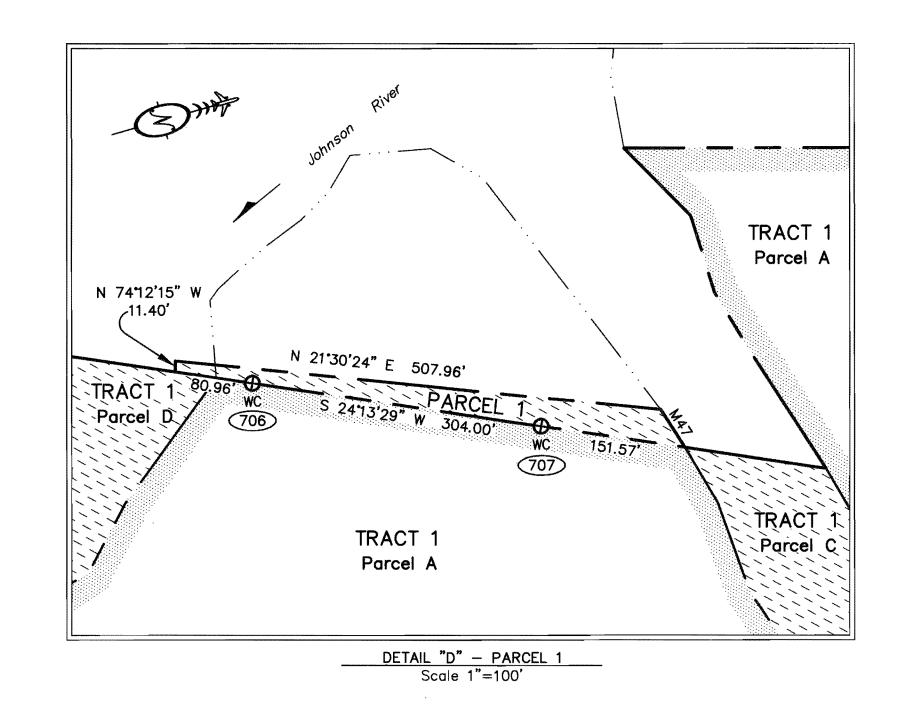
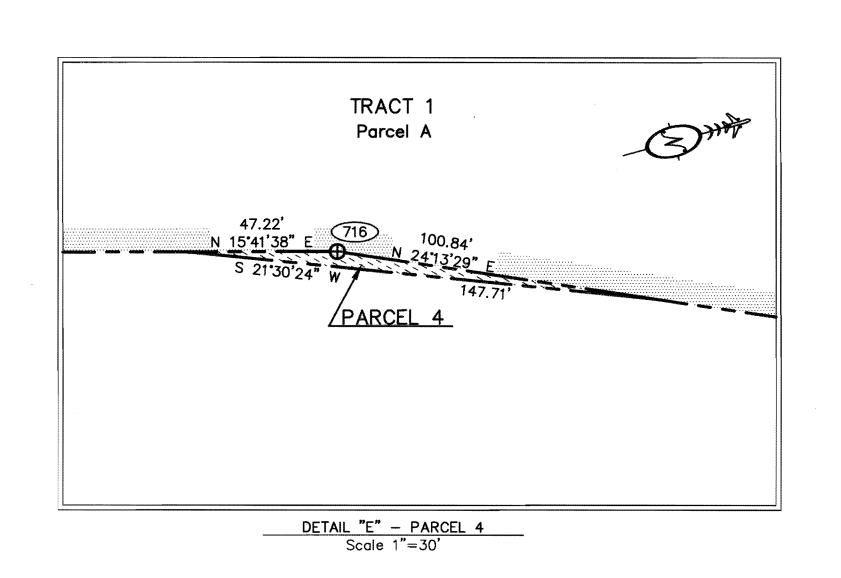
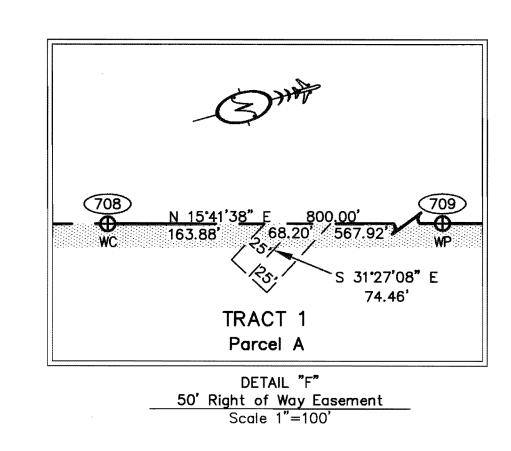


