39" E.	74.54'
305.57'	62 S. 4° 01' 00" E.	149.18'
433.61'	63 S. 6° 40' 22" E.	120.44'
60.72'	64 S. 34° 41' 48" W.	122.98'
72.14'	65 S. 12° 00' 51" W.	143.65'
93.72'	66 S. 37° 01' 13" W.	164.26'
113.52'	67 S. 6° 35' 41" W.	129.86'
64.02'	68 S. 13° 56' 49" W.	134.93'
162.36'	69 S. 10° 48' 51" E.	61.55'
127.38'	70 S. 9° 39' 47" W.	134.11'
197.34'	71 S. 17° 18' 44" E.	50.36'
116.16'	72 S. 14° 47' 47" W.	104.40'
62.50'	73 S. 3° 03' 47" W.	224.09'
162.36'	74 S. 10° 59' 29" W.	135.72'
52.25'	75 S. 10° 07' 10" E.	209.76'
127.59'	76 S. 13° 4	



**CURVE TABLE**

Curve	Delta	Radius	Length	Tangent	Long Chord
C1	38° 57' 12"	1491.90'	1040.33'	542.32'	S. 12° 20' 35" W. 1019.38'
C2	15° 30' 12"	475.91'	357.79'	196.85'	S. 24° 44' 22" W. 390.26'
C3	26° 27' 10"	558.36'	357.79'	196.85'	S. 3° 55' 57" W. 253.50'
C4	25° 11' 15"	271.67'	119.43'	60.70'	S. 3° 18' 00" W. 118.47'
C5	25° 25' 19"	327.26'	145.21'	73.82'	S. 3° 10' 58" W. 144.02'
C6	15° 43' 28"	463.30'	127.15'	63.98'	S. 1° 39' 58" E. 126.75'
C7	19° 57' 48"	596.52'	207.84'	104.99'	S. 3° 47' 00" E. 206.80'
C8	18° 20' 17"	437.01'	139.87'	70.54'	S. 4° 35' 55" E. 139.27'
C9	35° 28' 51"	471.74'	259.13'	150.91'	S. 13° 10' 12" E. 287.48'
C10	32° 5' 24"	205.34'	115.01'	59.06'	S. 14° 51' 56" E. 113.50'
C11	19° 35' 44"	201.10'	68.78'	34.73'	S. 8° 37' 05" E. 68.44'
C12	19° 21' 3"	140.47'	47.44'	23.95'	S. 8° 44' 25" E. 47.22'
C13	17° 47' 26"	267.26'	82.99'	41.83'	S. 9° 49' 50" W. 82.65'
C14	51° 28' 0"	165.11'	148.31'	79.58'	S. 7° 00' 40" E. 143.38'
C15	56° 13' 32"	96.72'	94.92'	51.67'	S. 4° 37' 40" E. 91.15'
C16	61° 20' 50"	83.71'	90.40'	55.77'	S. 10° 28' 18" E. 92.83'
C17	34° 46' 23"	89.06'	54.05'	27.89'	S. 26° 28' 33" E. 51.69'
C18	15° 11' 2"	73.85'	19.57'	9.84'	S. 1° 29' 50" E. 19.51'
C19	10° 11' 37"	772.45'	137.43'	68.90'	S. 0° 59' 52" W. 137.25'
C20	29° 15' 37"	417.08'	213.00'	108.88'	S. 10° 31' 52" W. 210.69'
C21	15° 57' 25"	776.82'	216.34'	108.88'	S. 17° 10' 58" W. 215.65'
C22	41° 39' 9"	517.50'	376.21'	196.85'	S. 11° 37' 11" E. 367.98'
C23	61° 19' 9"	364.13'	179.97'	91.86'	S. 18° 17' 20" E. 178.15'
C24	44° 6' 10"	68.85'	52.99'	27.85'	S. 26° 0' 53" E. 25.62'
C25	43° 39' 6"	43.01'	32.77'	17.22'	S. 26° 24' 24" E. 31.98'
C26	5° 40' 23"	293.20'	98.34'	49.21'	S. 1° 44' 39" E. 98.30'
C27	12° 56' 25"	294.50'	66.51'	33.40'	S. 7° 33' 45" W. 66.37'
C28	53° 0' 18"	80.21'	74.20'	39.99'	S. 12° 28' 56" E. 71.58'
C29	60° 42' 19"	28.97'	30.69'	16.96'	S. 8° 37' 11" E. 29.27'
C30	57° 57' 9"	25.16'	29.31'	16.96'	S. 5° 48' 33" W. 28.13'
C31	97° 11' 3"	17.08'	28.97'	19.35'	S. 41° 05' 37" E. 25.62'
C32	63° 29' 41"	31.30'	34.69'	37'	S. 39° 14' 45" E. 32.94'
C33	73° 53' 55"	55.61'	71.73'	41.83'	S. 34° 02' 37" E. 66.86'
C34	4° 37' 29"	649.95'	52.46'	26.25'	S. 0° 35' 36" W. 52.45'
C35	7° 24' 37"	987.16'	127.77'	63.98'	S. 5° 25' 38" E. 127.68'
C36	37° 9' 49"	85.55'	55.50'	28.76'	S. 4° 26' 47" W. 54.53'
C37	58° 57' 10"	50.89'	28.36'	14.51'	S. 1° 25' 54" W. 50.08'
C38	51° 30' 56"	58.98'	53.03'	28.46'	S. 56° 40' 57" E. 51.26'
C39	43° 42' 16"	120.26'	91.73'	48.23'	S. 60° 35' 16" E. 89.53'
C40	25° 13' 52"	333.49'	146.86'	74.64'	S. 26° 07' 12" E. 145.67'
C41	6° 5' 27"	1572.43'	167.16'	83.66'	S. 16° 33' 00" E. 167.09'
C42	13° 53' 51"	740.28'	179.56'	90.22'	S. 12° 38' 48" E. 179.12'

