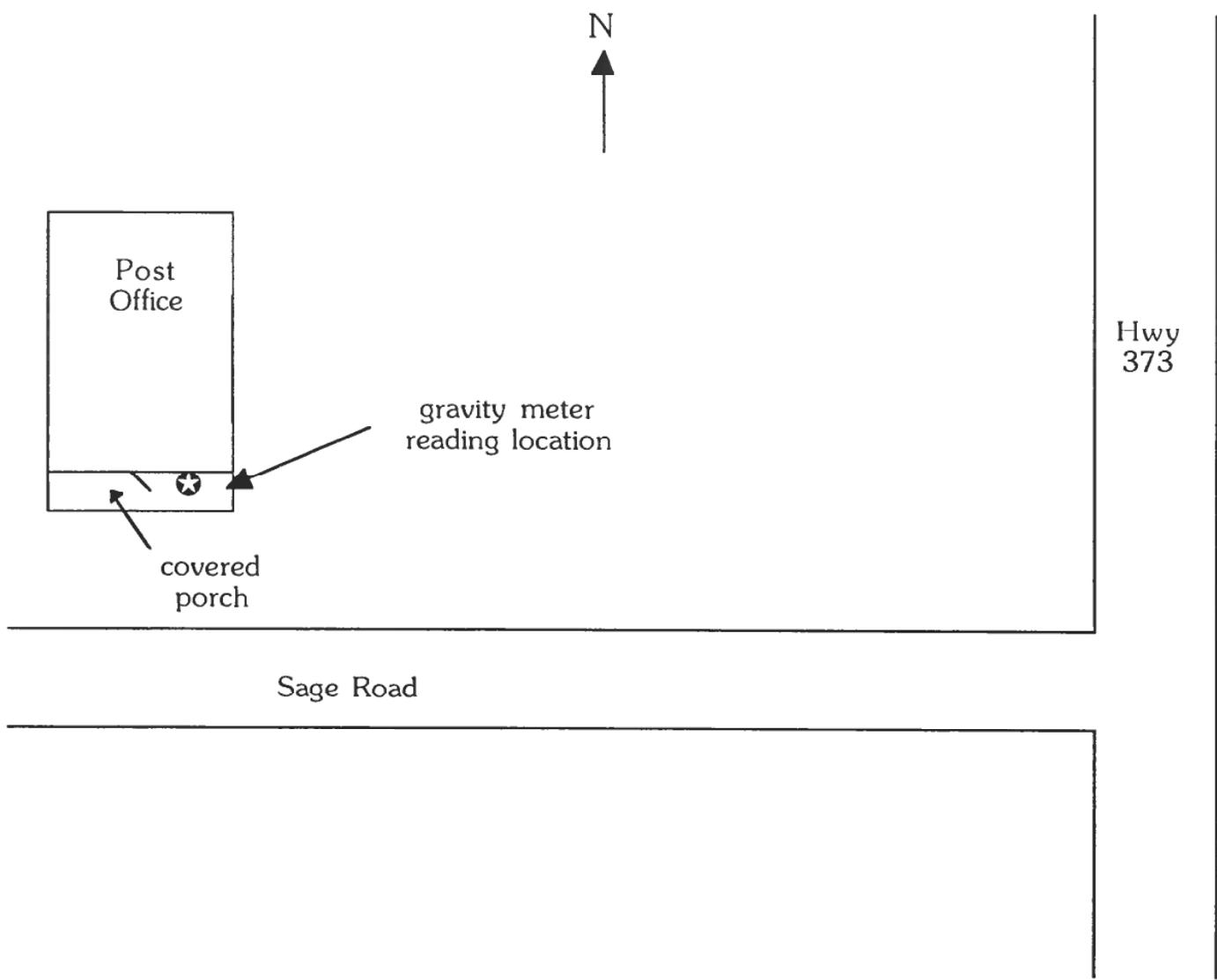


LOCATION: Amargosa Valley Post Office		NAME: AMV
LATITUDE: 36° 31.54'	LONGITUDE: 116° 25.14'	
OBSERVED GRAVITY: 979,600.39 mGal	ELEVATION: 2344 ft      714 m	
DATUM: ISGN 71		

