

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = ,PROGRAM = datasheet, VERSION = 7.71
1 National Geodetic Survey, Retrieval Date = SEPTEMBER 30, 2009
KK1753 *****
KK1753 DESIGNATION - ALLEN
KK1753 PID - KK1753
KK1753 STATE/COUNTY- CO/ADAMS
KK1753 USGS QUAD - ARVADA (1994)
KK1753
KK1753 *CURRENT SURVEY CONTROL
KK1753
KK1753* NAD 83(2007)- 39 51 40.26627(N) 105 03 10.68609(W) ADJUSTED
KK1753* NAVD 88 - 1689.890 (meters) 5544.25 (feet) ADJUSTED
KK1753
KK1753 EPOCH DATE - 2002.00
KK1753 X - -1,273,597.245 (meters) COMP
KK1753 Y - -4,735,613.509 (meters) COMP
KK1753 Z - 4,067,238.664 (meters) COMP
KK1753 LAPLACE CORR- -10.08 (seconds) DEFLEC99
KK1753 ELLIP HEIGHT- 1672.859 (meters) (02/10/07) ADJUSTED
KK1753 GEOID HEIGHT- -16.94 (meters) GEOID03
KK1753 DYNAMIC HT - 1688.272 (meters) 5538.94 (feet) COMP
KK1753
KK1753 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
KK1753 Type PID Designation North East Ellip
KK1753 -----
KK1753 NETWORK KK1753 ALLEN 0.86 0.59 1.27
KK1753 -----
KK1753 MODELED GRAV- 979,609.3 (mgal) NAVD 88
KK1753
KK1753 VERT ORDER - SECOND CLASS I
KK1753
KK1753.The horizontal coordinates were established by GPS observations
KK1753.and adjusted by the National Geodetic Survey in February 2007.
KK1753
KK1753.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
KK1753.See National Readjustment for more information.
KK1753.The horizontal coordinates are valid at the epoch date displayed above.
KK1753.The epoch date for horizontal control is a decimal equivalence
KK1753.of Year/Month/Day.
KK1753
KK1753.The orthometric height was determined by differential leveling
KK1753.and adjusted in June 2009.
KK1753
KK1753.The X, Y, and Z were computed from the position and the ellipsoidal ht.
KK1753
KK1753.The Laplace correction was computed from DEFLEC99 derived deflections.
KK1753
KK1753.The ellipsoidal height was determined by GPS observations
KK1753.and is referenced to NAD 83.
KK1753
KK1753.The geoid height was determined by GEOID03.
KK1753
KK1753.The dynamic height is computed by dividing the NAVD 88
KK1753.geopotential number by the normal gravity value computed on the
KK1753.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

```

KK1753.degrees latitude (g = 980.6199 gals.).

KK1753

KK1753.The modeled gravity was interpolated from observed gravity values.

KK1753

KK1753;		North	East	Units	Scale	Factor	Converg.
KK1753;SPC CO N	-	363,504.228	952,651.838	MT	0.99997982		+0 17 19.8
KK1753;SPC CO N	-	1,192,596.79	3,125,491.91	sFT	0.99997982		+0 17 19.8
KK1753;UTM 13	-	4,412,351.647	495,469.495	MT	0.99960025		-0 02 02.2

KK1753

KK1753! - Elev Factor x Scale Factor = Combined Factor

KK1753!SPC CO N - 0.99973763 x 0.99997982 = 0.99971745

KK1753!UTM 13 - 0.99973763 x 0.99960025 = 0.99933798

KK1753

KK1753	PID	Reference Object	Distance	Geod. Az
KK1753				ddmmss.s
KK1753	CP7283	ALLEN RM 1	8.484 METERS	02745
KK1753	KK1745	NORTHGLENN MUN TANK	APPROX. 4.3 KM	0574416.6
KK1753	KK1767	ALLEN AZ MK	APPROX. 0.6 KM	1513818.1
KK1753	CP7284	ALLEN RM 2	8.269 METERS	18637

KK1753

KK1753 SUPERSEDED SURVEY CONTROL

KK1753

KK1753	ELLIP H (12/03/02)	1672.885 (m)		GP()	4 2
KK1753	NAD 83(1992)-	39 51 40.26577(N)	105 03 10.68547(W)	AD()	1
KK1753	ELLIP H (05/15/96)	1672.921 (m)		GP()	3 1
KK1753	NAD 83(1992)-	39 51 40.26397(N)	105 03 10.68737(W)	AD()	1
KK1753	NAD 83(1986)-	39 51 40.25996(N)	105 03 10.68539(W)	AD()	1
KK1753	NAD 27	- 39 51 40.31240(N)	105 03 08.74698(W)	AD()	1
KK1753	NGVD 29 (07/19/86)	1688.8 (m)	5541. (f)	VERT ANG	

KK1753

KK1753.Superseded values are not recommended for survey control.

