

WATER BODIES:
CHILKAT RIVER

REGIONAL MAPS

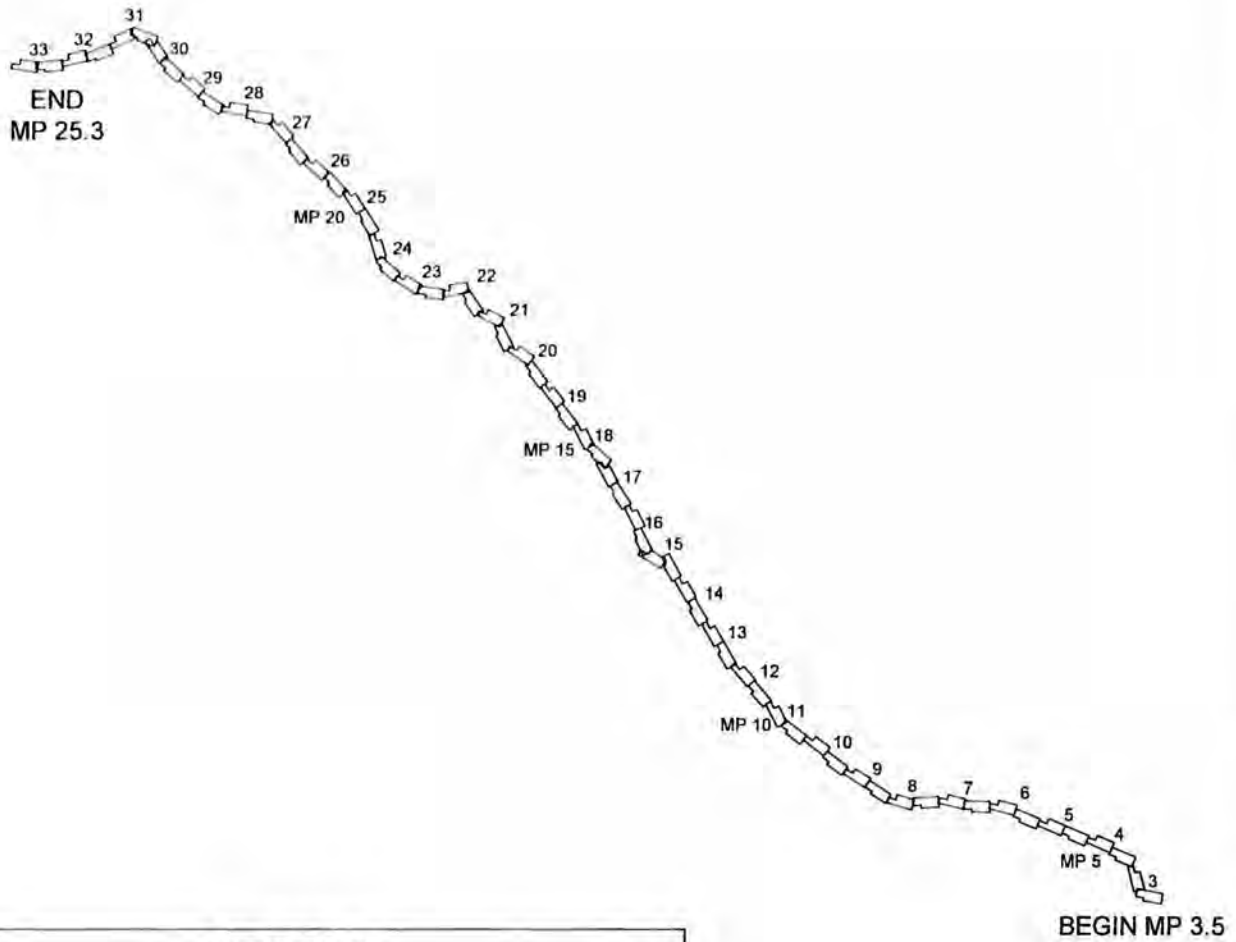
POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

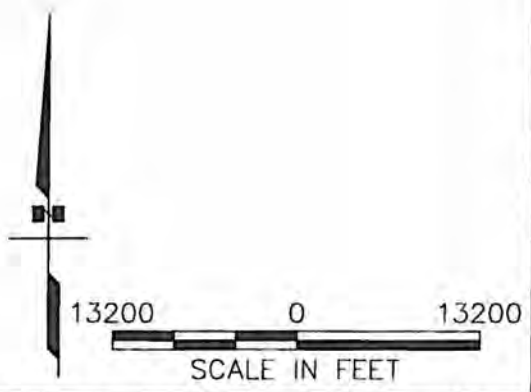
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017 SHEET **1** OF **41**



| LEGEND | |
|--------|--------------------------|
| | PROPOSED EDGE OF ROADWAY |
| | PROPOSED FILL LINE |
| | PROPOSED CUT LINE |
| | PROPOSED CULVERT |
| | EXISTING DRAINAGE |
| | PROPOSED DRAINAGE |
| | WETLANDS |
| | RIVER |



WATER BODIES:
CHILKAT RIVER

KEY MAP

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

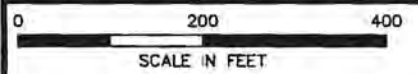
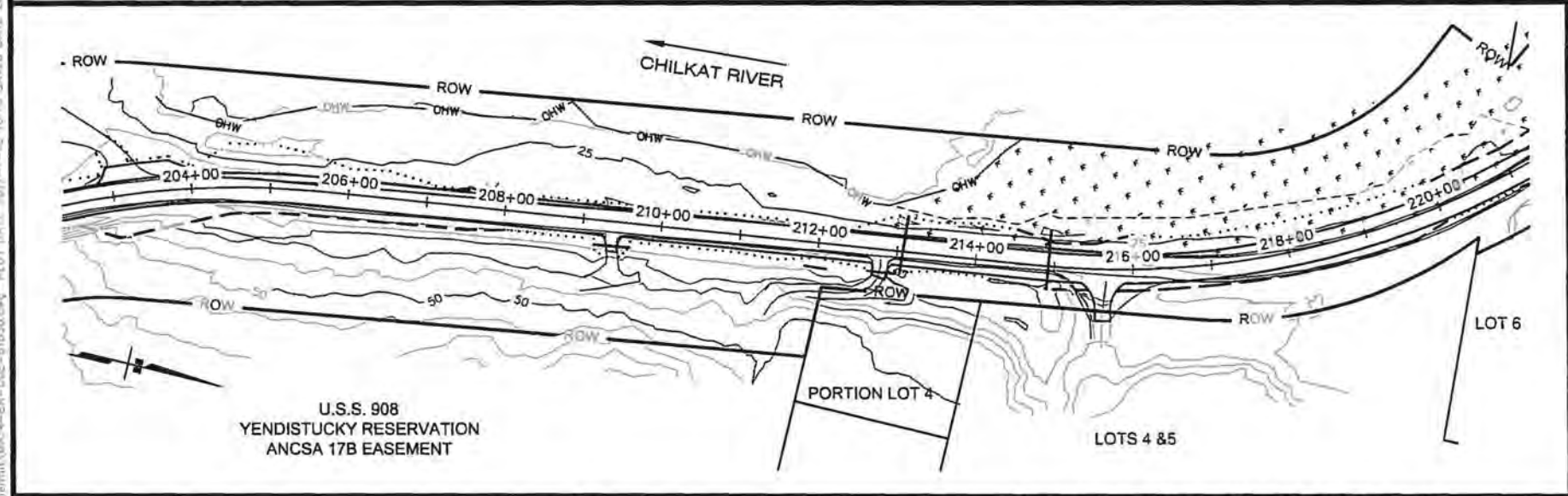
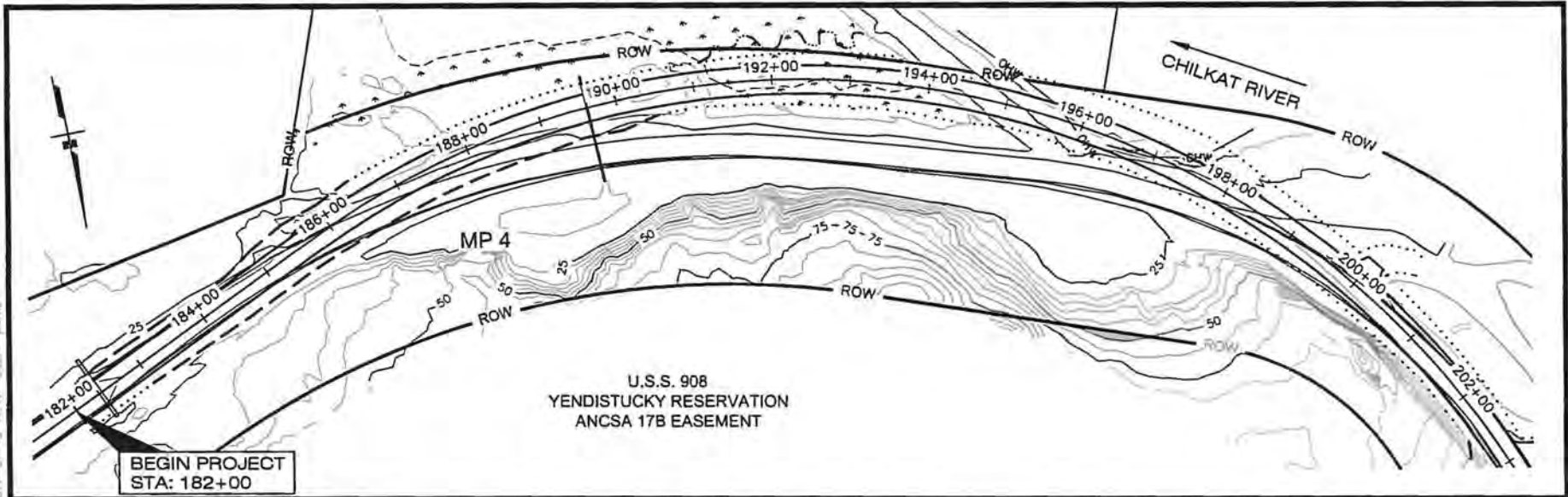
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 25-30 SOUTH,
RANGE 56-58 EAST, C.R.M
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017 SHEET **2** OF **41**

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WATER BODIES:
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

PROJECT PLANS

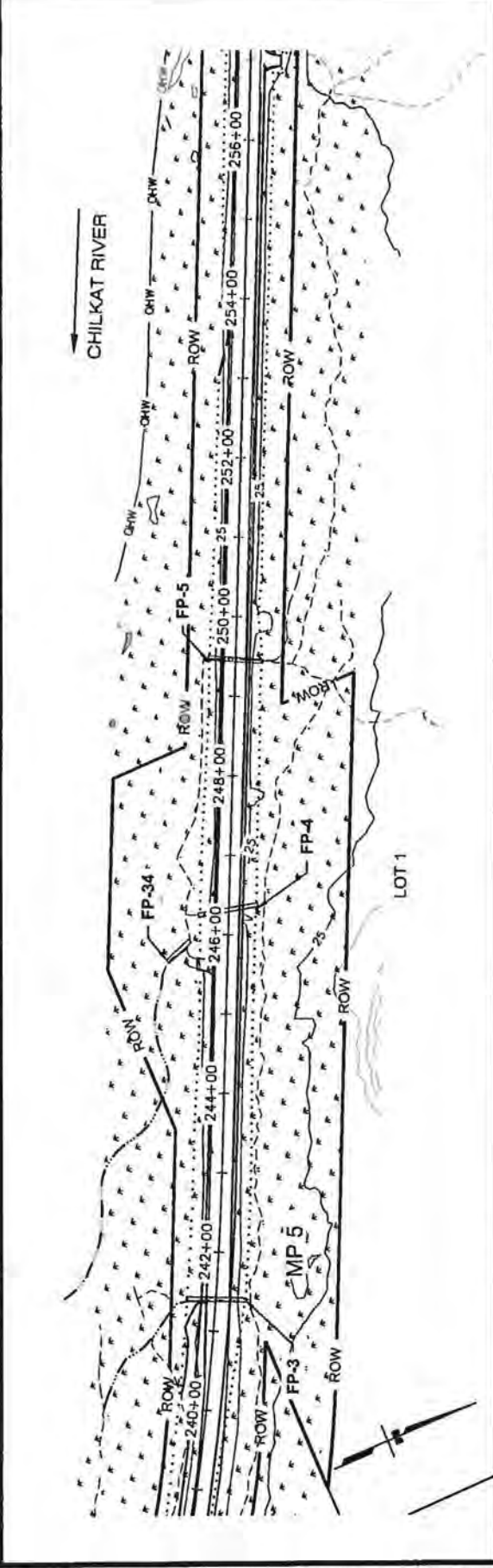
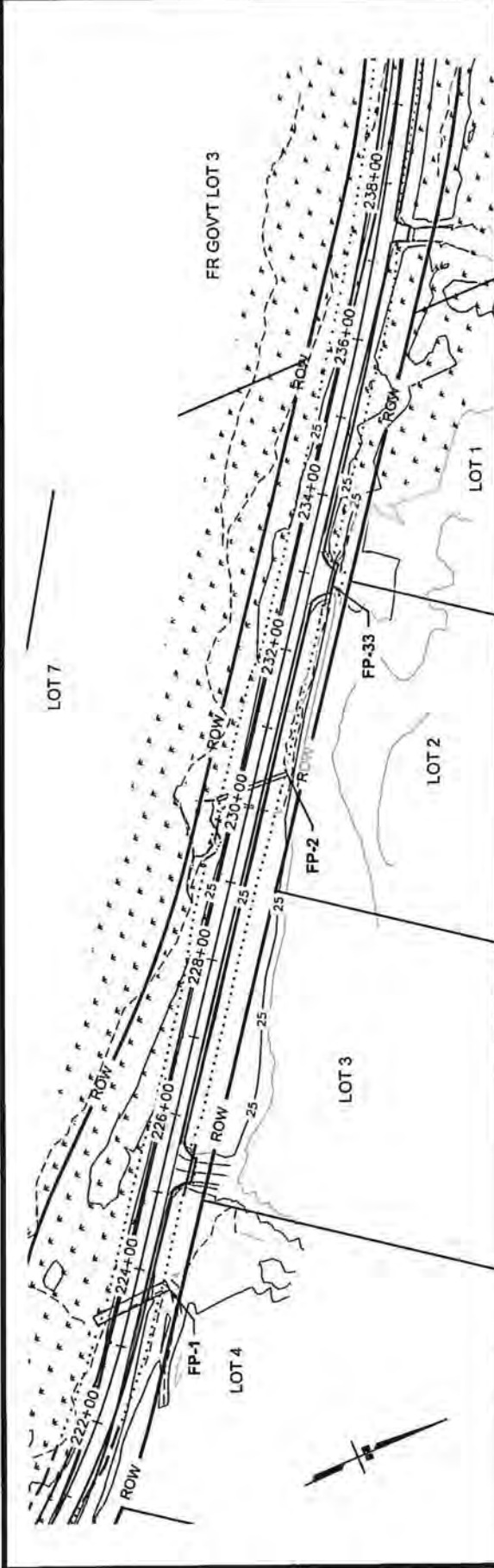
POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

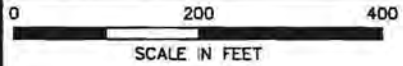
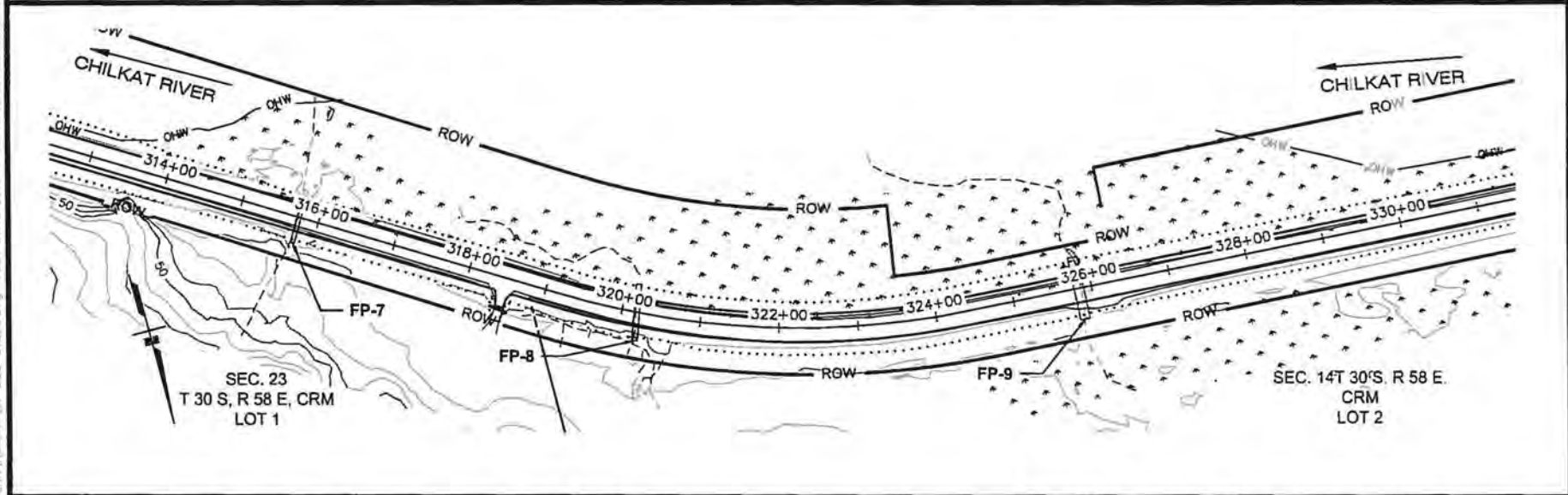
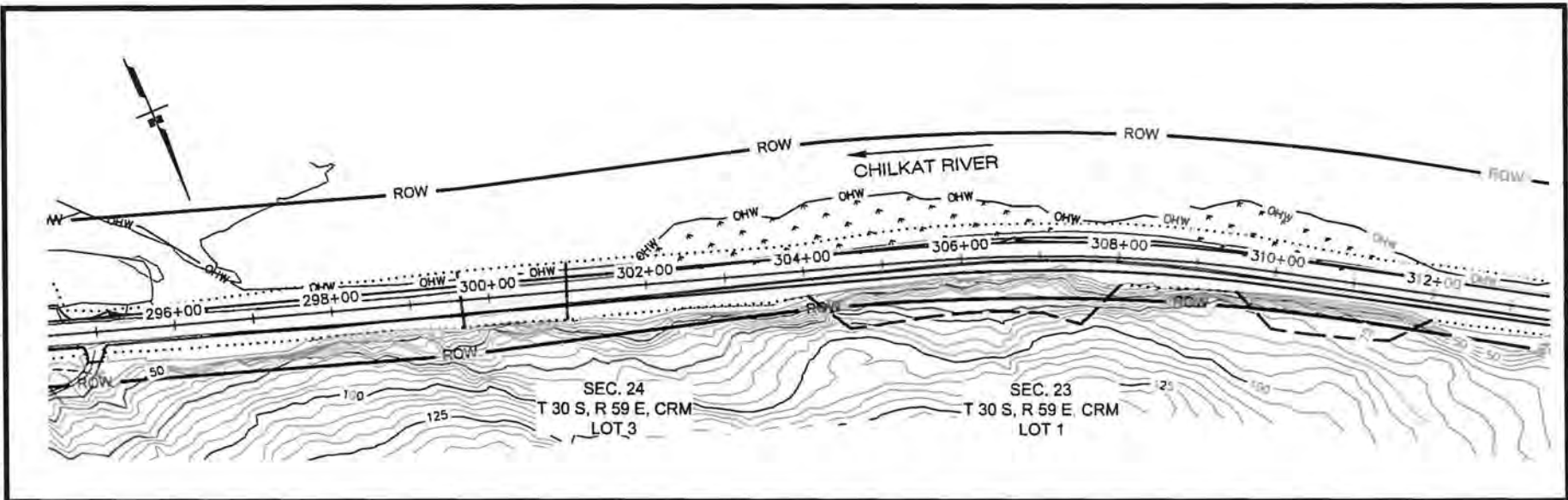
DATE: JANUARY 2017

SHEET 3 OF 41



| | | |
|---|--|--|
| <p>HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606</p> <p>AT: HAINES, ALASKA</p> <p>LOCATED IN: TOWNSHIP 28-30 SOUTH RANGE 56-59 EAST, C.R.M. LATITUDE: N 59° 35' 12" LONGITUDE: W 135° 11' 52"</p> <p>DATE: JANUARY 2017</p> | <p>PROJECT PLANS</p> <p>POA 1992-515 APPLICATION BY: ALASKA STATE DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOAST REGION</p> | <p>SEE ATTACHED PROPERTY OWNERS LIST</p> <p>WATER BODIES: CHILKAT RIVER</p> <p>0 200 400 SCALE IN FEET</p> |
|---|--|--|

B:\1\B\051450_HMS\CAD\CD\geom\WMA+EM-CDE-KURSD.dwg PLOT DATE: 2017-1-18 10:10:10 SAVED DATE: 2017-01-18 14:11 USER: Armo



WATER BODIES:
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

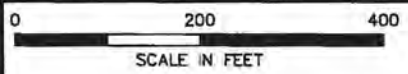
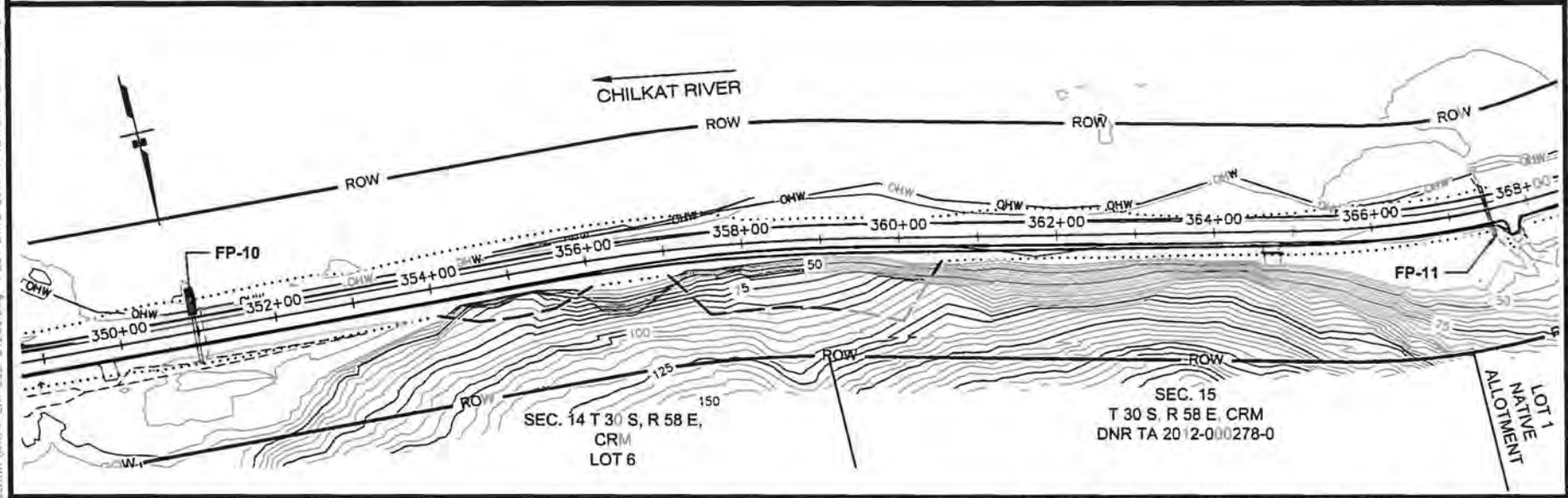
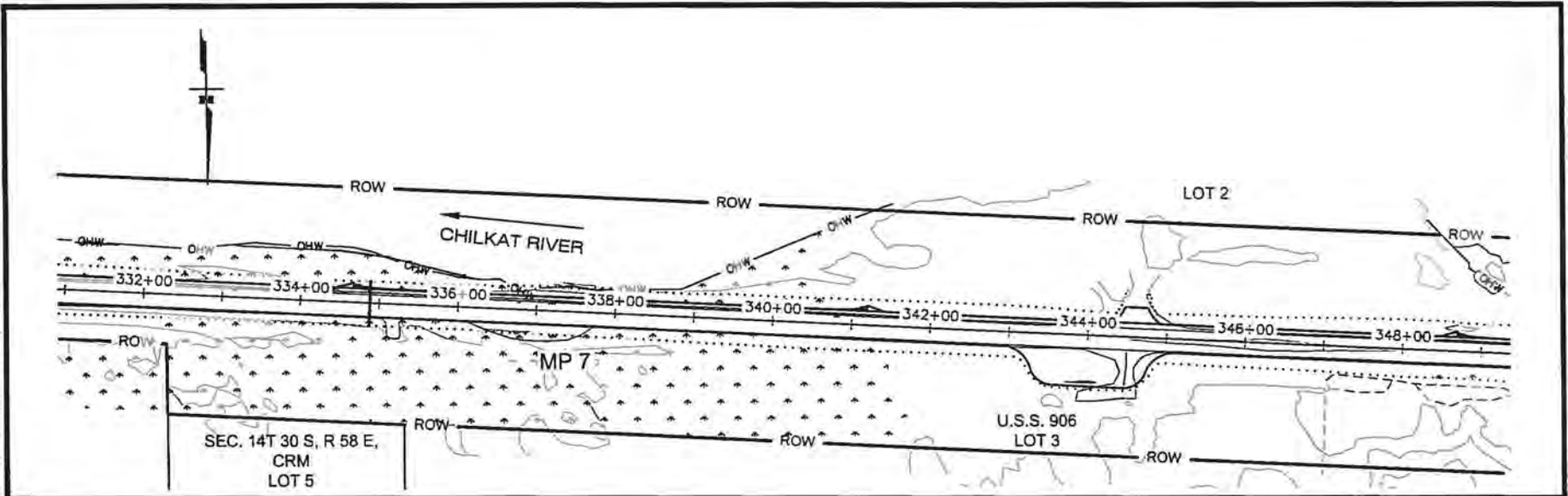
PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 58-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"
DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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PROJECT PLANS