DESCRIPTION: The gravity base station is located at the Amargosa Valley Post Office. The post office is located about 70 m west of Nevada Highway 373 on Sage Road, about 13 km north of the California-Nevada border. The meter was read on the front, south facing, covered concrete porch of the post office about 2 m east of the door leading into the post office and about 0.2 m from the south wall of the building. This location is just east of a set of windows and about 2 m west of the east edge of the concrete porch.



# GRAVITY BASE STATION

NAME BAKER	CITY/STATE Baker, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°00.66'    114°07.34'    5316.2 ft (GPS)	ACIC Reference No. (Jablonski, 1974) 2360-1
OBSERVED GRAVITY (IGSN71) 979,543.36 milligals	(n=2, from ELYA)

**DESCRIPTION**

The station is located in Baker, Nevada, at the Baker Store, which is on the west side of Nevada State Hwy 73, and across the road from a cafe-bar. Station is outside the front (east side) of the store, on the ground, 0.5 ft south of the front steps, on the concrete apron. Site is monumented with a USAF Gravity Station disc. (From Jablonski, 1974, Observed gravity 979,543.30 mGal).

4/1992--The station is in Baker, Nevada, about 62 mi SE of the junction of Hwy 50/93 in Ely, Nevada, at the entrance to the Silver Jack Motel (formerly the Terry Motel, formerly the Baker Store), on the west side of Nevada State Hwy 487, and across from the Outlaw cafe-bar. The station is at a U.S. Air Force Gravity Station disc 0.5 ft S of the front steps. Place the meter over the disc and read facing north. (Observed gravity 979,543.35 mGal).

7/2005--Concrete steps have been redone, but old steps are still underneath and visable. Wheel chair access has been added. Gravity disc destroyed, but the epoxy/cement is still visable. Place the meter over the epoxy/cement and read facing north. (Observed gravity 979,543.36 mGal).

**SKETCH/PHOTO**



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

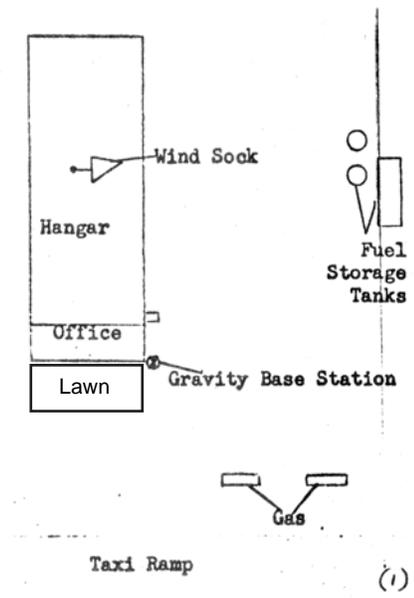
NAME BM	CITY/STATE Battle Mountain, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 40°36.44'    116°52.43'    4524 ft (GPS)	ACIC Reference No. (Jablonski, 1974) 2342-2
OBSERVED GRAVITY (IGSN71) 979,754.79 milligals	

**DESCRIPTION**

The station is at the Battle Mountain Airport, east of town, at the southeast corner of the main hanger-office building (west of the fuel storage tanks). Site is monumented with a USAF Gravity Station disc. (From Jablonski, 1974).

5/2008--Gravity disc destroyed. From Hwy 80, take exit 233, 2.2 mi along E. Frontage Rd, then right (south) on Airport Blvd.

