

## Appendix B

### Abbreviations and Acronyms

1-D	One dimensional
2-D	Two-dimensional
3-D	Three-dimensional
2DRMS	Two (standard) deviations root mean square
A-E	Architect-Engineer
A/S	Anti-Spoofing
ABGPS	Airborne GPS
ACSM	American Congress on Surveying and Mapping
AFARS	Army Federal Acquisition Regulation Supplement
ALTA	American Land Title Association
APC	Antenna phase center
ARP	Antenna reference point
ASCE	American Society of Civil Engineers
ASPRS	American Society of Photogrammetry and Remote Sensing
BIH	Bureau International Heure
C/A-code	Coarse Acquisition Code
CADD	Computer Aided Design and Drafting
CDC	Consecutive Doppler Counts
CDMS	Continuous Deformation Monitoring System
CEP	Circular error probable
CID	Continuously Integrated Doppler
cm	centimeter
CONUS	Continental United States
CORS	Continuously Operating Reference Station
CTP	Conventional Terrestrial Pole
CW	Civil Works
DFARS	Defense Federal Acquisition Regulation Supplement
DGPS	Differential GPS
DMA	Defense Mapping Agency (now NIMA)
DOP	Dilution of Position
DoD	Department of Defense
DoT	Department of Transportation
E&D	Engineering and design
ECC	estimated construction cost
ECDIS	Electronic Charting and Information System
ECEF	Earth centered earth fixed
EDM	electronic distance measurement
EFARS	Engineer Federal Acquisition Regulation Supplement
EM	Engineer Manual
EP	Engineer Pamphlet
ER	Engineer Regulation
ERDC	Engineer Research and Development Center
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation
FFP	Firm fixed-price
FGCC	Federal Geodetic Control Committee
FGCS	Federal Geodetic Control Subcommittee
FGDC	Federal Geographic Data Committee

FOC .....	Full Operational Capability
FRP .....	Federal Radionavigation Plan
FRS .....	Federal Radionavigation Systems
ft .....	foot or feet
FY .....	Fiscal Year
G&A .....	General & Administrative (overhead)
GDOP .....	Geometric dilution of precision
GIS.....	Geographic Information System
GLONASS.....	Global Orbiting Satellite Navigation System
GNSS .....	Global Satellite Navigation System
GPS.....	Global Positioning System
GRS 80.....	Geodetic Reference System of 1980
HARNS.....	High Accuracy Reference Networks
HDOP .....	Horizontal dilution of precision
HI.....	Height of Instrument
HPGN .....	High Precision Geodetic Network
HQUSACE .....	Headquarters, US Army Corps of Engineers
IDC .....	Indefinite Delivery Contract
IERS.....	International Earth Rotation Service
IGE.....	Internal Government Estimate
IGLD 55 .....	International Great Lakes Datum of 1955
IGLD 85 .....	International Great Lakes Datum of 1985
IGS.....	International GPS Services
IID .....	Intermittently Integrated Doppler
IMU .....	Inertial Measurement Unit
IOC .....	Initial Operating Capability
IRON .....	Inter Range Operation Number
ITRF.....	International Terrestrial Reference Frame
JPO .....	Joint Program Office
KO .....	Contracting Officer
LAAS.....	Local Area Augmentation System
LIDAR .....	Light Detection and Ranging
LMN .....	Local Notice to Mariners
m.....	meter
M-code .....	Military code
MHz.....	Megahertz
MSC.....	Major Subordinate Command
MSE.....	Mean square error
NAD 27 .....	North American Datum of 1927
NAD 83 .....	North American Datum of 1983
NANU.....	Notice: Advisory to Navigation Users
NASA .....	National Aeronautics and Space Administration
NATO .....	North Atlantic Treaty Organization
NAVCEN .....	Navigation Center (US Coast Guard)
NAVD 88 .....	North American Vertical Datum of 1988
NGRS.....	National Geodetic Reference System
NGS .....	National Geodetic Survey
NGVD 29 .....	National Geodetic Vertical Datum of 1929
NIMA.....	National Imagery and Mapping Agency
NIS.....	Navigation Information Service
NMEA.....	National Maritime Electronics Association

NOAA ..... National Oceanic and Atmospheric Administration  
NOS ..... National Ocean Service  
NOTAM ..... Notice to Airmen  
OCONUS ..... Outside the Continental United States  
OPUS ..... On-Line Positioning User Service  
OTF ..... On-The-Fly  
P-code ..... Precise Code or Precision Code  
PDOP ..... Positional Dilution of Precision  
PPS ..... Precise Positioning Service  
PRC ..... Pseudorange correction  
PRN ..... Pseudo-Random Noise  
PROSPECT ..... Proponent Sponsored Engineer Corps Training  
PVT ..... Position-Velocity-Time  
RINEX ..... Receiver INdependent EXchange  
RMS ..... Root mean square  
RTCM ..... Radio Technical Commission for Maritime Services  
RTK ..... Real-Time Kinematic  
S/A ..... Selective availability  
SCOUT ..... Scripps Coordinate Update Tool  
SIS ..... Signal in space  
SPCS ..... State Plane Coordinate System  
SPCS 27 ..... State Plane Coordinate System of 1927  
SPCS 83 ..... State Plane Coordinate System of 1983  
SPS ..... Standard Positioning Service  
TEC ..... Topographic Engineering Center  
U/M ..... Unit of Measure  
U/P ..... Unit Price  
UERE ..... user equivalent range error  
UHF ..... Ultra high frequency  
URE ..... User range error  
USACE ..... US Army Corps of Engineers  
USFS ..... US Forest Service  
USGS ..... US Geological Survey  
UT ..... Universal Time  
UTC ..... Universal Time Coordinated  
UTM ..... Universal Transverse Mercator  
VAC ..... Volts alternating current  
VDC ..... Volts direct current  
VDOP ..... Vertical dilution of precision  
VHF ..... Very high frequency  
VLBI ..... Very long baseline interferometry  
WAAS ..... Wide Area Augmentation System (FAA)  
WGS 84 ..... World Geodetic System of 1984