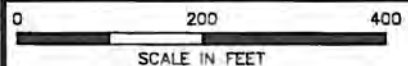
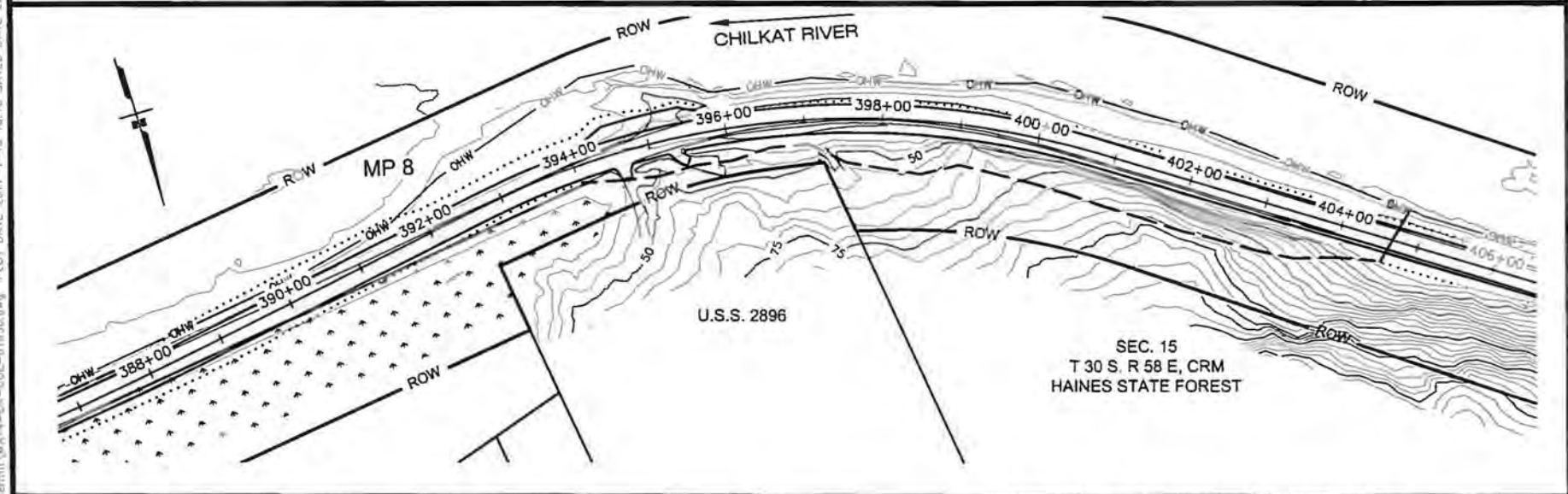
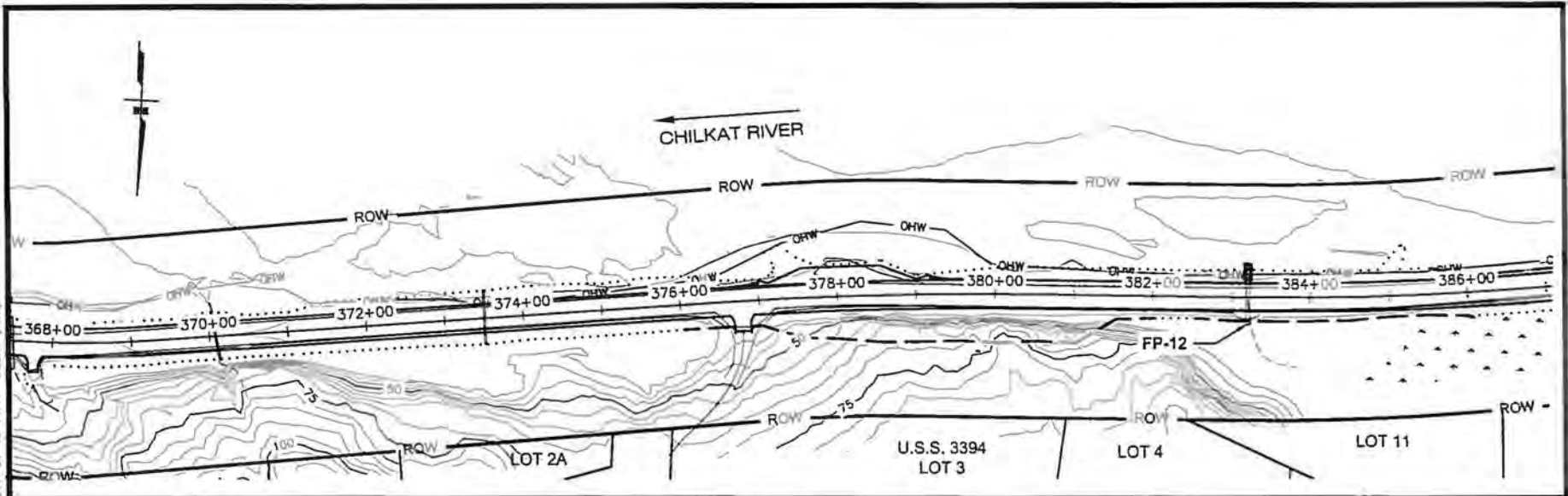
POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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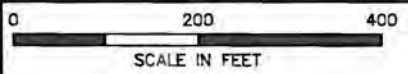
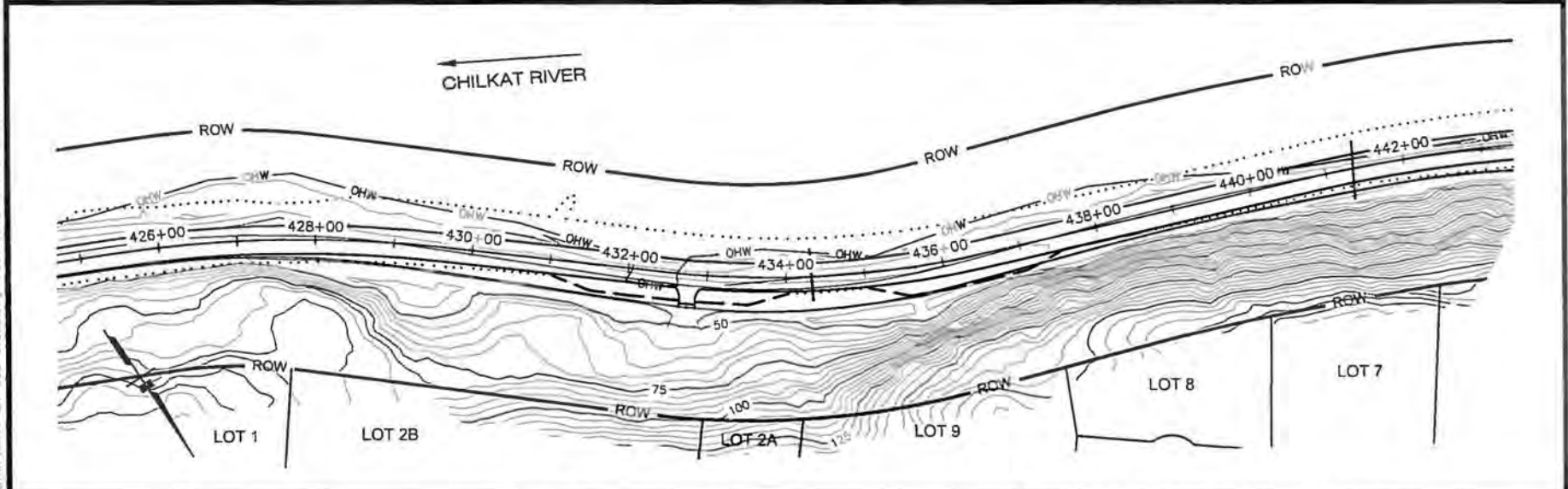
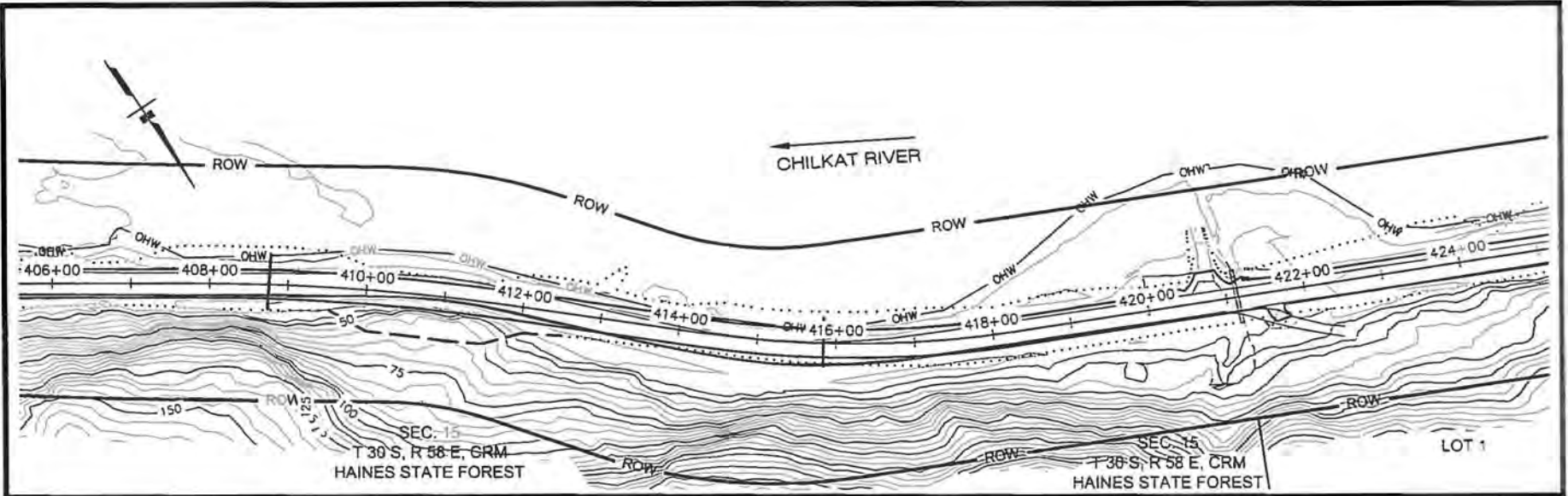
PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
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SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"
DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

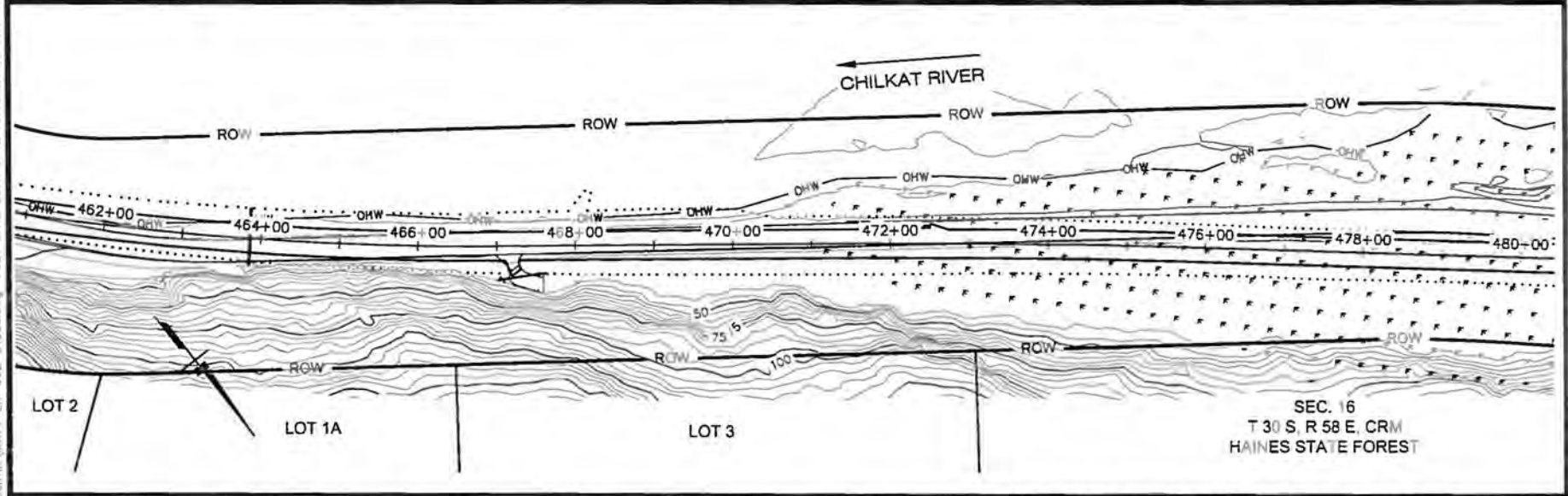
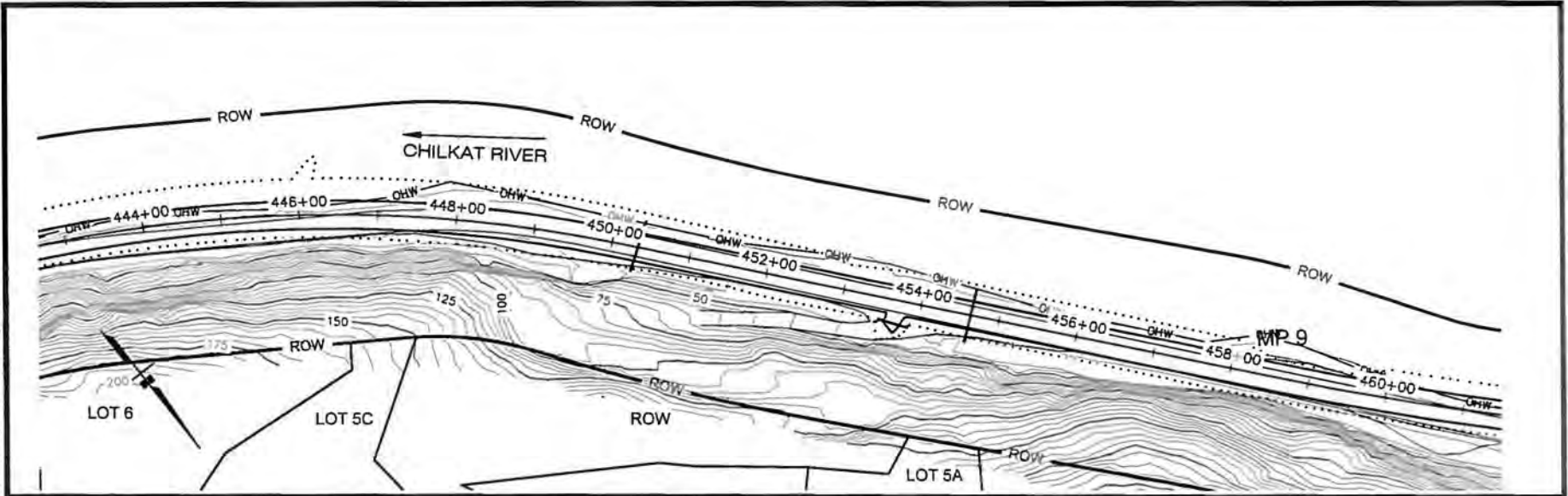
HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET **9** OF **41**

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0 200 400
SCALE IN FEET

WATER BODIES:
CHILKAT RIVER

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OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

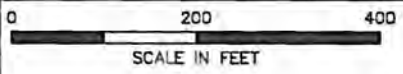
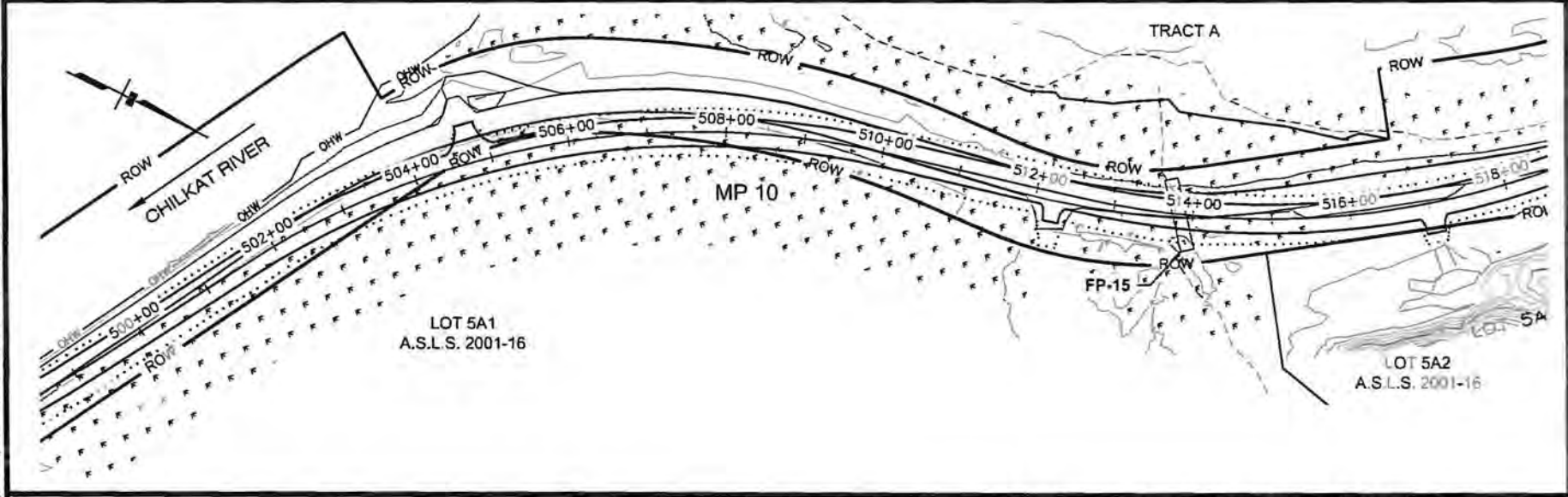
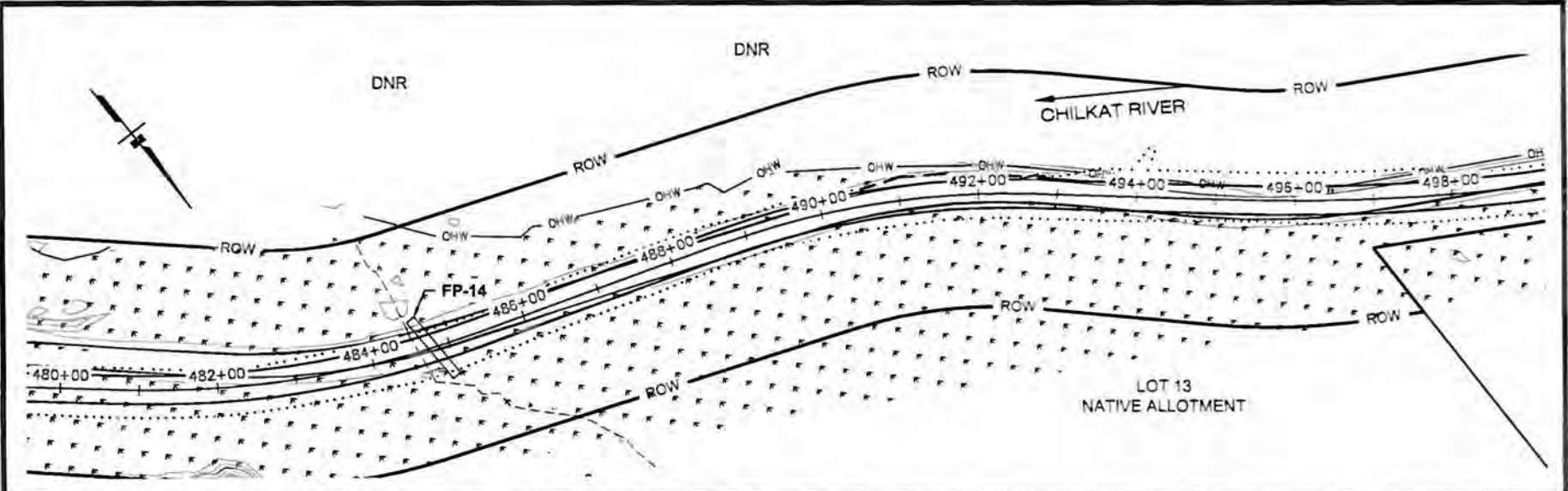
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 58-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET **10** OF **41**

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WATER BODIES:
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

