

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 N01°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 +2296868.6878 N U.S. Survey Feet, +1312517.4904 E U.S. Survey Feet, and scale by using 0.9998910192.

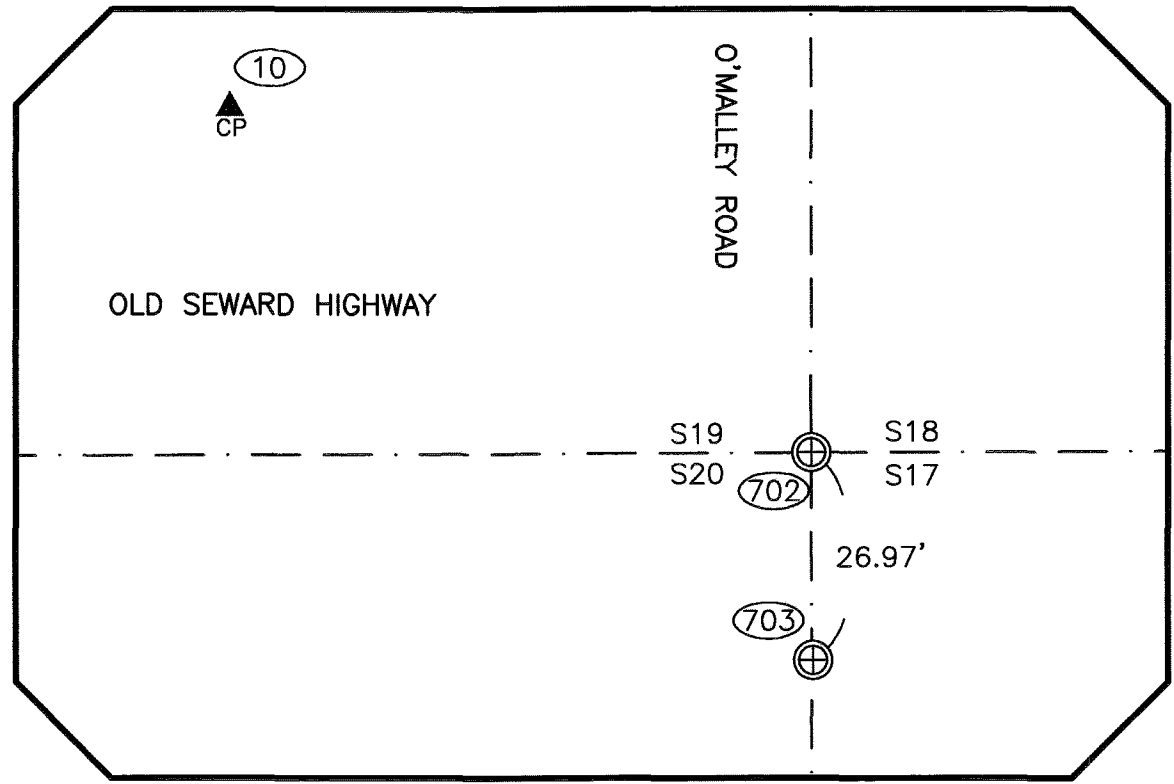
VERTICAL CONTROL STATEMENT

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.

