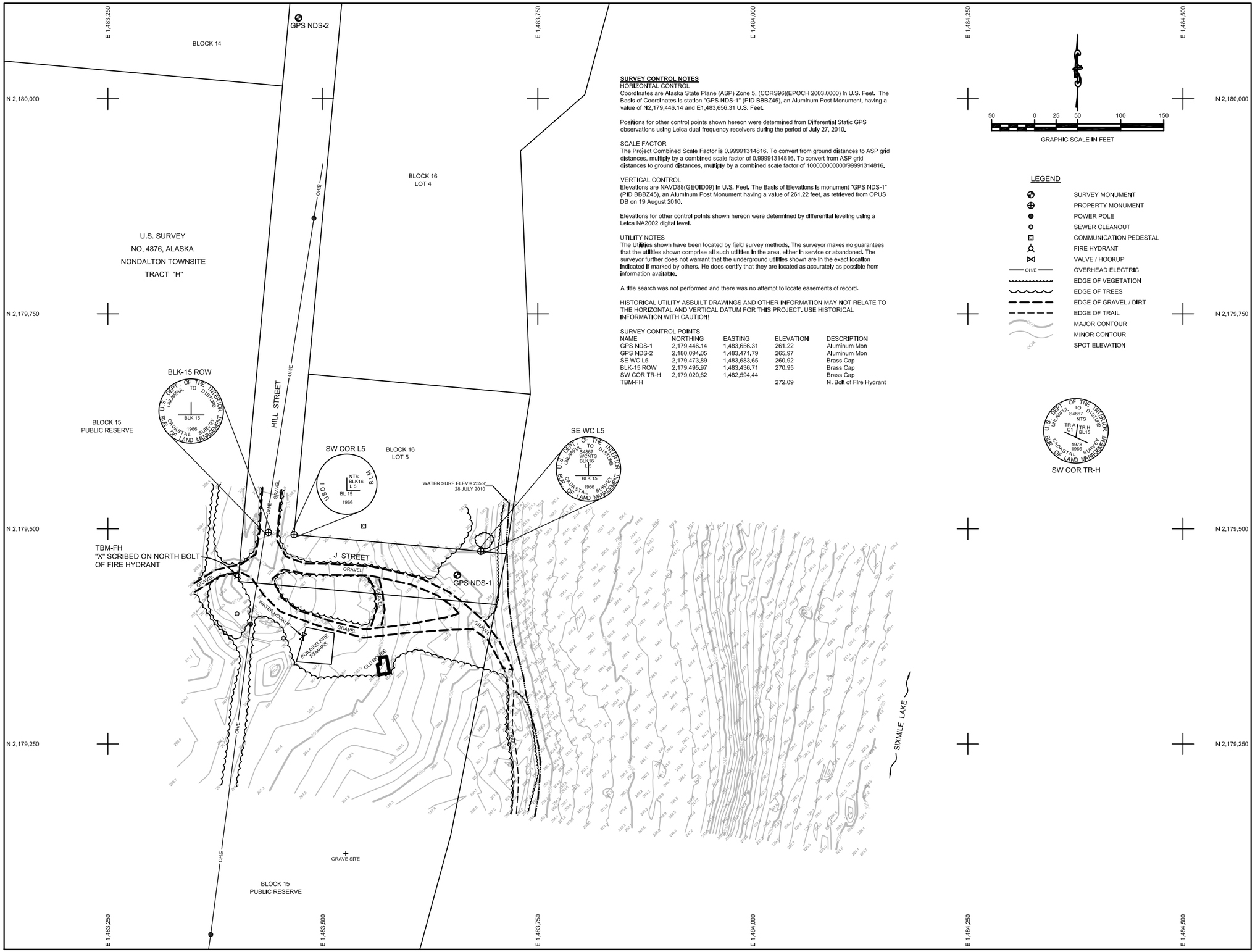

SURVEY CONTROL NOTES

HORIZONTAL CONTROL
Coordinates are Alaska State Plane (ASP) Zone 5, (CORS96)(EPOCH 2003.0000) In U.S. Feet. The Basis of Coordinates Is station "GPS NDS-1" (PID BBBZ45), an Aluminum Post Monument, having a value of N2,179,446.14 and E1,483,656.31 U.S. Feet.

Positions for other control points shown hereon were determined from Differential Static GPS observations using Leica dual frequency receivers during the period of July 27, 2010.

SCALE FACTOR
The Project Combined Scale Factor is 0.99991314816. To convert from ground distances to ASP grid distances, multiply by a combined scale factor of 0.99991314816. To convert from ASP grid distances to ground distances, multiply by a combined scale factor of 100000000000/99991314816.

VERTICAL CONTROL
Elevations are NAVD88(GEOID09) In U.S. Feet. The Basis of Elevations Is monument "GPS NDS-1" (PID BBBZ45), an Aluminum Post Monument having a value of 261.22 feet, as retrieved from OPUS DB on 19 August 2010.

Elevations for other control points shown hereon were determined by differential levelling using a Leica NA2002 digital level.

UTILITY NOTES
The Utilities shown have been located by field survey methods. The surveyor makes no guarantees that the utilities shown comprise all such utilities In the area, either In service or abandoned. The surveyor further does not warrant that the underground utilities shown are In the exact location indicated if marked by others. He does certify that they are located as accurately as possible from information available.

A title search was not performed and there was no attempt to locate easements of record.

HISTORICAL UTILITY ASBUILT DRAWINGS AND OTHER INFORMATION MAY NOT RELATE TO THE HORIZONTAL AND VERTICAL DATUM FOR THIS PROJECT. USE HISTORICAL INFORMATION WITH CAUTION!

SURVEY CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
GPS NDS-1	2,179,446.14	1,483,656.31	261.22	Aluminum Mon
GPS NDS-2	2,180,094.05	1,483,471.79	265.97	Aluminum Mon
SE WC L5	2,179,473.89	1,483,683.65	260.92	Brass Cap
BLK-15 ROW	2,179,495.97	1,483,436.71	270.95	Brass Cap
SW COR TR-H	2,179,020.62	1,482,594.44		Brass Cap
TBM-FH			272.09	N. Bolt of Fire Hydrant

50 0 25 50 100 150
GRAPHIC SCALE IN FEET

LEGEND

- SURVEY MONUMENT
- PROPERTY MONUMENT
- POWER POLE
- SEWER CLEANOUT
- COMMUNICATION PEDESTAL
- FIRE HYDRANT
- VALVE / HOOKUP
- OH/E — OVERHEAD ELECTRIC
- EDGE OF VEGETATION
- EDGE OF TREES
- EDGE OF GRAVEL / DIRT
- EDGE OF TRAIL
- 100 — MAJOR CONTOUR
- 99 — MINOR CONTOUR
- XX.XX — SPOT ELEVATION

SW COR TR-H

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

CONTRACT NO: W911KB-07-D-0001
CONTRACTOR: DOWL ENGINEERS
CITY: ANCHORAGE STATE: ALASKA
Recommended: Project Contractor
Approved: Chief Survey Section
Date:

Revision	Date	Description	By	Approv

Date: 06 SEPT 2010
File Name: AKV2010101
Job Number: 1310
Scale: 1"=50'

Surveyed: DOWL/HKM
Drawn: MWD
Checked: SEP / TAS
Approved: JHZ

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DOWL ENGINEERS

NONDALTON, ALASKA
DOCK & LAUNCH RAMP
TOPOGRAPHY

Reference number:
5-NON-92-06-01

Sheet 1 of 1