**SKETCH/PHOTO**



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

NAME CALTRN	CITY/STATE Caliente, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 37°36.732' 114°30.831' 4383.9 ft (GPS)	ACIC Reference No. (Jablonski, 1974)
OBSERVED GRAVITY (IGSN71) 979,515.51 milligals	

## DESCRIPTION

CALTRN was established by a double-loop and multiple single-loops from the local gravity base station CALHSM at the Hot Springs Motel by Dan Scheirer and Bruce Chuchel on 2004 May 09-12, using GUMP LaCoste-Romberg meter G-8N. CALTRN is located near the entrance to a parking area southwest of the Union Pacific railroad building in Caliente, Nev. CALTRN is located on the northern of two State of Nevada Department of Transportation benchmarks that are embedded in concrete. The base-plate should be centered on the benchmark. The CALTRN location and gravity values are tabulated below.

NOTE: The gravity meter will sense approaching trains much sooner than you can hear or feel them.

## SKETCH/PHOTO



## REFERENCES

Scheirer, Daniel S., 2005, Gravity studies of Cave, Dry Lake, and Delamar Valleys, east-central Nevada: U.S. Geological Survey Open-File Report 2005-1339, 36 p. <http://pubs.usgs.gov/of/2005/1339/>

# GRAVITY BASE STATION

NAME ELKO	CITY/STATE Elko, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 40°49.66'    115°46.78'    5074.7 ft	ACIC Reference No. (Jablonski, 1974) 3899-2
OBSERVED GRAVITY (IGSN71) 979,740.16 milligals	

**DESCRIPTION**

The station is located at the Elko Airport under the Federal Aviation Agency Aircraft Direction Finder, and is centered in the concrete slab that supports the Aircraft Direction Finder. To reach from the intersection of US Highway 40 and Nevada State Highway 46, going south from Elko, go SW on US 40 for 0.8 mi, turn right NW, go 0.3 mi on State 46 N, turn left, SW for 0.1 mi to the far end of the FAA building and station. The station is marked by a standard USC&GS disk stamped "Z 298 Reset 1967". (from Jablonski, 1974).

**Revised Description:**

US Highway 40 has been rerouted and is now Interstate 80. Going west on I80, take the exit 301 to downtown Elko, go S on Mt City Highway (over I80) 0.7 mi, turn left on Murray Way, go 0.1 mi to FAA Building.

**SKETCH/PHOTO**



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

## GRAVITY BASE STATION

NAME ELYA	CITY/STATE Ely, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°17.59'    114°50.52'    6,253 ft	ACIC Reference No. (Jablonski, 1974) 0390-2
OBSERVED GRAVITY (IGSN71) 979,480.08 milligals	

### DESCRIPTION

The station is located at the Ely Airport, in the grassy area between the FAA Building and the runway. From the intersection of U.S. Hwy 50 and 93 in Ely , the station is 3.3 mi N. on U.S. Hwy 93, then 0.4 mi W. along an airport access road leading to the former FAA Building. The station is at a U.S. Coast and Geodetic Survey vertical angle benchmark stamped 'Ely Airport 1954', about 120 ft NE. of the SE. corner of the former FAA Building. Place the meter over the benchmark and read facing north. (Modified after Jablonski, 1974).

### SKETCH/PHOTO



View looking NW towards the former FAA Building (in pink).

### REFERENCES

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

## GRAVITY BASE STATION

NAME ELYW (Ely West)	CITY/STATE Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°01.55'    114°34.71'    6,464 ft	ACIC Reference No. N.A.
OBSERVED GRAVITY (IGSN71) 979,462.97 milligals	(n=2, from ELYA)

### DESCRIPTION

The station is located along U.S. Hwy 50 about 26.9 mi SE of the Hwy 6/50/93 junction in Ely, Nevada, and about 0.2 mi east of Majors Place, or about 0.3 mi west of the Hwy 50/893 junction. Nevada State Hwy 893 leads to northern Spring Valley. The station is at a U.S. Coast and Geodetic Survey vertical angle benchmark stamped 'Ely West Base 1944'. Place the meter over the benchmark and read facing north. (Observed gravity 979,462.96 mGal).

7/2005--Benchmark disturbed, place one base plate leg over the NE edge of the concrete form. New GPS xy-location reported above. (Observed gravity 979,462.97 mGal).