KK1753.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KK1753.[See file dsdata.txt](#) to determine how the superseded data were derived.

KK1753

KK1753_U.S. NATIONAL GRID SPATIAL ADDRESS: 13SDE9546912352(NAD 83)

KK1753_MARKER: DH = HORIZONTAL CONTROL DISK

KK1753_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KK1753_SP_SET: SET IN TOP OF CONCRETE MONUMENT

KK1753_STAMPING: ALLEN 1977

KK1753_MARK LOGO: NGS

KK1753_MAGNETIC: N = NO MAGNETIC MATERIAL

KK1753_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KK1753+STABILITY: SURFACE MOTION

KK1753_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KK1753+SATELLITE: SATELLITE OBSERVATIONS - April 14, 2006

KK1753

KK1753	HISTORY	- Date	Condition	Report By
KK1753	HISTORY	- 1977	MONUMENTED	NGS
KK1753	HISTORY	- 19810728	GOOD	CHANCE
KK1753	HISTORY	- 19840307	GOOD	NGS
KK1753	HISTORY	- 19951006	GOOD	CHANCE
KK1753	HISTORY	- 20020617	GOOD	CODOT
KK1753	HISTORY	- 20060414	GOOD	GEOCAC

KK1753

KK1753 STATION DESCRIPTION

KK1753

KK1753'DESCRIBED BY NATIONAL GEODETIC SURVEY 1977 (LHW)

KK1753'THE STATION IS LOCATED IN THE CITY OF WESTMINSTER, ON THE

KK1753'JEFFERSON COUNTY LINE, ON A 20 FOOT HIGH CUTBANK ON THE EAST

KK1753'SIDE OF SHERIDAN BOULEVARD, 0.1 MILE NORTHEAST OF THE OVERPASS

KK1753'OF U.S. HIGHWAY 36, 1 MILE WEST-NORTHWEST OF THE SHAW HEIGHTS

KK1753'JUNIOR HIGH SCHOOL, ON ROAD RIGHT-OF-WAY.

KK1753'

KK1753'TO REACH THE STATION FROM THE JUNCTION OF WEST 88TH AVENUE AND

KK1753'CIRCLE DRIVE AT THE SHAW HEIGHTS JUNIOR HIGH SCHOOL, GO WEST
KK1753'ON WEST 88TH AVENUE FOR 0.55 MILE TO THE SOUTHWEST CORNER OF
KK1753'AN ELEMENTARY SCHOOL (ROAD NARROWS TO 2 LANES) AND THE AZIMUTH
KK1753'MARK ON THE RIGHT. CONTINUE WEST, THEN NORTH ON THE PAVED
KK1753'ROAD TO A ROAD RIGHT, A ROAD CURVE LEFT, AND A CUTBANK STRAIGHT
KK1753'AHHEAD. DRIVE NORTH UP THE CUTBANK ALONG THE FENCE FOR 0.1 MILE
KK1753'TO HIGH GROUND AND THE STATION.
KK1753'

KK1753'STATION MARKS, STAMPED---ALLEN 1977---, ARE STANDARD DISKS.
KK1753'THE SURFACE DISK IS SET IN THE TOP OF A 12-INCH ROUND CONCRETE
KK1753'MONUMENT FLUSH WITH THE GROUND. IT IS 97 FEET (SLOPE) EAST OF
KK1753'THE EAST EDGE OF SHERIDAN BOULEVARD, 97 FEET NORTH OF UTILITY
KK1753'POLE 8830, 20 FEET SOUTH OF UTILITY POLE 8850, AND 6.3 FEET
KK1753'WEST OF A METAL WITNESS POST IN A FENCE LINE. UNDERGROUND
KK1753'DISK IS SET IN THE TOP OF AN IRREGULAR CONCRETE MASS ABOUT 42
KK1753'INCHES BELOW GROUND.
KK1753'

KK1753'REFERENCE MARK 1, STAMPED---ALLEN NO 1 1977---, IS A STANDARD
KK1753'DISK SET IN THE TOP OF A 12-INCH ROUND CONCRETE MONUMENT FLUSH
KK1753'WITH THE GROUND. IT IS 14.5 FEET SOUTH-SOUTHEAST OF A FENCE
KK1753'POST WITH AN INVERTED VEE BRACE, 8.5 FEET NORTHEAST OF POLE
KK1753'8850, AND 1 FOOT WEST OF THE FENCE.