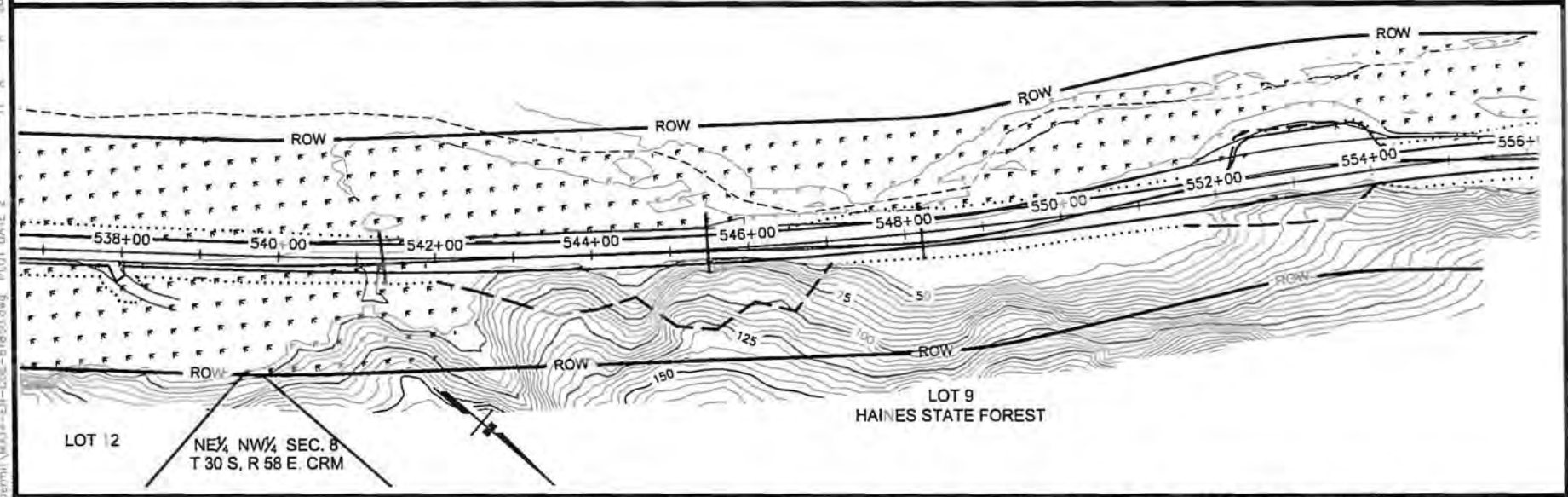
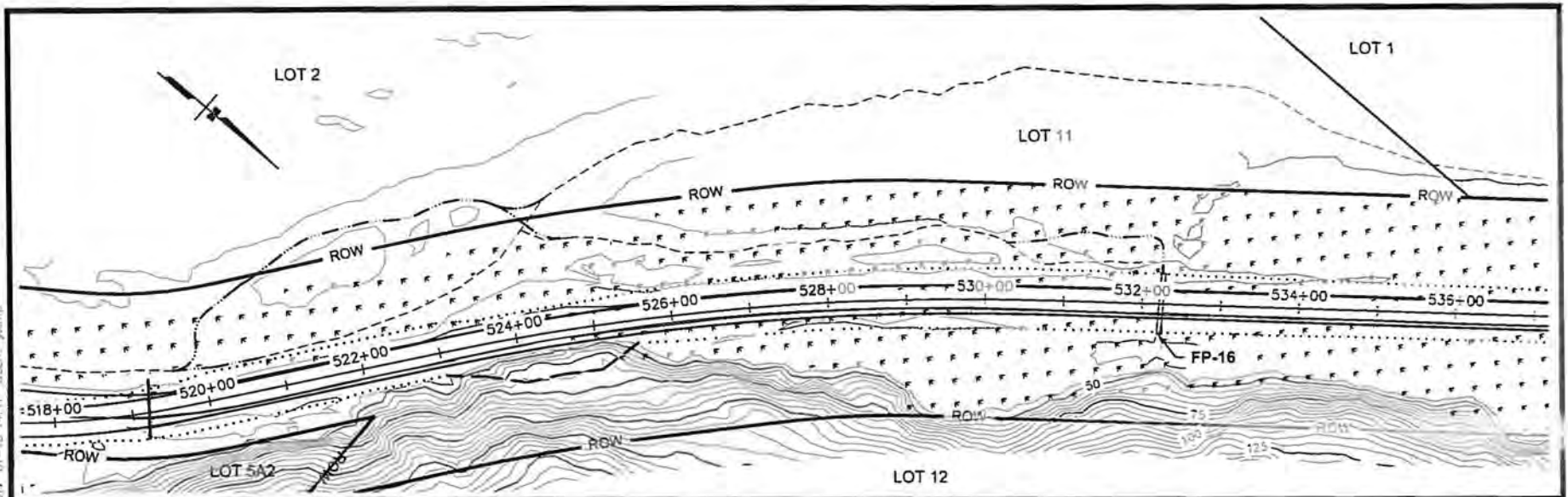
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE, N 59° 35' 12"
LONGITUDE, W 135° 11' 52"

DATE: JANUARY 2017

SHEET 11 OF 41

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0 200 400
SCALE IN FEET

WATER BODIES:
CHILKAT RIVER

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PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

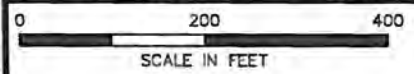
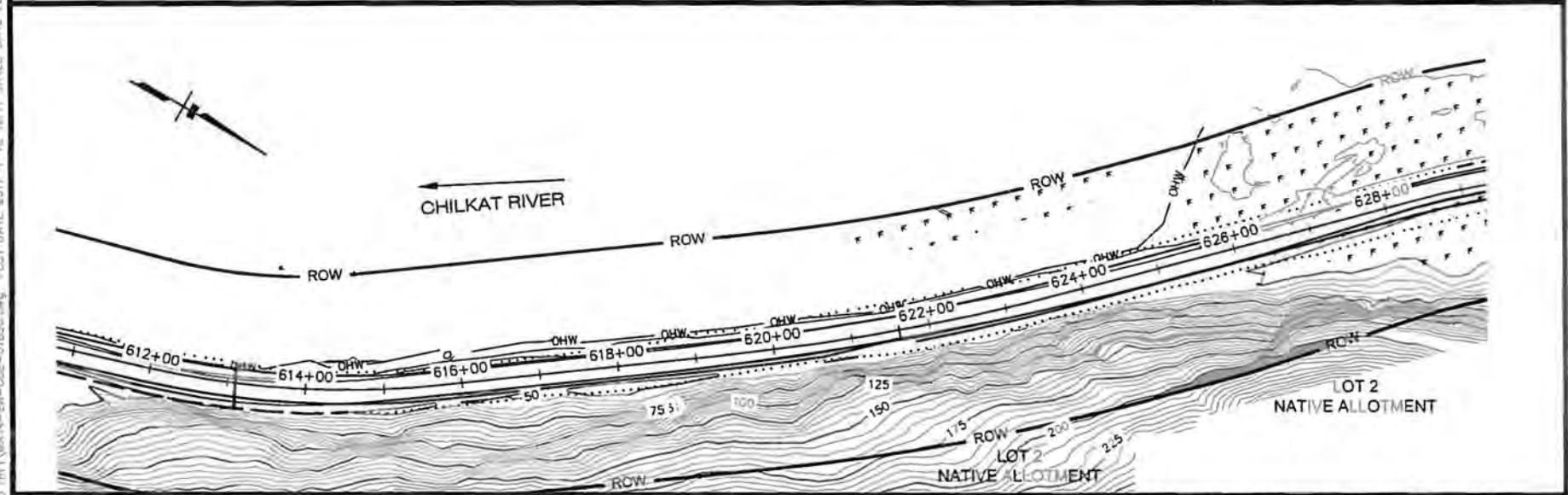
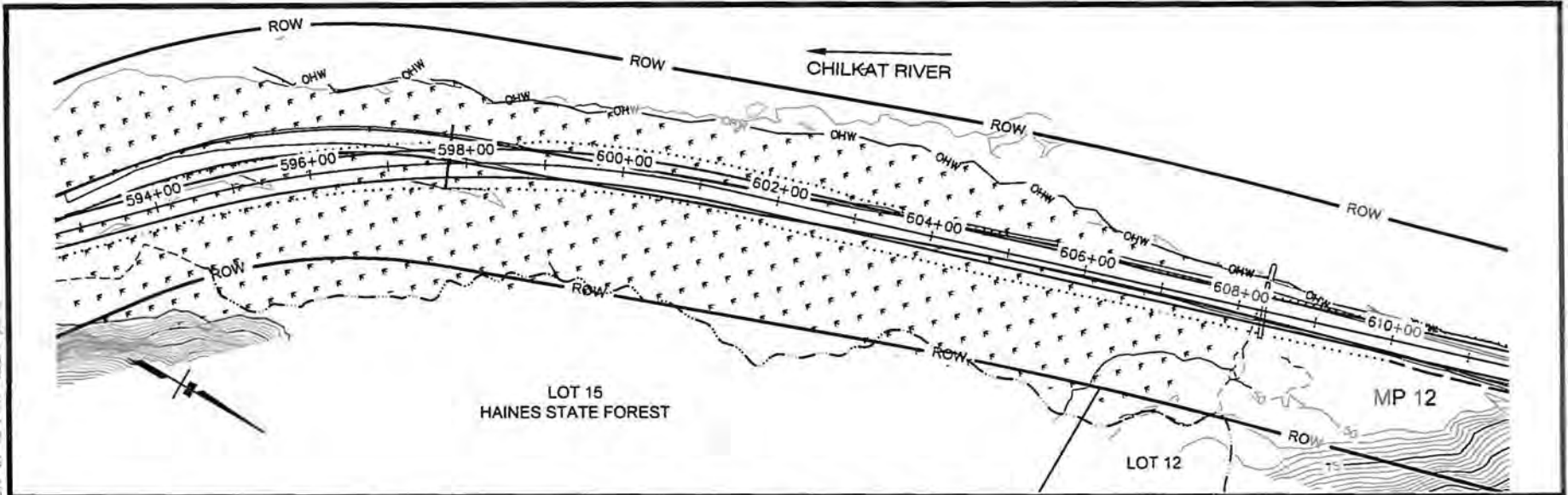
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 12 OF 41

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WATER BODIES:
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

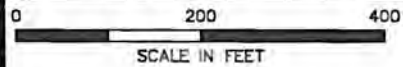
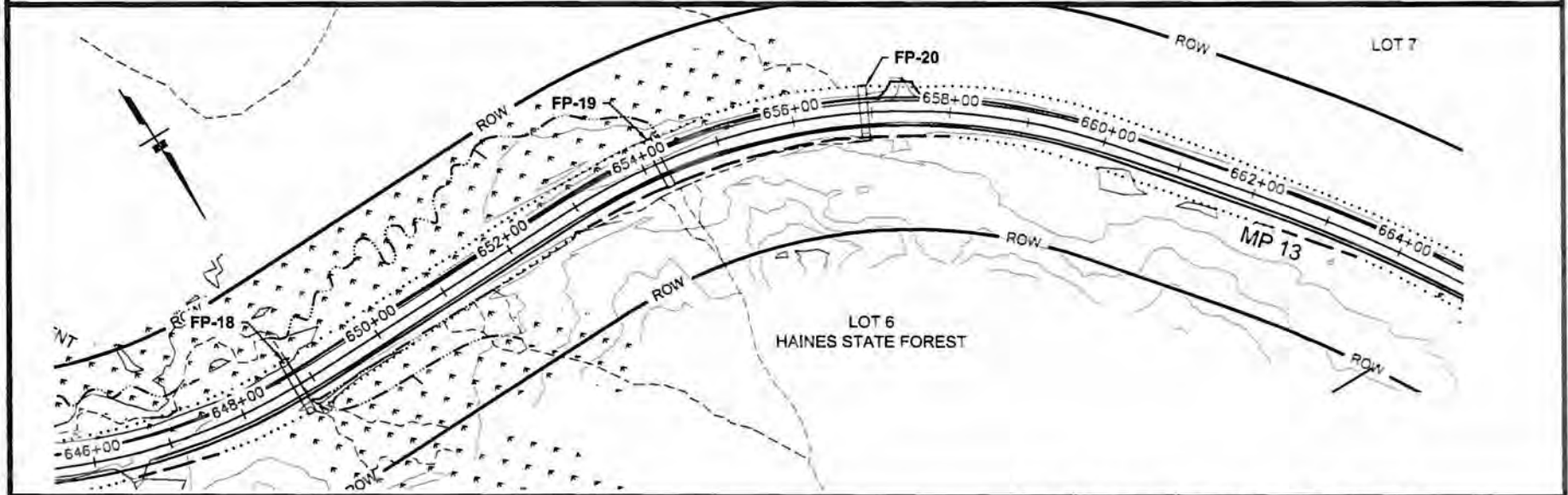
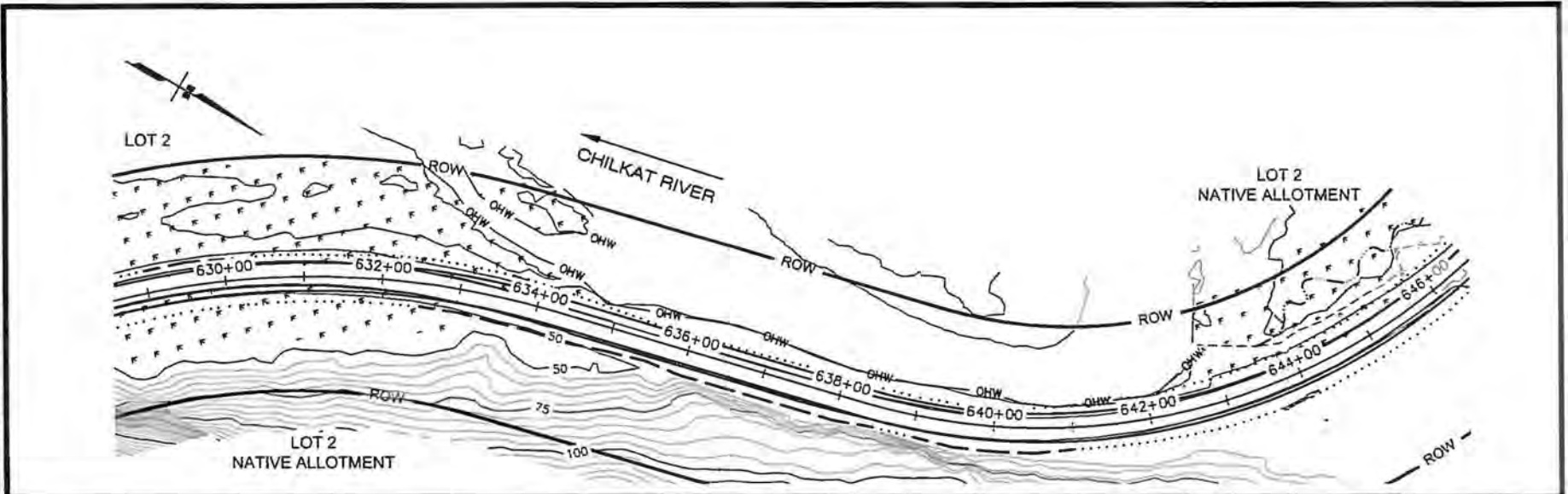
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 14 OF 41

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WATER BODIES
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

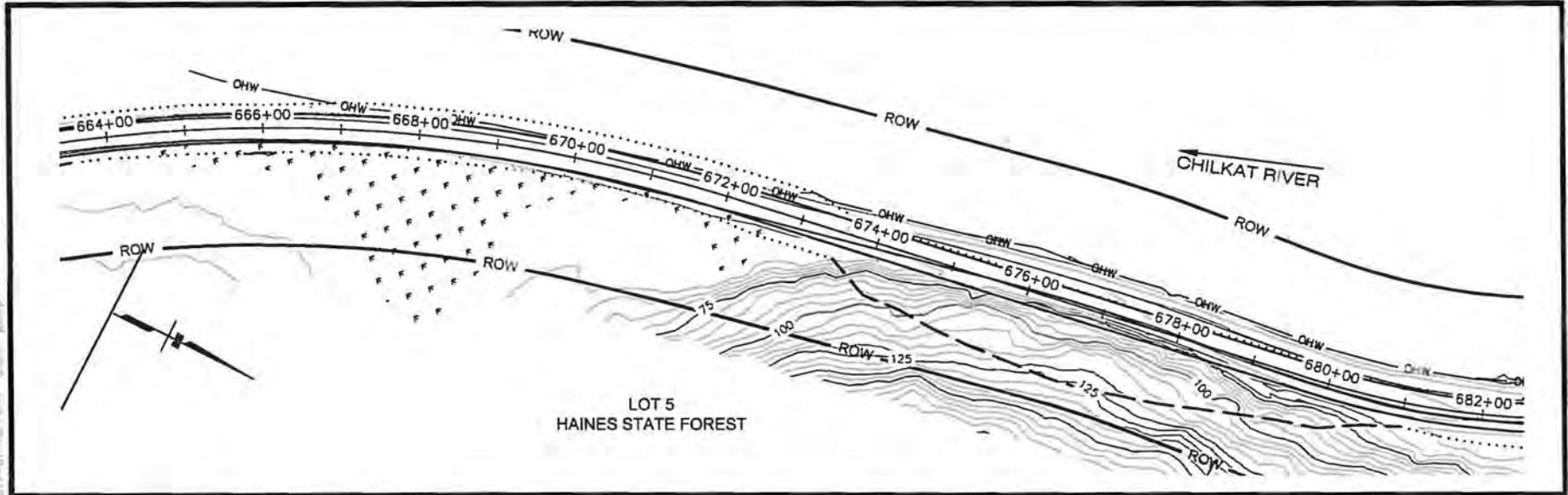
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA

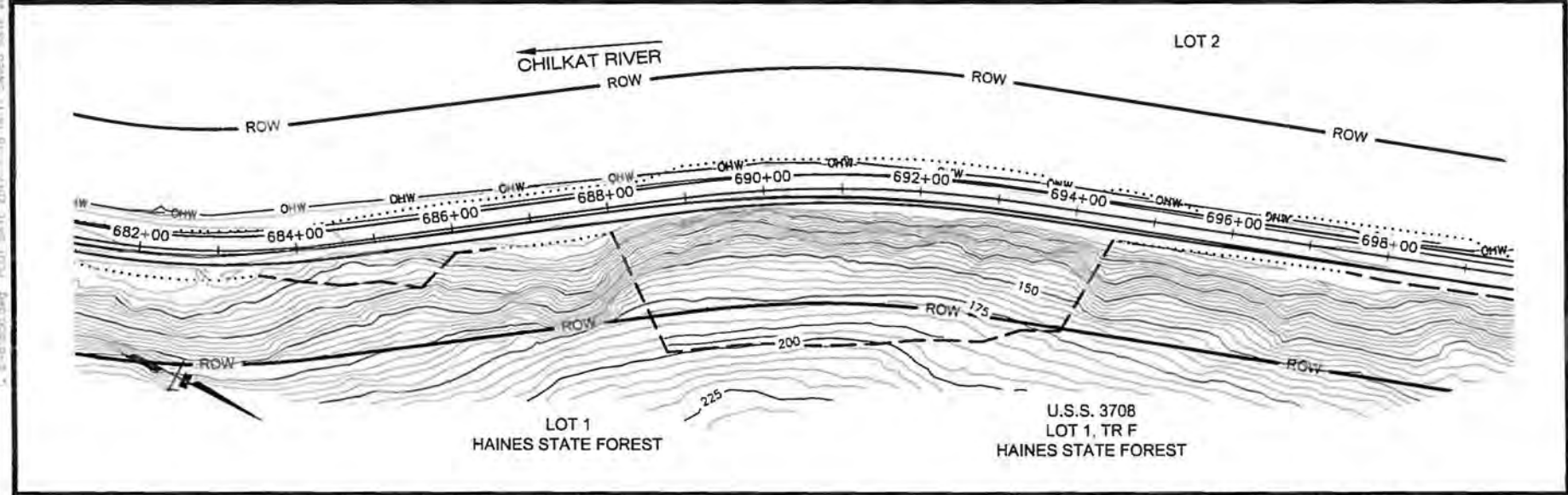
LOCATED IN: TOWNSHIP 28-30 SOUTH
RANGE 56-59 EAST, C. R. M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 15 OF 41



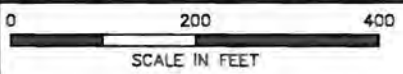
LOT 5
HAINES STATE FOREST



LOT 1
HAINES STATE FOREST

U.S.S. 3708
LOT 1, TR F
HAINES STATE FOREST

LOT 2



WATER BODIES:
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HAINES HIGHWAY IMPROVEMENTS
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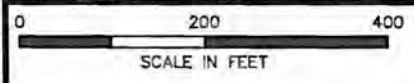
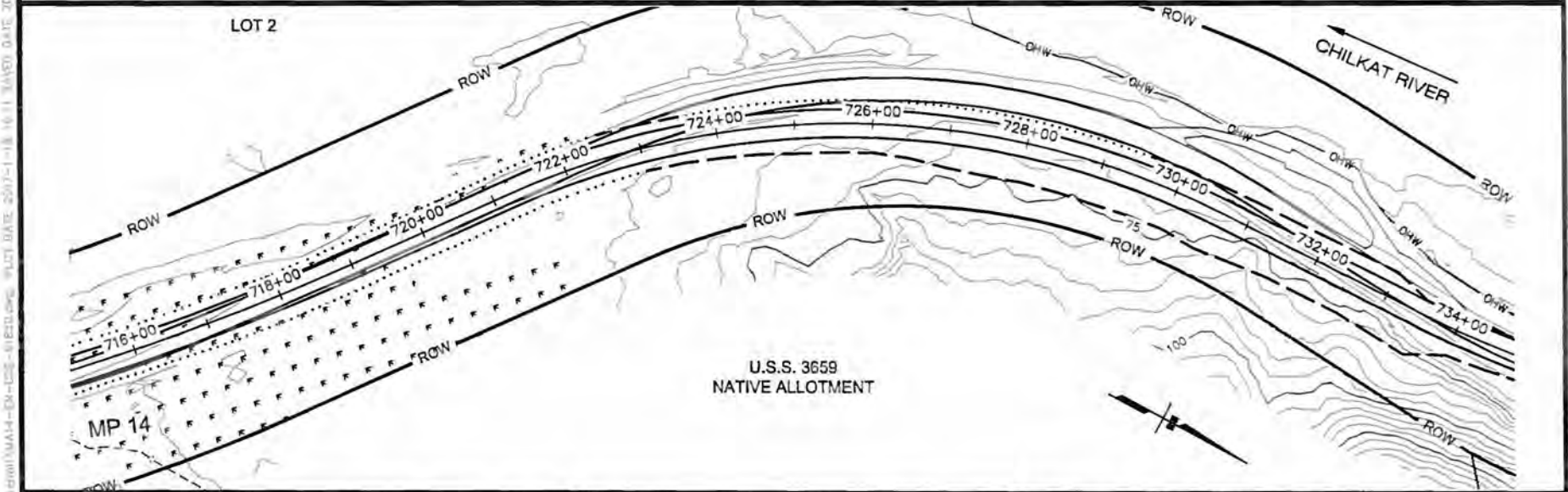
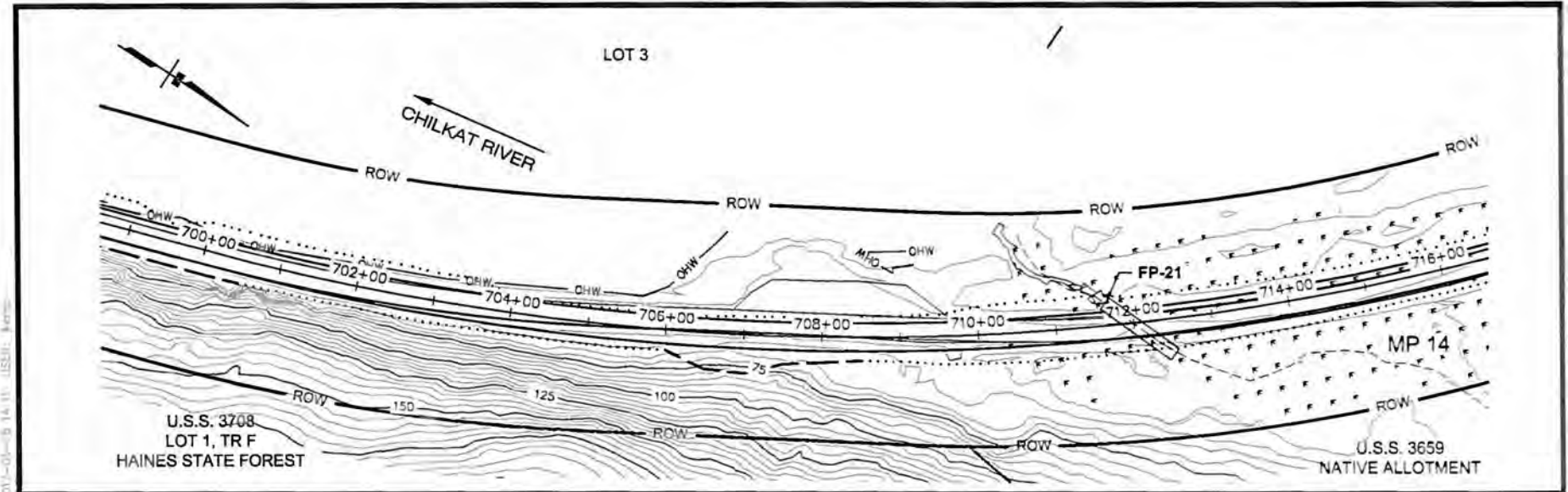
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 23-30 SOUTH,
RANGE 38-39 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 16 OF 41