**PC/PT COORDINATES**

PC	PT	PC	PT
PC 1 2733730.57	1910165.90'	PC 23 2727262.66'	1910103.41'
PC 2 2733475.30	1910004.40'	PC 24 2727093.52'	1910159.31'
PC 3 2733120.86	1908841.08'	PC 25 2726931.43'	1910171.02'
PC 4 2732755.12	1909728.16'	PC 26 2726885.04'	1910193.03'
PC 5 2732500.22	1909710.63'	PC 27 2726878.66'	1910200.97'
PC 6 2732245.07	1909729.81'	PC 28 2726850.02'	1910215.19'
PC 7 2732264.79	1909722.99'	PC 29 2726800.39'	1910219.17'
PC 8 2732196.58	1909703.56'	PC 30 2726702.13'	1910222.16'
PC 9 2732052.78	1909695.57'	PC 31 2726670.49'	1910221.56'
PC 10 2732033.18	1909698.86'	PC 32 2726604.69'	1910212.82'
PC 11 2731906.48	1909702.54'	PC 33 2726604.66'	1910212.81'
PC 12 2731772.78	1909686.03'	PC 34 2726534.80'	1910228.28'
PC 13 2731566.44	1909701.68'	PC 35 2726509.33'	1910248.88'
PC 14 2731477.77	1909723.41'	PC 36 2726480.39'	1910253.27'
PC 15 2731338.94	1909734.57'	PC 37 2726480.39'	1910253.27'
PC 16 2731199.54	1909723.43'	PC 38 2726464.54'	1910230.03'
PC 17 2730919.62	1909788.93'	PC 39 2726464.01'	1910134.00'
PC 18 2730848.81	1909831.33'	PC 40 2726444.70'	1910117.16'
PC 19 2730739.10	1909860.45'	PC 41 2726444.70'	1910117.16'
PC 20 2730739.08	1909860.45'	PC 42 2726419.19'	1910138.00'
PC 21 2730671.44	1909870.70'	PC 43 2726409.45'	1910166.28'
PC 22 2730653.61	1909876.64'	PC 44 2726354.05'	1910203.71'
PC 23 2730606.94	1909883.81'	PC 45 2726209.87'	1910196.39'
PC 24 2730506.17	1909882.17'	PC 46 2726157.43'	1910195.85'
PC 25 2730424.73	1909868.05'	PC 47 2725241.00'	1910223.36'
PC 26 2730424.71	1909868.05'	PC 48 2725113.89'	1910235.43'
PC 27 2730282.42	1909885.55'	PC 49 2725021.18'	1910250.34'
PC 28 2729999.39	1910073.96'	PC 50 2724967.40'	1910241.39'
PC 29 2729898.54	1910081.32'	PC 51 2724967.40'	1910241.39'
PC 30 2729876.98	1910071.95'	PC 52 2724917.33'	1910242.65'
PC 31 2729785.62	1910088.37'	PC 53 2724917.33'	1910242.65'
PC 32 2729760.19	1910105.11'	PC 54 2724803.18'	1910285.49'
PC 33 2729720.55	1910128.84'	PC 55 2724888.21'	1910292.79'
PC 34 2729365.46	1910185.65'	PC 56 2724844.24'	1910370.77'
PC 35 2729345.96	1910186.16'	PC 57 2724728.17'	1910463.89'
PC 36 2729239.86	1910184.44'	PC 58 2724597.37'	1910528.02'
PC 37 2729192.63	1910182.05'	PC 59 2724105.60'	1910646.12'
PC 38 2729090.26	1910202.43'	PC 60 2723945.43'	1910693.72'
PC 39 2728701.12	1910163.92'	PC 61 2723529.05'	1910841.55'
PC 40 2728701.12	1910163.92'	PC 62 2723354.28'	1910001.17'
PC 41 2728495.10	1910100.22'		
PC 42 2727711.29	1909973.21'		
PC 43 2727350.86	1910047.34'		