MEA	NDER LINE TA	ABLE
LINE	DIRECTION	LENGTH
M1 1	N 41 18 41" W	182.83
M12	N 34°48'46" W	
M13	N 28°23'49" W	97.95'
M14	N 22°47'09" W	208.39
M15	N 07'48'21" W	101.43'
M16	N 10°52'41" E	150.08'
M17	N 15*08'50" E	98.81
M18	N 57°55'05" E	88.22'
M19	N 83°37'55" E	110.62
M20	S 78°26'42" E	133.25
M21	S 59°01'27" E	134.96'
M22	S 55'53'10" E	129.25'
M23	N 62'47'04" W	38.70'
M24	N 48°17'07" W	85.62
M25	N 61 56 36" W	181.33'
M26	N 82'19'35" W	67.75
M27	S 81'12'17" W	52.82
M28	S 48°14'19" W	47.80
M29	S 19°54'14" W	56.54
M30	S 01°54'25" W	128.04
M31	S 08'51'20" E	130.44
M32	S 19°00'45" E	131.08'
M33	S 36'14'23" E	177.20'
M34	S 45°14'38" E	92.37
M35	N 75°27'58" E	171.56
M36	N 73°11'53" E	91.86'
M37	N 61°49'58" E	226.73'
M38	N 54°19'27" E	202.97
M39	S 57°18'22" W	94.85
M40	S 62'36'19" W	216.36
M41	S 71 55 53" W	200.20
M42	S 86'10'23" W	98.71
M43	S 75°02'46" W	66.79
M44	S 38'09'29" E	160.64
M45	S 46°17'05" E	81.17
M46	S 17°26'14" E	150.64
M47	N 73*09'42" E	46.91







<u>LEGEND</u>

— — — Airport Boundary

Primary Monument, See Sheets 3 & 4

Survey Point Number, See Sheets 3 & 4

Fee Title

Avigation and Hazard Easement

Bethel Recording District State Business — No Fee

PREPARED BY: WHPACIFIC, INC.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

