

CROSS REFERENCE LIST
UNITED STATES

MONTANA

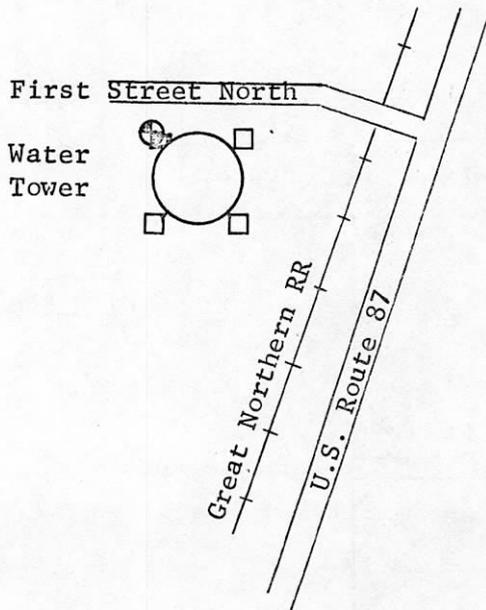
STATION DESIGNATION	DOD REF NO	IGSN 71 G-VALUE
BIG SANDY	1202-0	980 623.32
BIG TIMBER	1203-0	980 254.29
BILLINGS	0278-2	980 356.37
BUTTE	0443-0	980 159.88
CHOUTEAU	1204-0	980 505.97
COLUMBUS	0676-0	980 316.58
CONDON	1207-0	980 440.62
CUTBANK	0508-2	980 593.77
DRUMMOND	1209-0	980 365.65
DUNMORE	3943-1	980 393.71
EAST GLACIER	1211-0	980 501.64
FORT BENTON	1212-0	980 595.67
GLASGOW	0870-0	980 682.77
GRANT	3945-1	980 044.49
GREAT FALLS	0501-1	980 512.29
GLENDIVE	0562-1	980 622.44
HARLEM	1214-0	980 713.65
HARLOWTON	1215-0	980 362.35
HAYDEN	1216-0	980 680.71
HELENA	0475-0	980 363.50
HYSHAM	0681-0	980 478.20
JORDAN	1218-0	980 602.67
KALISPELL	0441-0	980 567.39
LEWISTOWN	2017-0	980 449.32
LINCOLN	1220-0	980 347.35
LIVINGSTON	0673-0	980 232.91
MALTA	1221-0	980 706.43
MILES CITY	0630-0	980 508.55
MISSOULA	0442-0	980 429.45
POLSON	1223-0	980 550.55
RED LODGE	0666-1	980 109.29
ROUNDUP	1226-0	980 447.74
SAND SPRINGS	1227-0	980 542.34
STANFORD	1201-0	980 422.55
SWEETGRASS	3942-1	980 676.96
THREE FOKKS	1231-0	980 290.09
WHITE SULPHUR SPRINGS	1233-0	980 291.11
WINIFRED	1234-0	980 538.33
WINNETT	1235-0	980 533.17
WYOLA	3941-1	980 249.82
ZORTMAN	1476-0	980 532.06

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">48° 10.75' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">BIG SANDY</div>	
LONGITUDE <div style="text-align: center;">110° 07.00' W (1)</div>		
ELEVATION <div style="text-align: center;">826.75 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1202-0 IGC 15680J	$g = 980\ 637.02$ mgals	
		ESTIMATED ACCURACY <div style="text-align: center;">± 0.1 mgals</div>
		DATE MONTH/YEAR <div style="text-align: center;">Aug/1967</div>

DESCRIPTION AND/OR SKETCH

Station is located at the city water tank in Big Sandy, Montana, directly over USC&GS BM T93, in the NW corner of the NW concrete footing of the water tower. The mark is a standard disk stamped "T93 1934". (1)



(2)

REFERENCE SOURCE

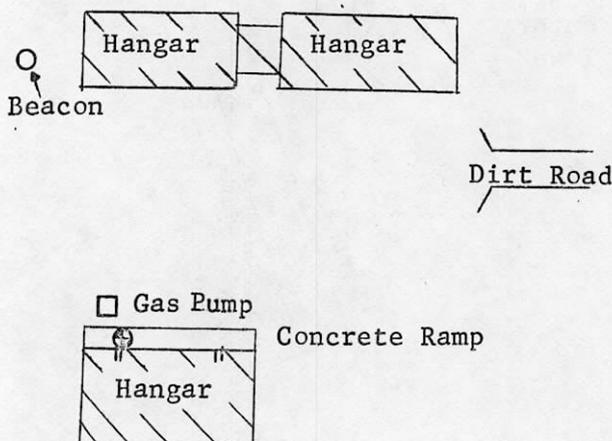
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 45° 48.50' N (1)	STATION DESIGNATION BIG TIMBER	
LONGITUDE 109° 58.50' W (1)		
ELEVATION 1366.1 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1203-0	$g =$ 980 267.99 mgals	
IGC 15559J		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
\pm 0.1 mgals		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the airport at Big Timber, Mont., at a point one foot north of the most westerly hangar door, on the concrete floor which extends from within the hangar. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

