

HORIZONTAL CONTROL STATEMENT

Coordinate System:

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey Feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E, U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E, U.S. Survey Feet.

Translation Parameters:

To convert the local coordinates to NAD83(92) State Plane coordinates expressed in U.S. Survey Feet, translate by using +2296668.6878 N U.S. Survey Feet, +1312517.4904 E U.S. Survey Feet, and scale by using 0.9998910192.

VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey Feet.

The basis of elevation is four MOA Bench Marks "GAAB-25", a brass cap set vertically in the north east corner of Abbott Loop Community Church, having a value of 234.06 feet.

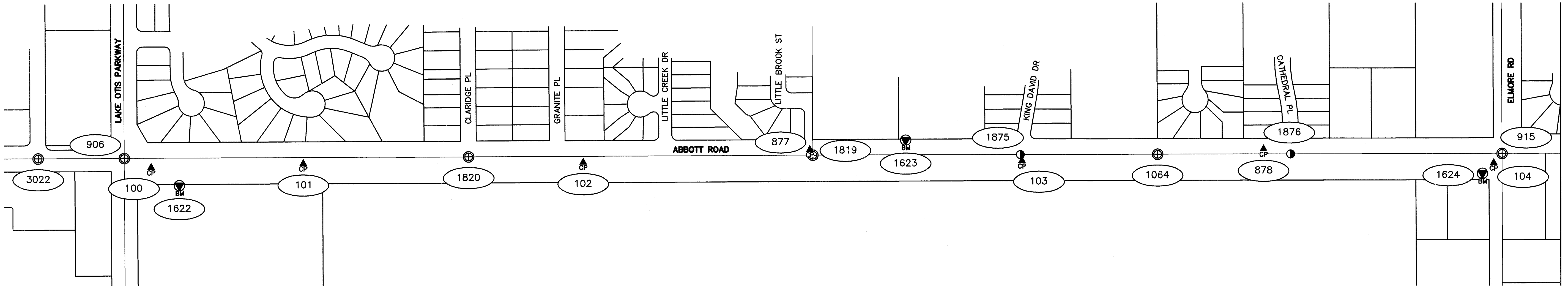
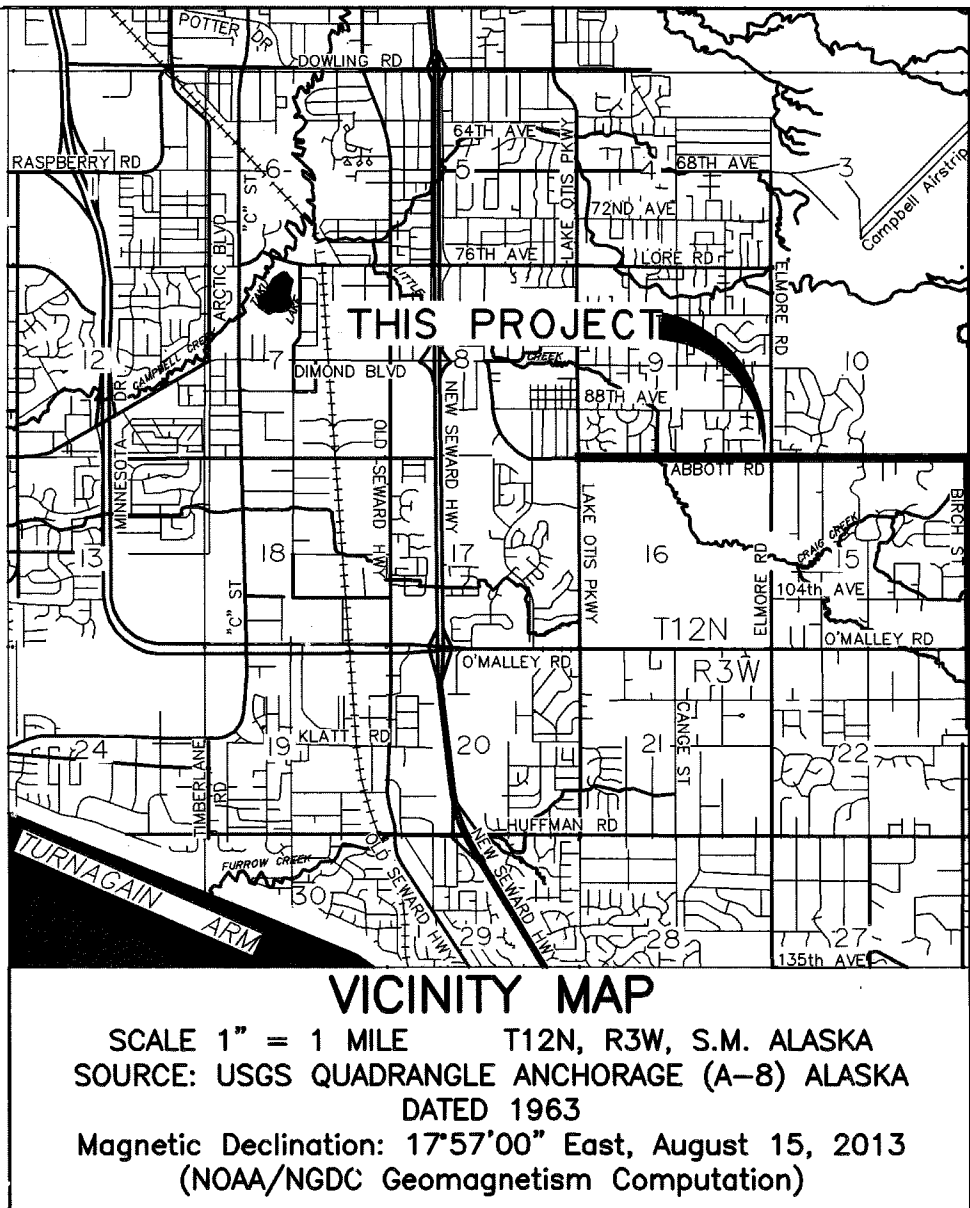
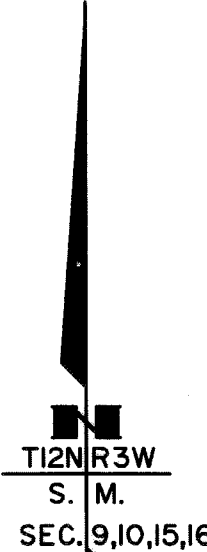
"GAAB-122" a brass cap located about 370 feet east of Little Brook Rd having a value of 253.94 feet.