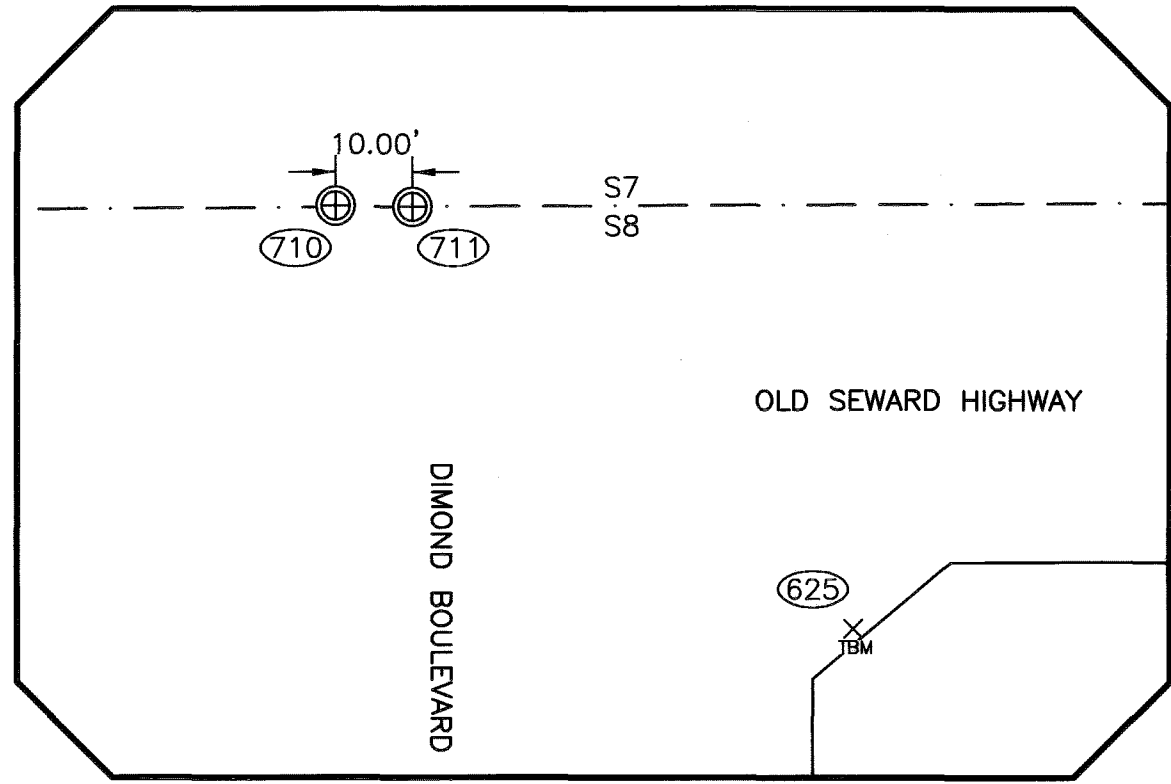
The basis of elevations is MOA Bench Mark "MOA-16", an anchor bolt at the northwest corner of 104th Avenue and Old Seward Highway, having a value of 138.76 feet above MSL.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica LGO 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.

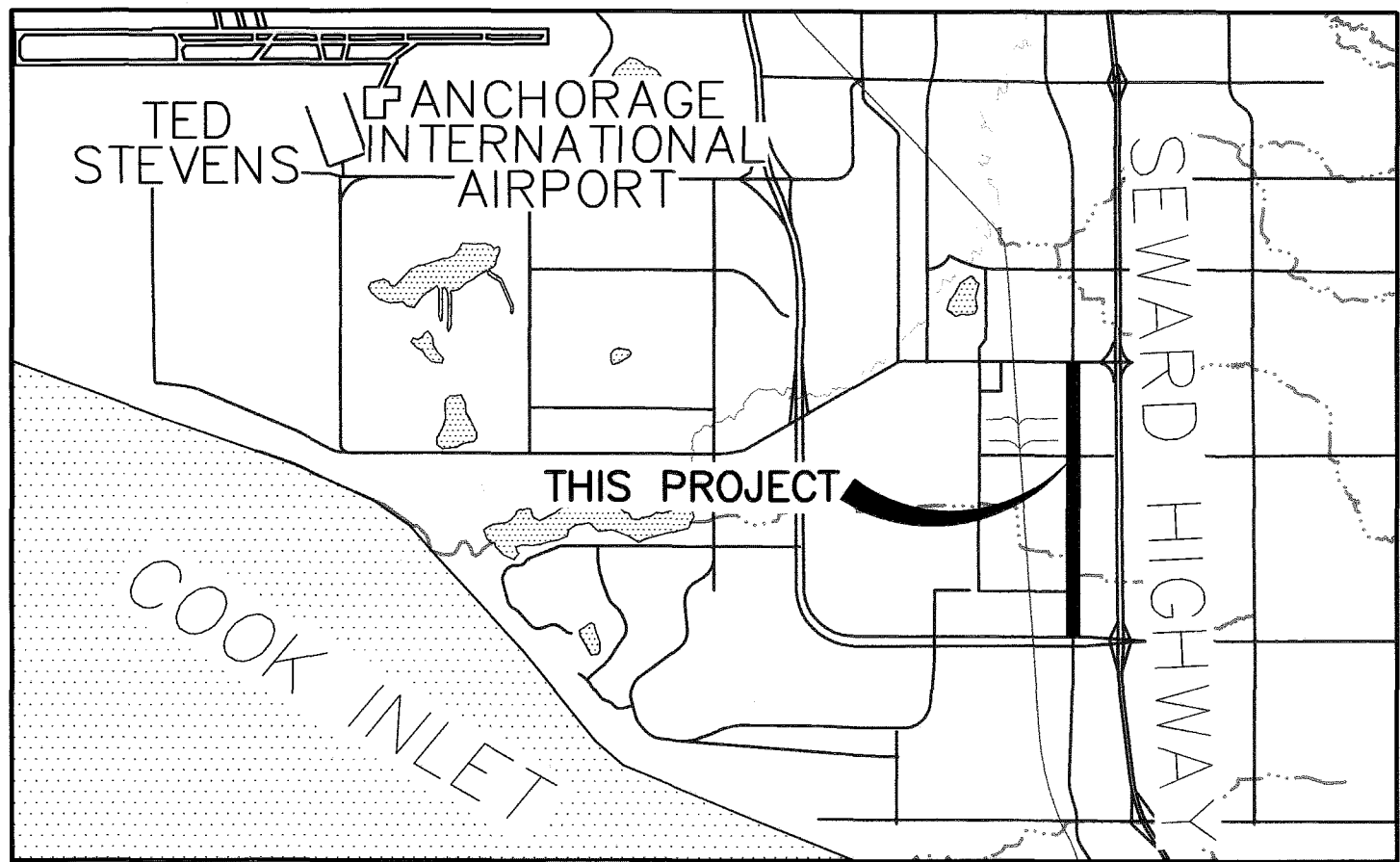
All elevations on control points and benchmarks need to be field verified before they are used.