**MEANDERS OF THE COPPER RIVER**

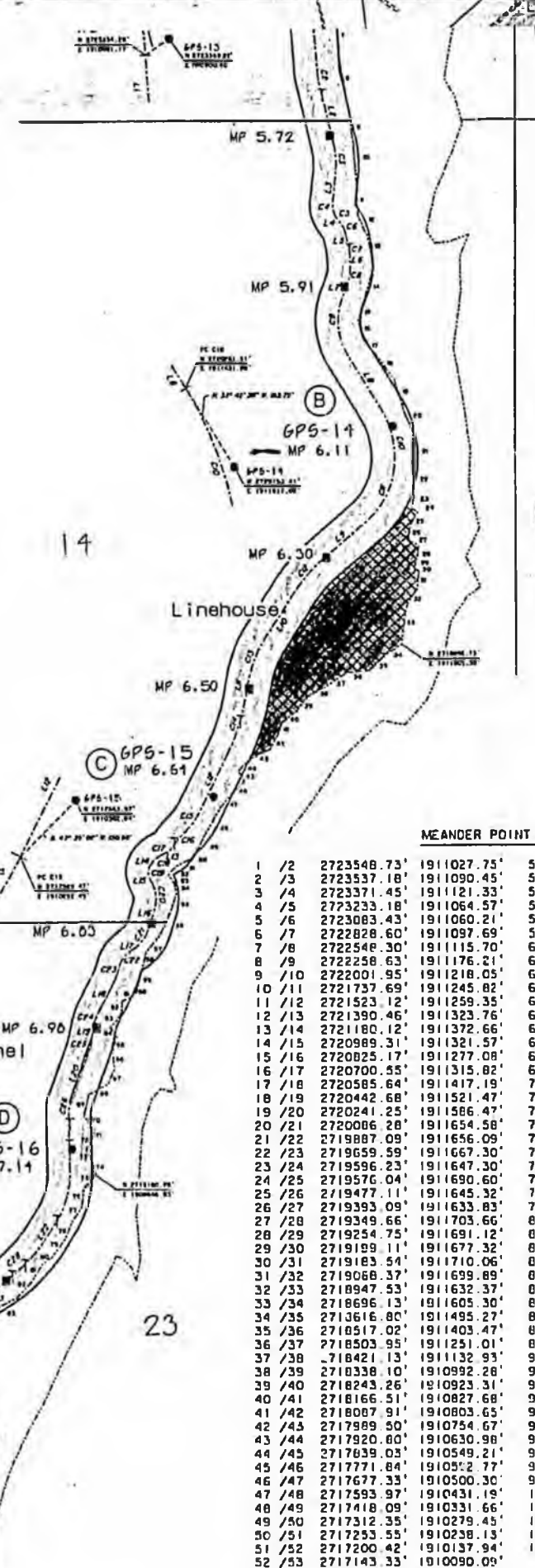
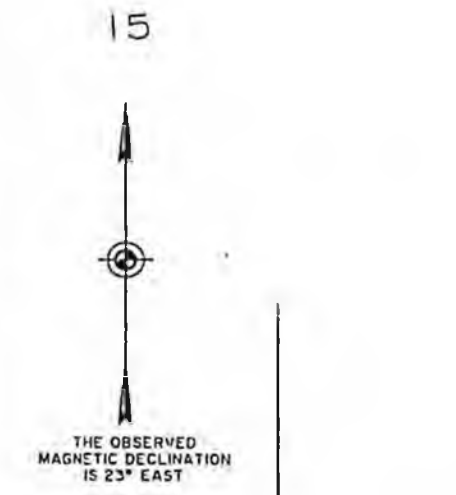
Station	Delta	Radius	Length	Tangent	Long Chord
1	5° 7' 20"	04' W.	247.60'	40	5° 2' 41" 15" W. 218.24'
2	5° 18' 33"	43" W.	274.93'	41	5° 37' 52" E. 256.94'
3	3° 31' 29"	08" W.	243.83'	42	8° 56' 13" E. 180.53'
4	3° 33' 17"	21" W.	291.34'	43	15° 14' 59" E. 193.19'
5	3° 33' 47"	41" W.	219.11'	44	27° 23' 28" L. 185.91'
6	3° 17' 54"	20" W.	188.86'	45	24° 31' 40" E. 175.35'
7	3° 12' 28"	00" W.	194.90'	46	24° 18' 04" E. 215.37'
8	3° 15' 39"	16" W.	217.41'	47	15° 39' 16" E. 176.50'
9	3° 21' 01"	06" W.	51.89'	48	0° 03' 10" L. 171.80'
10	3° 43' 46"	E.	216.79'	49	2° 04' 02" W. 269.19'
11	3° 7' 20"	09" W.	139.08'	50	9° 29' 50" W. 282.05'
12	3° 15' 00"	46" W.	143.98'	51	4° 05' 10" W. 216.83'
13	3° 16' 54"	12" W.	163.86'	52	1° 44' 20" E. 223.78'
14	3° 10' 38"	50" W.	140.02'	53	3° 37' 21" W. 244.56'
15	3° 11' 26"	45" W.	127.24'	54	11° 27' 17" W. 91.26'
16	3° 55' 08"	E.	200.89'	55	30° 40' 15" E. 176.80'
17	3° 24' 10"	02" E.	141.21'	56	56° 25' 07" E. 123.50'
18	3° 52' 42"	W.	133.54'	57	8° 24' 28" E. 183.67'