### SKETCH/PHOTO



View looking NNE towards Spring Valley.

### REFERENCES

# GRAVITY BASE STATION

NAME ELYW2 (Ely West 2)	CITY/STATE Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°01.54' 114°34.72' 6,466.5 ft (GPS)	ACIC Reference No. N.A.
OBSERVED GRAVITY (IGSN71) 979,462.96 milligals	(n=4, from ELYA)

## DESCRIPTION

The station is located along U.S. Hwy 50 about 26.9 mi SE of the Hwy 6/50/93 junction in Ely, Nevada, and about 0.2 mi east of Majors Place, or about 0.3 mi west of the Hwy 50/893 junction. Nevada State Hwy 893 leads to northern Spring Valley. The station is at a U.S. Coast and Geodetic Survey vertical angle benchmark stamped 'Ely West Base 1944 Reference Mark 2'. Place the meter over the benchmark and read facing north.

## SKETCH/PHOTO



View looking west along Hwy 50 towards Majors Place.

## REFERENCES

# GRAVITY BASE STATION

NAME EUREKA	CITY/STATE Eureka, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29?) 39°30.76' -115°57.60' 6480 ft	ACIC Reference No. N.A.
OBSERVED GRAVITY (IGSN71) 979,527.55 milligals	

## DESCRIPTION

The station is located in Eureka, Nevada, on the steps of the County Courthouse. Established by DoD.

USGS base nearby at the corner of the building is 979,527.68, established by Ponce, but may be disturbed when steps were redone.

## SKETCH/PHOTO



## REFERENCES

# GRAVITY BASE STATION

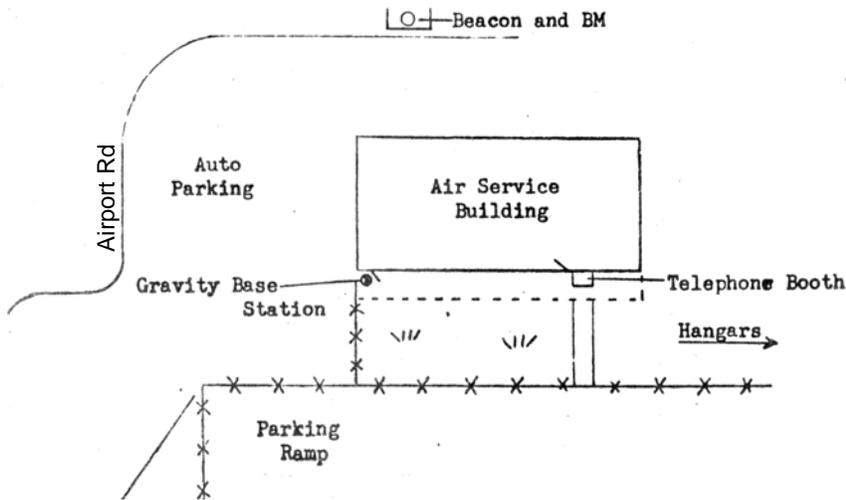
NAME FALLON	CITY/STATE Fallon, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°29.71'    118°45.25'    3963 ft (GPS)	ACIC Reference No. (Jablonski, 1974) 2351-1
OBSERVED GRAVITY (IGSN71) 979,480.08 milligals	

**DESCRIPTION**

The station is at the Fallon Municipal Airport (1.5 mi north of town) on porch of administrative building, southeast corner of building, northwest corner of porch, on the concrete porch. Site is monumented with a USAF Gravity Station disc. (From Jablonski, 1974).

5/2008--Gravity disc destroyed.