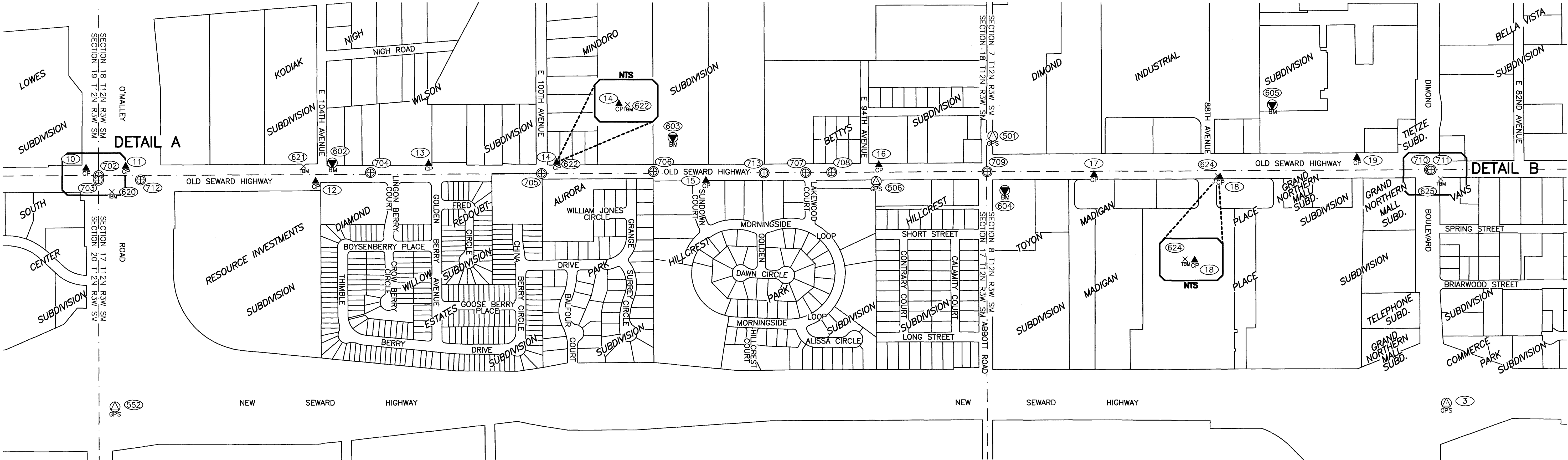
DETAIL A - SCALE 1"=25'



DETAIL B - SCALE 1"=25'