19	3° 15' 16"	12" W.	125.81'	58	11° 11' 55" E. 115.19'
20	3° 18' 47"	02" E.	218.27'	59	35° 41' 53" E. 100.21'
21	3° 33' 44"	45" E.	127.24'	60	3° 39' 07" W. 121.46'
22	3° 5' 43"	40" E.	115.24'	61	5° 26' 17" W. 91.26'
23	3° 8' 23"	18" E.	168.72'	62	7° 01' 27" E. 85.25'
24	3° 13' 17"	18" W.	132.10'	63	41° 25' 30" E. 51.67'
25	3° 8' 07"	22" E.	96.67'	64	76° 39' 31" E. 82.95'
26	3° 26' 20"	08" E.	178.37'	65	33° 36' 54" E. 85.93'
27	3° 44' 53"	07" E.	142.06'	66	33° 08' 56" W. 96.56'
28	3° 04' 47"	E.	166.33'	67	51° 44' 16" E. 104.98'
29	3° 06' 15"	E.	151.84'	68	7° 17' 03" E. 56.40'
30	3° 13' 46"	27" E.	148.00'	69	30° 34' 58" E. 27.37'
31	3° 12' 32"	51" E.	199.26'	70	39° 54' 55" W. 67.38'
32	3° 10' 12"	41" E.	136.60'	71	41° 43' 46" E. 41.74'
33	3° 3' 09"	17" W.	147.60'	72	28° 56' 36" W. 103.93'
34	3° 03' 53"	E.	214.46'	73	11° 14' 49" E. 121.13'
35	4° 04' 37"	E.	140.68'	74	65° 48' 14" E. 46.38'
36	3° 12' 44"	33" E.	145.33'	75	79° 33' 50" E. 63.76'
37	3° 33' 53"	32" E.	120.38'	76	10° 33' 21" E. 168.58'
38	3° 9' 50"	17" W.	176.63'	77	22° 19' 12" W. 149.47'
39	3° 6' 49"	17" W.	285.69'		