"GAAB-116" a brass cap at the southwest corner of Abbott Road and Elmore Road, having a value of 303.99 feet.

"GAAB-24" a brass cap set vertically on south east wall of Service High School, having a value of 386.21 feet.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Geo Office software using a length weighted adjustment. All of the level loops closed within Third-Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

All elevations on horizontal control points need to be field verified before they are used.



U.S. SURVEY FEET

Legend

- ⊕ Primary CL Monument
- Secondary CL Monument
- ▲ Control Point
- BM Vertical Benchmark
- TBM Temporary Benchmark

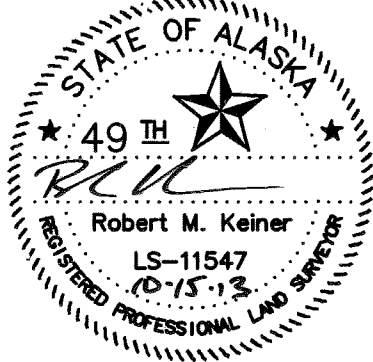
NOTES

- 1) Project control coordinates shown on this sheet were established by using least-squares adjusted, conventional closed-traverse and Static GPS techniques.
- 2) All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- 3) This survey was completed periodically between April 1999 and September 2013.
- 4) Background is for orientation only and is not true representation of ROW.