VICINITY MAP
SCALE 1" = 1/12 MILE T12N, R3W, S.M. ALASKA
SOURCE: USGS QUADRANGLE ANCHORAGE
(A-8 NW & A-8 SW) ALASKA DATED 1979 & 1993
Magnetic Declination: 17°52'12" East October 29, 2013
(NOAA/NGDC Geomagnetism Computation)



NOTES:

- The information shown hereon is based on a field survey performed by DOWL HKM in October & November 2013, and January 2014. Background information depicted is shown for orientation purposes only and should not be used for any other purpose.
- This survey was performed to provide survey control, adjoining boundary information, and design level topographic and feature mapping for selected ADA ramps in the Old Seward Highway - O'Malley to Dimond Pavement Preservation Project.
- All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- Title research was not performed as part of this survey, a thorough examination of land title is needed to ensure all easements, restrictions and rights are depicted.
- The field measured distance between OPDMSW (PT#3) and OPOMSW (PT#552) is 0.08' shorter than record per Anchorage Bowl 2000 coordinate system. Coordinates for found Points 3, 552, 501, and 506 are record per ROS 2008-38, Anchorage Recording District.

LEGEND

- Primary Centerline Monument
- GPS Control Station
- Survey Traverse Station
- Vertical Bench Mark
- Temporary Bench Mark
- Survey Point Number
- Property Line
- Section Line

REFERENCE PLANS:

- Seward Hwy 92nd Ave. Grade Separation SCS, 2008, AKSAS No. 59770, Plat No. 2008-38, Anchorage Recording District
- OSH - O'Malley to Dimond, 1997, RS-M-0537(1), AKSAS No. 53178
- OSH - O'Malley to 92nd, 1994, STP-00537(3), AKSAS No. 51542
- OSH - Brandon to O'Malley, 2012, STP-0537(5), AKSAS No. 56958, Plat No. 2012-34, Anchorage Recording District

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.

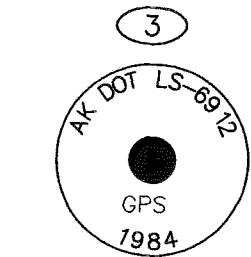
Stanley E. Ponsness, LS-6714
DATE 8/26/2014

ANCHORAGE RECORDING DISTRICT PLAT NO. 2014-72

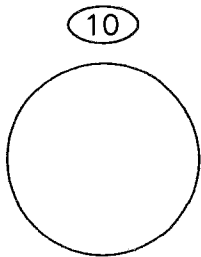
Anchorage Recording District
State Business - No Fee

This survey does not constitute a
subdivision as defined by AS 40.15.900

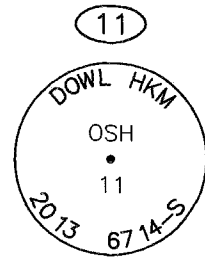
Prepared By: DOWL HKM	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM - RECORD OF SURVEY ALASKA PROJECT NO. AKSAS 56712 OLD SEWARD HIGHWAY - O'MALLEY TO DIMOND PAVEMENT PRESERVATION LOCATED WITHIN SECTIONS 7, 8, 17-20, T.12N. R.3W., SEWARD MERIDIAN, ALASKA		
	DRAWN JPB	DATE 08/26/2014	SCALE 1"=300'
CHECKED SEP	DATE 08/26/2014	SHEET 1 OF 2	



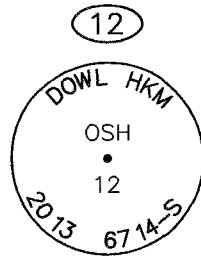
— FOUND —
STAINLESS STEEL
DRIVE ROD W/
ALUMINUM DONUT,
0.5' BELOW GRADE,
GOOD CONDITION



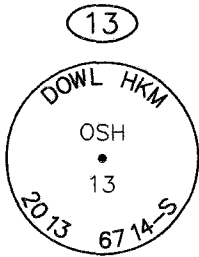
— FOUND —
2" BRASS CAP MONUMENT
SET IN CONC,
FLUSH W/ GRADE,
GOOD CONDITION
(NO MARKINGS)



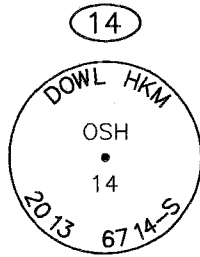
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.25' BELOW
GRADE, GOOD CONDITION