**SKETCH/PHOTO**



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

NAME LUNDLR	CITY/STATE Lund, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 38°54.839' 115°02.591' 5614.2 ft (GPS)	ACIC Reference No. (Jablonski, 1974) N.A.
OBSERVED GRAVITY (IGSN71) 979,504.86 milligals	(from ELYA)

## DESCRIPTION

LUNDLR was established by double-loop from ELYA at the Ely Airport by Dan Scheirer on 2003 Nov 03 using GUMP LaCoste-Romberg meter G-8N. LUNDLR is located on the walkway near the southwest corner of the Lanes Ranch Motel, just north of Lund, Nevada. In detail, the base-plate should be placed so that the left-edge of the meter is co-linear with the side-wall of the motel, taking care to place the base-plate such that its feet do not straddle the crack (in which case the base can tilt if you put your weight on the cracked part) in the pavement that goes diagonally away from the corner of the building.

## SKETCH/PHOTO



## REFERENCES

Scheirer, Daniel S., 2005, Gravity studies of Cave, Dry Lake, and Delamar Valleys, east-central Nevada: U.S. Geological Survey Open-File Report 2005-1339, 36 p. <http://pubs.usgs.gov/of/2005/1339/>

## GRAVITY BASE STATION

NAME MESCN	CITY/STATE Mesquite, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 36°48.22'    114°03.99'    1599 ft (GPS)	ACIC Reference No. (Jablonski, 1974) N/A
OBSERVED GRAVITY (IGSN71) 979,624.14 milligals	

### DESCRIPTION

The gravity base station is located in Mesquite, Nevada, at the City Hall building, which is located at 10 E Mesquite Blvd., southeast of the intersection of Mesquite Blvd. and Yucca St. Station is in the gravel bed immediately to the south of the concrete foundation for the flagpole.

Gravity base MESCN was established in October 2003 to replace the former base MESC, which was destroyed in the re-building of the City Hall complex. The gravity value of MESCN was established by a single loop to the approximate site of MESC and a one-way tie to LVGS, a gravity base station in front of the former US Geological Survey office in Las Vegas, NV (IGSN71 observed gravity of 979,593.62 mGal). Gravity ties were conducted by Bob Morin (USGS Menlo Park) in October 2003 using LaCoste and Romberg gravity meter G8n. A prior gravity station, sited on a benchmark and referenced to MESC, was re-occupied in October 2003; using the adopted gravity value for MESCN, the new observed gravity value agreed to within 4 microgals of the old gravity value, confirming the MESC vs. MESCN offset.

Note: MESC was located near the SE corner of the intersection of Mesquite Blvd. and Yucca St. at a former flagpole location. The gravity value of MESC was 979,624.12 milligals, based on two single ties to gravity station CPA, at the base of the Charleston Peak gravity calibration loop. These ties were made by Bob Morin (USGS Menlo Park) in March 1997 using LaCoste and Romberg gravity meter G17c. MESC was used in December 2002 (R. Wooley), which may have been its last use by the USGS.

MESCN is unmarked. Read gravimeter facing the north (away from the building).

SKETCH/PHOTO (taken October 2003)