Surveyor's Certificate

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

Robert M. Keiner 10/15/2013
Robert M. Keiner LS-11547 Date



Record of Survey
This survey does not constitute a subdivision as determined by AS 40.15.900(5).
Anchorage Recording District
State Business No Fee

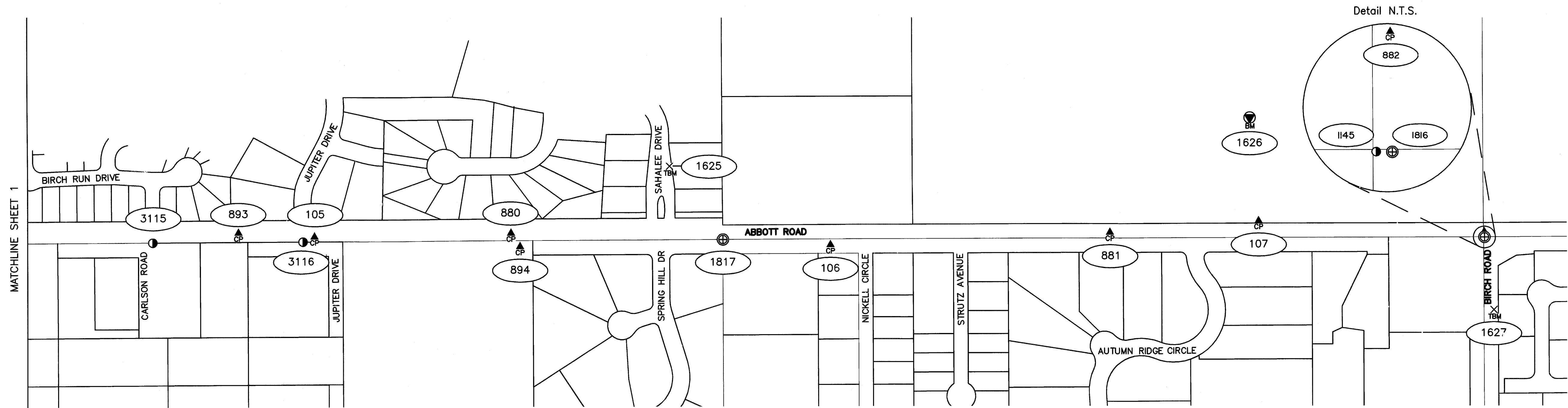
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RECORD OF SURVEY
Survey Control Diagram

Federal Project No. STP-0506(003)
AKSAS 53942

Abbott Road Rehab: Lake Otis to Birch
Located within: Sections 9,10,15,16, T12N, R3W, Seward Meridian, Alaska

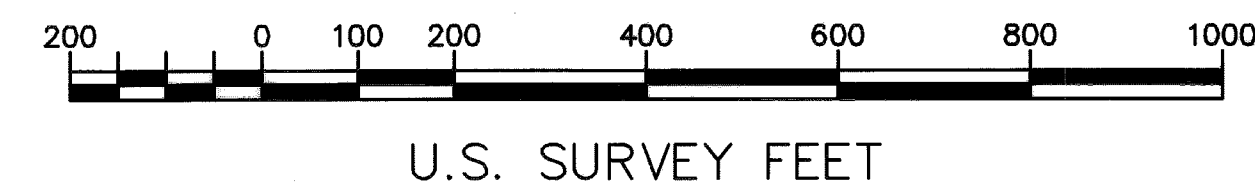
DRAWN	MGR	DATE	September 2013	SCALE	1" = 200'
CHECKED	RMK	DATE	October 2013	SHEET	1 OF 3