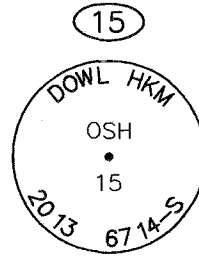
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.3' BELOW
GRADE, GOOD CONDITION



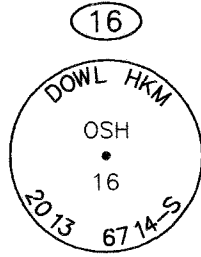
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.3' BELOW
GRADE, GOOD CONDITION



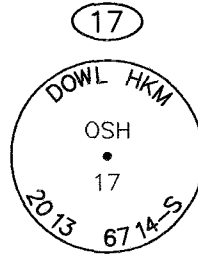
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.25' BELOW
GRADE, GOOD CONDITION



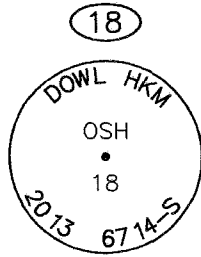
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.3' BELOW
GRADE, GOOD CONDITION



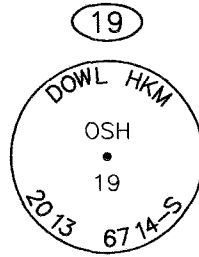
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.3' BELOW
GRADE, GOOD CONDITION



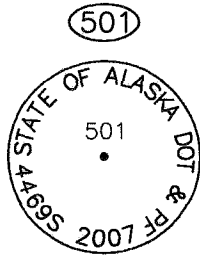
— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.25' BELOW
GRADE, GOOD CONDITION



— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.3' BELOW
GRADE, GOOD CONDITION



— SET —
2" ALUMINUM CAP
MONUMENT ON 5/8"x30"
REBAR, 0.25' BELOW
GRADE, GOOD CONDITION



— FOUND —
2" ALUMINUM CAP
MONUMENT,
0.35' ABOVE GRADE,
GOOD CONDITION



— FOUND —
2" ALUMINUM CAP
MONUMENT,
0.1' ABOVE GRADE,
GOOD CONDITION

HORIZONTAL CONTROL HELD							
NAD83(92) GEODETIC COORDINATES			LOCAL COORDINATES		ELLIPSOID HEIGHT	MOA GAAB 72 ELEVATION	DESCRIPTION
POINT	LATITUDE	LONGITUDE	NORTHING	EASTING			
3	61° 08' 41.89109" N	149° 51' 22.19243" W	313845.2755	353495.0595	177.15	147.47	Fd AD/Rod[LS-6912]: OPDMSW 1994
501	61° 08' 15.38527" N	149° 51' 54.54740" W	311150.1470	351912.4348	148.10	—	Fd AC/Rbr[4469-S]: AKDOT 501
506	61° 08' 08.55993" N	149° 51' 49.06039" W	310457.5729	352183.2773	156.98	—	Fd AC/Rbr[4469-S]: AKDOT 506
552	61° 07' 23.96455" N	149° 51' 22.05844" W	305931.6264	353519.0395	216.13	—	Fd BD/Rbr[NGS]: OPOMSW 1993

Points held from Seward Highway 92nd Avenue, Grade Separation AKSAS No. 59770, Per ROS 2008-38, Anchorage Recording District.