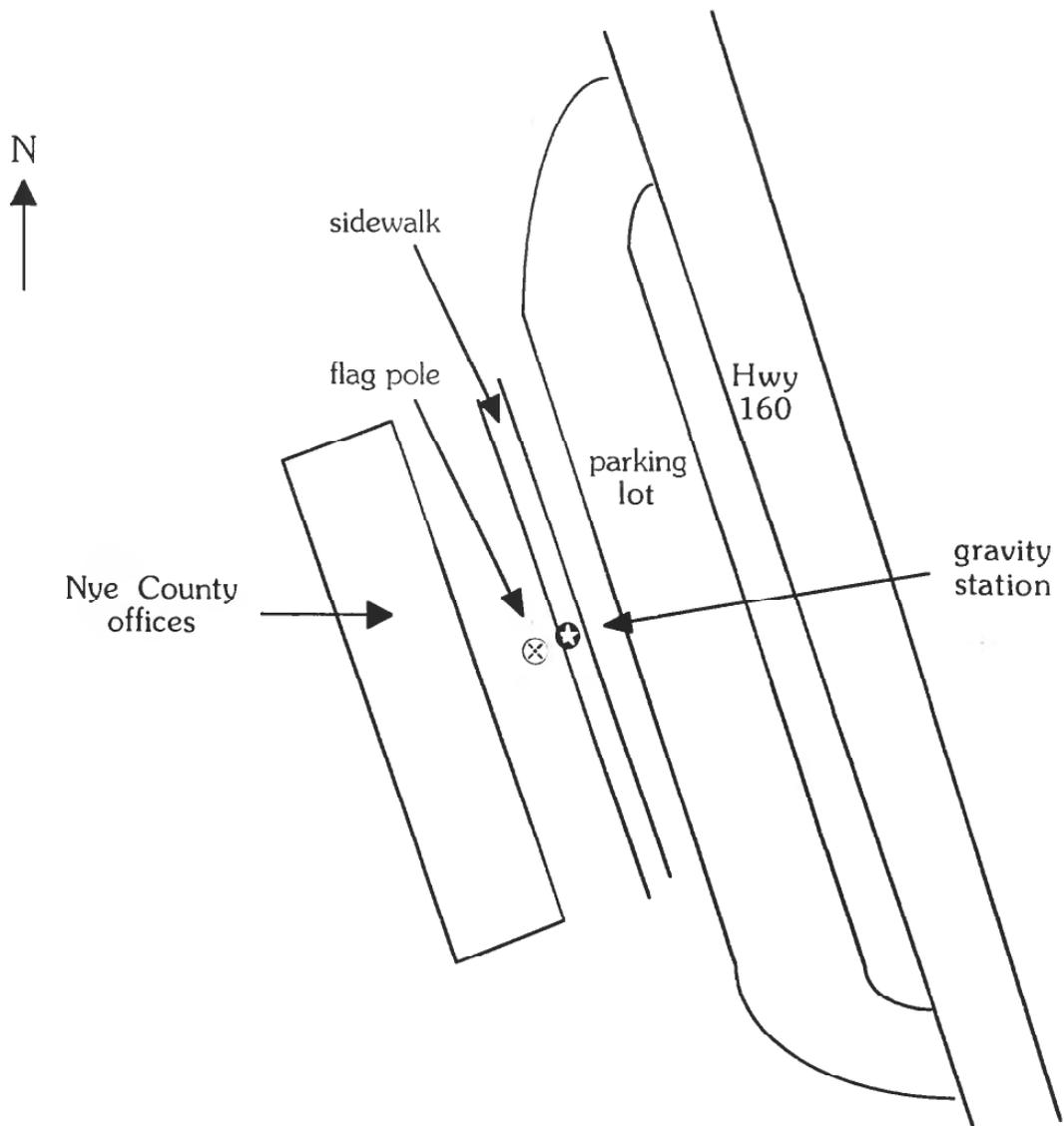


### REFERENCES

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

LOCATION: Nye County offices, Pahrump, NV		NAME: NYECO
LATITUDE: 36° 13.30	LONGITUDE: 115° 59.66	
OBSERVED GRAVITY: 979,554.18 mGal	ELEVATION: 2632 ft 802 m	
DATUM: IGSN 71		

DESCRIPTION: The gravity base station is located on the west side of a sidewalk, adjacent to the flag pole in front of the Nye County offices in Pahrump, NV. The Nye County offices are located on the west side of Nevada Highway 160 about 1.1 miles NNW of the junction of Nevada Highways 160 and 372. The flag pole is located at the east side of the Nye County office building, about 20 ft from the building and about 10 ft west of the parking lot. The gravity station is an unmarked spot on the sidewalk which is located between the parking lot and the flag pole. The station is on the west edge of the sidewalk and next to an electrical box.