**MEANDER POINT COORDINATES**

Station	PC	PT	Station	PC	PT
1/2	2734147.02'	1910513.32'	40/41	2727909.37'	1910185.34'
2/3	2733886.39'	1910425.80'	41/42	2727643.72'	1910211.84'
3/4	2733678.46'	1910298.46'	42/43	2727165.39'	1910239.56'
4/5	2733734.93'	1910138.55'	43/44	2727279.00'	1910290.39'
5/6	2733252.84'	1910016.68'	44/45	2727113.94'	1910375.93'
6/7	2733073.12'	1909854.61'	45/46	2726954.41'	1910448.72'
7/8	2732802.82'	1909916.54'	46/47	2726758.13'	1910537.35'
8/9	2732673.47'	1909857.07'	47/48	2726597.07'	1910559.26'
9/10	2732625.03'	1909839.26'	48/49	2726420.27'	1910559.51'
10/11	2732409.74'	1909864.66'	49/50	2726151.26'	1910540.80'
11/12	2732271.80'	1909846.90'	50/51	2725873.07'	1910503.27'
12/13	2732132.74'	1909809.61'	51/52	2725656.79'	1910487.81'
13/14	2731971.17'	1909858.71'	52/53	2725433.12'	1910494.61'
14/15	2731833.56'	1909832.83'	53/54	2725189.05'	1910479.15'
15/16	2731754.29'	1909816.20'	54/55	2725015.93'	1910514.19'
16/17	2731555.82'	1909847.34'	55/56	2724916.33'	1910573.26'
17/18	2731426.99'	1909805.15'	56/57	2724828.02'	1910676.15'
18/19	2731293.93'	1909893.80'	57/58	2724666.32'	1910703.01'
19/20	2731172.56'	1909860.66'	58/59	2724553.38'	1910725.38'
20/21	2731065.91'	1909930.94'	59/60	2724471.94'	1910783.65'
21/22	2730960.11'	1910001.63'	60/61	2724351.56'	1910767.68'
22/23	2730872.73'	1910023.47'	61/62	2724260.88'	1910757.45'
23/24	2730765.82'	1910048.08'	62/63	2724176.27'	1910767.87'
24/25	2730643.25'	1910017.72'	63/64	2724137.52'	1910802.06'
25/26	2730541.55'	1910031.38'	64/65	2724118.38'	1910882.77'
26/27	2730411.70'	1910110.51'	65/66	2724046.90'	1910930.29'

14/15 2781706.81 1918220.04 43744 2140075.67 1918770.03  
 15/16 2781706.81 1918220.04 43744 2140075.67 1918770.03  
 16/17 2781706.81 1918220.04 43744 2140075.67 1918770.03

