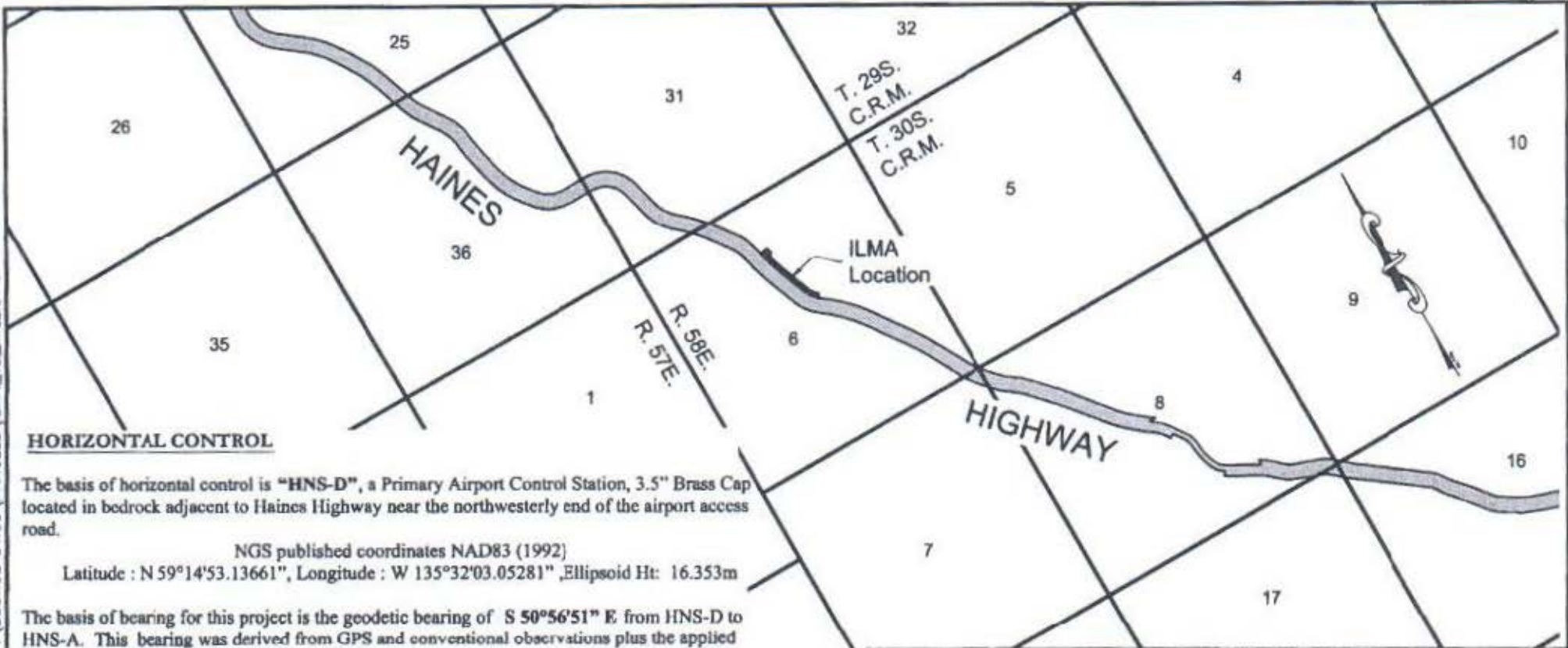


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**HORIZONTAL CONTROL**

The basis of horizontal control is "HNS-D", a Primary Airport Control Station, 3.5" Brass Cap located in bedrock adjacent to Haines Highway near the northwesterly end of the airport access road.

NGS published coordinates NAD83 (1992)

Latitude : N 59°14'53.13661", Longitude : W 135°32'03.05281" ,Ellipsoid Ht: 16.353m

The basis of bearing for this project is the geodetic bearing of S 50°56'51" E from HNS-D to HNS-A. This bearing was derived from GPS and conventional observations plus the applied convergence angle of -1°34'03.84" described below.

The Haines 4-24 Grid is based about NGS monument HNS-A, a 3.5" Brass Cap located in a 6'x3' concrete pad near the hold bar on taxiway B. The Grid system relates to AKSPC zone 1 NAD83(1992) through the following parameters:

Zone = NAD83(92) AKSPC ZONE 1 Grid Scale = 0.99995319 Convergence = -1°34'03.84"

Translation about HNS-A as follows:

AKSPC Northing = 2711876.83845 FT US AKSPC Easting = 2337586.75087 FT

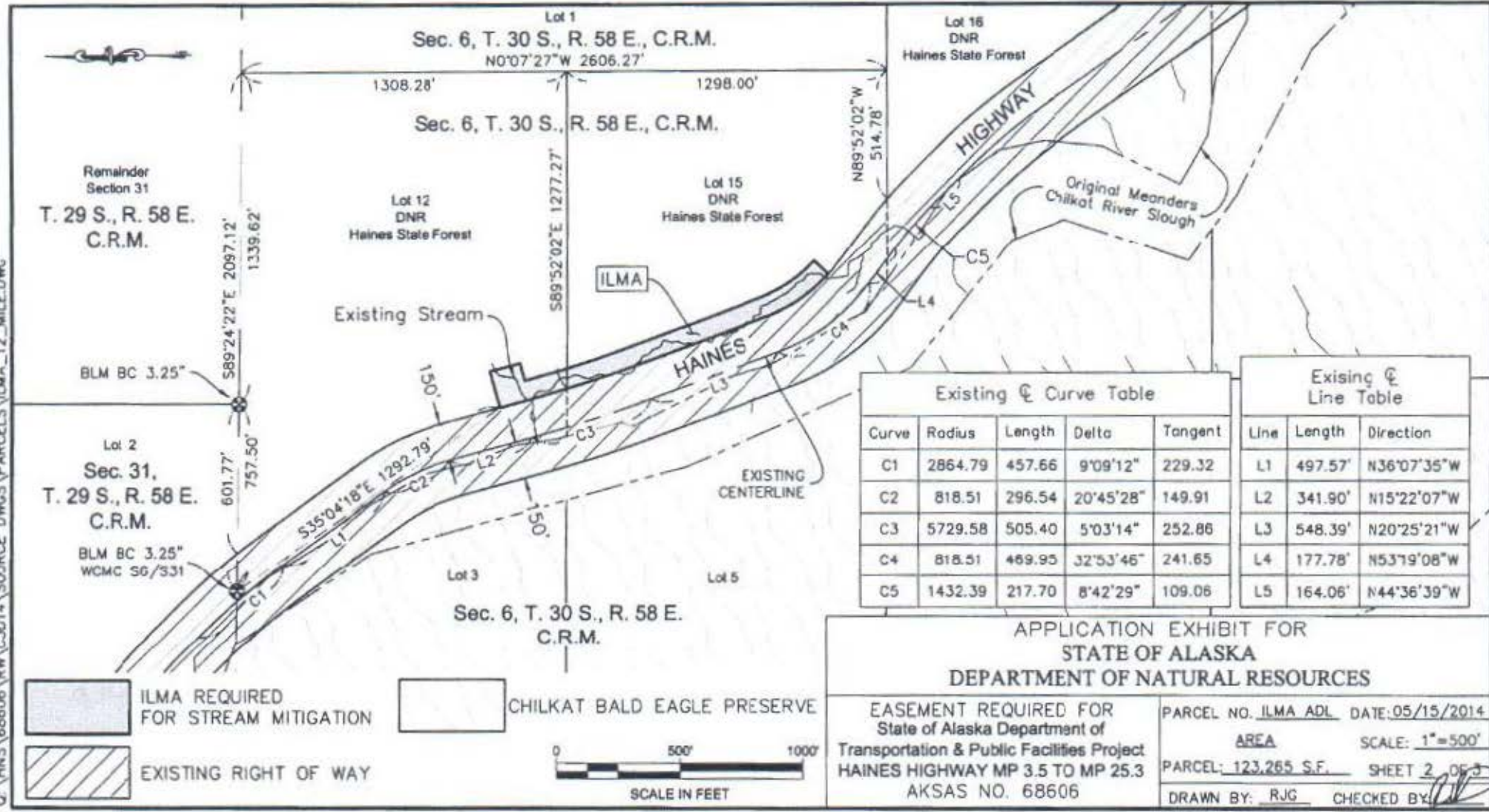
US Local Northing = 500000.0000 FT US Local Easting = 700000.0000 FT US

APPLICATION EXHIBIT FOR  
STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

EASEMENT REQUIRED FOR  
State of Alaska Department of  
Transportation & Public Facilities Project  
HAINES HIGHWAY MP 3.5 TO MP 25.3  
AKSAS NO. 68606

PARCEL NO. <u>ILMA ADL</u>	DATE <u>05/15/2014</u>
AREA	SCALE: <u>1" = 1/2 Mile</u>
PARCEL: <u>123,265 S.F.</u>	SHEET <u>1</u> OF <u>3</u>
DRAWN BY: <u>RJC</u>	CHECKED BY: <u>[Signature]</u>

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Curve	Radius	Length	Delta	Tangent
C1	2864.79	457.66	9°09'12"	229.32
C2	818.51	296.54	20°45'28"	149.91
C3	5729.58	505.40	5°03'14"	252.86
C4	818.51	469.95	32°53'46"	241.65
C5	1432.39	217.70	8°42'29"	109.06

Line	Length	Direction
L1	497.57'	N36°07'35"W
L2	341.90'	N15°22'07"W
L3	548.39'	N20°25'21"W
L4	177.78'	N53°19'08"W
L5	164.06'	N44°36'39"W

APPLICATION EXHIBIT FOR  
STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

EASEMENT REQUIRED FOR State of Alaska Department of Transportation & Public Facilities Project HAINES HIGHWAY MP 3.5 TO MP 25.3 AKSAS NO. 68606	PARCEL NO. <u>ILMA ADL</u> DATE: <u>05/15/2014</u> AREA SCALE: <u>1"=500'</u> PARCEL: <u>123,265 S.F.</u> SHEET <u>2</u> OF <u>3</u> DRAWN BY: <u>RJG</u> CHECKED BY: <u>[Signature]</u>
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Sec. 6  
T. 30 S., R. 58 E., C.R.M.