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 1/11/2017 10:11:58 AM
 1/11/2017 10:11:58 AM



WATER BODIES:
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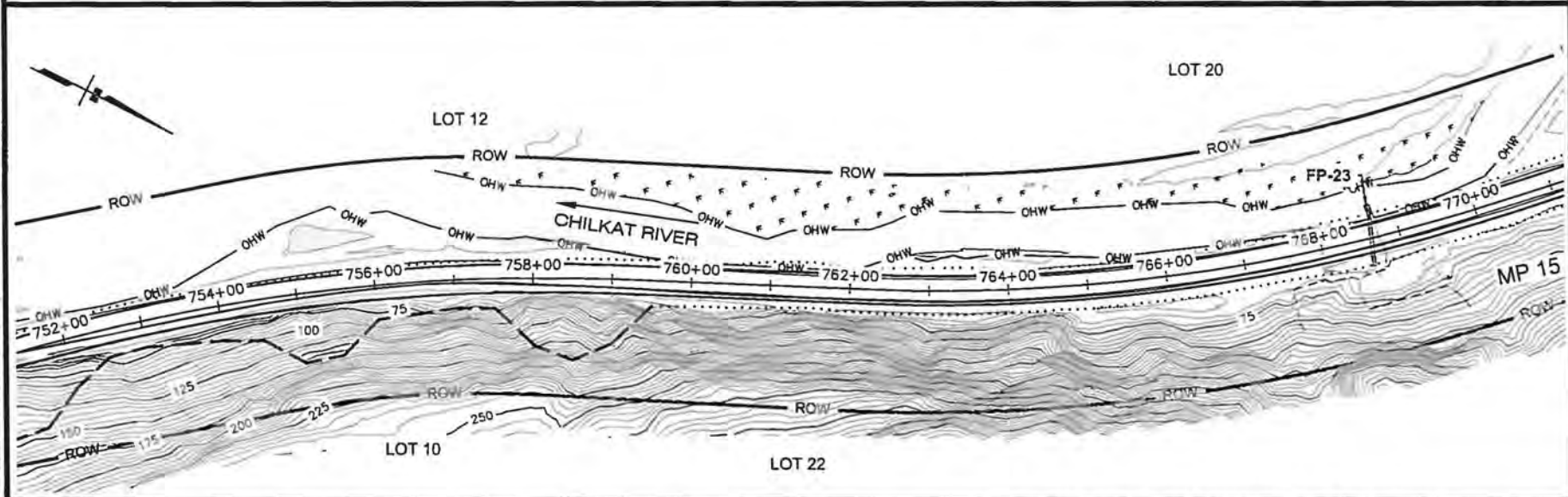
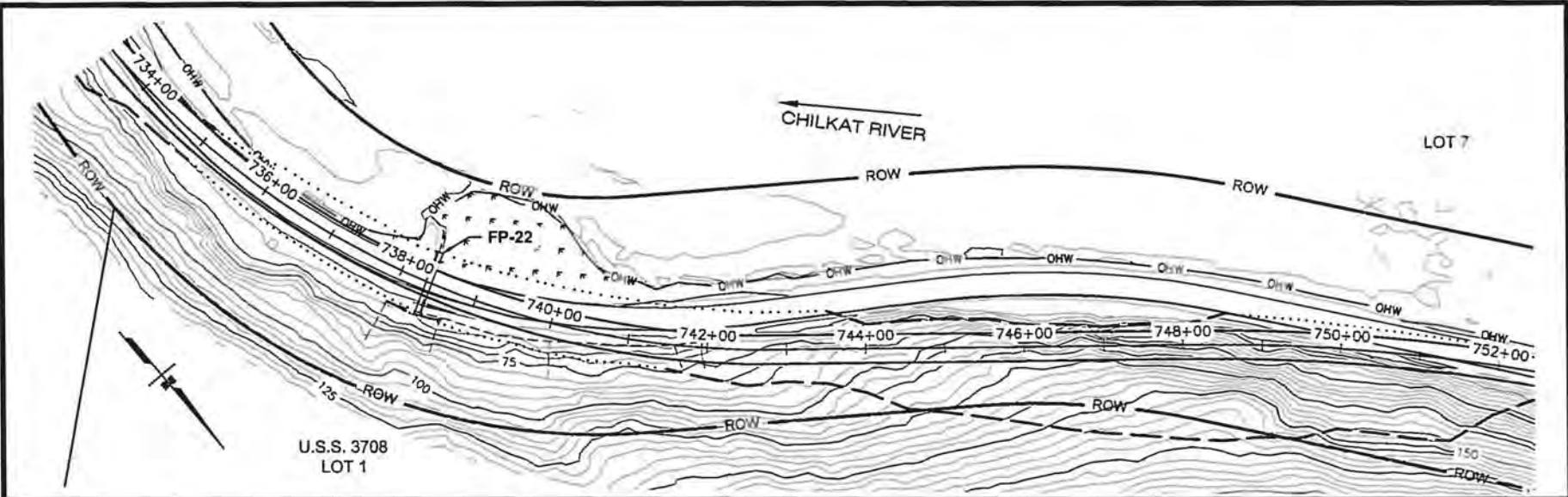
**HAINES HIGHWAY IMPROVEMENTS
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LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 17 OF 41

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0 200 400
SCALE IN FEET

WATER BODIES:
CHILKAT RIVER

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HAINES HIGHWAY IMPROVEMENTS
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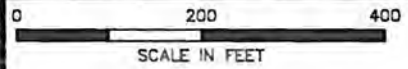
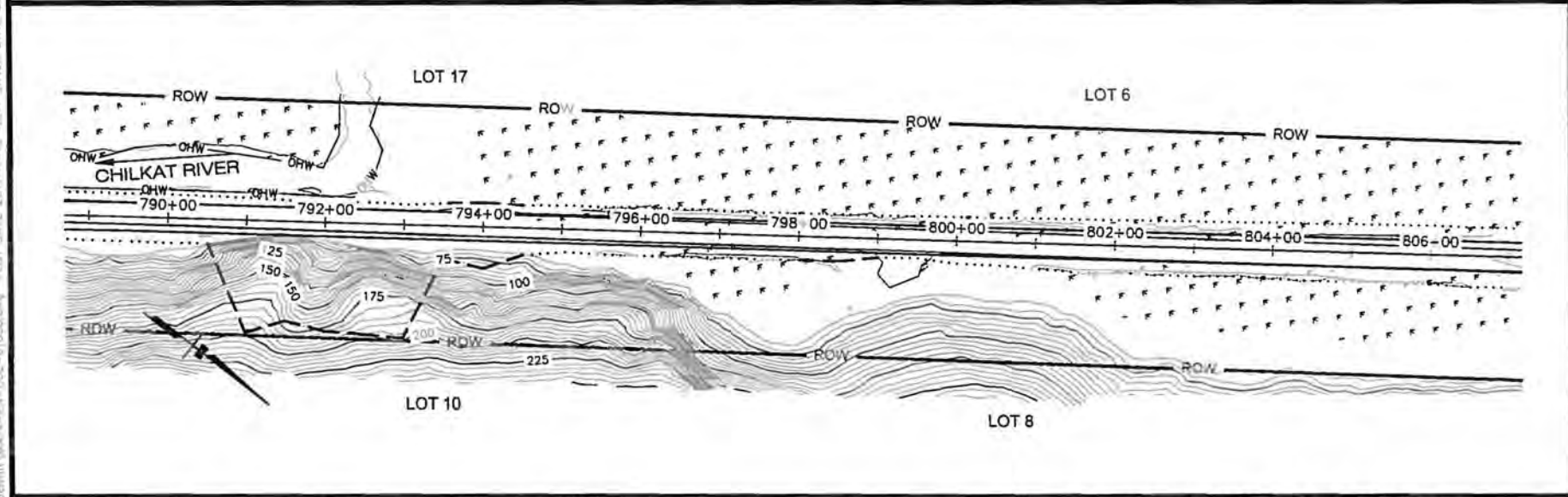
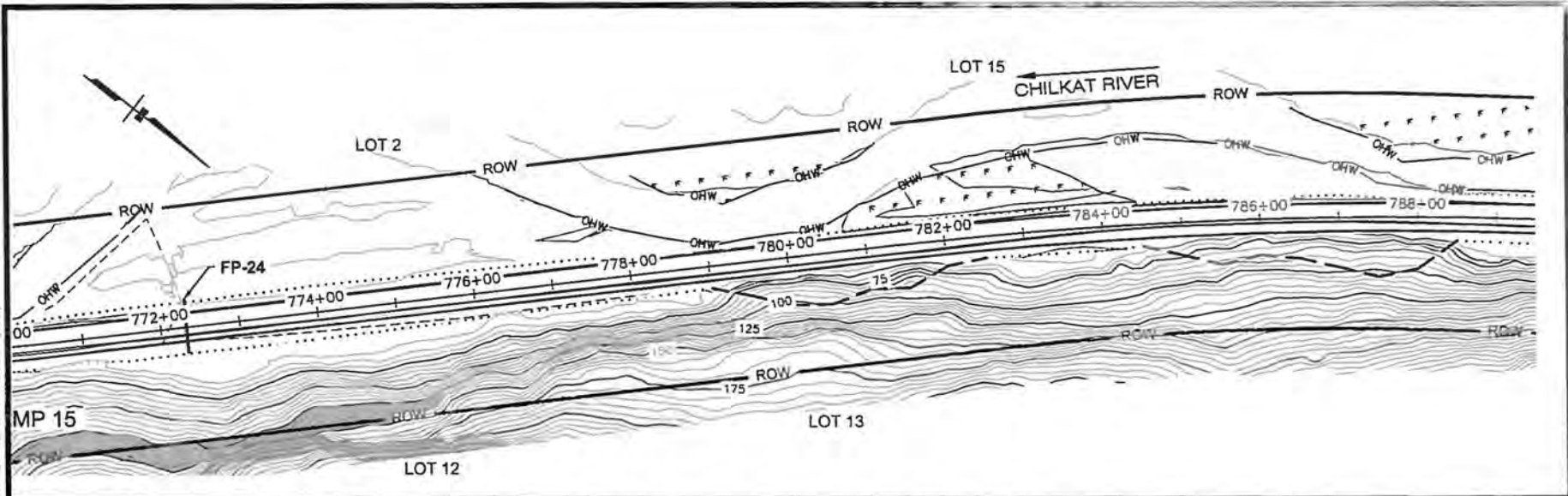
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LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 18 OF 41

2: 0 1/4 2/16 2017 10 11 5:40:30 AM 2017-10-11 5:40:30 AM

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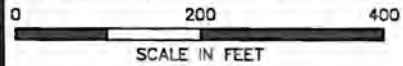
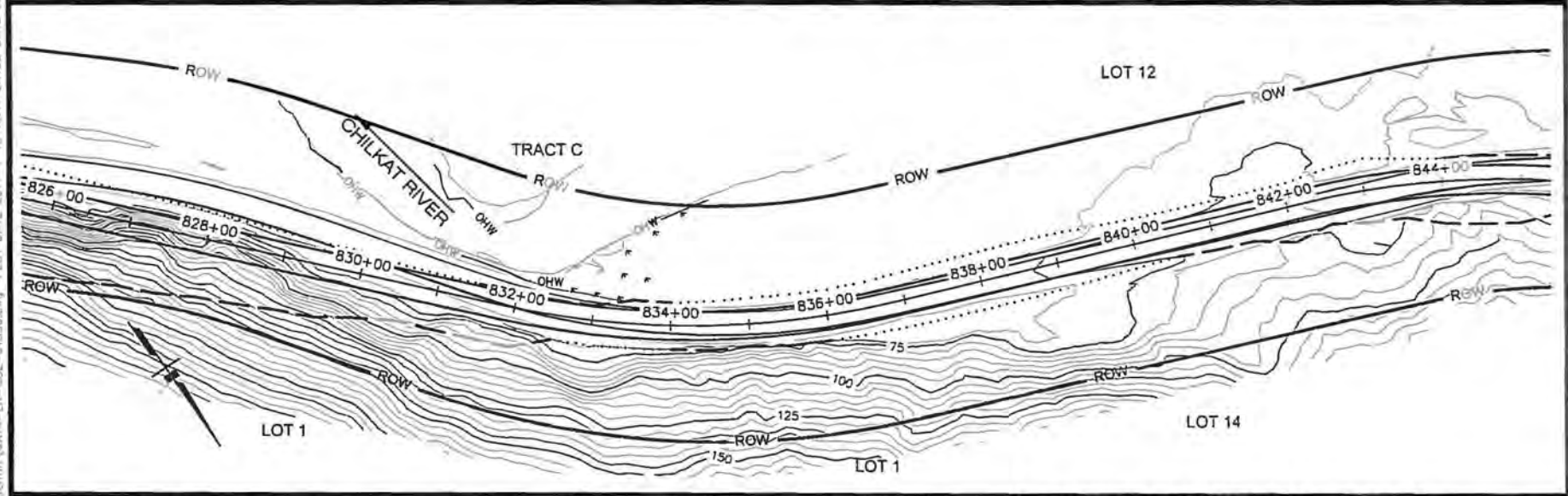
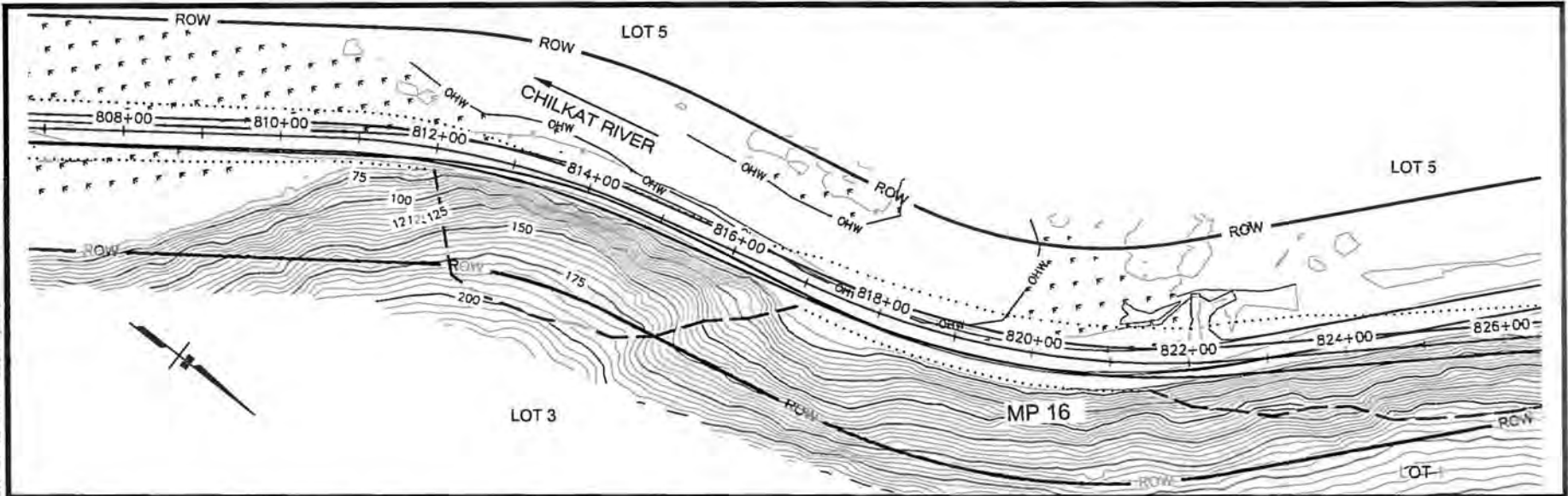
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017

SHEET 19 OF 41

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WATER BODIES
CHILKAT RIVER

SEE ATTACHED
PROPERTY
OWNERS LIST

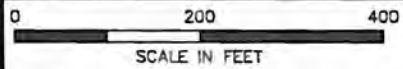
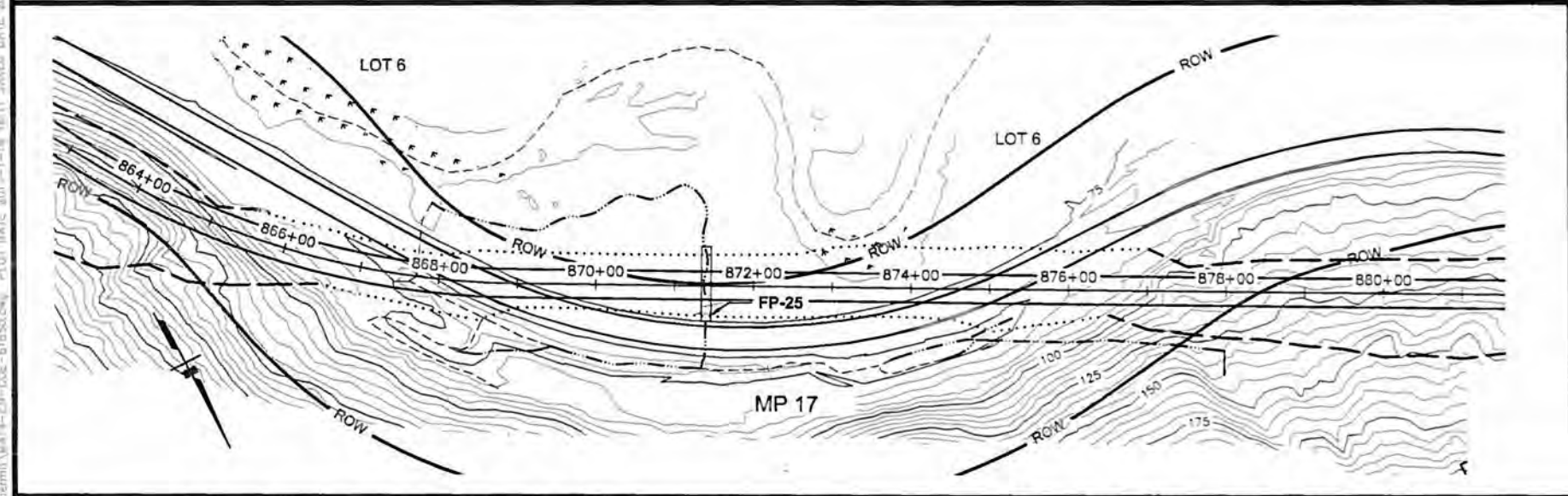
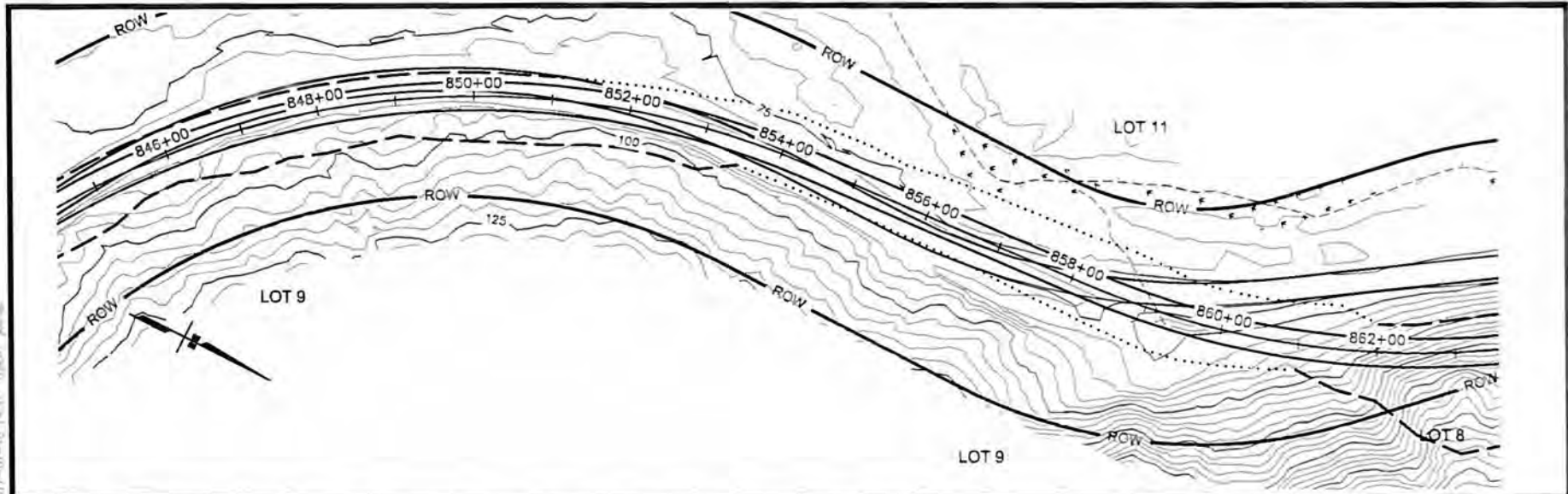
PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 26-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017



WATER BODIES:
CHILKAT RIVER

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POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