Copper River Meander Line  
 Turnout  
 Restricted Area  
 Right of Way Limit



C9	32° 59' 58"	427.72	395.65	213.25	S. 6° 19' 24" E.	331.70'
C10	37° 10' 0"	645.90	418.99	217.16	S. 14° 14' 23" E.	411.68'
C11	43° 38' 25"	542.39	413.12	217.16	S. 26° 09' 50" W.	403.21'
C12	17° 7' 40"	925.02	276.79	139.44	S. 39° 25' 13" W.	275.76'
C13	22° 14' 27"	834.54	323.95	164.04	S. 19° 44' 09" W.	321.92'
C14	16° 44' 20"	1337.38	350.90	196.85	S. 16° 39' 05" W.	389.51'
C15	20° 37' 35"	543.62	195.70	98.92	S. 32° 00' 04" W.	194.64'
C16	16° 33' 9"	298.54	86.25	43.43	S. 37° 42' 18" W.	85.95'
C17	35° 22' 41"	136.16	84.03	43.43	S. 47° 07' 04" W.	82.75'
C18	27° 43' 38"	186.11	90.06	45.93	S. 50° 56' 35" W.	89.19'
C19	68° 35' 43"	84.17	100.77	57.41	S. 2° 46' 53" W.	94.86'
C20	47° 7' 55"	225.65	185.62	90.43	S. 7° 57' 02" E.	180.43'
C21	36° 25' 37"	256.75	163.23	84.48	S. 33° 63' 44" W.	160.50'
C22	40° 5' 4"	162.18	113.47	59.17	S. 32° 00' 00" W.	111.17'
C23	14° 13' 14"	472.32	117.72	59.17	S. 19° 04' 05" W.	117.42'
C24	16° 14' 45"	344.80	97.76	49.21	S. 18° 03' 20" W.	97.44'
C25	8° 16' 38"	453.40	65.50	32.81	S. 14° 04' 17" W.	65.44'
C26	20° 49' 49"	178.49	64.89	32.81	S. 7° 47' 41" W.	64.54'
C27	32° 51' 38"	592.43	339.78	174.70	S. 13° 48' 36" W.	335.14'
C28	30° 16' 14"	1046.18	552.72	282.97	S. 45° 22' 33" W.	746.31'
C29	31° 59' 1"	661.11	369.04	189.47	S. 44° 31' 10" W.	364.27'
C30	20° 55' 13"	155.09	421.76	213.25	S. 30° 59' 16" W.	415.42'
C31	39° 51' 49"	814.27	566.53	295.28	S. 69° 22' 48" W.	555.18'
C32	16° 6' 3"	231.96	65.18	32.81	N. 82° 38' 15" W.	64.97'
C33	25° 4' 21"	63.08	27.61	14.03	N. 85° 47' 15" W.	27.40'

SEGMENT TABLE

L1	S. 5° 41' 53" E.	895.05'
L2	S. 14° 46' 30" E.	417.42'
L3	S. 3° 01' 25" W.	185.28'
L4	S. 37° 00' 56" E.	43.34'
L5	S. 15° 01' 23" E.	86.73'
L6	S. 4° 03' 16" E.	73.52'
L7	S. 20° 10' 36" W.	84.24'
L8	S. 32° 49' 24" E.	405.13'
L9	S. 47° 59' 03" W.	384.81'
L10	S. 30° 51' 22" W.	355.47'
L11	S. 8° 36' 55" W.	93.40'
L12	S. 25° 21' 15" W.	426.38'
L13	S. 64° 48' 21" W.	14.65'
L14	S. 37° 04' 48" W.	18.60'
L15	S. 31° 31' 02" E.	20.12'
L16	S. 15° 36' 55" W.	124.87'
L17	S. 52° 02' 31" W.	61.21'
L18	S. 26° 10' 42" W.	216.64'
L19	S. 0° 55' 18" W.	82.29'
L20	S. 18° 12' 36" W.	371.90'
L21	S. 2° 37' 13" E.	392.02'
L22	S. 30° 14' 24" W.	114.30'
L23	S. 60° 30' 37" W.	82.32'
L24	S. 28° 31' 39" W.	374.53'
L25	S. 49° 26' 52" W.	180.91'
L26	S. 89° 18' 44" W.	112.67'
L27	N. 74° 43' 41" W.	132.85'