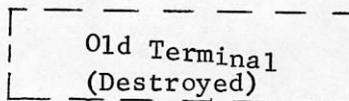
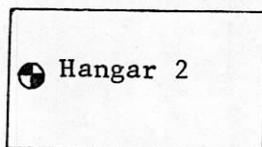
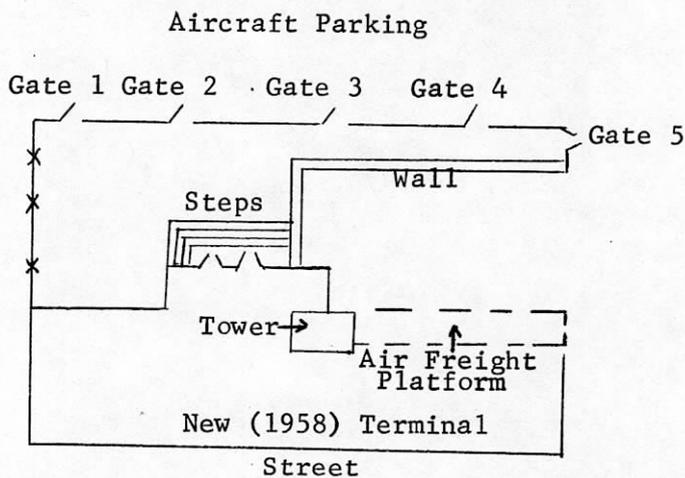
GRAVITY BASE STATION

LATITUDE <div style="text-align: center; font-size: 1.2em;">45° 48.20' N</div> <div style="text-align: right;">(1)</div>	STATION DESIGNATION <div style="text-align: center; font-size: 1.2em;">BILLINGS</div>		
LONGITUDE <div style="text-align: center; font-size: 1.2em;">108° 32.50' W</div> <div style="text-align: right;">(1)</div>			
ELEVATION <div style="text-align: center; font-size: 1.2em;">1101.50</div> <div style="text-align: right;">METERS (1)</div>	COUNTRY/STATE <div style="text-align: center; font-size: 1.2em;">USA/Montana</div>		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0278-2		$g = 980\ 370.10$ mgals	
IGC 15558A			
GW 35			
DO 9697-63			
		ESTIMATED ACCURACY	DATE
		± 0.1 mgals	MONTH/YEAR July/1967

DESCRIPTION AND/OR SKETCH

The station is north of Billings at Billings Municipal Airport (Logan Field), southwest of the new terminal (built in 1958), in Hangar 2 (about 120 meters northwest of the bronze "Range Rider" statue, and 60 meters west and 30 meters north of the main beacon - an orange and white checkered water tower), 2.1 meters east of the middle of the west wall, on the concrete floor.

The station is monumented with a USAF Gravity Disk. (1)



(1)

REFERENCE SOURCE

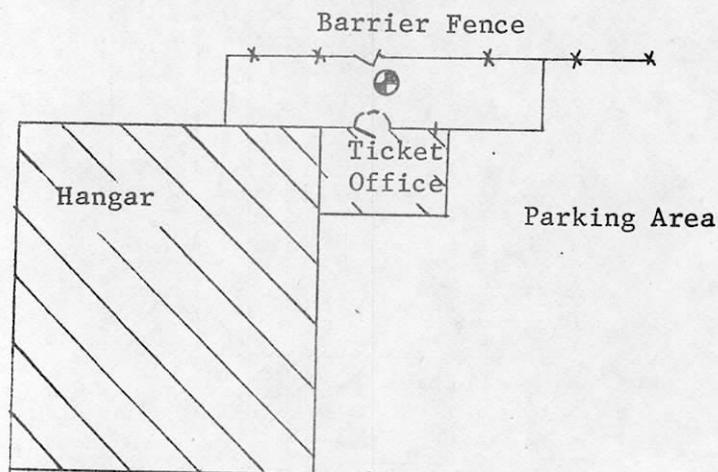
(1) 02733

GRAVITY BASE STATION

LATITUDE <div style="text-align: center; font-size: 1.2em;">45° 57.50' N</div> <div style="text-align: right;">(1)</div>	STATION DESIGNATION <div style="text-align: center; font-size: 1.2em;">BUTTE</div>	
LONGITUDE <div style="text-align: center; font-size: 1.2em;">112° 29.50' W</div> <div style="text-align: right;">(1)</div>		
ELEVATION <div style="text-align: center; font-size: 1.2em;">1692.9</div> <div style="text-align: right;">METERS (1)</div>	COUNTRY/STATE <div style="text-align: center; font-size: 1.2em;">USA/Montana</div>	
REFERENCE CODE NUMBERS	ADOPTED GRAVITY VALUE	
ACIC 0443-0	$g = 980\,173.58$ mgals	
IGC 15652J		
WA 123		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Butte Airport, at the old Western Airline building, in front of the waiting room, one foot east of the barrier gate, on the concrete, inside the passenger waiting area, next to the chain link fence. (1)



(2)