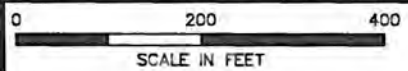
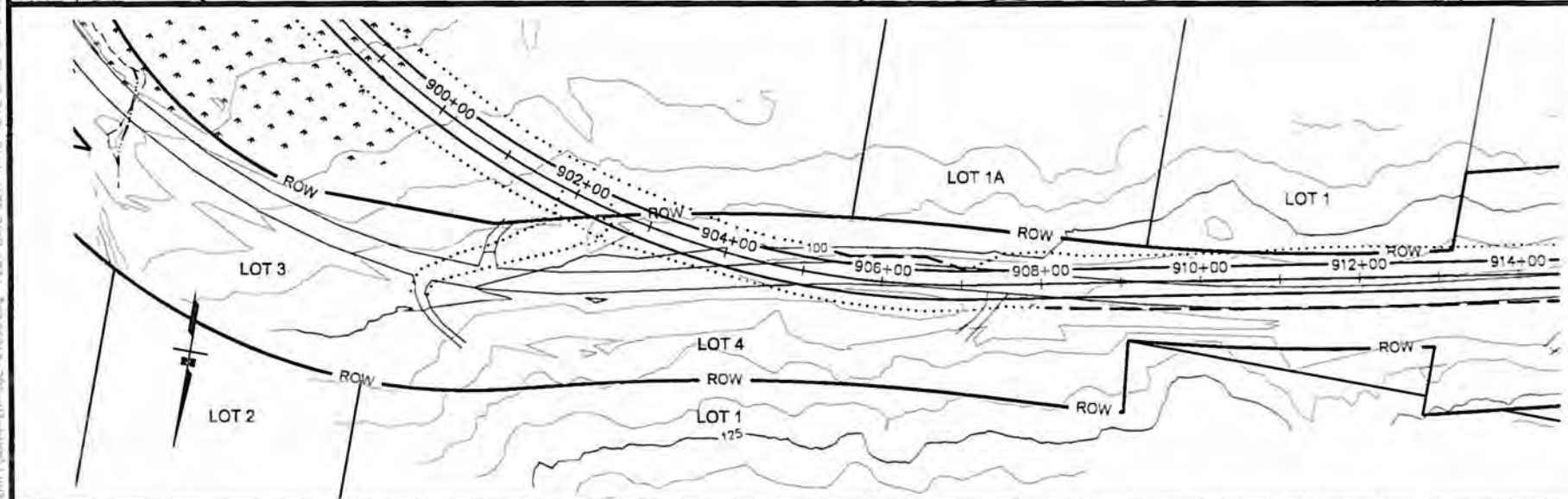
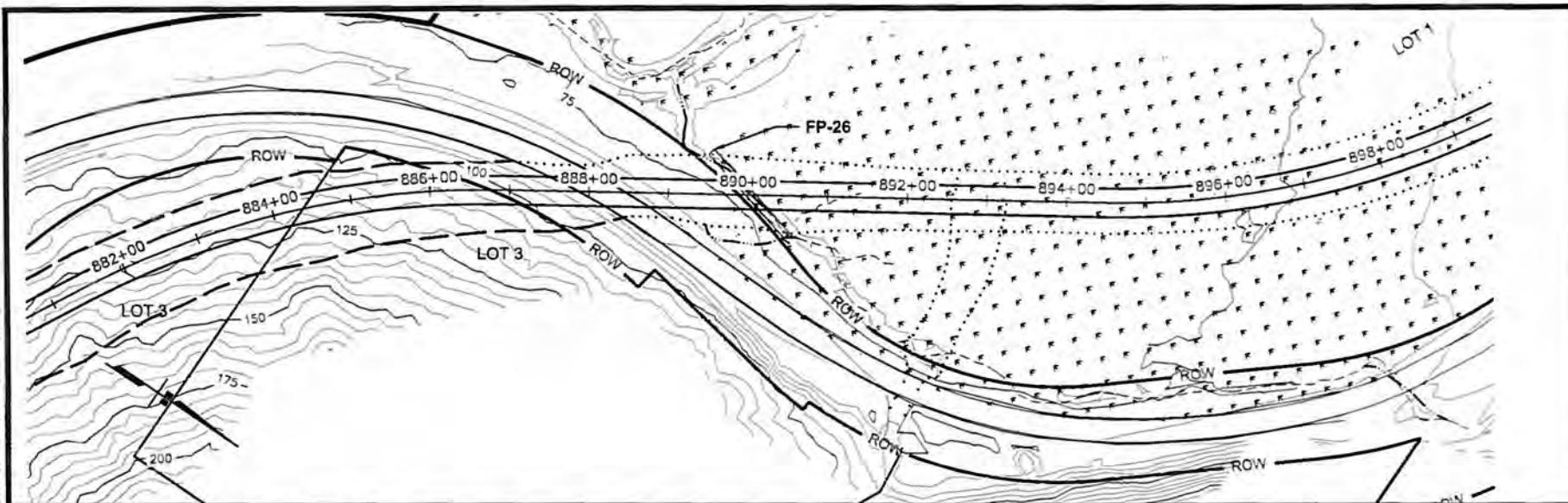
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

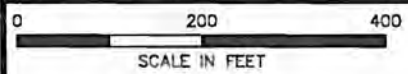
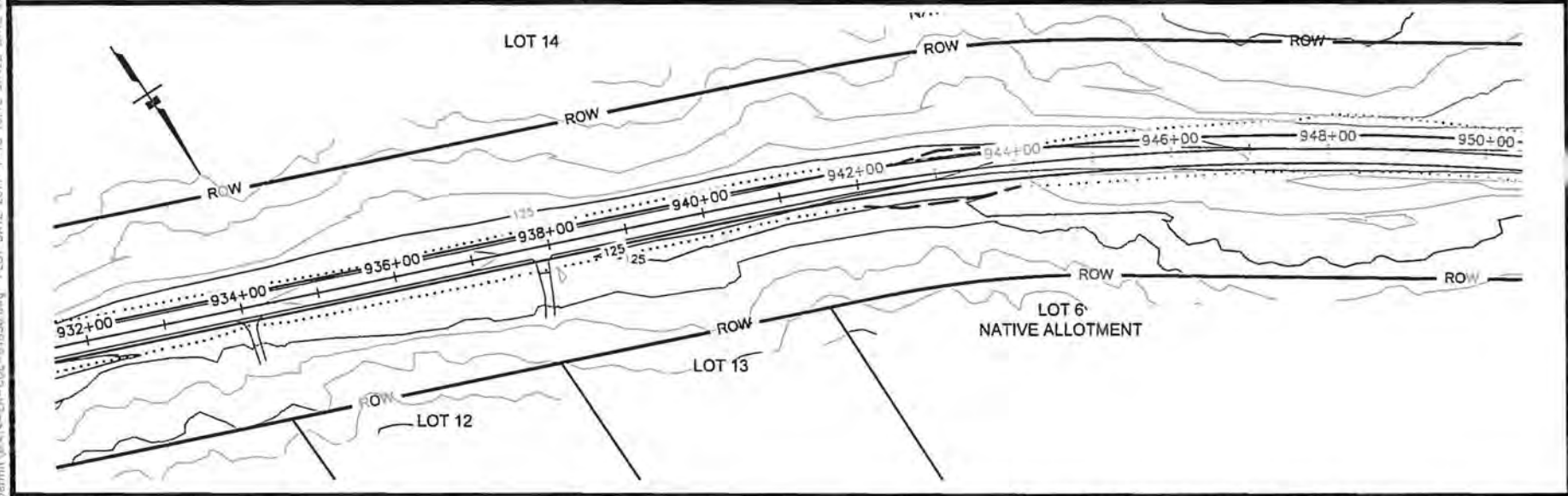
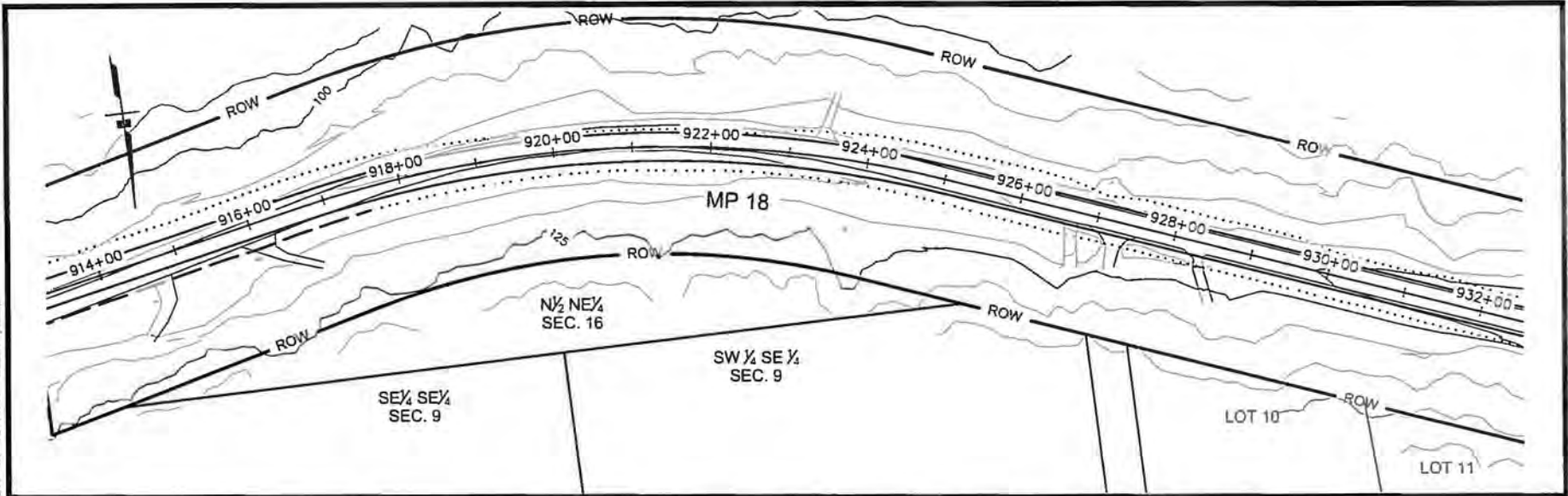
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

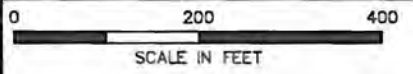
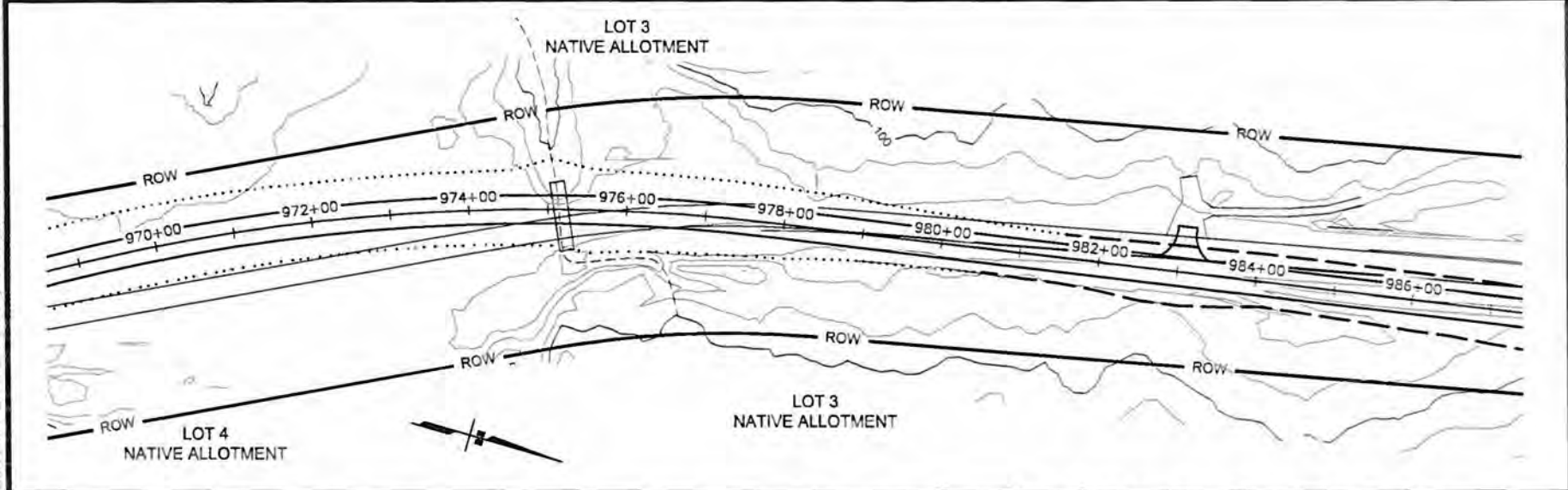
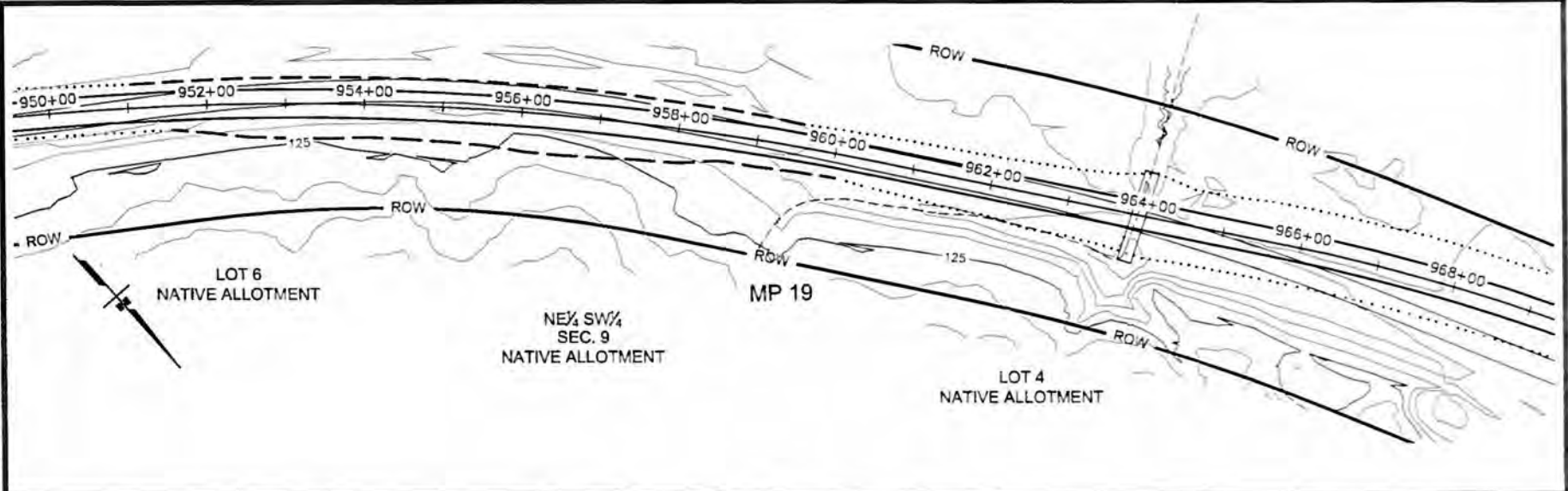
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 58-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET **23** OF **41**

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WATER BODIES:
CHILKAT RIVER

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PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

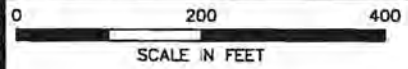
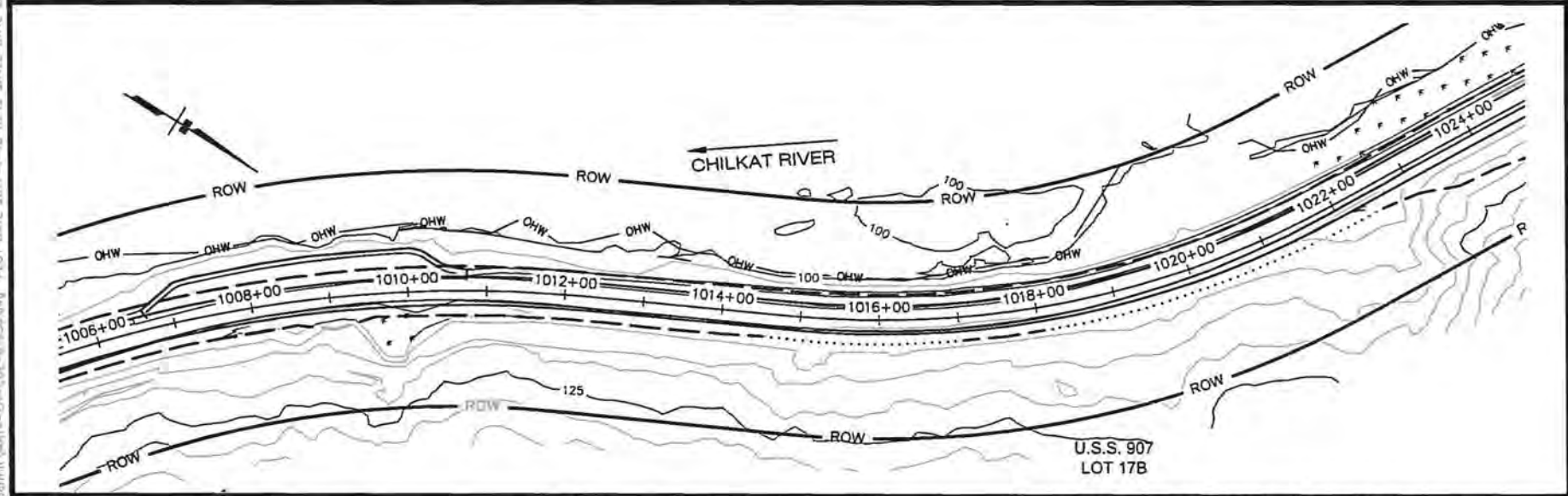
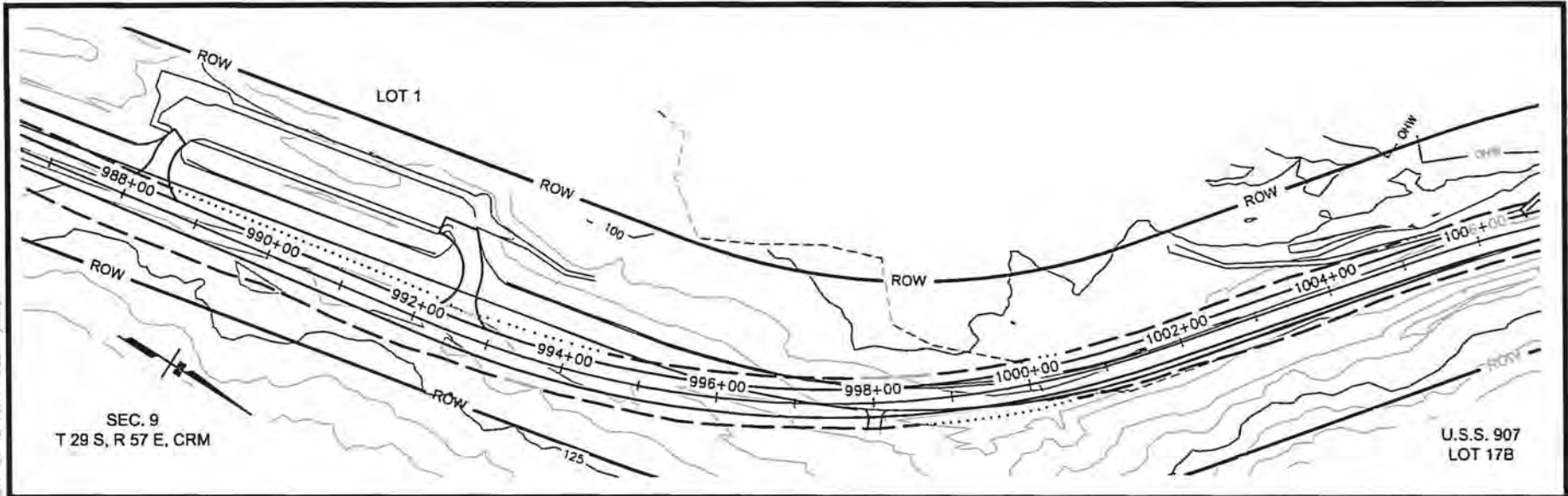
HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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OWNERS LIST

PROJECT PLANS

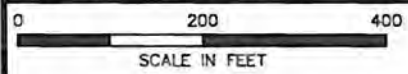
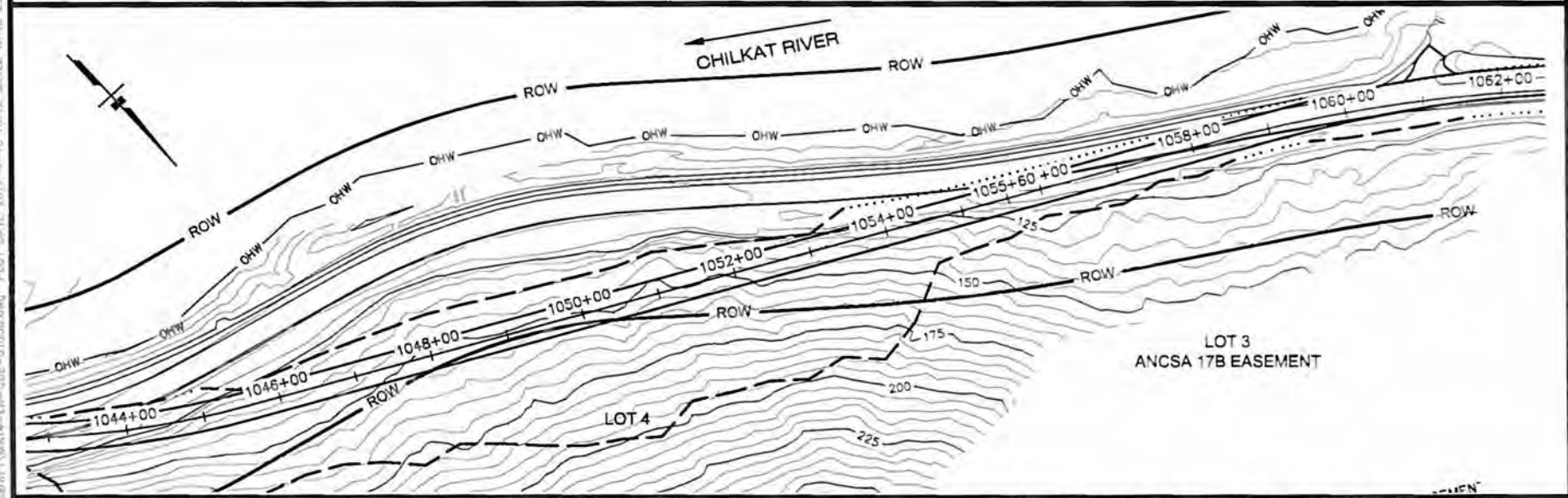
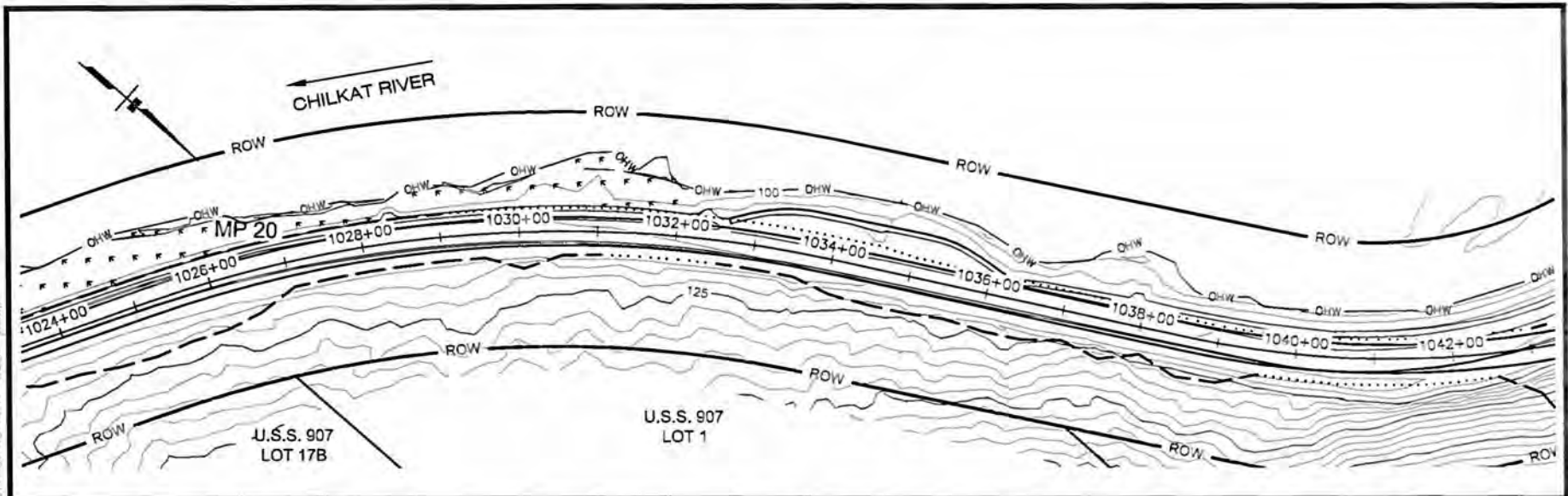
POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

SEE ATTACHED
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OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