# GRAVITY BASE STATION

NAME OVER	CITY/STATE Overton, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 36°33.03'    114°27.09'    1271 ft (GPS)	ACIC Reference No. (Jablonski, 1974) N/A
OBSERVED GRAVITY (IGSN71) 979,656.90 milligals	

**DESCRIPTION**

The station is located in Overton, Nevada, at the Best Western Hotel, North Shore Inn (520 North Moapa Valley Blvd., Overton, NV 89040). Station is immediately north of the main entrance, on the sidewalk adjacent to the gravel bed and against the small privacy wall.

Gravity value is based on ties to LVGS, a gravity base station in front of the former US Geological Survey office in Las Vegas, NV (IGSN71 observed gravity of 979,593.62 mGal). Gravity ties were conducted by Victoria Langenheim (USGS Menlo Park) in Oct./Nov.1998 using LaCoste and Romberg gravity meter G17c. The small privacy wall did not exist in November 1998. Observed gravity value was confirmed by ties to MESCEN using gravity meter G8n in March 2008.

OVER is unmarked. Read gravimeter facing the privacy wall. It is best to stand on the adjacent gravel bed because stepping on the sidewalk affects the gravity reading.

SKETCH/PHOTO (taken March 2008)



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

NAME RENO	CITY/STATE Reno, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°32.30' 119°48.70' 4547 ft	ACIC Reference No. (Jablonski, 1974) 0454-1
OBSERVED GRAVITY (IGSN71) 979,674.65 milligals	

## DESCRIPTION

The RENO gravity station is in north Reno on the University of Nevada campus, at the James G. Scrugham Engineering Mines Building, in the west wing, at the SE corner entrance (this entrance is about 20 m NW of the stairs leading down from the upper level parking lot, inside and 1 m S of the door, at the corner in the wall under the stairway, on the concrete floor. Station is marked with a National Gravity Base Disk. (modified from Jablonski, 1974).

## SKETCH/PHOTO



## REFERENCES

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

NAME RENOA	CITY/STATE Reno, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 39°32.30' 119°48.70' 4547 ft	ACIC Reference No. (Jablonski, 1974) N.A.
OBSERVED GRAVITY (IGSN71) 979,674.68 milligals	

## DESCRIPTION

The station is located adjacent to the RENO gravity base station, but on the other side of the wall and outside the door. Place the meter in the corner of the steps and read facing south.

RENO: The RENO gravity station is in north Reno on the University of Nevada campus, at the James G. Scrugham Engineering Mines Building, in the west wing, at the SE corner entrance (this entrance is about 20 m NW of the stairs leading down from the upper level parking lot, inside and 1 m S of the door, at the corner in the wall under the stairway, on the concrete floor. Station is marked with a National Gravity Base Disk. (Modified from Jablonski, 1974).

## SKETCH/PHOTO



## REFERENCES

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

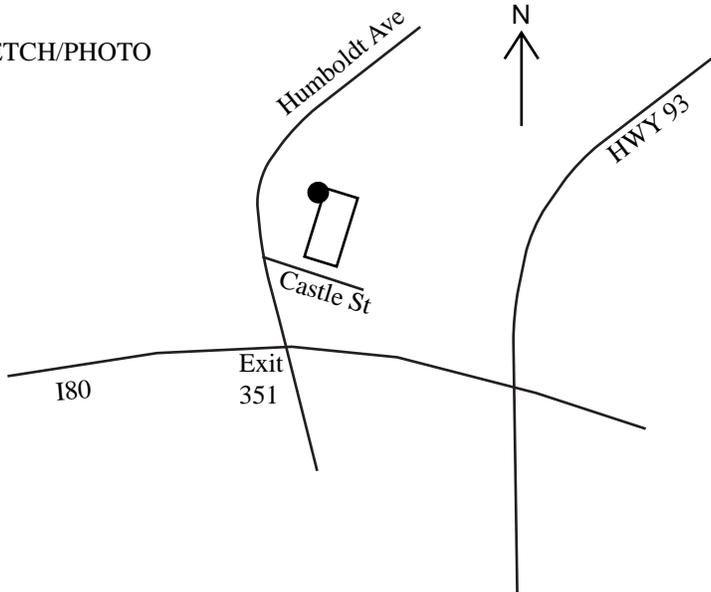
NAME WELLSP0 (Wells Post Office)	CITY/STATE Wells, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 41°06.49' 114°58.37' 5654.2 ft (GPS)	
OBSERVED GRAVITY (IGSN71) 979,730.04 milligals	(Two double-loops, from ELKO)

## DESCRIPTION

The station is located in Wells, Nevada, at the Post Office. Station is at the NW corner of the building.