MEANDER POINT COORDINATES

1 /2	2723548.73	1911027.75	54 /55	2717022.56	1910143.47
2 /3	2723537.18	1911090.45	55 /56	2716909.63	1910113.44
3 /4	2723371.45	1911121.33	56 /57	2716755.13	1910046.45
4 /5	2723233.18	1911064.57	57 /58	2716632.57	1909930.21
5 /6	2722828.43	1910878.43	58 /59	2716533.64	1909833.25
6 /7	2722828.60	1910878.69	59 /60	2716403.60	1909702.69
7 /8	2722548.30	1911115.70	60 /61	2716353.13	1909684.54
8 /9	2722258.63	1911176.21	61 /62	2716305.21	1909795.90
9 /10	2722001.95	1911218.05	62 /63	2716227.20	1909794.84
10 /11	2721737.69	1911245.82	63 /64	2716128.80	1909721.31
11 /12	2721523.12	1911259.35	64 /65	2716073.95	1909765.33
12 /13	2721390.46	1911323.76	65 /66	2715969.58	1909742.33
13 /14	2721180.12	1911403.14	66 /67	2715856.48	1909755.29
14 /15	2720989.31	1911321.57	67 /68	2715762.70	1909716.15
15 /16	2720825.17	1911277.08	68 /69	2715690.03	1909588.11
16 /17	2720700.55	1911315.82	69 /70	2715547.41	1909557.88
17 /18	2720585.64	1911417.19	70 /71	2715454.81	1909634.17
18 /19	2720442.68	1911521.47	71 /72	2715407.82	1909625.19
19 /20	2720241.25	1911586.47	72 /73	2715325.05	1909375.42
20 /21	2720086.28	1911654.58	73 /74	2715253.51	1909619.71
21 /22	2719887.09	1911656.09	74 /75	2715160.78	1909646.83
22 /23	2719659.59	1911667.37	75 /76	2715067.52	1909567.43
23 /24	2719596.23	1911647.30	76 /77	2714947.54	1909557.92
24 /25	2719576.04	1911690.60	77 /78	2714846.16	1909492.71
25 /26	2719477.11	1911645.32	78 /79	2714736.54	1909451.32
26 /27	2719393.05	1911633.83	79 /80	2714609.03	1909360.90
27 /28	2719349.68	1911703.66	80 /81	2714566.20	1909301.30
28 /29	2719254.75	1911691.12	81 /82	2714453.14	1909233.91
29 /30	2719199.11	1911677.32	82 /83	2714340.62	1909137.42
30 /31	2719183.54	1911710.06	83 /84	2714260.37	1908991.20
31 /32	2719068.37	1911699.89	84 /85	2714167.44	1908822.00
32 /33	2718947.53	1911632.37	85 /86	2713994.93	1908707.75
33 /34	2718696.13	1911605.30	86 /87	2713861.08	1908629.21
34 /35	2718616.80	1911485.27	87 /88	2713744.86	1908578.98
35 /36	2718451.02	1911403.47	88 /89	2713688.89	1908509.35
36 /37	2718303.95	1911251.01	89 /90	2713648.56	1908517.98
37 /38	2718242.13	1911132.93	90 /91	2713486.47	1908397.60
38 /39	2718338.10	1910992.28	91 /92	2713353.09	1908245.27
39 /40	2718243.26	1910923.31	92 /93	2713248.49	1908105.81
40 /41	2718166.51	1910827.68	93 /94	2713196.28	1908091.16
41 /42	2718087.91	1910803.63	94 /95	2713128.70	1907940.54
42 /43	2717959.50	1910732.55	95 /96	2713076.03	1907831.37
43 /44	2717920.80	1910630.98	96 /97	2713046.14	1907779.96
44 /45	2717839.03	1910549.21	97 /98	2713029.50	1907601.89
45 /46	2717771.84	1910525.77	98 /99	2712930.50	1907490.57
46 /47	2717677.33	1910500.30	99 /100	2712861.61	1907389.76
47 /48	2717593.97	1910431.19	100/101	2712814.56	1907302.97
48 /49	2717418.09	1910331.66	101/102	2712839.24	1907185.88
49 /50	2717252.35	1910238.13	102/103	2712876.03	1907117.31
50 /51	2717253.55	1910238.13	103/104	2712879.84	1907093.02
51 /52	2717200.42	1910137.94	104/105	2712767.44	1906981.15
52 /53	2717143.33	1910090.09			
53 /54	2717088.56	1910129.81			