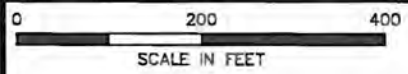
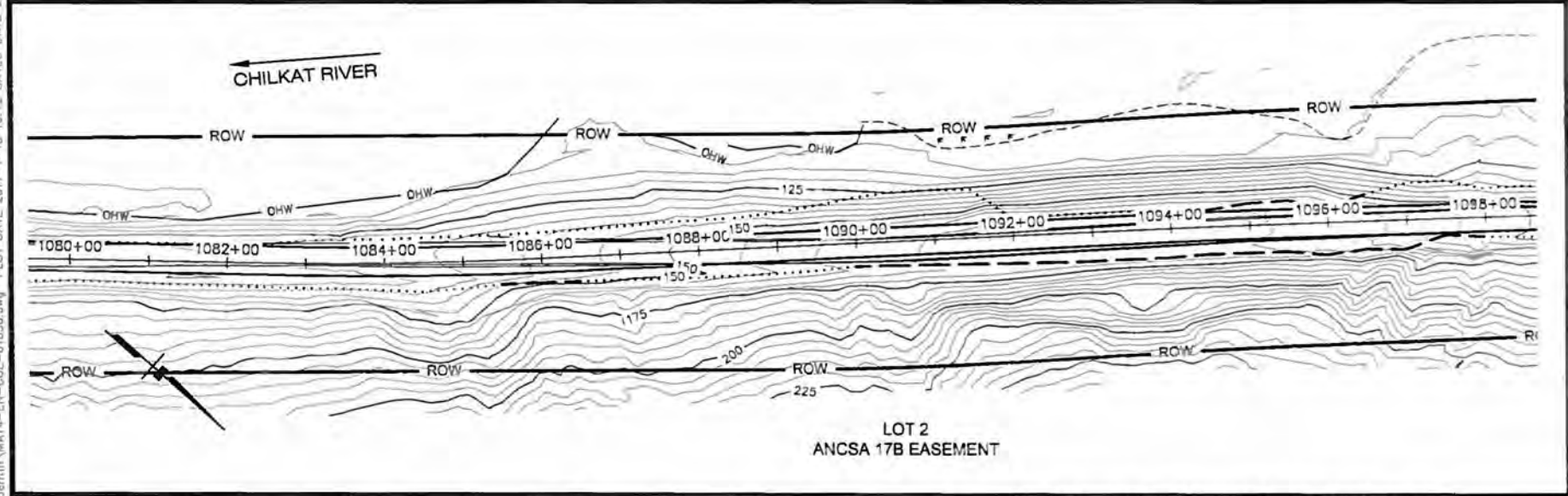
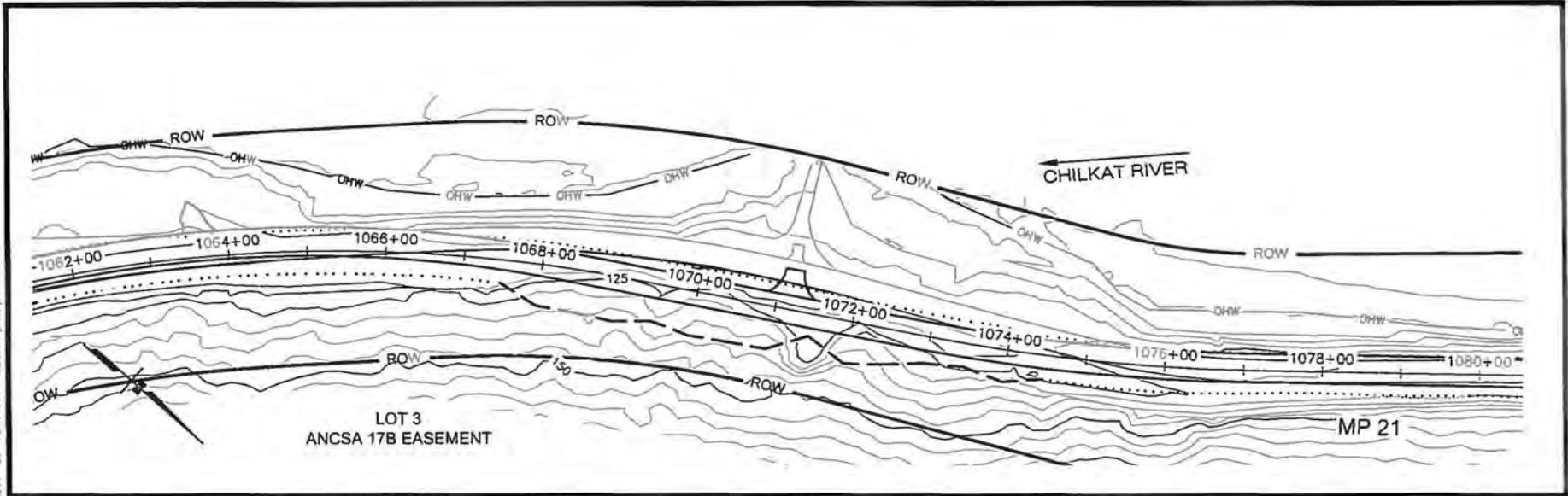
HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 26 OF 41

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WATER BODIES:
CHILKAT RIVER

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PROPERTY
OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

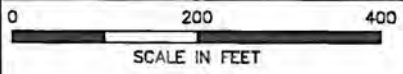
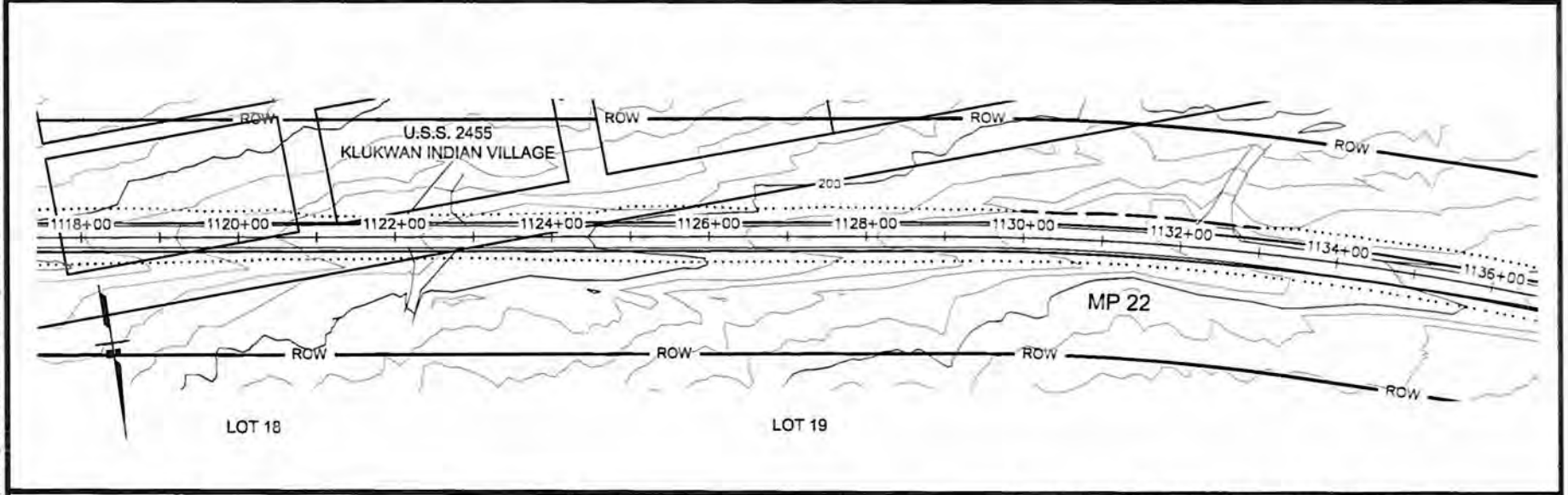
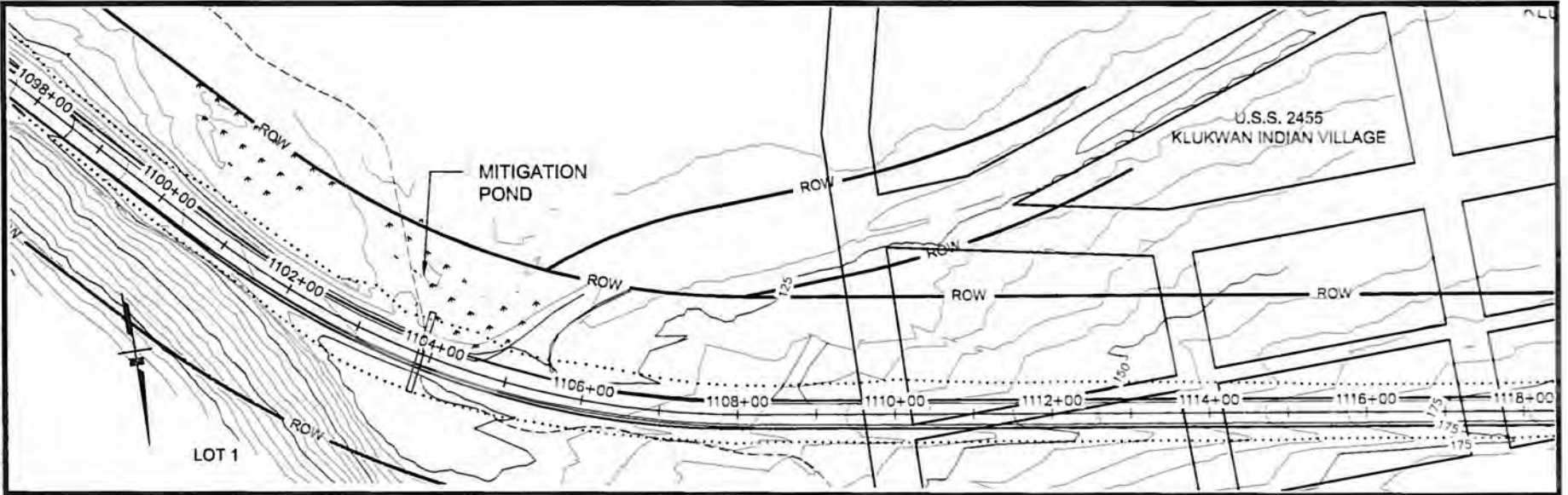
**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-58 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET **27** OF **41**

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WATER BODIES:
CHILKAT RIVER

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OWNERS LIST

PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

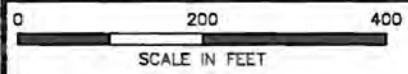
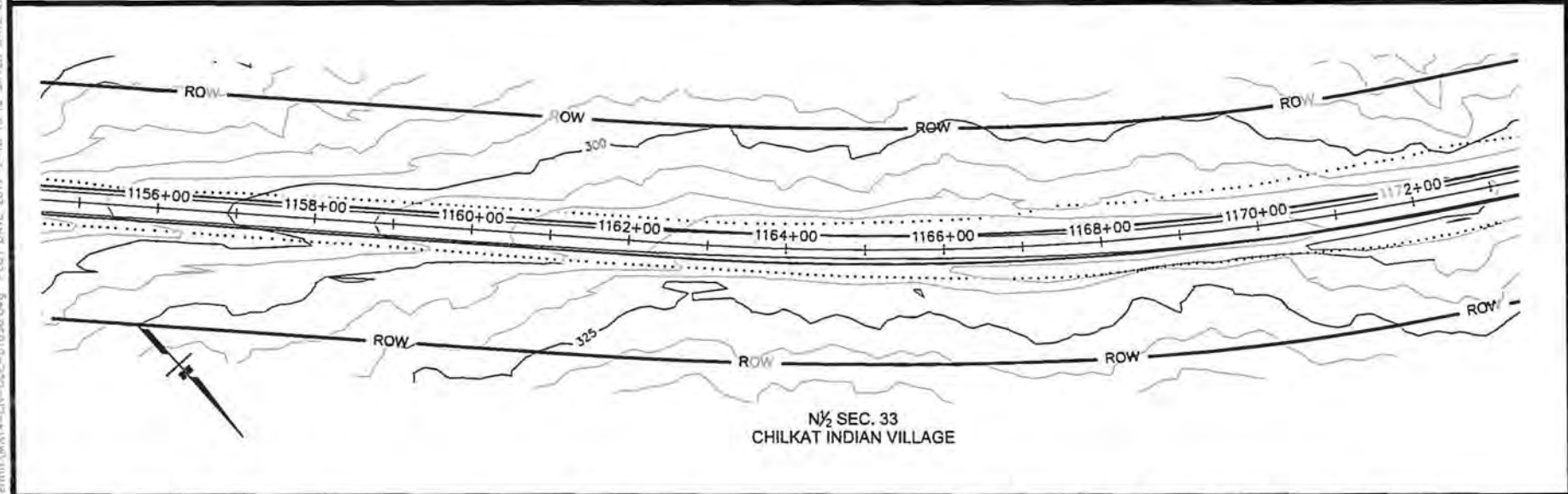
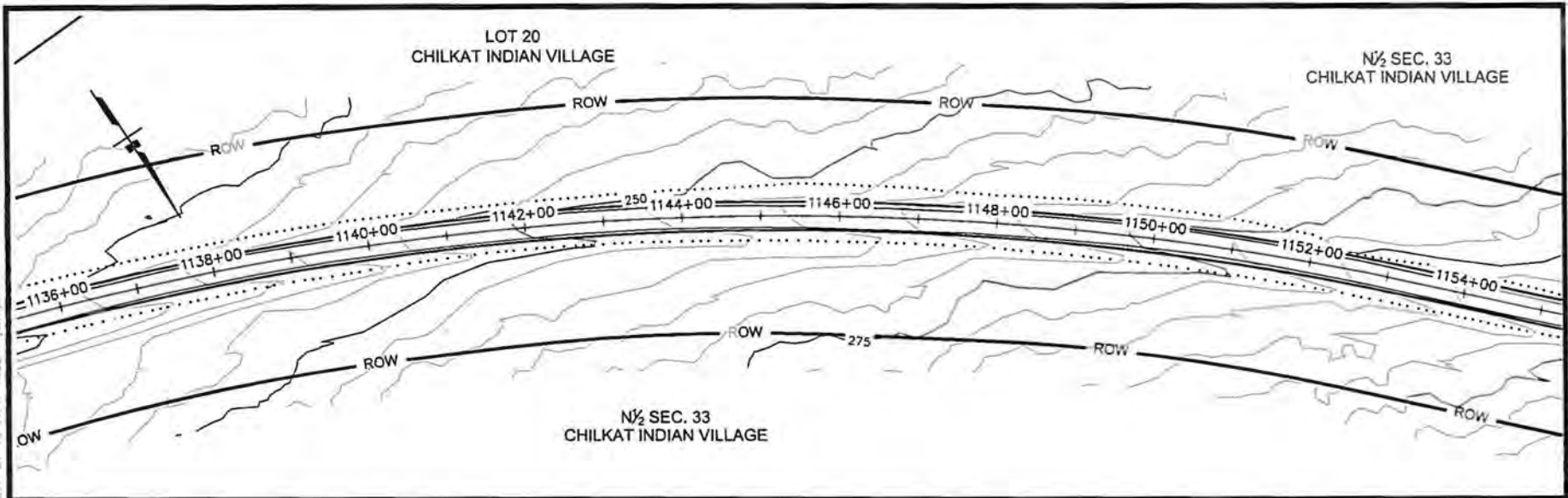
HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 28 OF 41

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WATER BODIES:
CHILKAT RIVER

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OWNERS LIST

PROJECT PLANS

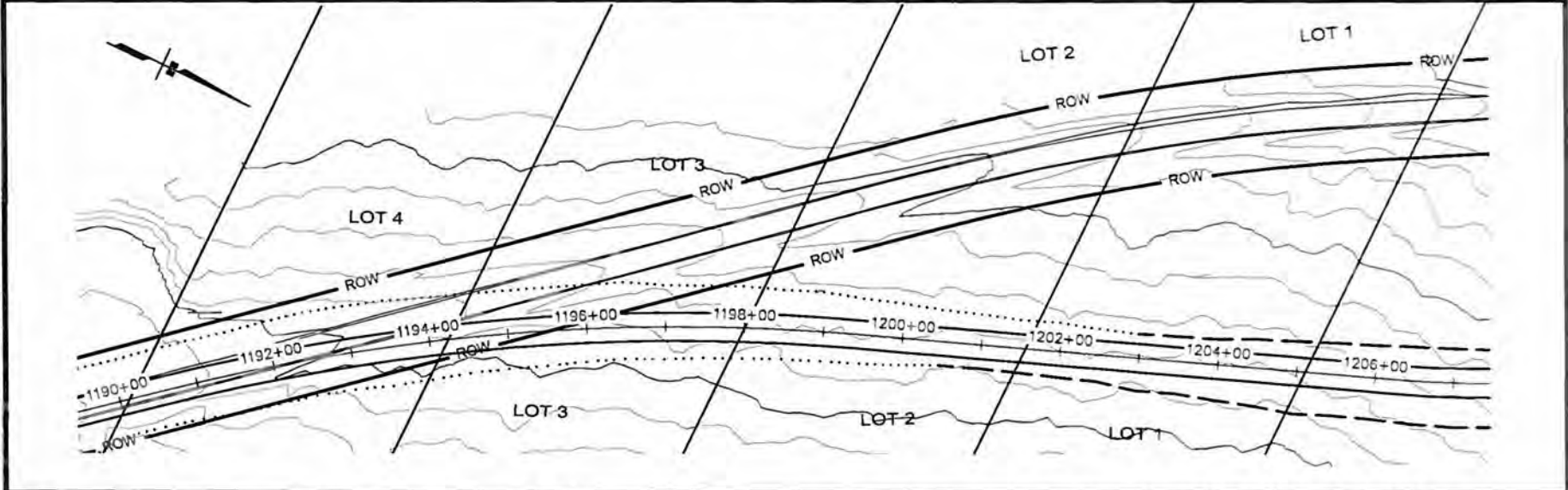
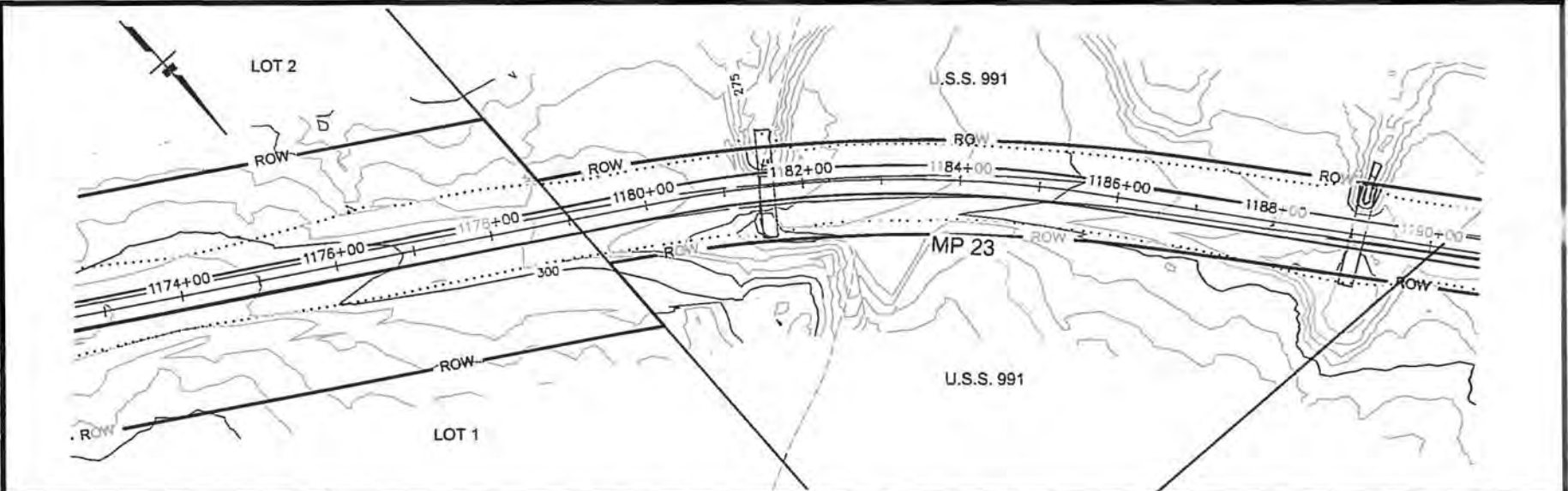
POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017

I:\Projects\68606\Drawings\MP23\MP23.dwg DATE: 01/18/17 USER: JMW DATE: 2017-01-18 14:31:02



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 SCALE IN FEET

WATER BODIES:
 CHILKAT RIVER

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POA 1992-515
 APPLICATION BY:
 ALASKA STATE DEPT. OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHCOAST REGION

HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

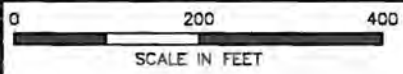
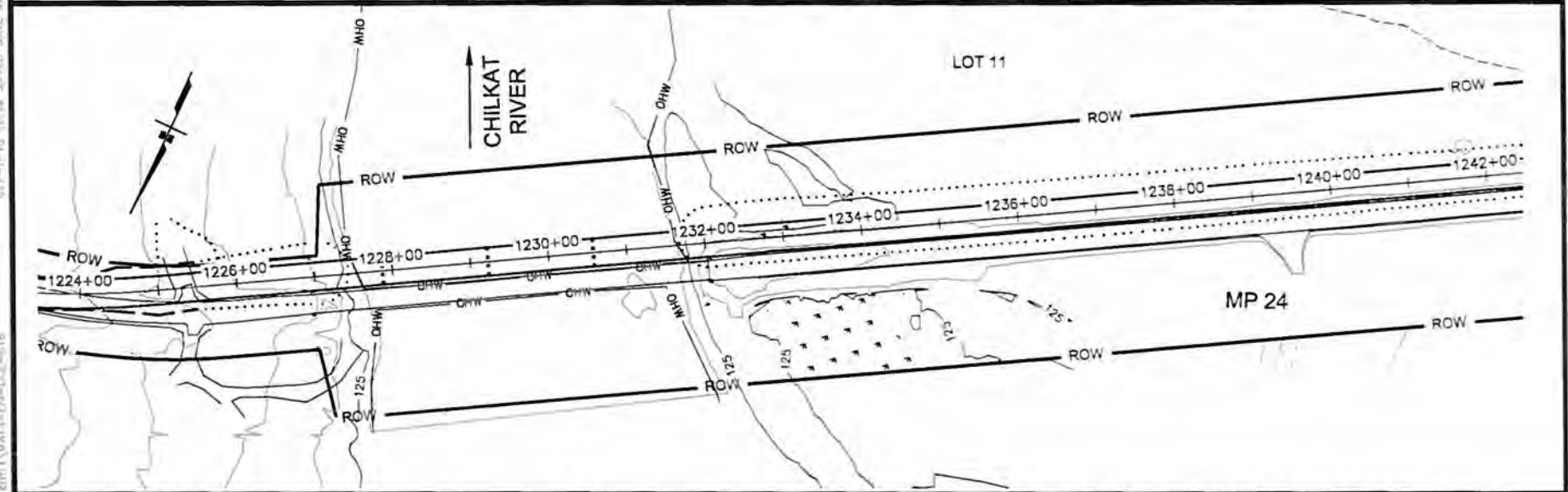
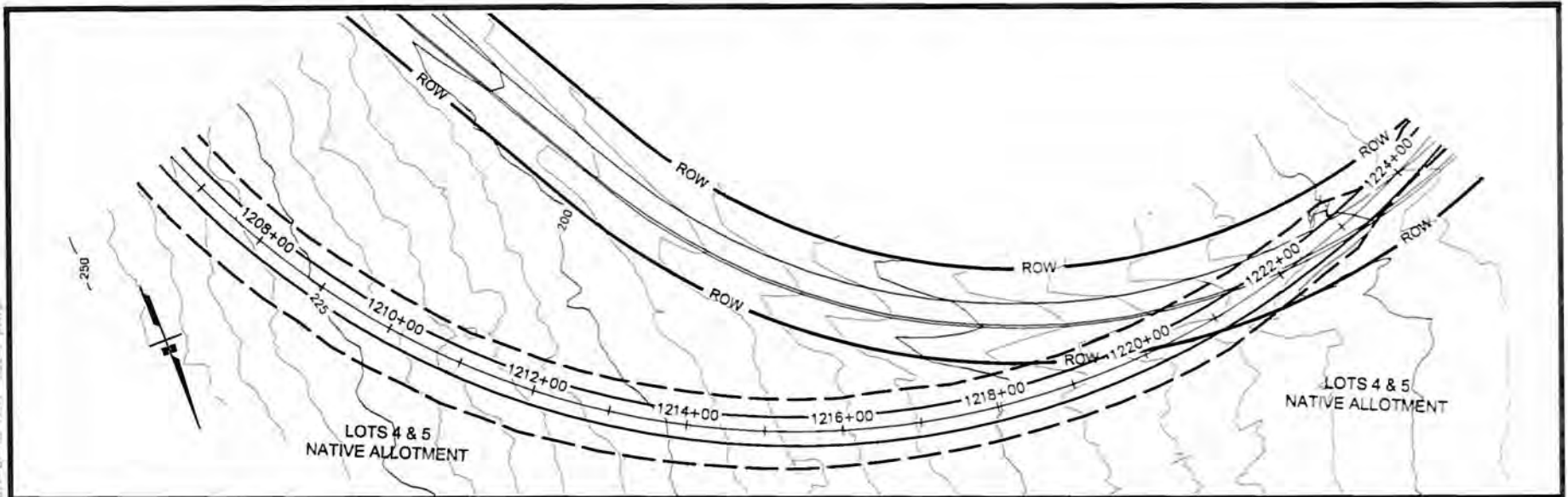
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
 RANGE 56-59 EAST, C.R.M.
 LATITUDE N 59° 35' 12"
 LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017