ANCHORAGE RECORDING DISTRICT PL 2013-91

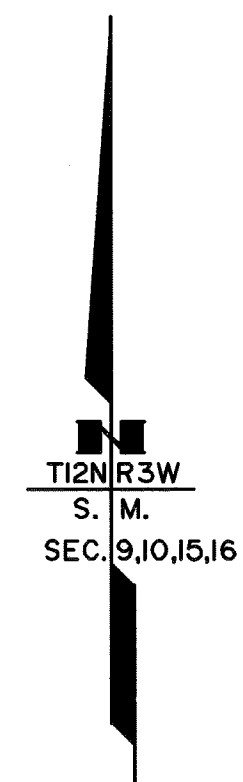


HORIZONTAL CONTROL				
Point	Northing	Easting	Elevation	Description
100	311095.2590	357500.7594	221.35	Set Rbr/PC[DOT]: CP 100
101	311108.8741	358083.7226	233.78	Set Rbr/PC[DOT]: CP 101
102	311112.0523	359156.2434	241.12	Set Rbr/PC[DOT]: CP 102
103	311114.7014	360836.3656	267.73	Set Rbr/PC[DOT]: CP 103
104	311106.2119	362642.0871	299.01	Set Rbr/PC[DOT]: CP 104
105	311163.6056	363896.3597	343.17	Set Rbr/PC[DOT]: CP 105
106	311131.1150	365688.0560	382.04	Set Rbr/PC[DOT]: CP 106
107	311212.7377	367175.1914	393.39	Set Rbr/PC[DOT]: CP 107
877	311158.7400	360024.1760	243.39	Set Rbr/PC: TS AR-7
878	311159.2890	361760.9264	293.80	Set Rbr/PC: TS AR-8
880	311174.6056	364578.6810	378.42	Set Rbr/PC: TS AR-10
881	311173.2235	366658.9501	399.65	Set Rbr/PC: TS AR-11
882	311174.0445	367958.2256	393.75	Set Rbr/PC: TS AR-12
893	311177.4018	363632.3566	332.05	Set Rbr/PC: TS AR-10A
894	311127.7154	364610.1243	378.47	Set Rbr/PC: TS AR-10B

VERTICAL CONTROL				
Point	Northing	Easting	Elevation	Description
1622	311026	357609	234.06	GAAB-25: BC ABB LOOP COMM SCHOOL
1623	311194	360391	253.94	GAAB-122: BC/ROD
1624	311065	362599	303.99	GAAB 116: BC SW ABB LOOP/ABB RD
1625	311405	365131	373.50	ABB-1: TOP RIM BOLT HYDRANT
1626	311571	367145	386.21	GAAB 24: BC SE SERVICE HIGH SCHOOL
1627	310904	367991	403.00	ABB-2: TOP BOLT S END OH PED X-ING

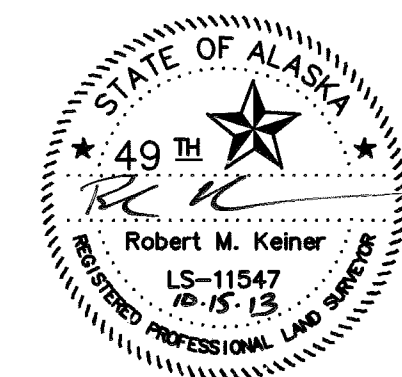


FOUND MONUMENTATION			
Point	Northing	Easting	Description
906	311129.6221	357398.1648	Fd AM/Bx[MOA]: S81S9/S171S16 xT12N R3W SM
915	311141.3060	362674.0972	Fd AM/Bx[DOT]: S91S10/S151S16 xT12N R3W SM
1064	311138.7464	361355.4265	Fd 1P/Bx: E 1/16 S9/S16 xT12N R3W SM
1145	311155.3864	367956.0464	Fd AC: S101S11/S15/S14 xT12N R3W SM
1816	311155.3481	367958.5503	Fd BC/Bx[DOH]: DOH Centerline Monument
1817	311150.7182	365314.7531	Fd BC/Bx[DOH]: 1/4 S10/S15 xT12N R3W SM
1819	311136.3960	360035.6108	Fd BC/Bx: 1/4 S9/S16 xT12N R3W SM
1820	311132.9159	358717.3173	Fd BC/Bx: W 1/16 S9/S16 xT12N R3W SM
1875	311137.7225	360829.9124	Fd AC: S1 Abbott Road and King David Drive
1876	311139.7012	361864.4740	Fd AC: S1 Abbott Road and Cathedral Place
3022	311128.6405	357068.2696	Fd AM/Bx: S1 Abbott Road and Arlon Street
3115	311143.7353	363334.2773	Fd Rbr: S1 Abbott Road and Birch Run Drive
3116	311145.6688	363856.2572	Fd Rbr: S1 Abbott Road and Jupiter Drive