REFERENCE SOURCE

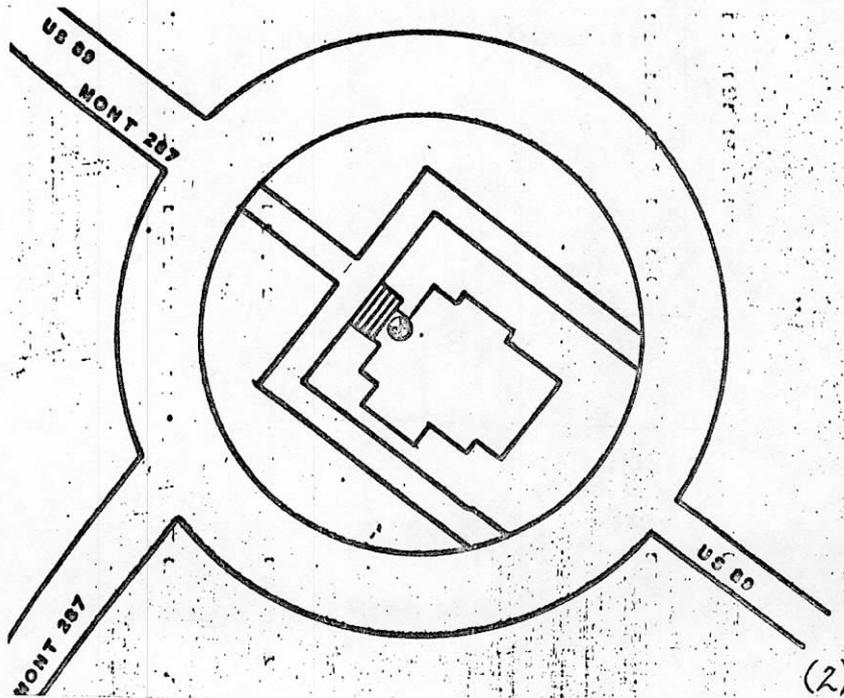
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 47° 48' N (1)	STATION DESIGNATION CHOTEAU	
LONGITUDE 112° 10' W (1)		
ELEVATION 1,163.44 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1204-0	g = 980 519.67 mgals	
IGC 15672B		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at Choteau, Mont., at the Teton County Courthouse, at the NW entrance, on the concrete, in the N corner, outside the entrance, at the USC&GS EM "M 111 1934". (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

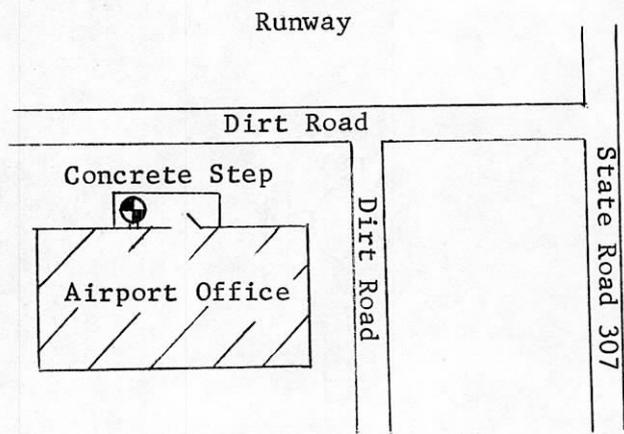
913

GRAVITY BASE STATION

LATITUDE	45° 38.00' N (1)	STATION DESIGNATION	
LONGITUDE	109° 15.00' W (1)	COLUMBUS	
ELEVATION	1089.7 METERS (1)	COUNTRY/STATE	
		USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0676-0		g = 980 330.28 mgals	
IGC 155590			
		ESTIMATED ACCURACY	DATE
		± 0.1 mgals	MONTH/YEAR
			Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the airport in Columbus, Mont., on the concrete step at the entrance to the airport office, directly beneath the wall telephone. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

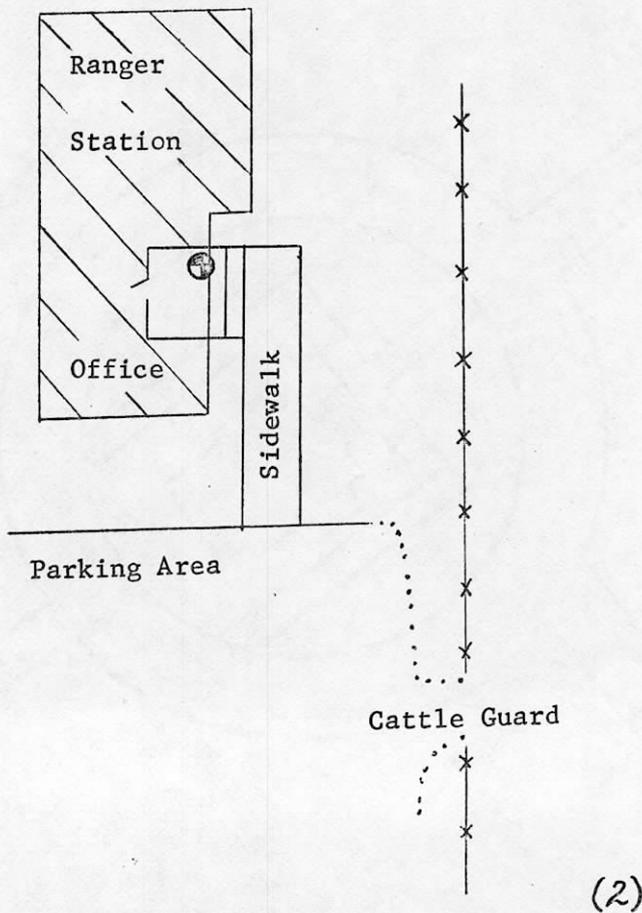
819

GRAVITY BASE STATION

LATITUDE 47° 32.00' N (1)	STATION DESIGNATION CONDON	
LONGITUDE 113° 43.25' W (1)		
ELEVATION 1122.9 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1207-0	$g = 980\ 454.32$ mgals	
IGC 156730		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
± 0.1 mgals		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located on the porch, in front of the entrance to the office of the Condon Ranger Station, on the N side of the entrance, next to the wall and the first step. (1)



