**MEMORANDUM STATE OF ALASKA**

Department of Transportation and Public Facilities

 Division of Statewide Design and Engineering Services

Locations

 **To:** Date: **June 27, 2013**

AKSAS No: **59767**

Phone No: **269-0538**

**From: Travis Test, PLS** Subject: **Pile Bay Road Control Statement**

# Horizontal Control Statement

**Coordinate System:**

This project is located entirely within the Pile Bay Road adjustment, a U.S. Survey Foot local surface grid coordinate system developed by the Alaska Department of Transportation and Public Facilities (AKDOT&PF).

**Basis of Coordinates:**

The Basis of Coordinates is an NGS OPUS solution at an AKDOT&PF Aluminum Monument, GPS Valley. Said station has local coordinates of 50,000.0000 N, 30,000.0000 E.

**Basis of Bearings:**

The Basis of Bearings is a local plane bearing between GPS Valley and GPS Pile, an AKDOT&PF Brass Cap Monument. GPS Pile bears N 44º07’41”W a distance of 35,212.65 U.S. Survey Feet from GPS Valley. GPS Pile has local coordinates of 75,275.0768 N, 5,482.6285 E.

**Translation Parameters:**

To convert the local coordinates to NAD83 (CORS96) (Epoch 2003.0000) Alaska State Plane Zone 5, U.S. Survey Foot coordinates, translate using +2,036,562.2446 N, +1,656,380.1417 E, and scale using 0.99989041515.

To convert the NAD83 (CORS96) (Epoch 2003.0000) Alaska State Plane Zone 5 coordinates to local, U.S. Survey Foot coordinates, scale using 1.00010959686, and translate using -2,036,562.2446 N, -1,656,380.1417 E.