- Legend
- Primary CL Monument
 - Secondary CL Monument
 - Control Point
 - Vertical Benchmark
 - Temporary Benchmark

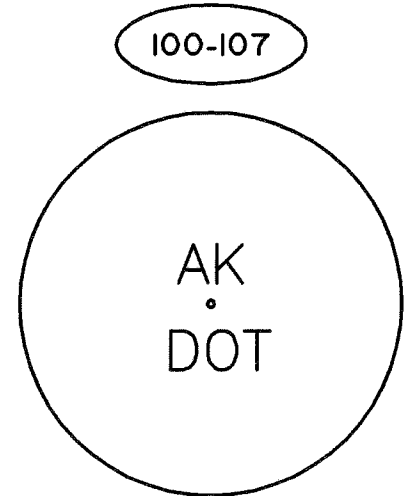
Record of Survey
This survey does not constitute a subdivision
as determined by AS 40.15.900(5).
Anchorage Recording District
State Business No Fee



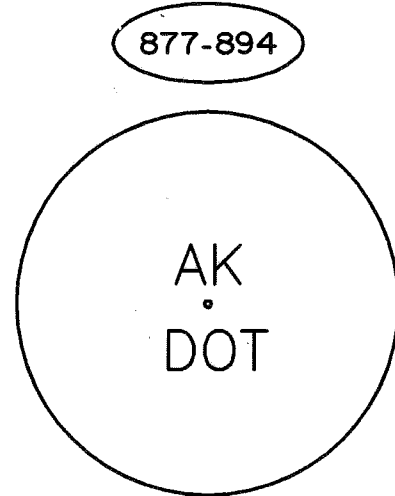
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RECORD OF SURVEY
Survey Control Diagram
Federal Project No. STP-0506(003)
AKSAS 53942
Abbott Road Rehab: Lake Otis to Birch

DRAWN MGR		DATE September 2013		SCALE 1" = 200'	
CHECKED RMK		DATE October 2013		SHEET 2 OF 3	

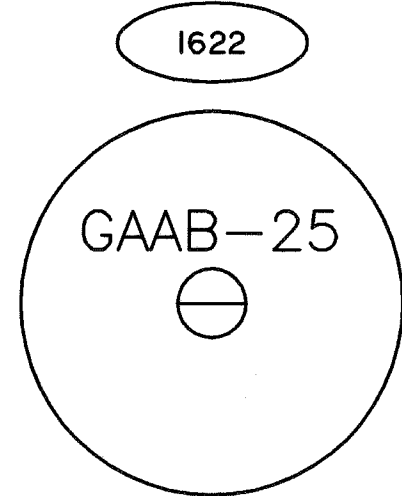
ANCHORAGE RECORDING DISTRICT PL 2013-91



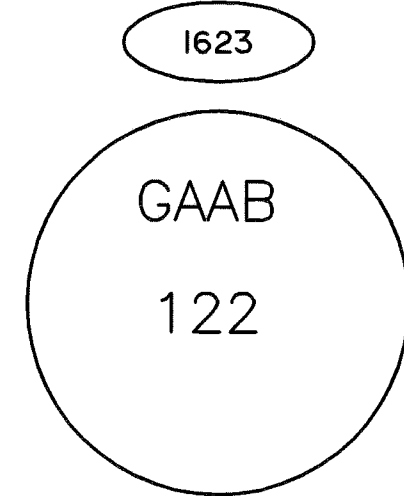
—SET—
1 1/4" ORANGE PLASTIC CAP ON
5/8"x24" REBAR, 0.3' BELOW GRADE, TYPICAL
FOR THIS SURVEY, GOOD CONDITION



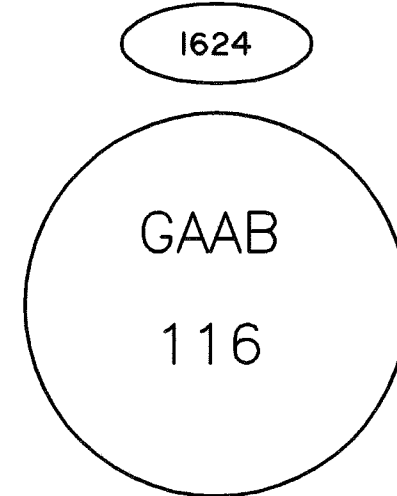
—SET—
1 1/4" YELLOW PLASTIC CAP ON
5/8"x24" REBAR TYPICAL FOR
THIS SURVEY, SCUFFED, SOLID
CONDITION