REFERENCE SOURCE

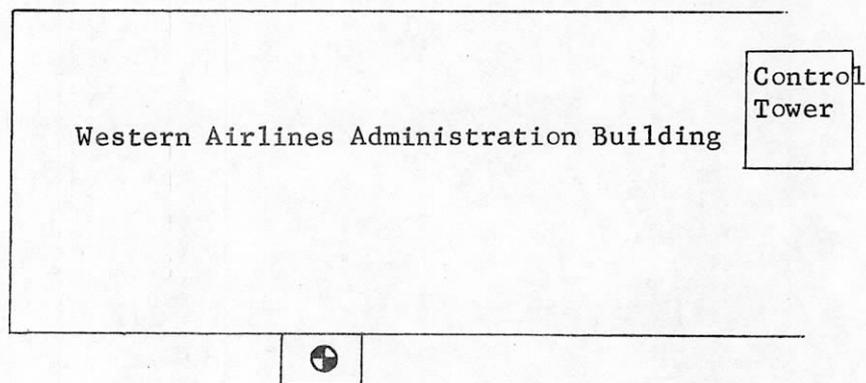
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 48° 37.0' N (1)	STATION DESIGNATION CUT BANK	
LONGITUDE 112° 22.5' W (1)		
ELEVATION 1188.4 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0508-2	$g = 980\ 607.60$ mgals	
IGC 15682B		
GW 13		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is on the south side of the Western Airlines Administration Building, on a 1.4 x 2.1 meter concrete slab at the rear (south) entrance to the southwest wing of the building. Building is constructed of red brick, and has a control tower on top of it. The concrete slab is approximately at the surrounding ground level. (1)



Parking Area

(2)

REFERENCE SOURCE

(1) 05100 (2) 05100

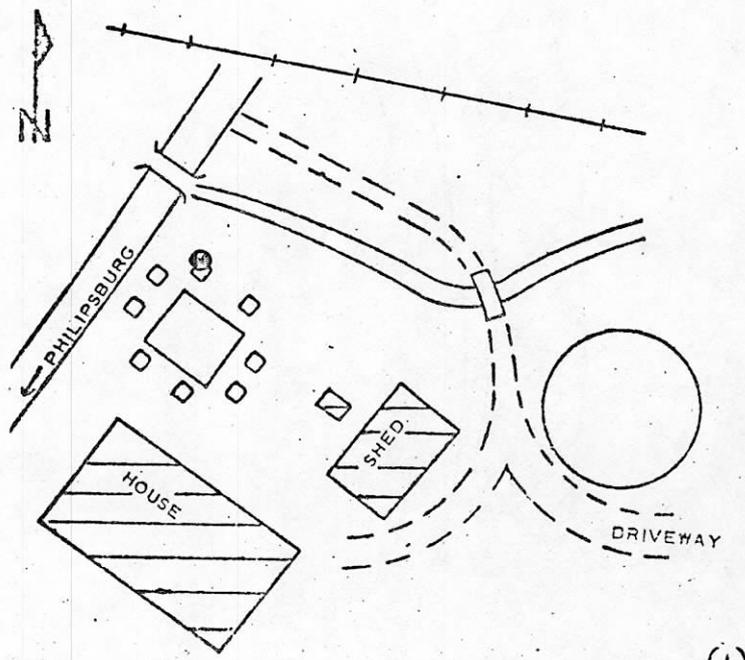
741

GRAVITY BASE STATION

LATITUDE <div style="text-align: right; padding-right: 20px;">46° 39.75'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">DRUMMOND</div>							
LONGITUDE <div style="text-align: right; padding-right: 20px;">113° 09.25'W (1)</div>								
ELEVATION <div style="text-align: right; padding-right: 20px;">1203.79 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>							
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE						
ACIC 1209-0 IGB 15663J	$g =$ 980 379.35 mgals							
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">ESTIMATED ACCURACY</td> <td style="width: 50%; border: none;">DATE</td> </tr> <tr> <td style="border: none;">± 0.1 mgals</td> <td style="border: none;">MONTH/YEAR</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">12/70</td> </tr> </table>	ESTIMATED ACCURACY	DATE	± 0.1 mgals	MONTH/YEAR		12/70
ESTIMATED ACCURACY	DATE							
± 0.1 mgals	MONTH/YEAR							
	12/70							

DESCRIPTION AND/OR SKETCH

Station is adjacent to USC & GS BM L13 (re-leveled in 1959) in Drummond, Montana. The BM is 188 feet southwest of the southwest corner of the Northern Pacific Railroad Station, in the top of the northwest corner of the northwest concrete footing of an abandoned water tank, 134 feet south of the south rail of the main track, 95 feet west of the west side of a railroad water tank, 66 feet east of the center line of US Highway 105, 45 1/2 feet north of the northwest corner of a section house, and projecting 28 inches. (1)



REFERENCE SOURCE

(1) 01355

915

GRAVITY BASE STATION

LATITUDE	45° 40.78'N (1)	STATION DESIGNATION	
LONGITUDE	107° 30.28'W (1)	DUNMORE	
ELEVATION	902.5 METERS (1)	COUNTRY/STATE	
		USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 3943-1		g = 980 407.41 mgals	
HUS 570			
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			10/70

DESCRIPTION AND/OR SKETCH

T 2S, R 34E, S 3, 10 border

Station is located at Dunmore exit, 100 feet east of a railroad crossing (the road), on the north corner of old US Highway 87.