KK1753'

KK1753'REFERENCE MARK 2, STAMPED---ALLEN NO 2 1977---, IS A STANDARD
KK1753'DISK SET IN THE TOP OF A 12-INCH ROUND CONCRETE MONUMENT 1-INCH
KK1753'BELOW GROUND. IT IS 71.5 FEET NORTH OF POLE 8830, 47 FEET
KK1753'SOUTH OF POLE 8850, AND 1 FOOT WEST OF A METAL WITNESS POST IN
KK1753'THE FENCE LINE.
KK1753'

KK1753'AZIMUTH MARK, STAMPED---ALLEN 1977---, IS A STANDARD DISK
KK1753'CEMENTED IN A DRILL HOLE IN THE CONCRETE SIDEWALK ON THE NORTH
KK1753'SIDE OF WEST 88TH AVENUE. IT IS 46 FEET NORTH OF THE CENTER OF
KK1753'THE ROAD, 4.5 FEET SOUTH OF A CHAIN LINK FENCE CORNER AROUND A
KK1753'SCHOOL PLAYGROUND, AND 1 FOOT EAST OF THE WEST END OF THE WALK.
KK1753'

KK1753'HEIGHT OF LIGHT ABOVE STATION MARK WAS 1 METER.

KK1753'A 1/2-INCH RE-ENFORCEMENT ROD WAS SET AT THE MONUMENTS.

KK1753

KK1753

STATION RECOVERY (1981)

KK1753

KK1753'RECOVERY NOTE BY JE CHANCE AND ASSOCIATES 1981 (CLN)

KK1753'THE STATION MARK, REFERENCE MARKS 1, 2 AND AZIMUTH MARK WERE RECOVERED
KK1753'IN GOOD CONDITION. THE LOCATION AND TO REACH WERE GOOD. A WITNESS
KK1753'POST SIGN AND A WITNESS POST WERE SET AT REFERENCE MARK 1 AS
KK1753'CONSTRUCTION MAY SOON OCCUR NEAR THE STATION. REFERENCE MARK 1 IS
KK1753'0.25 M (0.82 FT) WEST OF THE WITNESS POST. THE AZIMUTH MARK IS
KK1753'BLOCKED BY A CHAIN LINK FENCE THAT IS ABOUT 8 FEET (2.4 M) HIGH SO A
KK1753'TALL TRIPOD WILL BE NEEDED. THE DISTANCES AND DIRECTIONS CHECKED THE
KK1753'OLD VALUES.
KK1753'

KK1753

KK1753

STATION RECOVERY (1984)

KK1753

KK1753'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1984 (CLN)

KK1753'THE STATION MARK, REFERENCE MARKS 1, 2 AND THE AZIMUTH MARK WERE
KK1753'RECOVERED IN GOOD CONDITION AND AS DESCRIBED IN 1977. AN AZIMUTH MARK
KK1753'NUMBER 2 WAS SET AT THIS TIME AS CONSTRUCTION WILL SOON BLOCK THE LINE
KK1753'OF SIGHT TO AZIMUTH MARK NUMBER 1. ANGLES AND DISTANCES CHECKED THE
KK1753'1977 AND 1981 DATA WITH THE EXCEPTION OF THE ANGLE FROM AZIMUTH MARK
KK1753'NUMBER 1 TO THE WESTMINSTER RAD STA KLOP TOWER WHICH WAS OFF BY 22.6
KK1753'SECONDS. I ASSUMED THE TOWER HAS MOVED AS THE OTHER ANGLES CHECKED
KK1753'WELL. THE DISTANCE BETWEEN REFERENCE MARKS 1 AND 2 MEASURED AT THIS
KK1753'TIME WAS 16.454 M (53.983 FT) .
KK1753'

KK1753'

KK1753'AZIMUTH MARK NO 2 IS A STANDARD NGS DISK STAMPED--ALLEN 1977 NO 2
KK1753'1984--, SET INTO THE TOP OF A CONCRETE SIDEWALK. LOCATED 34.4 M
KK1753'(112.9 FT) SOUTHWEST FROM THE BRUNSWICK BOWL LANES SIGN (SOUTHSIDE OF

KK1753'SIGN), 3.9 M (12.8 FT) SOUTH FROM THE CENTER OF WEST 91ST AVENUE,
KK1753'12.5 M (41.0 FT) WEST FROM THE CENTER OF THE NORTHWEST ENTRANCE TO
KK1753'WESTMINISTER MALL, 0.8 M (2.6 FT) SOUTH FROM THE SOUTHERN CURB OF THE
KK1753'AVENUE. TO REACH THE AZIMUTH MARK FROM THE INTERSECTION OF SHERIDAN
KK1753'BLVD. AND WEST 88TH AVENUE, GO WEST ON WEST 88TH AVENUE FOR 0.2 KM
KK1753'(0.10 MI) TO A SIDE ROAD RIGHT. TURN RIGHT, NORTH, ON NORTH BENTON
KK1753'STREET FOR 0.5 KM (0.30 MI) TO THE INTERSECTION OF WEST 91ST AVENUE.