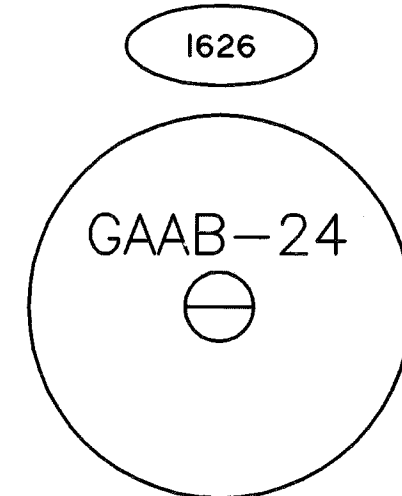
—FOUND—
2 1/2" BRASS CAP SET
VERTICALLY ON WALL, GOOD
CONDITION



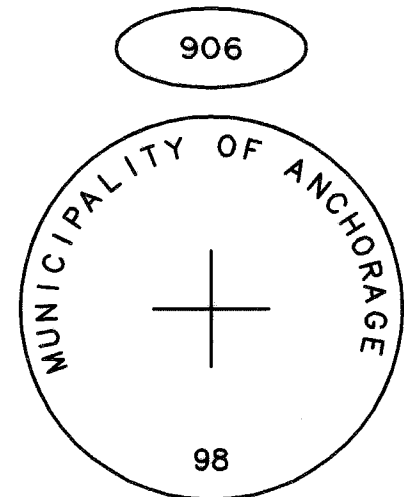
—FOUND—
2 1/2" BRASS CAP/ROD SET IN
STEEL CASE, GOOD CONDITION



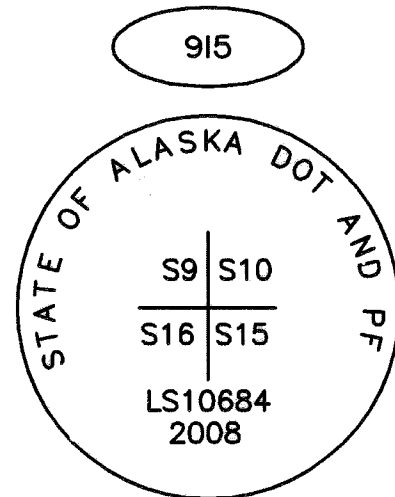
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2 1/2" BRASS CAP/ROD SET IN
STEEL CASE, GOOD CONDITION