(1)

REFERENCE SOURCE

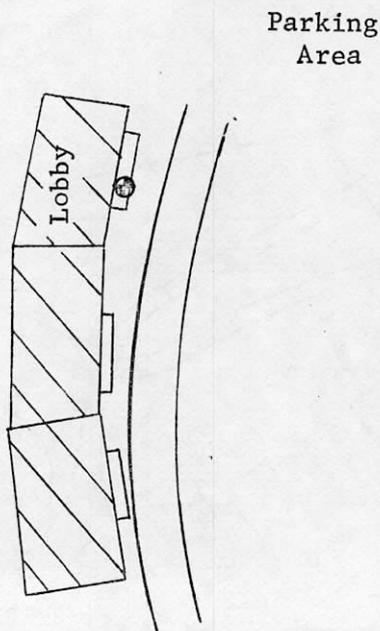
(1) 04099

GRAVITY BASE STATION

LATITUDE 48° 26.50' N (1)	STATION DESIGNATION EAST GLACIER PARK	
LONGITUDE 113° 13.25' W (1)		
ELEVATION 1469.56 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1211-0	$g = 980\ 515.34$ mgals	
IGC 15683B		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
± 0.1 mgals		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at East Glacier Park, Mont., directly over USC&GS EM GLACIER PARK. The EM is located at the east entrance to the lobby of the East Glacier Park Lodge, in the top of the concrete platform, 15 feet from the south edge, and 2 feet from the east edge. The standard disk is stamped "4821.381 GLACIER PARK 1933." (1)



(2)

REFERENCE SOURCE

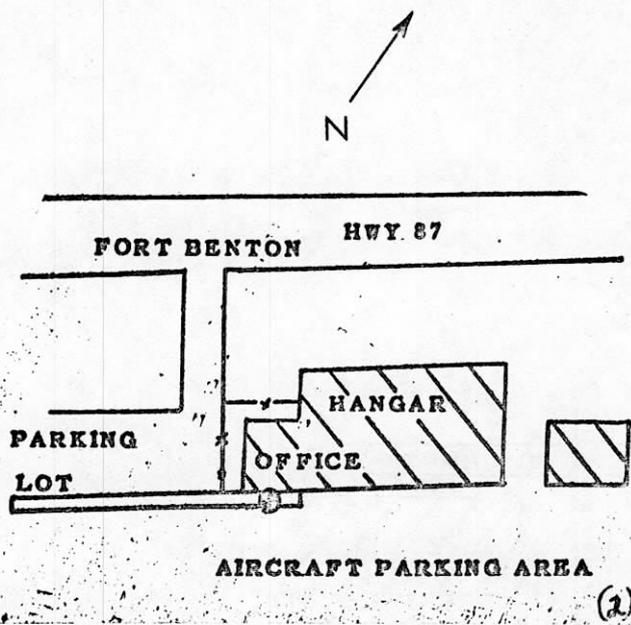
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 47° 50.50' N (1)	STATION DESIGNATION FORT BENTON	
LONGITUDE 110° 39.00' W (1)		
ELEVATION 879.7 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1212-0	g = 980 609.37 mgals	
IGC 156700		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
		Aug/1968
		± 0.1 mgals

DESCRIPTION AND/OR SKETCH

Station is located at the Fort Benton Airport building, on the west of the lobby entrance, 6 inches from the south wall, and 2 feet from the lobby entrance, on the concrete walkway. (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

917

GRAVITY BASE STATION

LATITUDE	48° 25' N	(1)	STATION DESIGNATION	
LONGITUDE	106° 32' W	(1)	GLASGOW	
ELEVATION	841.25	METERS (1)	COUNTRY/STATE	
			USA/Montana	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0870-0			g = 980 696.47 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.2 mgals	MONTH/YEAR
				July/1967

DESCRIPTION AND/OR SKETCH

The station is at Glasgow Air Force Base, field side, on concrete step at entrance to Base Operations, left side of step. (1)

REFERENCE SOURCE

(1) 00653

GRAVITY BASE STATION

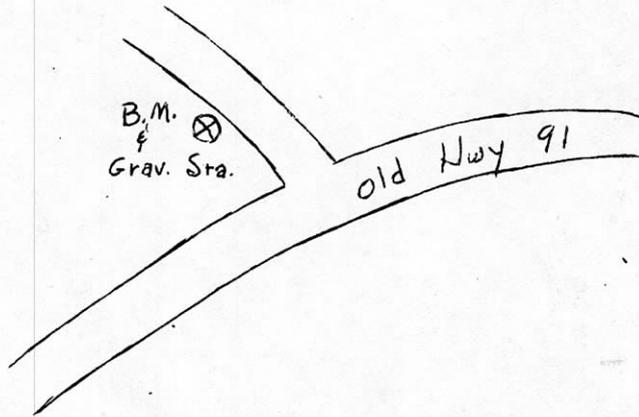
LATITUDE <div style="text-align: center;">45° 00.30'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">GRANT</div>	
LONGITUDE <div style="text-align: center;">113° 12.50'W (1)</div>		
ELEVATION <div style="text-align: center;">1842.2 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 3945-1		$g =$ 980 058.19 mgals
HUS 212		
		ESTIMATED ACCURACY
		DATE
	± 0.3 mgals	MONTH/YEAR
		10/70

DESCRIPTION AND/OR SKETCH

T 9S, R 13W, S 33

Station is located on north side of a light duty road, 0.15 of a mile northwest of a road junction, about 1.0 mile west of entrance to an airstrip. BM stamping: "R 5" BM elevation: 6044 feet.