PUBLIC FACILITIES

RIGHT-OF-WAY ACQUISITION PLAT

NUNAPITCHUK AIRPORT

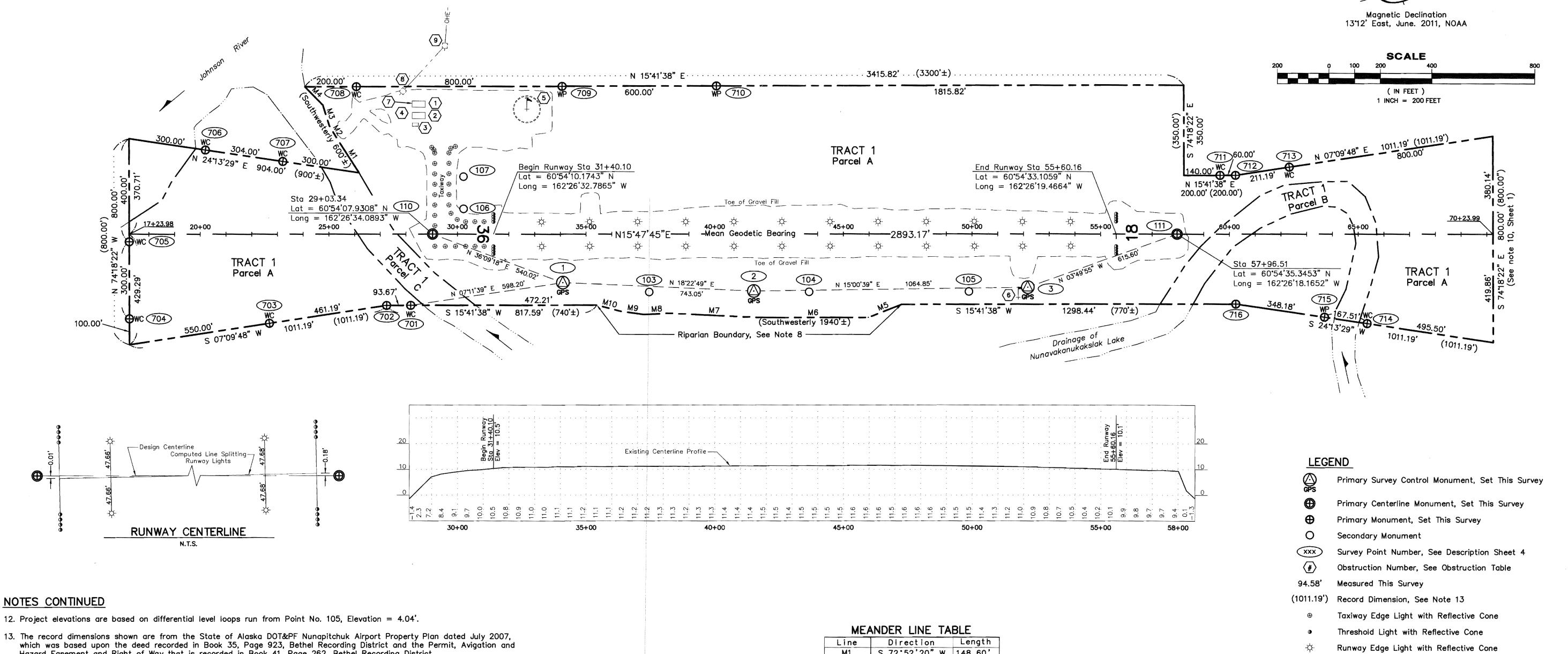
PROJECT No. 54850

Within Sec. 5, T9N R74W, and Sec. 32, T10N, R74W, Seward Meridian, Alaska

DRAWN: CAW SURVEY DATE: JUNE 2011 SCALE: AS NOTED SHEET: 2 of CHECKED: GEL/TDM DRAWN DATE: JUNE 2012 FILE NO. PA20110045

BETHEL RECORDING DISTRICT PLAT 2012-33





NOTES CONTINUED

- 12. Project elevations are based on differential level loops run from Point No. 105, Elevation = 4.04'.
- Hazard Easement and Right of Way that is recorded in Book 41, Page 262, Bethel Recording District.
- 14. The Right-of-Way acquisition of the Parcels shown on this Plat, and the airport improvements have been completed.

HORIZONTAL CONTROL

The Coordinates for this Project are in a local surface grid system, expressed in U.S. Survey Feet developed by WHPacific Inc. (Formerly Known as ASCG Inc.) in 2001. The Bearings are based upon the Record of Survey, Survey Control Diagram for Nunapitchuk Airport, recorded on January 3, 2006 as plat 2006—1. The Basis of Coordinates for that project was Point No. 601 which has since been destroyed. Point No. 601 had the following coordinates: NAD83 (1997.0) Latitude 60°54'09.0021" N. Longitude 162°26'32.9003" W. State Plane Zone 7 2,522,033.89856' N. 1,561,637.69178' E.

100,000.000000 N. 50,000.000000 E. Local Coordinates

To convert from Local Plane Coordinates to NAD83 (1997.0) State Plane Zone 7 Coordinates (U.S. Survey Feet):

- 1. Rotate local coordinates about Point No. 601 by 0°23'05".
- 2. Translate resulting coordinates by +2,422,033.89856 N and +1,511,637.69178 E. 3. Scale resulting coordinates about Point No. 601 by using 0.9999069955.

The Basis of Bearings, N 15°47'45" E, is the runway design centerline as shown on the Nunapitchuk Airport Survey Control Sheet, Sheet C3 of the Airport Improvement Plan Set titled "Nunapitchuk, Alaska Airport Improvement Program Project No. 54850 A.I.P. No. 3-02-0446-001-2007" dated June 2007.