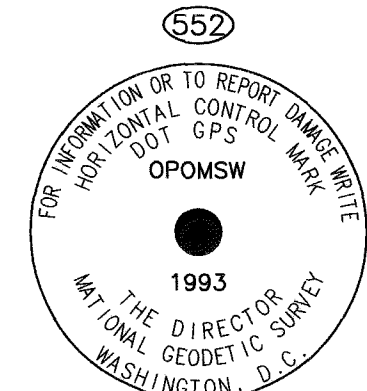
HORIZONTAL CONTROL SET							
NAD83(92) GEODETIC COORDINATES			LOCAL COORDINATES		ELLIPSOID HEIGHT	MOA GAAB 72 ELEVATION	DESCRIPTION
POINT	LATITUDE	LONGITUDE	NORTHING	EASTING			
*10	61° 07' 22.28682" N	149° 51' 50.91609" W	305758.2185	352101.9193	—	—	Fd BC/Conc: CP OSH 10
11	61° 07' 24.61063" N	149° 51' 51.11437" W	305994.1874	352091.6900	193.69	163.87	Set AC/Rbr[6714S]: CP OSH 11
12	61° 07' 35.74155" N	149° 51' 49.26266" W	307124.7522	352180.2896	169.04	139.21	Set AC/Rbr[6714S]: CP OSH 12
13	61° 07' 42.35676" N	149° 51' 51.36694" W	307796.3309	352075.5455	166.10	136.34	Set AC/Rbr[6714S]: CP OSH 13
14	61° 07' 49.86144" N	149° 51' 51.49500" W	308558.4389	352067.6750	166.20	136.44	Set AC/Rbr[6714S]: CP OSH 14
15	61° 07' 58.60291" N	149° 51' 49.26171" W	309446.3884	352175.4991	169.39	139.63	Set AC/Rbr[6714S]: CP OSH 15
16	61° 08' 08.70105" N	149° 51' 51.08949" W	310471.6963	352083.6183	161.09	131.36	Set AC/Rbr[6714S]: CP OSH 16
17	61° 08' 21.29111" N	149° 51' 49.88632" W	311750.3768	352140.0335	149.02	119.42	Set AC/Rbr[6714S]: CP OSH 17
18	61° 08' 28.66781" N	149° 51' 49.56088" W	312499.5361	352154.4510	142.26	112.67	Set AC/Rbr[6714S]: CP OSH 18
19	61° 08' 36.67614" N	149° 51' 51.91680" W	313312.5662	352037.1089	142.67	113.12	Set AC/Rbr[6714S]: CP OSH 19

*Point held from Old Seward Highway - Brandon Street to O'Malley Road, AKSAS No. 56958, Per Plat No. 2012-34, Anchorage Recording District.

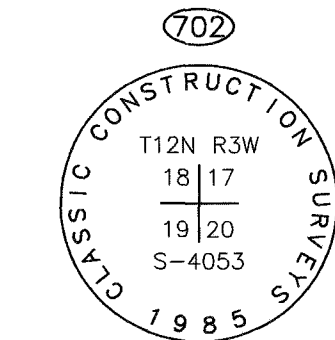
VERTICAL CONTROL HELD							
NAD83(92) GEODETIC COORDINATES			LOCAL COORDINATES		ELLIPSOID HEIGHT	MOA GAAB 72 ELEVATION	DESCRIPTION
POINT	LATITUDE	LONGITUDE	NORTHING	EASTING			
602	61° 07' 36.73" N	149° 51' 51.48" W	307225	352071	161.56	138.76	Fd Anchor Bolt[MOA]: BM MOA 16
603	61° 07' 56.68" N	149° 51' 54.47" W	309251	351920	164.04	141.28	Fd Anchor Bolt[MOA]: BM MOA 13
604	61° 08' 16.08" N	149° 51' 47.97" W	311222	352235	146.03	123.27	Fd Anchor Bolt[MOA]: BM MOA 8
605	61° 08' 31.74" N	149° 51' 58.30" W	312810	351725	137.29	114.58	Fd Anchor Bolt[MOA]: BM MOA 4

VERTICAL CONTROL - TEMPORARY BENCH MARKS							
NAD83(92) GEODETIC COORDINATES			LOCAL COORDINATES		ELLIPSOID HEIGHT	MOA GAAB 72 ELEVATION	DESCRIPTION
POINT	LATITUDE	LONGITUDE	NORTHING	EASTING			
620	61° 07' 23.81" N	149° 51' 48.05" W	305913	352242	188.41	165.58	Marked X: TBM-2487-06[NW Bolt on Traffic Pole on the NE Cor of Old Seward-O'Malley
621	61° 07' 35.05" N	149° 51' 51.08" W	307054	352091	164.97	142.17	Marked X: TBM-2487-05[E Bolt on Light Pole on the W Side of Old Seward S of 104th
622	61° 07' 49.86" N	149° 51' 51.40" W	308559	352072	159.83	137.06	Marked X: TBM-2487-08[E Bolt on Light Pole on the NW Cor of Old Seward-100th
624	61° 08' 28.52" N	149° 51' 49.68" W	312485	352148	137.23	114.48	Marked X: TBM-2487-010[NW Bolt on Traffic Pole on the NE Cor of Old Seward-B8th
625	61° 08' 41.59" N	149° 51' 49.30" W	313812	352164	137.88	115.14	Marked X: TBM-2487-011[NW Bolt on Traffic Pole on the NE Cor of Old Seward-Dimond