KK1753'TURN LEFT, WEST, ON WEST 91ST AVENUE FOR 0.3 KM (0.20 MI) TO THE
KK1753'AZIMUTH MARK ON THE LEFT.

KK1753

KK1753

STATION RECOVERY (1995)

KK1753

KK1753'RECOVERY NOTE BY JE CHANCE AND ASSOCIATES 1995 (FND)

KK1753'STATION AND REFERENCE MARKS NO. 1 AND NO. 2 WERE RECOVERED IN GOOD
KK1753'CONDITION AS DESCRIBED. A NEW DESCRIPTION FOLLOWS\$THE STATION IS
KK1753'LOCATED IN THE CITY OF WESTMINSTER, ALONG THE JEFFERSON COUNTY-ADAMS
KK1753'COUNTY LINE, AT THE TOP OF A 20 FOOT (6.1 M) HIGH CUTBANK ALONG THE
KK1753'EAST SIDE OF SHERIDAN BOULEVARD, 5 MI (8.0 KM) SOUTH-SOUTHEAST OF
KK1753'BROOMFIELD, 4 MI (6.4 KM) EAST OF STANLEY LAKE, IN THE SOUTHWEST 1/4
KK1753'OF SECTION 19, T 2 S, R 68 W, 6TH P.M. OWNERSHIP--COLORADO DEPARTMENT
KK1753'OF TRANSPORTATION\$TO REACH THE STATION FROM THE INTERSECTION OF U.S.
KK1753'HIGHWAY 36 AND SHERIDAN BOULEVARD (STATE HIGHWAY 95) , GO NORTHEAST
KK1753'ALONG SHERIDAN BOULEVARD (HIGHWAY 95) FOR 0.15 MI (0.24 KM) TO THE
KK1753'STATION ON THE RIGHT. CONTINUE AHEAD AND GO NORTHEAST AND NORTH ALONG
KK1753'SHERIDAN BOULEVARD (HIGHWAY 95) FOR 0.15 MI (0.24 KM) TO THE
KK1753'INTERSECTION WITH W. 92ND AVENUE. TURN RIGHT AND GO EAST ALONG W.
KK1753'92ND AVENUE FOR 0.15 MI (0.24 KM) TO THE INTERSECTION WITH YATES
KK1753'STREET ON THE RIGHT. TURN RIGHT AND GO SOUTH AND SOUTHEAST ALONG
KK1753'YATES STREET FOR 0.2 MI (0.3 KM) TO A POINT OF CURVATURE TO THE LEFT
KK1753'NEAR THE TOP OF AN EAST-WEST RUNNING RIDGE AND A DIRT TRACK ROAD TO
KK1753'THE RIGHT. TURN RIGHT, CROSSING THE CURB AND SIDEWALK, AND GO WEST
KK1753'ALONG THE DIRT TRACK ROAD AND THE RIDGE FOR 0.1 MI (0.2 KM) TO THE
KK1753'RIGHT-OF-WAY FENCE OF SHERIDAN BOULEVARD AND THE STATION\$THE STATION
KK1753'MARK IS A STANDARD NGS HORIZONTAL CONTROL MARK DISK STAMPED --ALLEN
KK1753'1977-- SET IN THE TOP OF A ROUND CONCRETE POST 0.2 FT (6.1 CM) BELOW
KK1753'GROUND LEVEL. IT IS APPROXIMATELY 100 FT (30.5 M) (SLOPE) EAST OF THE
KK1753'EAST EDGE OF SHERIDAN BOULEVARD, 6.2 FT (1.9 M) WEST OF A METAL
KK1753'WITNESS POST WITH SIGN IN THE FENCE LINE, 20.0 FT (6.1 M)
KK1753'SOUTH-SOUTHWEST OF A UTILITY POLE, 3.1 FT (0.9 M) NORTHEAST OF A
KK1753'CARSONITE WITNESS POST, 1.8 FT (0.5 M) EAST OF A CARSONITE WITNESS
KK1753'POST, AND 3.6 FT (1.1 M) SOUTHEAST OF A CARSONITE WITNESS
KK1753'POST\$DESCRIBED BY F.N. DREXEL

KK1753

KK1753

STATION RECOVERY (2002)

KK1753

KK1753'RECOVERY NOTE BY COLORADO DEPARTMENT OF TRANSPORTATION 2002 (JTG)

KK1753'RECOVERED AS DESCRIBED.

KK1753

KK1753

STATION RECOVERY (2006)

KK1753

KK1753'RECOVERY NOTE BY GEOCACHING 2006 (TLX)

KK1753'IMAGES AVAILABLE ON GEOCACHING.COM

*** retrieval complete.

Elapsed Time = 00:00:00