Place the meter at the corner of the building and read facing the building.

## SKETCH/PHOTO



# GRAVITY BASE STATION

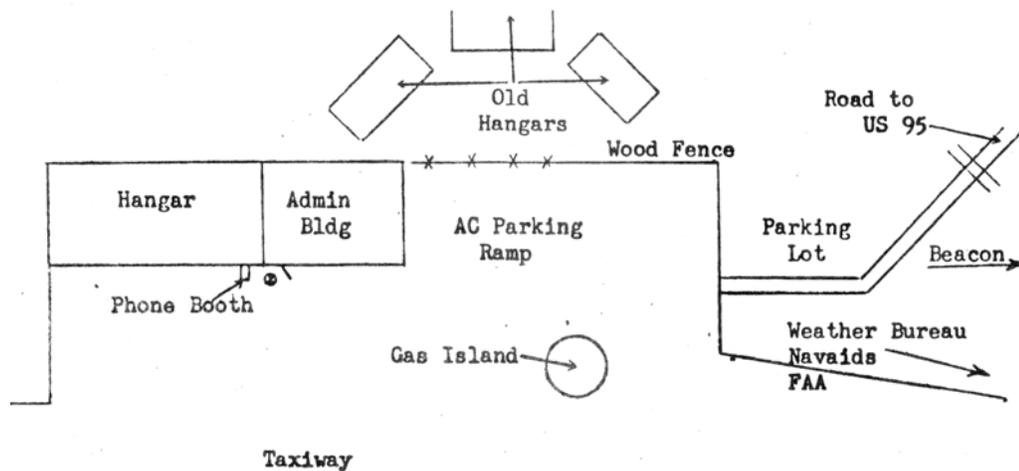
NAME WIN	CITY/STATE Winnemucca, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 40°54.23'    117°48.21'    4298ft (GPS)	ACIC Reference No. (Jablonski, 1974) 0474-1
OBSERVED GRAVITY (IGSN71) 979,810.48 milligals	

**DESCRIPTION**

The station is at the Winnemucca Municipal Airport (4 mi west of town), at south wall of Air Service building on concrete sidewalk, 1.0 m east of phone booth, 1.0 m west of door against wall. Site is monumented with a USAF Gravity Station disc. (From Jablonski, 1974).

5/2008--Gravity disc destroyed. Phone booth removed. At the join between 2 buildings. Going west on Hwy 80, take exit 173 to Rose Cr Rd, then left on Airport Blvd.

**SKETCH/PHOTO**



**REFERENCES**

Jablonski, H. M., 1974, World relative gravity reference network North America, Parts 1 and 2: U.S. Defense Mapping Agency Aerospace Center Reference Publication no. 25, originally published 1970, revised 1974, with supplement of IGSN 71 gravity datum values, 1261 p.

# GRAVITY BASE STATION

NAME WINCH (Winnemucca Court House)	CITY/STATE Winnemucca, Nevada
LATITUDE/LONGITUDE/ELEVATION (NAD27/29) 40°58.34' 117°43.94' 4319.9 ft (GPS)	
OBSERVED GRAVITY (IGSN71) 979,826.01 milligals	(Two double-loops, from WIN)

## DESCRIPTION

The station is located in Winnemucca, Nevada, at the County Court House, on the NW corner of the intersection of 5th and Bridge Streets. Station is near the left edge court house steps, when facing the building.

Place the meter on the 3rd step, at the base of a 3 ft tier, and read facing the building.

## SKETCH/PHOTO