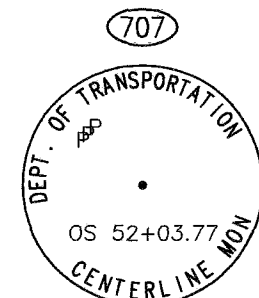
RECOVERED MONUMENTS					
NAD83(92) GEODETIC COORDINATES			LOCAL COORDINATES		DESCRIPTION
POINT	LATITUDE	LONGITUDE	NORTHING	EASTING	
702	61° 07' 23.03406" N	149° 51' 50.00234" W	305834.1961	352146.6451	Fd BC/BX [LS-4053]: S18[S17/S19]S20 T12N R3W SM
703	61° 07' 23.03599" N	149° 51' 49.45324" W	305834.4484	352173.6162	Fd BC/BX [DOT]: PI OS 144+68.58
704	61° 07' 38.95851" N	149° 51' 50.27510" W	307451.3401	352129.8851	Fd BC/BX [DOT]: PI OS 26+17.48
705	61° 07' 48.98153" N	149° 51' 50.15825" W	308469.2174	352133.5071	Fd AC/BX [LS-5464]: 1/4 S18[S17 T12N R3W SM
706	61° 07' 55.52758" N	149° 51' 50.34571" W	309133.9686	352122.9189	Fd BC/BX [DOT]: OS 43+00.08
707	61° 08' 04.42485" N	149° 51' 50.15119" W	310037.5317	352130.5919	Fd BC/BX [DOT]: OS 52+03.77
708	61° 08' 05.94675" N	149° 51' 50.20112" W	310192.0806	352127.8187	Fd BC/BX [DOT]: OS 53+58.35
709	61° 08' 15.03947" N	149° 51' 50.22510" W	311115.4698	352124.7213	Fd BC/BX: S7[S8/S18]S17 T12N R3W SM
710	61° 08' 40.92672" N	149° 51' 50.42582" W	313744.3767	352109.4015	Fd BC/BX [LS-4053]:
711	61° 08' 41.02516" N	149° 51' 50.42276" W	313754.3742	352109.5307	Fd BC/BX: 1/4 S7[S8 T12N R3W SM
712	61° 07' 25.49543" N	149° 51' 49.46890" W	306084.2099	352172.3269	Fd BC/BX [DOT]: PC OS 147+18.56
713	61° 08' 02.00894" N	149° 51' 50.13909" W	309792.1900	352131.6961	Fd BC/BX: PI OS 49+58.38



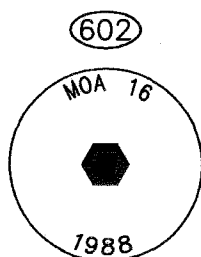
— FOUND —
STAINLESS STEEL DRIVE
ROD W/ BRASS DONUT,
FLUSH W/ GRADE,
GOOD CONDITION



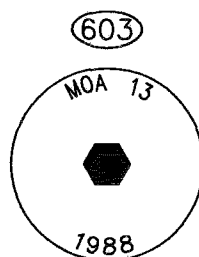
— FOUND —
2 3/4" BRASS CAP
MONUMENT IN MON CASE,
0.40' BELOW LIP,
MOSTLY LEGIBLE,
GOOD CONDITION



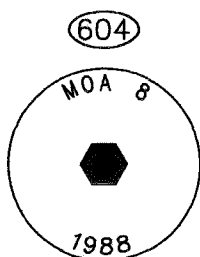
— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.3' BELOW CASE LIP,
MOSTLY LEGIBLE,
GOOD CONDITION