VERTICAL CONTROL

The Vertical Datum is a Local Orthometric Datum approximating NAVD88 which was established by NGS OPUS solutions from static GPS observation data. The orthometric height contained in the NGS OPUS report is derived by applying the GEOID99 correction to the (CORS) ellipsoid height. The result only approximates NAVD88 because it does not account for the GEOID99 to NAVD88 bias. The NGS OPUS solutions for two eleven hour static GPS observations were used to established the project elevation of 0.36 feet for Point 601, as shown on the Record of Survey, Survey Control Diagram for Nunapitchuk Airport, recorded on January 3, 2006 as plat 2006—1. Published vertical control points from the Record of Survey have been disturbed. The basis of Vertical Control is Point No. 105, Elevation = 4.04 Feet, referenced from Nunapitchuk Airport Field Book No. 4286, Page 15, dated August 12, 2001.

Line	Direction	Length
M1	S 72.52,20, W	148.60'
M2	S 74°35'28" W	67.92'
М3	S 88°31'36" W	83.62'
M4	S 61'22'20" W	99.48'
M5	S 05°41'05" E	138.83'
M6	S 15'48'49" W	428.60'
M7	S 18'33'10" W	341.72'
M8	S 13°02'40" W	101.80'
М9	S 23'43'54" W	92.64
M10	S 30'39'24" W	94.58

OBSTRUCTION TABLE

Number	Obstruction	Latitude	Longitude	Elevation
1	SREB Roof Peak	60 * 54 ' 09 . 027"	162*26'44.052"	34.3'
2	SREB Roof Peak	60 * 54 ' 08 . 907"	162*26'43.188"	34.2'
3	Warmup Bldg Roof Peak	60 * 54 ' 08 . 530"	162*26'42.508"	23.4'
4	Top of Rotating Beacon	60°54'08.581"	162*26'44.306"	39.7'
5	Top of Lighted Windcone	60*54'12.706"	162°26'41.509"	29.1'
6	Top of Unlighted Windcone	60*54'28.842"	162*26'16.774"	23.0'
7	Top of Antenna on SREB	60 * 54 ' 08 . 555"	162°26'44.390"	45.3'
8	Top of Wood Utility Pole	60°54'08.329"	162°26'45.512"	41.0'
9	Top of Wood Utility Pole	60.54'10.351"	162°26'48.051"	39.2'

Rotating Beacon

Lighted Wind Cone

Unlighted Wind Cone

Segmented Circle

Bethel Recording District State Business — No Fee

PREPARED BY: WHPACIFIC, INC.

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION

PUBLIC FACILITIES RIGHT-OF-WAY ACQUISITION PLAT

NUNAPITCHUK AIRPORT

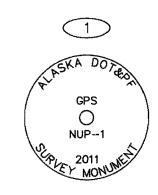
PROJECT No. 54850

Within Sec. 5, T9N R74W, and Sec. 32, T10N, R74W, Seward Meridian, Alaska

DRAWN: CAW SURVEY DATE: JUNE 2011 SCALE: 1" = 200' SHEET: 3 of CHECKED: GEL/TDM DRAWN DATE: JUNE 2012 FILE NO. PA20110045

BETHEL RECORDING DISTRICT PLAT 2012 - 33

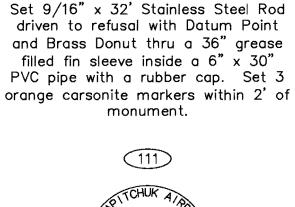
page 3 of 4



Set 9/16" x 40' Stainless Steel Rod with Datum Point and Brass Donut thru a 36" grease filled fin sleeve inside a 6" x 30" PVC pipe with a rubber cap. Set 3 orange carsonite markers within 2' of monument.



Set 3-1/4" Aluminum Cap on 2-1/2" x 30" Aluminum Post in gravel 1.0' below grade with Deep-1® magnet



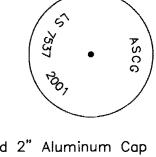
2

NUP-2

Set 3-1/4" Aluminum Cap on 2-1/2" x 30" Aluminum Post in gravel 0.9'

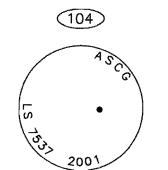


Set 9/16" x 36' Stainless Steel Rod driven to refusal with Datum Point and Brass Donut thru a 36" grease filled fin sleeve inside a 6" x 30" PVC pipe with a rubber cap. Set 3 orange carsonite markers within 3' of monument.