(1)



REFERENCE SOURCE

(1) 04099

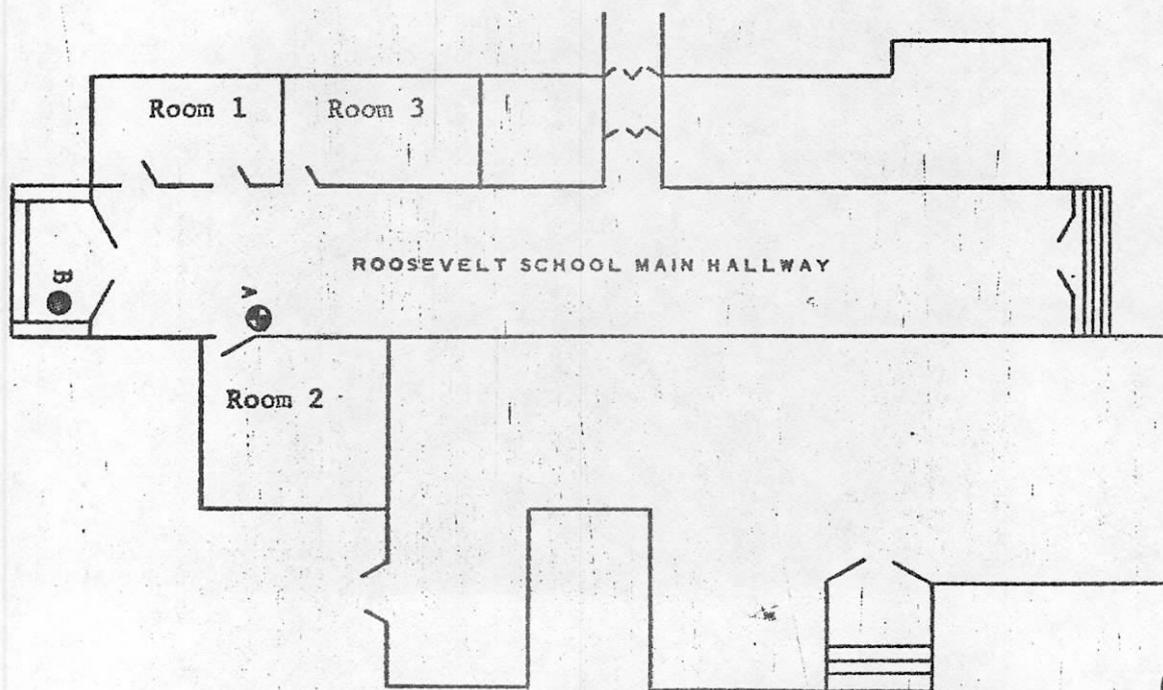
1363

GRAVITY BASE STATION

LATITUDE $47^{\circ} 30.7' N$ (1)	STATION DESIGNATION <p style="text-align: center;">GREAT FALLS</p>		
LONGITUDE $111^{\circ} 15.7' W$ (1)			
ELEVATION 1050.0 METERS (1)	COUNTRY/STATE <p style="text-align: center;">USA/Montana</p>		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0501-1	$g = 980\ 525.99$ mgals		
IGC 15671A			
GW 4			
D09938-63			
		ESTIMATED ACCURACY ± 0.1 mgals	DATE MONTH/YEAR July/1967

DESCRIPTION AND/OR SKETCH

The station is in Great Falls, on 2nd Ave. N. at the Roosevelt School, in the south portion of the hallway, 15 meters north of the double doors at the south entrance, against the east wall, on the tile floor. Contact: Mr. Benjamin F. Stephens. Phone: 452-3327. (1)



REFERENCE SOURCE

(1) 02733

GRAVITY BASE STATION

LATITUDE	47° 07.7' N	(1)	STATION DESIGNATION	
LONGITUDE	104° 40.7' W	(1)	GLENDIVE	
ELEVATION	648.6	METERS (1)	COUNTRY/STATE	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0562-1			$g = 980\ 636.21$ mgals	
WA 242				
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR Dec/1968

DESCRIPTION AND/OR SKETCH

Station is located at the airport at Glendive, at west end of
 "The Runway" Building, at base of east pole. (1)