MEANDERS OF THE COPPER RIVER

1	S. 65° 48' 14" E.	46.38'	54	S. 11° 41' 36" E.	67.40'
2	S. 79° 33' 39" E.	63.76'	55	S. 14° 53' 37" W.	116.85'
3	S. 10° 33' 21" E.	160.58'	56	S. 23° 26' 32" W.	168.40'
4	S. 22° 19' 12" W.	149.47'	57	S. 30° 08' 19" W.	155.82'
5	S. 1° 40' 58" W.	149.80'	58	S. 1° 40' 58" W.	100.50'
6	S. 8° 22' 01" E.	257.57'	59	S. 13° 15' 13" W.	133.30'
7	S. 3° 40' 34" E.	280.88'	60	S. 19° 45' 01" W.	53.72'
8	S. 11° 47' 58" E.	295.93'	61	S. 61° 36' 25" W.	100.76'
9	S. 9° 15' 26" E.	260.06'	62	S. 0° 46' 39" W.	78.02'
10	S. 6° 00' 02" E.	265.73'	63	S. 36° 46' 01" W.	122.84'
11	S. 3° 36' 23" E.	214.99'	64	S. 38° 45' 01" W.	70.33'
12	S. 25° 53' 53" E.	147.71'	65	S. 11° 52' 46" W.	110.52'
13	S. 13° 05' 14" E.	215.96'	66	S. 6° 44' 39" E.	113.19'
14	S. 14° 59' 24" W.	197.53'	67	S. 22° 39' 11" W.	10.63'
15	S. 15° 09' 55" W.	170.07'	68	S. 60° 75' 33" W.	147.22'
16	S. 17° 16' 09" E.	130.49'	69	S. 11° 58' 05" W.	145.79'
17	S. 41° 25' 07" E.	153.24'	70	S. 39° 29' 06" E.	119.98'
18	S. 36° 06' 26" E.	176.95'	71	S. 10° 48' 57" W.	47.84'
19	S. 17° 53' 06" E.	211.67'	72	S. 31° 01' 09" W.	96.98'
20	S. 23° 43' 29" E.	169.27'	73	S. 37° 45' 21" E.	84.14'
21	S. 0° 26' 05" E.	199.19'	74	S. 16° 18' 14" E.	96.62'
22	S. 2° 49' 18" E.	227.78'	75	S. 40° 24' 44" W.	122.48'
23	S. 17° 31' 08" W.	66.44'	76	S. 4° 31' 50" W.	120.36'
24	S. 64° 59' 27" E.	47.78'	77	S. 32° 45' 08" W.	120.54'
25	S. 24° 35' 33" W.	108.80'	78	S. 20° 40' 57" W.	117.17'
26	S. 7° 47' 06" W.	84.80'	79	S. 35° 20' 35" W.	156.32'
27	S. 58° 07' 10" E.	82.23'	80	S. 54° 17' 47" W.	73.35'
28	S. 7° 31' 43" W.	95.73'	81	S. 30° 47' 53" W.	131.61'
29	S. 13° 55' 34" W.	57.32'	82	S. 40° 36' 51" W.	148.23'
30	S. 64° 33' 10" E.	36.25'	83	S. 62° 48' 39" W.	175.63'
31	S. 5° 02' 43" W.	115.62'	84	S. 59° 43' 40" W.	184.33'
32	S. 29° 11' 40" W.	138.43'	85	S. 33° 30' 52" W.	206.92'
33	S. 6° 08' 44" W.	252.85'	86	S. 30° 24' 20" W.	155.19'
34	S. 54° 12' 29" W.	135.64'	87	S. 23° 22' 23" W.	126.61'
35	S. 42° 36' 54" W.	135.59'	88	S. 51° 12' 35" W.	89.34'
36	S. 85° 06' 10" W.	153.02'	89	S. 12° 00' 35" L.	41.23'
37	S. 54° 57' 06" W.	144.23'	90	S. 36° 35' 13" W.	201.87'
38	S. 59° 26' 49" W.	163.33'	91	S. 48° 47' 41" W.	202.47'
39	S. 36° 01' 37" W.	117.27'	92	S. 53° 07' 39" W.	174.33'
40	S. 15° 15' 02" W.	122.63'	93	S. 15° 40' 44" W.	54.22'
41	S. 16° 59' 47" W.	82.20'	94	S. 65° 50' 05" W.	165.08'
42	S. 26° 21' 33" W.	109.52'	95	S. 72° 55' 23" W.	119.52'
43	S. 60° 56' 59" W.	141.45'	96	S. 75° 00' 18" W.	115.54'
44	S. 45° 00' 07" W.	115.64'	97	S. 84° 41' 12" W.	178.84'
45	S. 32° 57' 17" E.	80.07'	98	S. 50° 40' 05" W.	143.70'
46	S. 44° 22' 30" W.	132.22'	99	S. 52° 42' 33" W.	126.92'
47	S. 39° 39' 36" W.	108.28'	100	S. 61° 32' 06" W.	98.73'
48	S. 29° 30' 19" W.	202.10'	101	N. 43° 12' 00" W.	171.04'
49	S. 26° 16' 48" W.	117.92'	102	N. 75° 10' 5	