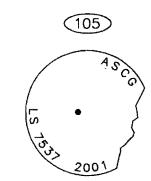


103

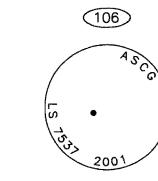
Found 2" Aluminum Cap on 5/8" Rebar 0.4' above grade, Good Condition



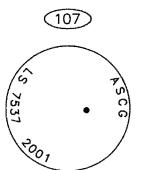
Found 2" Aluminum Cap on 5/8" Rebar flush with grade, Good Condition



Found 2" Aluminum Cap on 5/8" Rebar 0.4' above grade, Good Condition



Found 2" Aluminum Cap on 5/8" Rebar 0.5' above grade, Good Condition



Found 2" Aluminum Cap on 5/8" Rebar 0.5' above grade, Good Condition





below grade with Deep-1® magnet



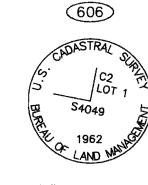
Found 3-1/2" Brass Cap on 1/2" Found 3-1/4" Aluminum Cap on 5/8" Copperweld Rod 4.4' above grade, Aluminum Rod 1.9' above grade, Good Condition, Cap is facing a Westerly Direction



Found 3-1/4" Brass Cap on 2-1/2" Iron Post 0.2' above grade, Good Condition, cap is mostly unreadable -Recovered in 2001-



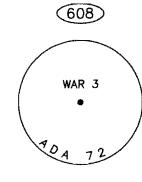
Found 3-1/4" Brass Cap on 2-1/2" Iron Post 0.7' above grade, Good Condition, monument is located under a wooden deck -Recovered in 2001-



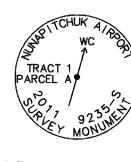
Found 3-1/4" Brass Cap on 2-1/2" Iron Post flush with surface of wooden deck, Good Condition -Recovered in 2001-



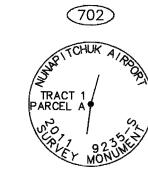
Found 3-1/4" Brass Cap on 2-1/2" Iron Post 0.5' above grade, Good Condition -Recovered in 2001-



Found 1-1/2" Aluminum Cap on 5/8" Rebar 1.4' out of and bend Southerly parallel to the ground, sighted point of entry -Recovered in 2001-



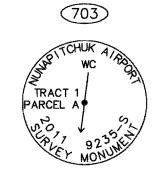
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, from monument



Good Condition

-Recovered in 2001-

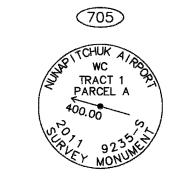
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Westerly 0.5' Orange Carsonite Marker set Westerly 0.5' Orange Carsonite Marker set Westerly 0.5' from monument



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, from monument



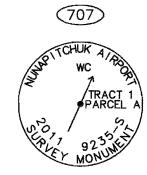
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Northerly 0.5' from monument



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod 0.1' below grade, Orange Carsonite Marker set Northerly 0.5' from monument



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Easterly 0.5' from monument



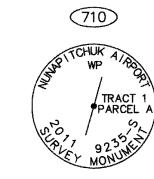
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Easterly 0.5' from monument



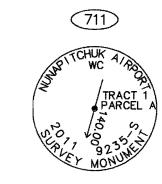
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Northeasterly 0.5' from monument



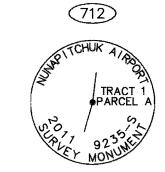
Aluminum Drive Rod flush with grade, from monument



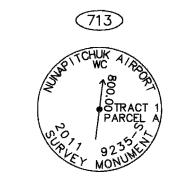
Aluminum Drive Rod flush with grade, from monument



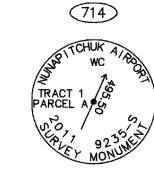
Aluminum Drive Rod flush with grade, from monument