REFERENCE SOURCE

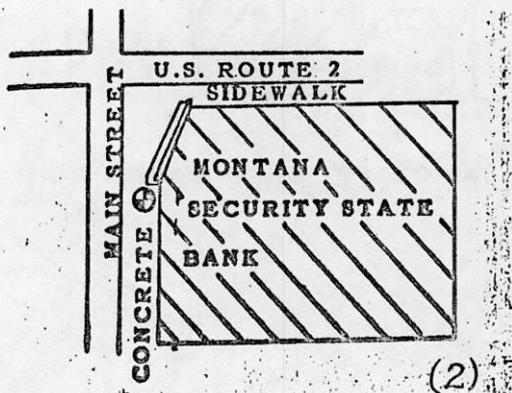
(1) 00415

GRAVITY BASE STATION

LATITUDE 48° 31.00' N (1)	STATION DESIGNATION HARLEM	
LONGITUDE 108° 46.00' W (1)		
ELEVATION 722.69 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1214-0	$g = 980\ 727.35$ mgals	
IGC 15588B		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Harlem, Mont., on the sidewalk at the base of the NE corner post of the steps at the Montana Security State Bank, located at the SE corner of the intersection of U. S. Highway 2 and Main Street. USC&GS BM D23 is set vertically in the west face of the guard wall of the steps. The mark is a standard disk stamped "2371.098". (1)



REFERENCE SOURCE

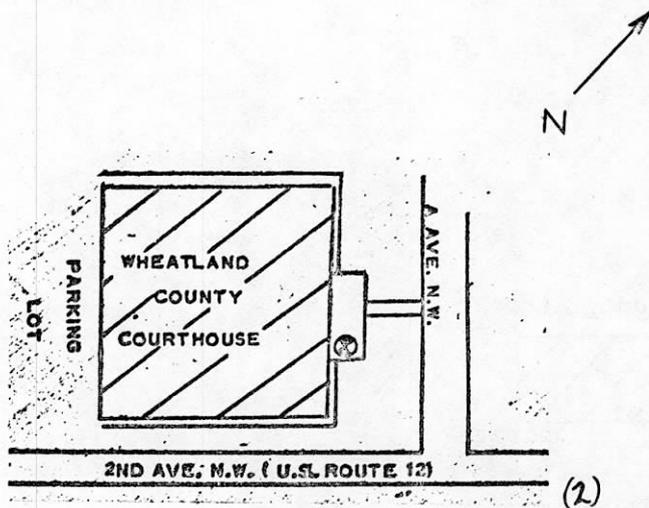
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">46° 26.25' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">HARLOWTON</div>	
LONGITUDE <div style="text-align: center;">109° 50.25' W (1)</div>		
ELEVATION <div style="text-align: center;">1285.42 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1215-0 IGC 15569B	$g = 980\,376.05$ mgals	
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Wheatland County Court House in Harlowton, Mont., six inches NE of the USC&GS BM A 126. The EM is located seven feet south of the main entrance, in the face of the SE portico over the main doorway, and 13 inches above the ground. The standard disk, stamped "A 126 1934," is set vertically. The building, once used as a high school, is located at the corner of A Avenue N.W. and 2nd Avenue N. W. (U. S. Highway 12). (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

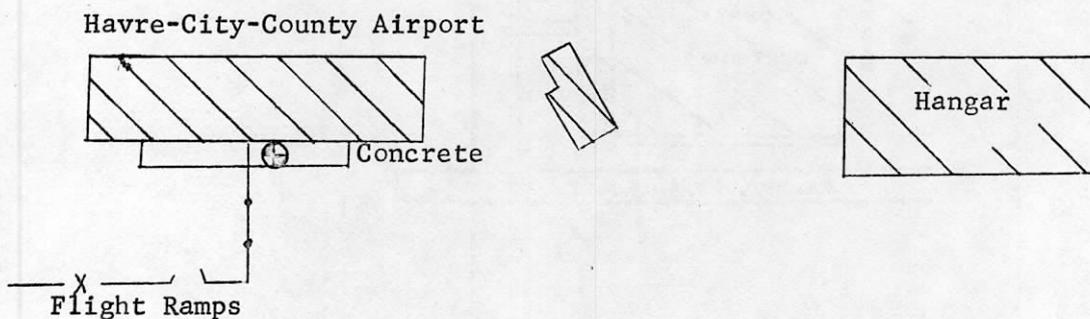
919

GRAVITY BASE STATION

LATITUDE 48° 32.75' N (1)	STATION DESIGNATION HAVRE	
LONGITUDE 109° 45.50' W (1)		
ELEVATION 789.1 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1216-0	$g = 980\ 694.41$ mgals	
IGC 15589J		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
± 0.1 mgals		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Havre City-County Airport, approximately four miles WSW of Havre, Mont., about one foot west of the Frontier Airlines entrance (south side, east end of the terminal), outside the building, on the concrete. (1)



(2)