SHEET **30** OF **41**

617-1118 (6/13) SAVEO DATE: 2012-01-18 14:11 JUSEU: AK009
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WATER BODIES:
CHILKAT RIVER

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POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606

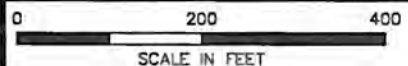
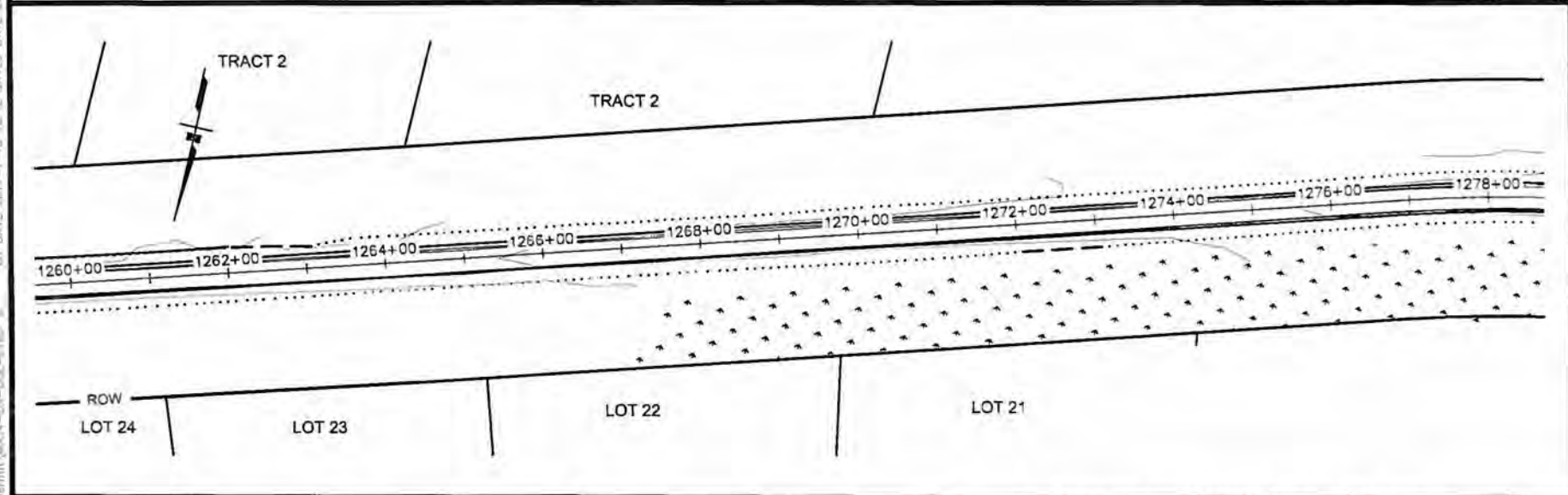
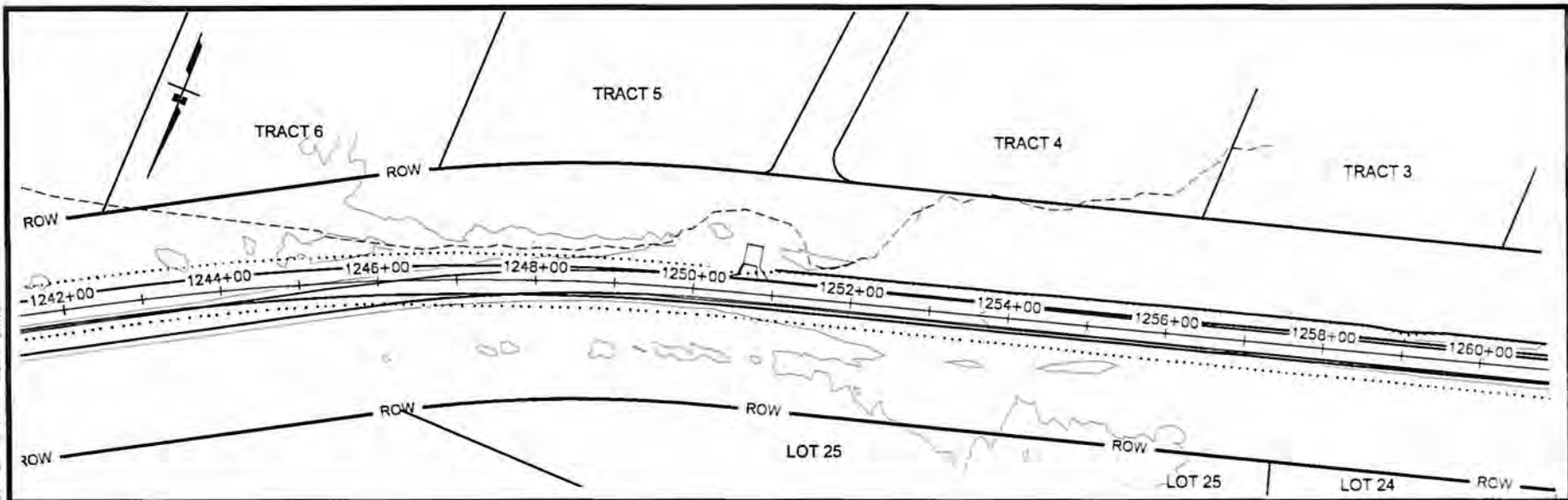
AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH
RANGE 56-59 EAST, C.P.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 31 OF 41

S:\4\B\0810150 - HAINES\CONTRACT\PERMIT\PLAN\02-1118.DWG DATE: 2017-01-10 14:11 J298. Arns



WATER BODIES:
CHILKAT RIVER

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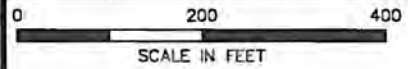
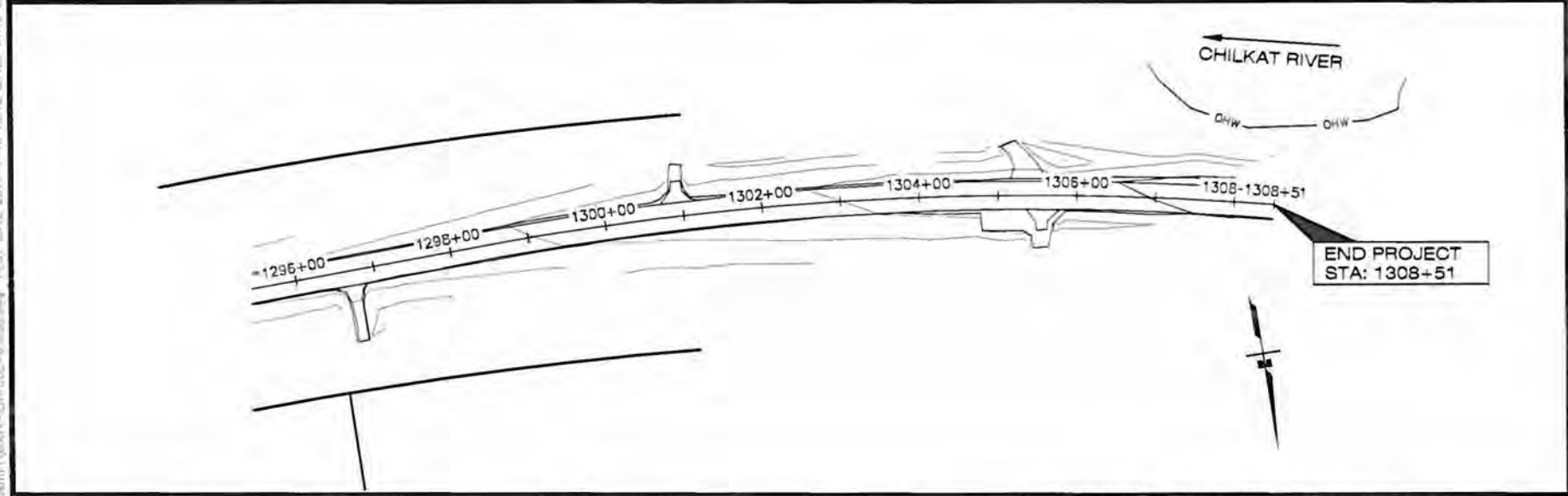
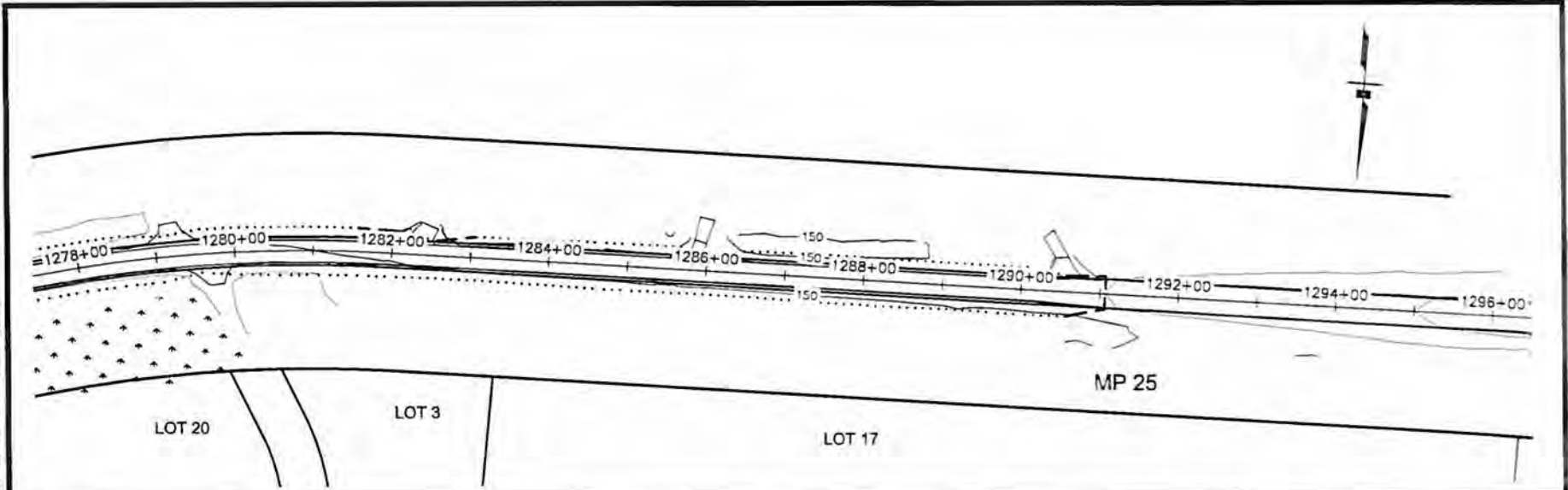
PROJECT PLANS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE, N 59° 35' 12"
LONGITUDE, W 135° 11' 52"
DATE: JANUARY 2017

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WATER BODIES:
CHILKAT RIVER

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POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

**HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606**

AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017

SHEET **33** OF **41**

TABLE 1: PROPOSED FISH PIPE CULVERT IMPROVEMENTS

| FISH PIPE | SHEET NUMBER | PROPOSED CL STATION | ADFG CATALOG No. | EXISTING CONDITION | PLANNED IMPROVEMENT | RIVER LENGTH | RIVER AREA |
|--------------|--------------|---------------------|-----------------------------|--------------------------|--|--------------|--------------|
| FP-1 | 21 | 223+56 | 115-32-10250-2004 | 48" CMP | Tier 1; 95"x67" Aluminium Pipe Arch | 90 | 810 |
| FP-2 | 21 | 230+23 | 115-32-10250-2006 | 24" CMP | Tier 1; 60" CMP | 79 | 158 |
| FP-3 | 21 | 241+41 | 115-32-10250-2006-3003 | 24" CMP | Tier 1; 60" CMP | 62 | 1364 |
| FP-4 | 21 | 246+31 | 115-32-10250-2008-3004 | 36" CMP | Tier 1; 60" CMP | 73 | 182.5 |
| FP-5 | 21 | 249+46 | 115-32-10250-2006 | 24" CMP | Tier 1; 60" CMP | 66 | 297 |
| FP-7 | 23 | 315+75 | Un-cataloged Stream | 24" CMP | Tier 1; 60" CMP | 60 | 120 |
| FP-8 | 23 | 320+19 | 115-32-10250-2016 | 36" CMP | Tier 1; 81"x59" Aluminium Pipe Arch | 69 | 276 |
| FP-9 | 23 | 325+84 | 115-32-10250-2020 | 48" CMP | Tier 1; 95"x67" Aluminium Pipe Arch | 81 | 324 |
| FP-10 | 24 | 350+96 | Un-cataloged Stream | 24" CMP | Tier 1; 48" CMP | 66 | 1650 |
| FP-11 | 24 | 367+49 | 115-32-10250-2022 | 24" CMP | Tier 1; 48" CMP | 65 | 260 |
| FP-12 | 25 | 383+21 | 115-32-10250-2024 | 36" CMP | Tier 1; 48" CMP | 72 | 288 |
| FP-14 | 28 | 484+78 | 115-32-10250-2028 | 24" CMP | Tier 1; 95"x67" Aluminium Pipe Arch | 77 | 519.75 |
| FP-15 | 28 | 513+82 | 115-32-10250-2030-3002 | 24" and 36" CMPs | Tier 1; 151"x89" Aluminium Pipe Arch | 72 | 720 |
| FP-16 | 29 | 532+24 | 115-32-10250-2030 | 24" CMP | Tier 1; 60" CMP | 76 | 380 |
| FP-17 | 30 | 590+76 | 115-32-10250-2032 | Two 24" CMPs | Tier 1; 72" CMP | 63 | 378 |
| FP-18 | 32 | 648+78 | 115-32-10250-2040 | Two 36" CMPs | Tier 1; 8'-10" by 6'-1" arch pipe | 69 | 483 |
| FP-19 | 32 | 654+22 | 115-32-10250-2040 | None | Tier 1; 8'-10" by 6'-1" arch pipe | 58 | 406 |
| FP-20 | 32 | 656+91 | 115-32-10250-2042 | 24" CMP | Tier 1 or Tier 2; design to be completed | 67 | 134 |
| FP-21 | 34 | 712+00 | 115-32-10250-2044 | Two 36" CMPs | Tier 1; 12'-7" by 8'-4" arch pipe | 119 | 1249.5 |
| FP-22 | 35 | 738+37 | 115-32-10250-2046 | 24" CMP | Tier 1; 7'-3" by 5'-3" arch pipe | 56 | 336 |
| FP-23 | 35 | 768+65 | Un-cataloged Stream | 36" CMP | Tier 1; 3.5' diameter CMP | 56 | 168 |
| FP-24 | 36 | 772+32 | 11-32-10250-2050 | 24" CMP | Tier 1 or Tier 2; design to be completed | 66 | 132 |
| FP-25 | 38 | 871+28 | 115-32-10250-2060-3012-4001 | 6' 1" by 4' 7" Arch Pipe | Tier 1; 11'-7" by 7'-5" arch pipe | 85 | 807.5 |
| FP-26 | 39 | 889+47 | 115-32-10250-3011 | Two 36" CMPs | Tier 1; 9'-4" by 6'-3" arch pipe | 129 | 967.5 |
| FP-33 | 21 | 232+95 | 115-32-10250-2006 | 24" CMP | Tier 1; 60" CMP | 54 | 270 |
| FP-34 | 21 | 245+78 | 115-32-10250-2006 | 24" CMP | Tier 1; 60" CMP | 27 | 135 |
| TOTAL | | | | | | 1857 | 12816 |

SUMMARY TABLE

WATER BODIES:
CHILKAT RIVER

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

AT: HAINES, ALASKA

LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M.
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017

SHEET 34 OF 41

**TABLE 2: WETLAND IMPACTS
PHASE 1 (MP 3.5-12)**

| IMPACT TYPE | TOTAL AREA (Sq.Ft.) | ACRES (ac) | TOTAL FILL VOLUME (Cu. Yd.) |
|-------------|---------------------|------------|-----------------------------|
| PEM1B | 96,953.4 | 2.2 | 11,622.0 |
| PEM1H | 261,176.1 | 6.0 | 28,718.6 |
| PFO1C | 30,752.6 | 0.7 | 3,160.0 |
| PSS1B | 0.0 | 0.0 | 0.0 |
| PSS1E | 11,611.9 | 0.3 | 883.8 |
| PSS1H | 302,381.6 | 6.9 | 40,786.2 |
| Total | 702,875.6 | 16.2 | 85,170.6 |

**TABLE 3: WATERS OF THE US IMPACTS
PHASE 1 (MP 3.5-12)**

| IMPACT TYPE | TOTAL AREA (Sq.Ft.) | ACRES (ac) | TOTAL FILL VOLUME (Cu. Yd.) |
|---------------|---------------------|------------|-----------------------------|
| STREAM (R3OW) | 12,387.4 | 0.3 | 1,493.3 |
| R3OW | 120,767.7 | 2.8 | 20,622.8 |
| Total | 133,155.1 | 3.1 | 22,114.0 |

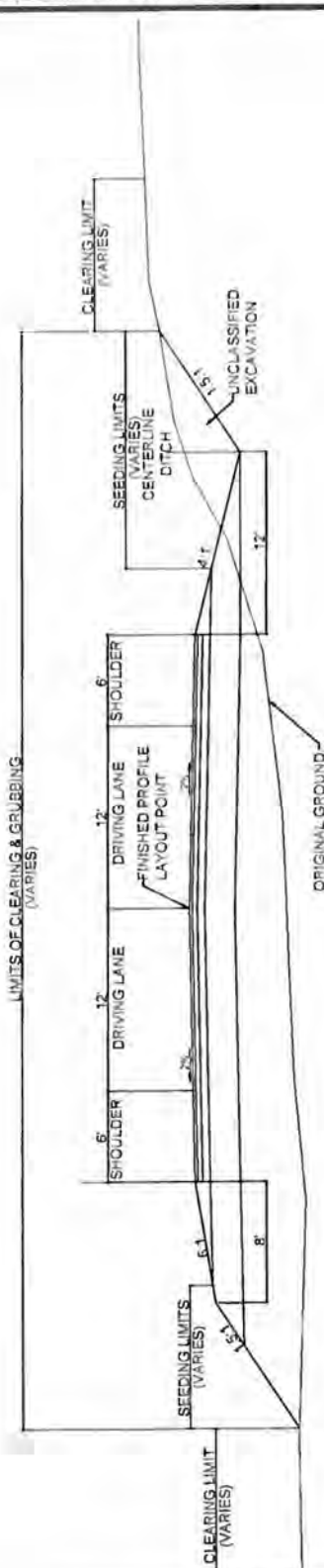
**TABLE 4: WETLAND IMPACTS
PHASE 2 & 3 (MP 13-25.3)**

| IMPACT TYPE | TOTAL AREA (Sq. Ft.) | ACRES (ac) | TOTAL FILL VOLUME (Cu. Yd.) |
|-------------|----------------------|------------|-----------------------------|
| PEM1B | 36,212.2 | 0.8 | 8885.2 |
| PEM1H | 103,533.8 | 2.4 | 10545.1 |
| PFO1C | 27,287.0 | 0.6 | 2158.8 |
| PSS1B | 290.2 | 0.0 | 7.7 |
| PSS1E | 61,701.4 | 1.4 | 21688.7 |
| PSS1H | 23,755.1 | 0.5 | 2779.9 |
| Total | 252,779.7 | 5.8 | 46,065.4 |

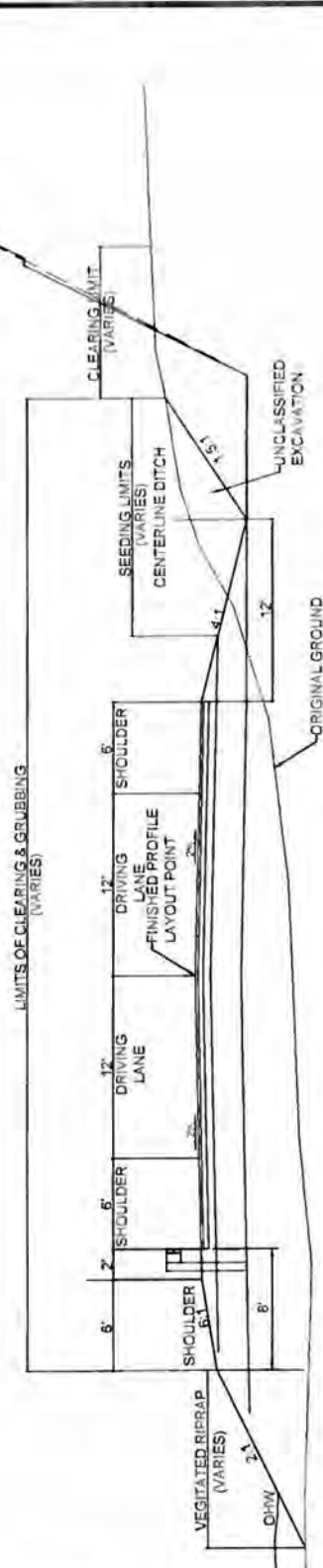
**TABLE 5: WATERS OF THE US IMPACTS
PHASE 2 & 3 (MP 13-25.3)**

| IMPACT TYPE | TOTAL AREA (Sq. Ft.) | ACRES (ac) | TOTAL FILL VOLUME (Cu. Yd.) |
|---------------|----------------------|------------|-----------------------------|
| STREAM (R3OW) | 8,742.0 | 0.2 | 2,178.1 |
| R3OW | 32,154.2 | 0.7 | 4,703.8 |
| Total | 40,896.2 | 0.9 | 6,881.9 |

| | | |
|--|--|--|
| <p>WATER BODIES: CHILKAT RIVER</p> | <p>SUMMARY TABLE</p> | <p>HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606</p> |
| | <p>POA 1992-515 APPLICATION BY: ALASKA STATE DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOAST REGION</p> | <p>AT: HAINES, ALASKA LOCATED IN: TOWNSHIP 28-30 SOUTH, RANGE 56-59 EAST, C.R.M. LATITUDE: N 59° 35' 12" LONGITUDE: W 135° 11' 52" DATE: JANUARY 2017 SHEET 35 OF 41</p> |