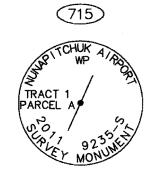
Aluminum Drive Rod flush with grade, from monument



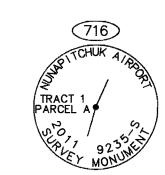
Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, Orange Carsonite Marker set Easterly 1.0' Orange Carsonite Marker set Easterly 0.5' Orange Carsonite Marker set Ea from monument



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod 0.9' above grade,



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod flush with grade, from monument



Set 3-1/4" Aluminum Cap on 3/4" x 9' Aluminum Drive Rod 0.2' above grade, Orange Carsonite Marker set Westerly 0.5' from monument

SURVEY CONTROL POINTS

POINT	STATION	OFFSET	LOCAL NORTHING	LOCAL EASTING	ELEVATION
1	34+09.63	187.87 Rt	100327.2368	50259.7828	3.67'
2	41+51.92	221.38 Rt	101032.3844	50494.0833	4.38'
3	52+16.67	206.79 Rt	102060.8983	50769.8811	2.39'
103	37+45.70	225.69 Rt	100640.3223	50387.6502	
104	43+66.61	224.59 Rt	101238.0876	50555.6121	
105	49+87.66	223.47 Rt	101835.9963	50723.5916	_
106 🏄	30+23.81	98.02 Lt	100033.8119	49879.6598	
1,07,	^{30+23.58}	223.01 Lt	100067.6217	49759.3269	
110	29+03.34	0.00	99891.2099	49941.1855	
111	57+96.51	0.00	102675.1228	50728.7407	-
551	N/A	N/A	79718.6746	44410.8214	0000000
608	N/A	N/A	84850.6497	53679.4055	

N/A DENOTES NOT ADJACENT

MONUMENTATION

POINT	STATION	OFFSET	LOCAL NORTHING	LOCAL EASTING	ELEVATION
603	45+05.80	296.64 Rt	101352.4130	50662.8311	
604	-1+32.33	2063.56 Lt	97531.8990	47129.2037	·
605	-0+70.66	2434.71 Lt	97692.2722	46788.8551	_
606	1+79.28	2434.24 Lt	97932.6547	46857.3465	
607	2+34.85	2425.62 Lt	97983.7737	46880.7724	
701	28+18.15	277.35 Rt	99733.7416	50184.8691	
702	27+24.48	277.51 Rt	99643.5616	50159.5309	-
703	22+68.51	346.74 Rt	99185.9712	50102.0220	
704	17+24.57	329.29 Rt	98667.3140	49937.1667	
705	17+24.03	29.29 Rt	98748.4638	49648.3507	
706	20+20.08	326.73 Lt	99130.2466	49386.3577	
707	23+20.80	282.17 Lt	99407.4772	49511.0939	
708	26+07.14	572.28 Lt	99761.9809	49309.8887	
709	34+07.14	573.70 Lt	100532.1570	49526.2883	
710	40+07.14	574.77 Lt	101109.7891	49688.5880	
711	59+63.58	228.25 Lt	102898.0195	50554.5877	_
712	60+23.58	228.36 Lt	102955.7827	50570.8177	_
713	62+32.38	260.06 Lt	103165.3244	50597.1524	
714	65+34.59	347.23 Rt	103290.8129	51263.7740	
715	63+68.89	322.68 Rt	103138.0572	51195.0436	_
716	60+24.47	271.64 Rt	102820.5330	51052.1778	_

2012-33 Plat # BETHEL Rec Dist 7-21 20/2 Time 1:03 P

> Bethel Recording District State Business - No Fee



PREPARED BY: WHPACIFIC, INC.

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION PUBLIC FACILITIES

RIGHT-OF-WAY ACQUISITION PLAT NUNAPITCHUK AIRPORT

PROJECT No. 54850

Within Sec. 5, T9N R74W, and Sec. 32, T10N, R74W, Seward Meridian, Alaska

SURVEY DATE: JUNE 2011 SCALE: N/A SHEET: 4 of DRAWN: CAW CHECKED: GEL/TDM DRAWN DATE: JUNE 2012 FILE NO. PA20110045