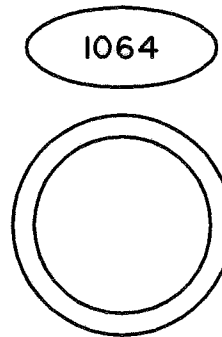
—FOUND—
2 1/2" BRASS CAP SET
VERTICALLY ON WALL, GOOD
CONDITION



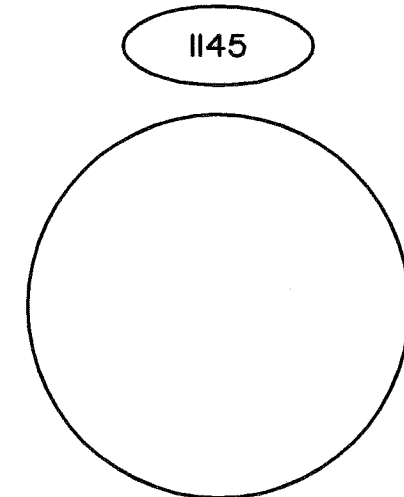
—FOUND—
3 1/4" ALUMINUM MONUMENT, IN
MON CASE, SLIGHTLY DINGED,
SOLID CONDITION



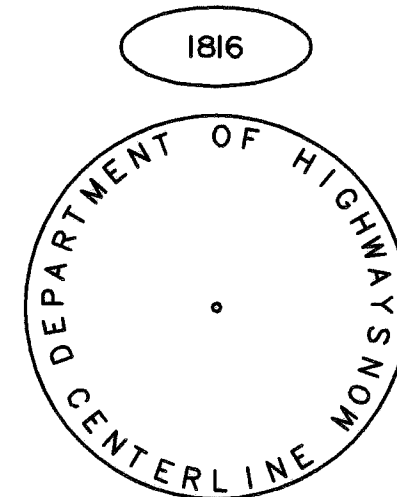
—FOUND—
3 1/4" ALUMINUM MONUMENT, IN
MON CASE, GOOD CONDITION



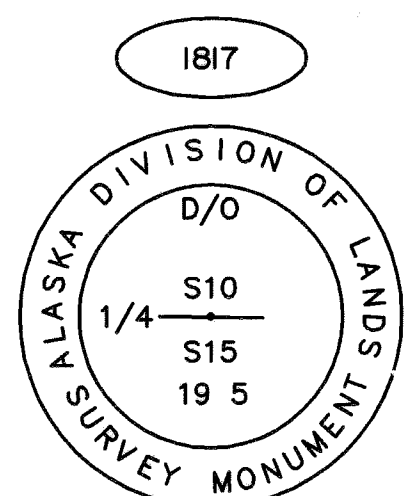
—FOUND—
1" IRON PIPE, IN MON CASE,
GOOD CONDITION



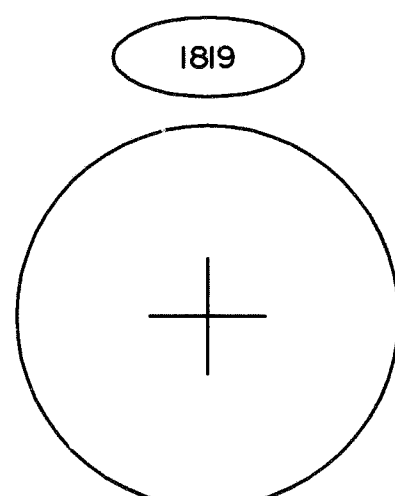
—FOUND—
2" ALUMINUM CAP, SCRAPPED
CLEAN NO MARKINGS, FLUSH
WITH PAVEMENT, SOLID
CONDITION



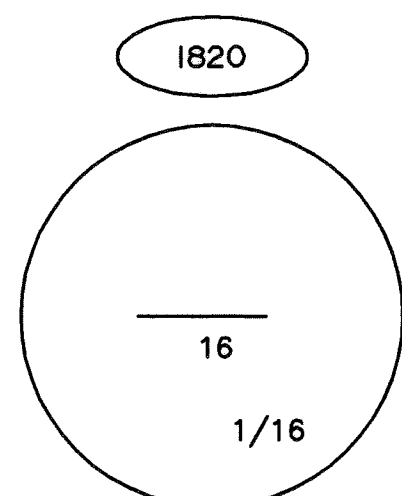
—FOUND—
3 1/4" BRASS MONUMENT, IN
MON CASE, 0.2' BELOW
PAVEMENT, SOLID CONDITION



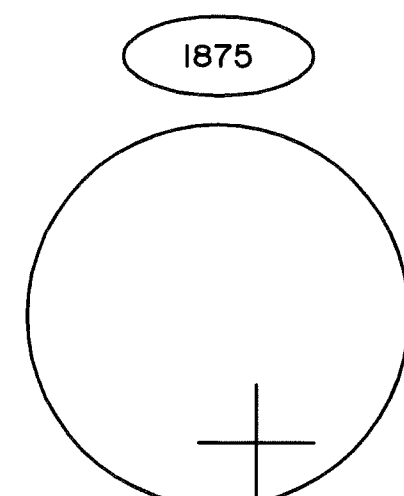
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3 1/4" BRASS MONUMENT, IN
MON CASE, 1.0' BELOW
PAVEMENT, SLIGHTLY DINGED,
SOLID CONDITION