TYPICAL SECTION FOR ROADWAY REALIGNMENT



TYPICAL SECTION WITH GUARDRAIL ALONG CHILKAT RIVER AND ROCK CUT

WATER BODIES:
CHILKAT RIVER

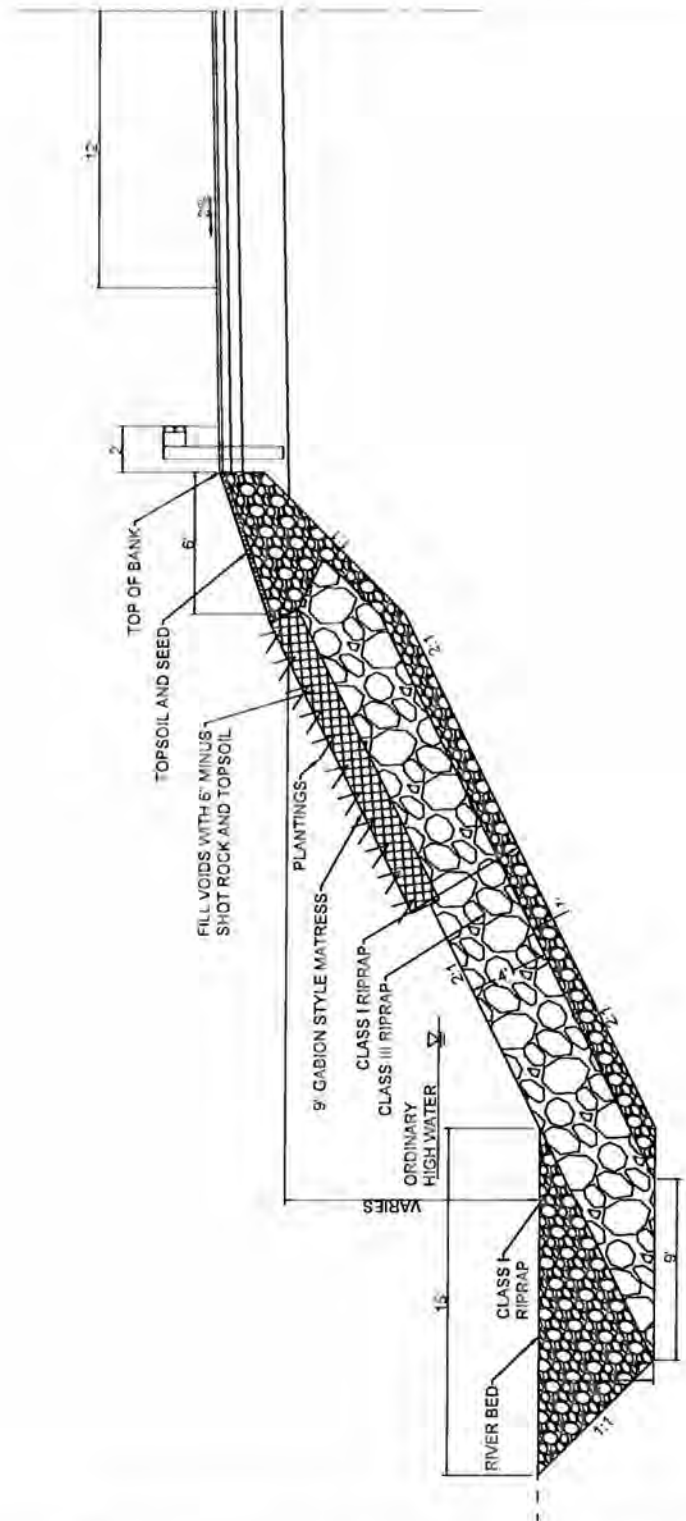
PROJECT TYPICAL SECTIONS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C. R. M.
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017 SHEET 36 OF 41



RIPRAP TYPICAL SECTION WITH GUARDRAIL ALONG CHILKAT RIVER

WATER BODIES:
CHILKAT RIVER

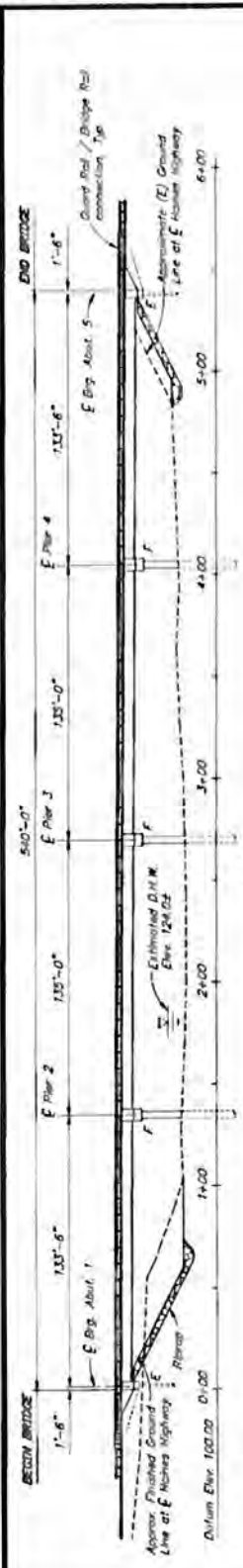
PROJECT TYPICAL SECTIONS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

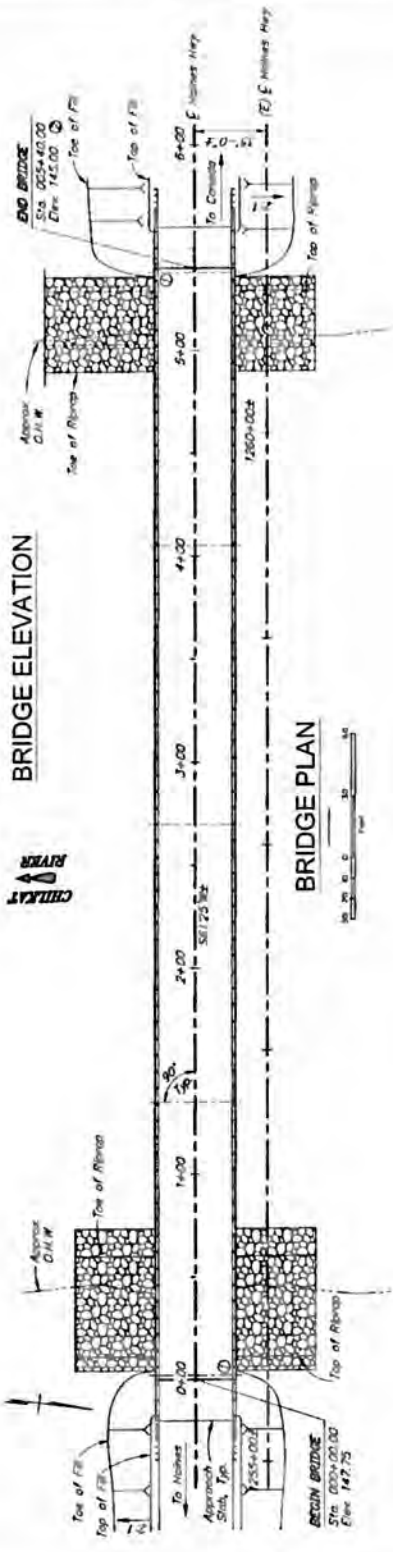
AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M
LATITUDE: N 59° 35' 12"
LONGITUDE: W 135° 11' 52"

DATE: JANUARY 2017 SHEET 37 OF 41

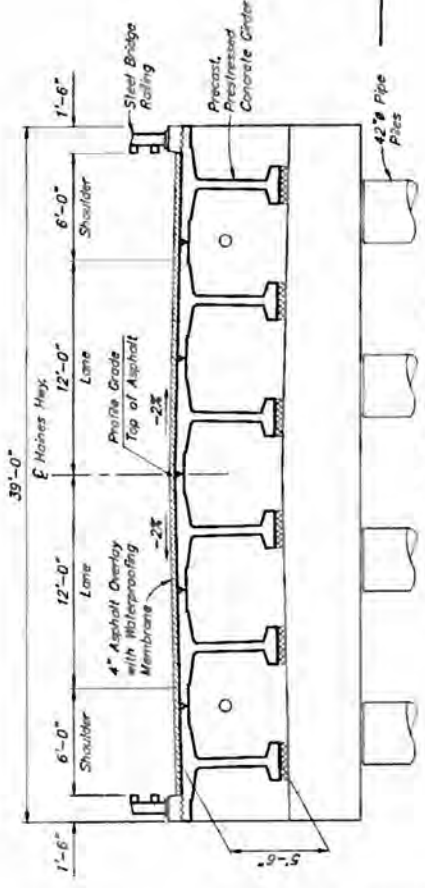


CHILKAT RIVER

BRIDGE ELEVATION



BRIDGE PLAN



BRIDGE TYPICAL SECTION



PROFILE GRADE DATA
No. 6000

WATER BODIES:
CHILKAT RIVER

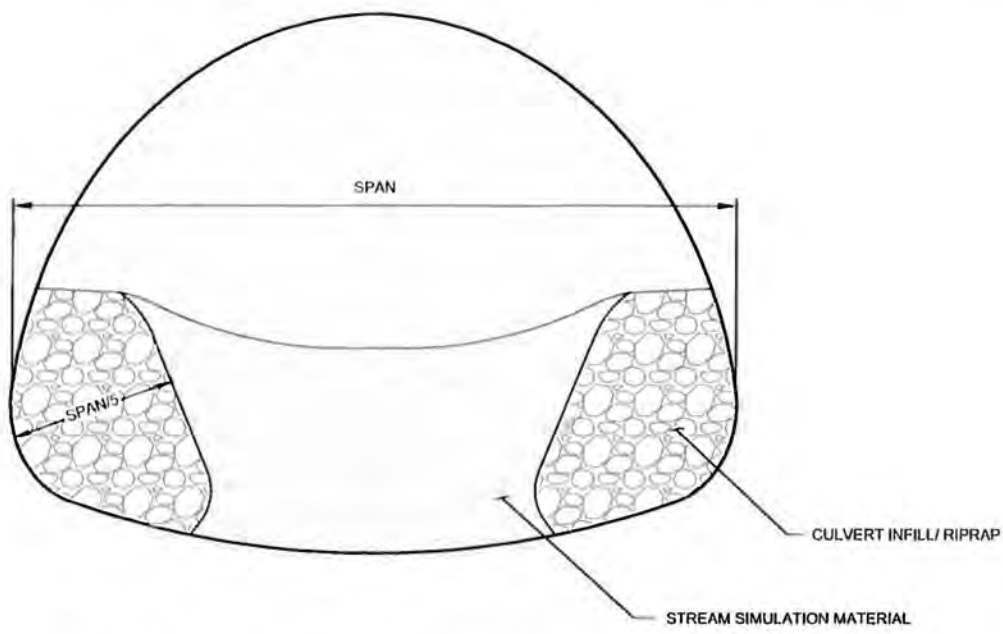
PROJECT TYPICAL SECTIONS

POA 1992-515
APPLICATION BY:
ALASKA STATE DEPT. OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOST REGION

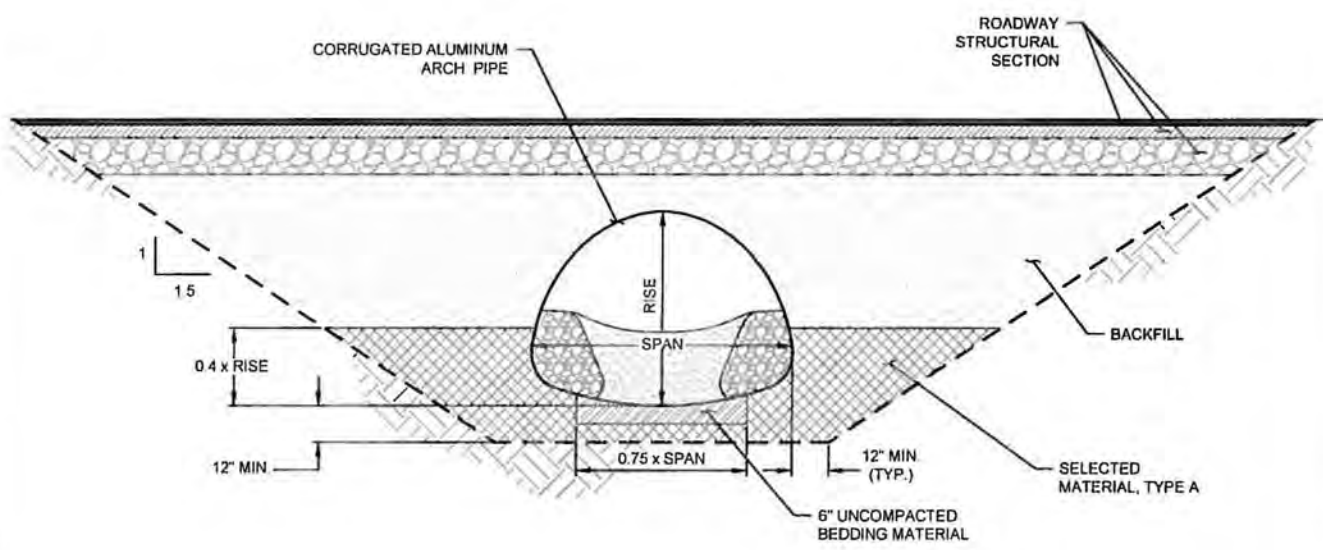
HAINES HIGHWAY IMPROVEMENTS
PROJECT NO. 68606

AT: HAINES, ALASKA
LOCATED IN: TOWNSHIP 28-30 SOUTH,
RANGE 56-59 EAST, C.R.M
LATITUDE N 59° 35' 12"
LONGITUDE W 135° 11' 52"

DATE: JANUARY 2017 SHEET 38 OF 41

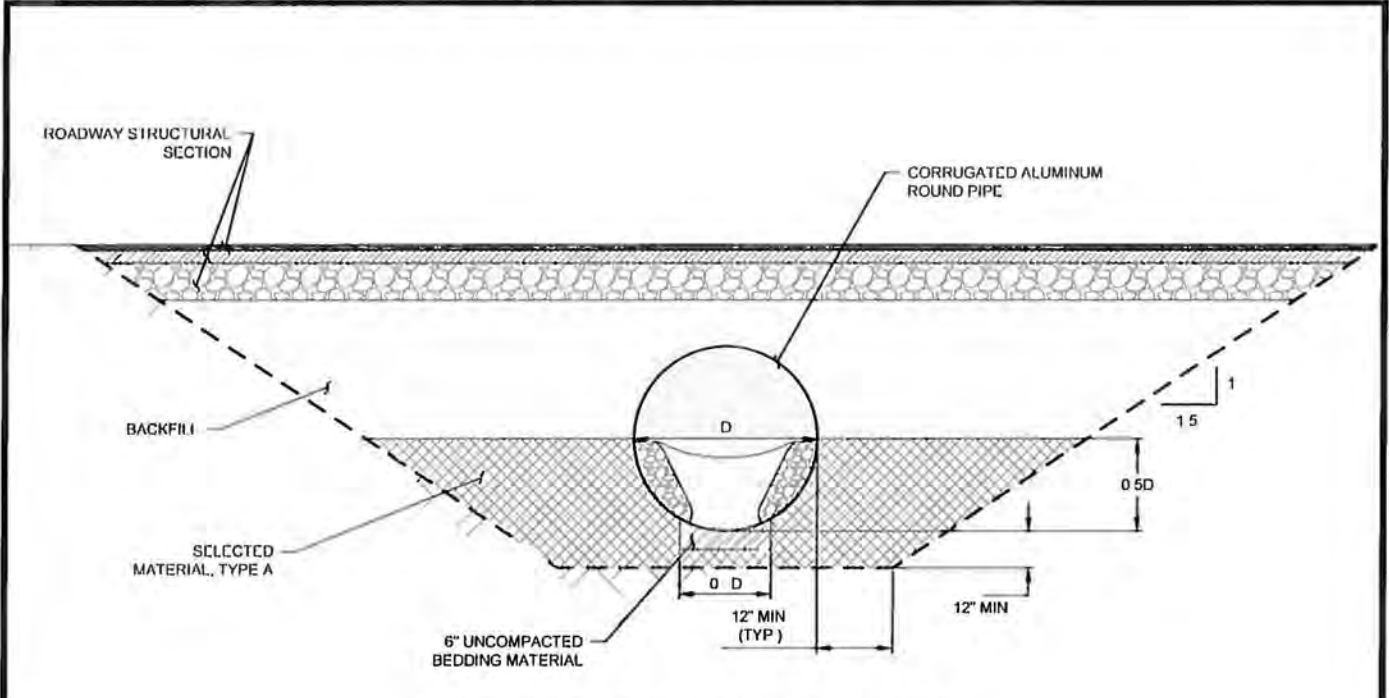


TYPICAL ARCH PIPE CULVERT INFILL DETAIL

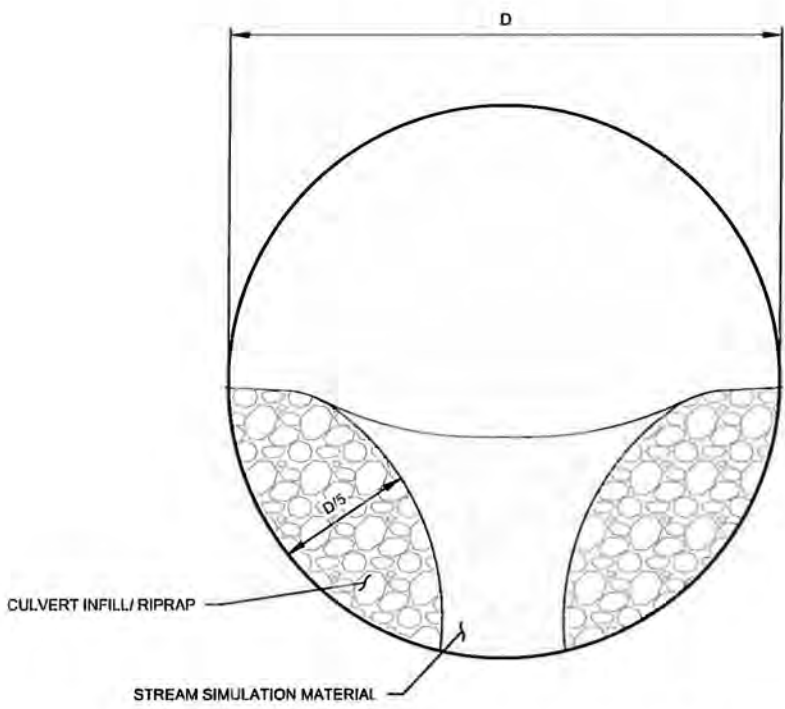


TYPICAL ARCH PIPE CULVERT CROSS SECTION

| | | |
|---|---|---|
| <p>WATER BODIES: CHILKAT RIVER</p> | <p>PROJECT DETAILS</p> <p>POA 1992-515 APPLICATION BY: ALASKA STATE DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOST REGION</p> | <p>HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606</p> <p>AT: HAINES, ALASKA</p> <p>LOCATED IN: TOWNSHIP 28-30 SOUTH, RANGE 56-59 EAST, C.R.M. LATITUDE: N 59° 35' 12" LONGITUDE: W 135° 11' 52"</p> <p>DATE: JANUARY 2017 SHEET 39 OF 41</p> |
|---|---|---|

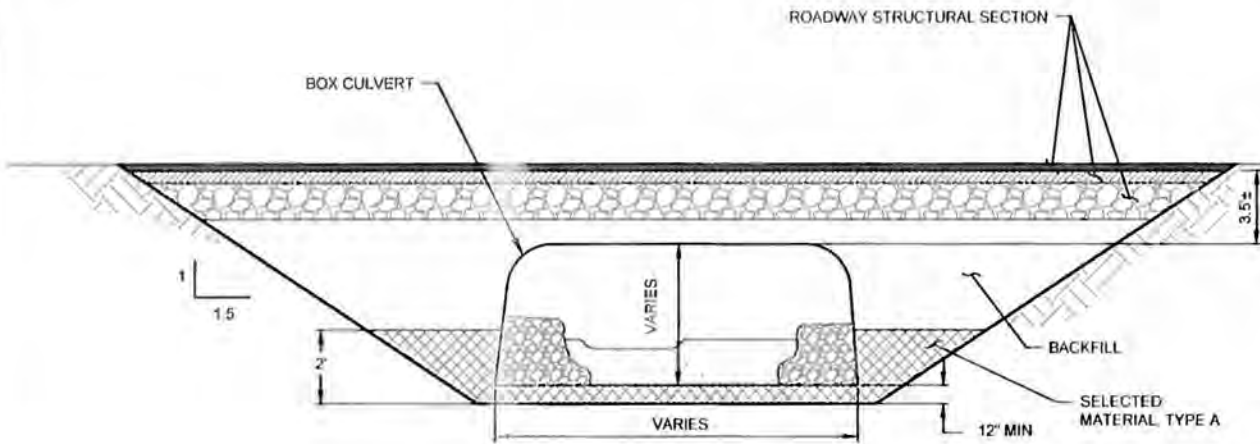


TYPICAL ROUND CULVERT CROSS SECTION

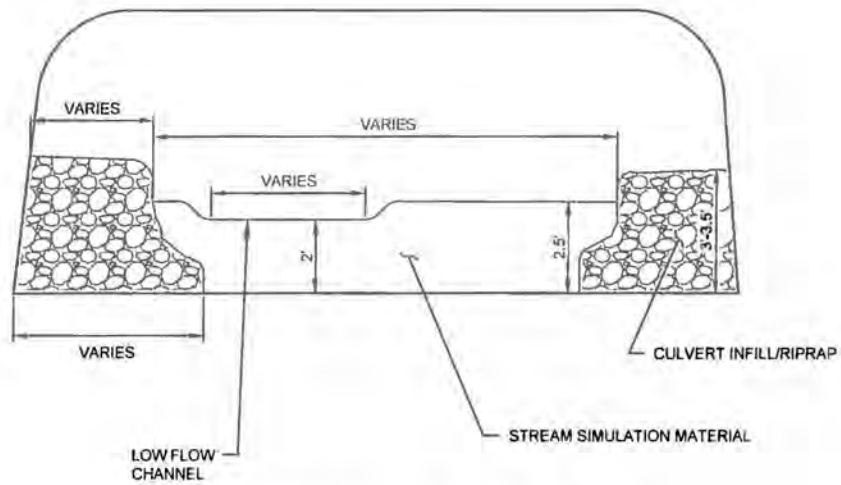


TYPICAL ROUND CULVERT INFILL DETAIL

| | | |
|---|---|---|
| <p><u>WATER BODIES:</u> CHILKAT RIVER</p> | <p>PROJECT DETAILS</p> <p>POA 1992-515 APPLICATION BY: ALASKA STATE DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOST REGION</p> | <p>HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606</p> <p>AT: HAINES, ALASKA</p> <p>LOCATED IN: TOWNSHIP 29-30 SOUTH, RANGE 56-59 EAST, C.R.M. LATITUDE: N 59° 35' 12" LONGITUDE: W 135° 11' 52"</p> <p>DATE: JANUARY 2017 SHEET 40 OF 41</p> |
|---|---|---|



TYPICAL BOX CULVERT CROSS SECTION



TYPICAL BOX CULVERT INFILL DETAIL

| | | |
|---|---|--|
| <p>WATER BODIES: CHILKAT RIVER</p> | <p>PROJECT DETAILS</p> <p>POA 1992-515 APPLICATION BY: ALASKA STATE DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHCOST REGION</p> | <p>HAINES HIGHWAY IMPROVEMENTS PROJECT NO. 68606</p> <p>AT: HAINES, ALASKA</p> <p>LOCATED IN: TOWNSHIP 28-30 SOUTH, RANGE 58-59 EAST, C.R.M LATITUDE N 59° 35' 12" LONGITUDE W 135° 11' 52"</p> <p>DATE: JANUARY 2017 SHEET 41 OF 41</p> |
|---|---|--|