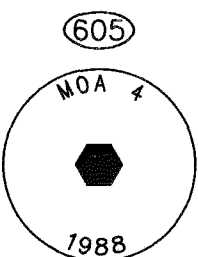
— FOUND —
ANCHOR BOLT,
SET VERTICALLY,
0.8' ABOVE GRADE,
GOOD CONDITION



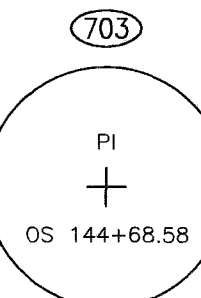
— FOUND —
ANCHOR BOLT,
SET VERTICALLY,
0.9' ABOVE GRADE,
GOOD CONDITION



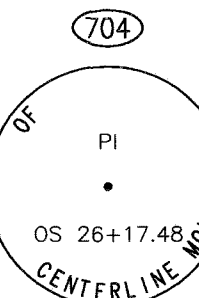
— FOUND —
ANCHOR BOLT,
SET VERTICALLY,
1' ABOVE GRADE,
GOOD CONDITION



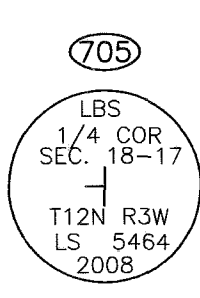
— FOUND —
ANCHOR BOLT,
SET VERTICALLY,
1.4' ABOVE GRADE,
GOOD CONDITION



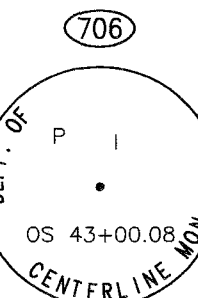
— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.6' BELOW CASE LIP,
MOSTLY LEGIBLE,
GOOD CONDITION



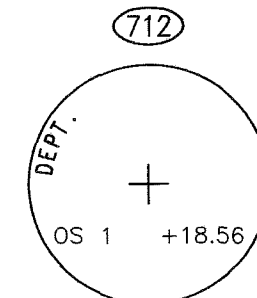
— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.3' BELOW CASE LIP,
MOSTLY LEGIBLE,
GOOD CONDITION



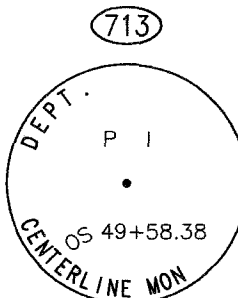
— FOUND —
2" ALUMINUM CAP
MONUMENT IN MON CASE,
0.4' BELOW LIP,
GOOD CONDITION



— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.35' BELOW CASE LIP,
MOSTLY LEGIBLE,
GOOD CONDITION



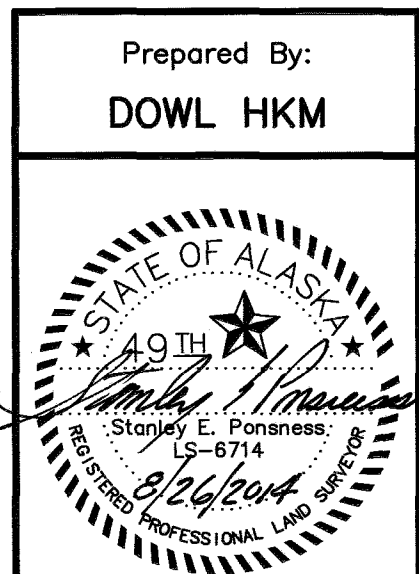
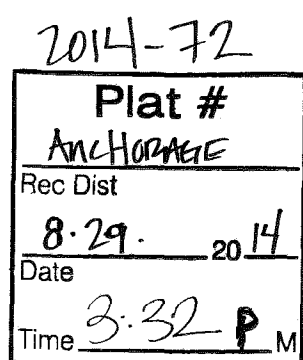
— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.45' BELOW CASE LIP,
MARRED & PARTIALLY
LEGIBLE,
BENT



— FOUND —
2 1/2" BRASS CAP
MONUMENT IN MON CASE,
0.3' BELOW CASE LIP,
MOSTLY LEGIBLE,
GOOD CONDITION

Anchorage Recording District
State Business - No Fee

This survey does not constitute a
subdivision as defined by AS 40.15.900



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM - RECORD OF SURVEY ALASKA PROJECT NO. AKSAS 56712 OLD SEWARD HIGHWAY - O'MALLEY TO DIMOND PAVEMENT PRESERVATION LOCATED WITHIN SECTIONS 7, 8, 17-20, T.12N. R.3W., SEWARD MERIDIAN, ALASKA			
DRAWN	JPB	DATE	08/26/2014
CHECKED	SEP	DATE	08/26/2014
SCALE	N/A	SHEET	2 OF 2