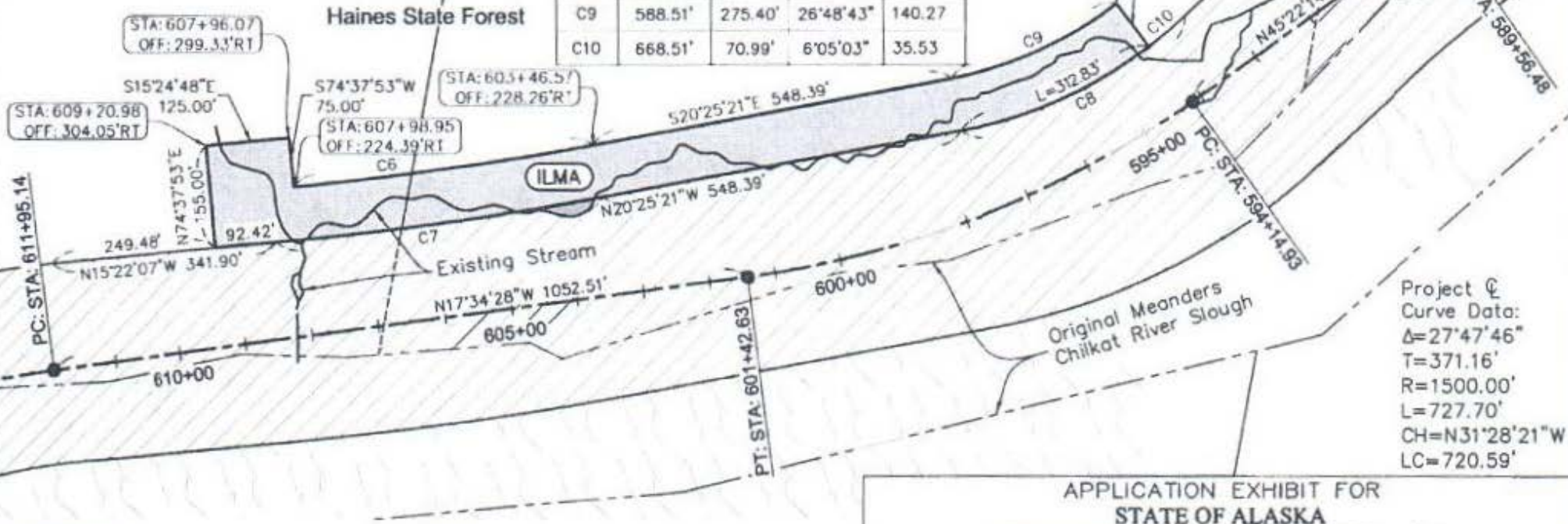
Lot 12

Lot 15

DNR  
Haines State Forest

Curve Table				
Curve	Radius	Length	Delta	Tangent
C6	5,499.58'	452.53'	4°42'52"	226.39
C7	5,579.58'	492.17'	5°03'14"	246.24
C8	668.51'	383.82'	32°53'46"	197.36
C9	588.51'	275.40'	26°48'43"	140.27
C10	668.51'	70.99'	6°05'03"	35.53

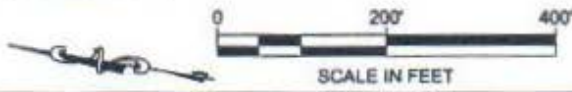
Existing Stream



Project  $\Delta$   
Curve Data:  
 $\Delta=27^{\circ}47'46''$   
 $T=371.16'$   
 $R=1500.00'$   
 $L=727.70'$   
 $CH=N31^{\circ}28'21''W$   
 $LC=720.59'$

ILMA REQUIRED FOR STREAM MITIGATION  
 EXISTING RIGHT OF WAY

CHILKAT BALD EAGLE PRESERVE



APPLICATION EXHIBIT FOR  
STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

EASEMENT REQUIRED FOR  
State of Alaska Department of  
Transportation & Public Facilities Project  
HAINES HIGHWAY MP 3.5 TO MP 25.3  
AKSAS NO. 68606

PARCEL NO. ILMA ADL DATE: 05/15/2014  
AREA SCALE: 1"=200'  
PARCEL: 123,265 S.F. SHEET 3 OF 3  
DRAWN BY: RJG CHECKED BY: [Signature]

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