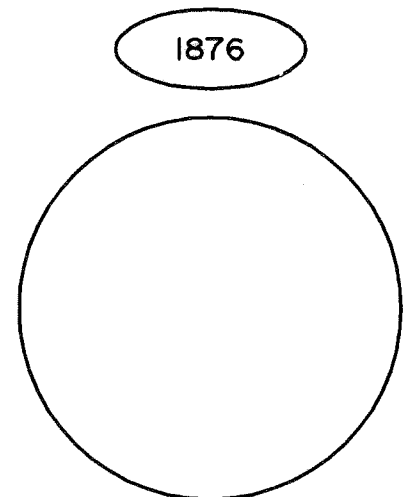
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3 1/4" BRASS MONUMENT, IN
MON CASE, LIGHTLY DINGED,
SOLID CONDITION



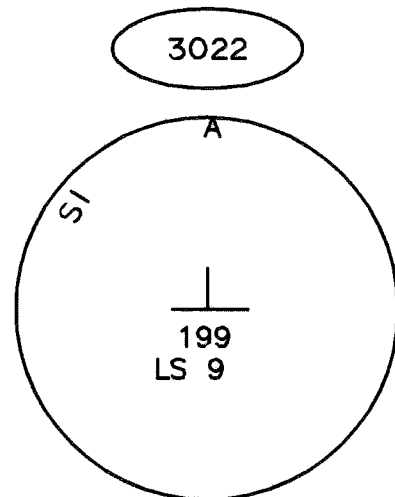
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3 1/4" BRASS MONUMENT, IN
MON CASE, SCRAPPED, SOLID
CONDITION



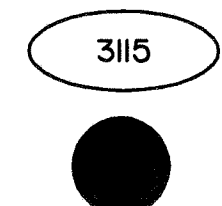
—FOUND—
2" ALUMINUM CAP, DINGED UP,
FLUSH WITH PAVEMENT, SOLID
CONDITION



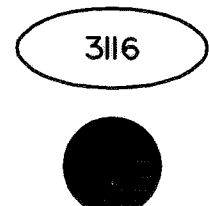
—FOUND—
2" ALUMINUM CAP, BADLY
DINGED UP, FLUSH WITH
PAVEMENT, SOLID CONDITION



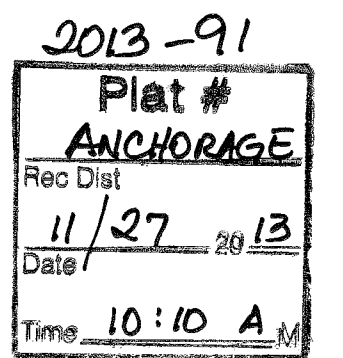
—FOUND—
3 1/4" ALUMINUM MONUMENT, IN
MON CASE, 0.8' BELOW
PAVEMENT, DINGED UP,
SOLID CONDITION



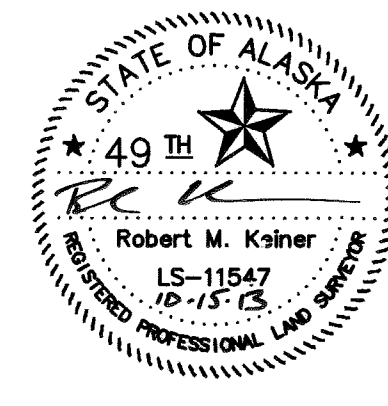
—FOUND—
5/8" REBAR, 0.5' BELOW GRADE,
GOOD CONDITION



—FOUND—
5/8" REBAR, 0.6' BELOW GRADE,
GOOD CONDITION



Record of Survey
This survey does not constitute a subdivision
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Anchorage Recording District
State Business No Fee



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
Survey Control Sheet
Federal Project No.
53942

Abbott Rd Lake Otis to Birch
Located within: Sections 9,10,15,16, T12N, R3W, Seward Meridian, Alaska

DRAWN	MGR	DATE	September 2013	SCALE	N/A
CHECKED	RMK	DATE	OCTOBER 2013	SHEET	3 OF 3