REFERENCE SOURCE

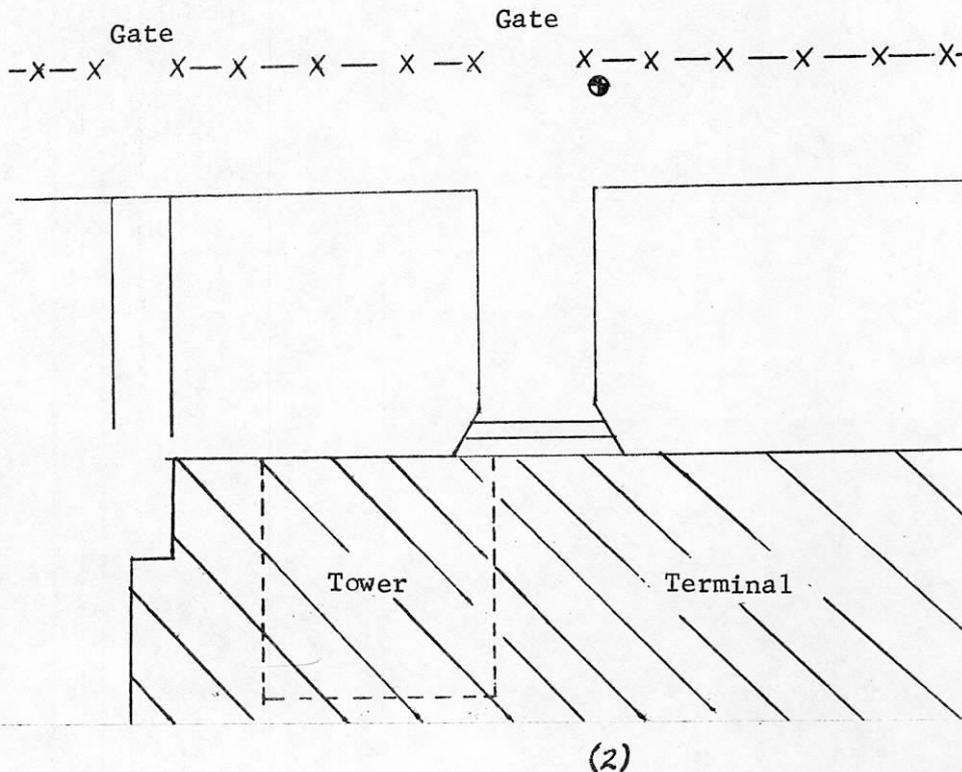
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">46° 36.5' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">HELENA</div>	
LONGITUDE <div style="text-align: center;">111° 59.5' W (1)</div>		
ELEVATION <div style="text-align: center;">1180.5 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS ACTC 0475-0 IGC 15661J WA 31		ADOPTED GRAVITY VALUE <div style="text-align: center;">g = 980 377.20 mgals</div>
		ESTIMATED ACCURACY <div style="text-align: center;">± 0.1 mgals</div>
		DATE <div style="text-align: center;">MONTH/YEAR Aug/1968</div>

DESCRIPTION AND/OR SKETCH

Station is located at Helena, Mont., Municipal Airport, at the gate of the barrier, on the ramp side of the terminal building, opposite the terminal exit to planes, on the asphalt. (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

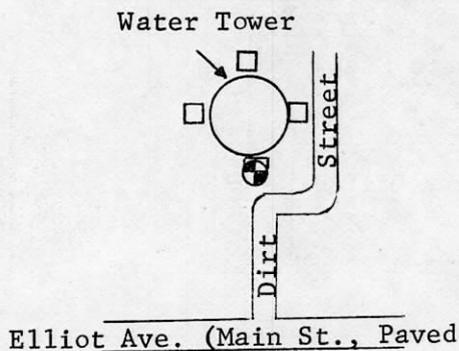
731

GRAVITY BASE STATION

LATITUDE <div style="text-align: center; font-size: 1.2em;">46° 17.50' N</div> <div style="text-align: right;">(1)</div>	STATION DESIGNATION <div style="text-align: center; font-size: 1.2em;">HYSHAM</div>	
LONGITUDE <div style="text-align: center; font-size: 1.2em;">107° 13.50' W</div> <div style="text-align: right;">(1)</div>		
ELEVATION <div style="text-align: center; font-size: 1.2em;">810.99</div> <div style="text-align: right;">METERS (1)</div>	COUNTRY/STATE <div style="text-align: center; font-size: 1.2em;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0681-0		$g = 980\ 491.90$ mgals
IGC 155670		
		ESTIMATED ACCURACY
		DATE
		MONTH/YEAR
		+ - 0.1 mgals
		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located directly over USC&GS BM "D 394 1958". The BM is located on the SE corner of the south concrete footing of the city water tower, about 0.25 mile NE of the Northern Pacific Railroad Station. The mark is a standard disk set about level with the ground. (1)



(2)

REFERENCE SOURCE

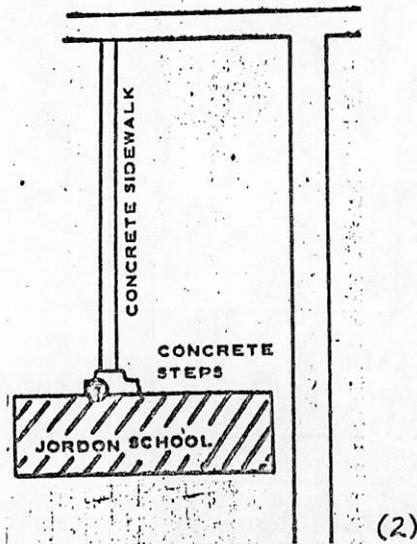
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 47° 19.00' N (1)	STATION DESIGNATION JORDAN	
LONGITUDE 106° 54.50' W (1)	COUNTRY/STATE USA/Montana	
ELEVATION 791.02 METERS (1)	ADOPTED GRAVITY VALUE	
REFERENCE CODE NUMBERS	ESTIMATED ACCURACY	
ACIC 1218-0	g = 980 616.37 mgals	
IGC 15576B		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Jordan, Mont.; directly over USC&GS BM C38 which is located at the north entrance to Jordan Elementary School, at the top of the west end of the top step. The standard disk is stamped "2595.211 C 38 1931". (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

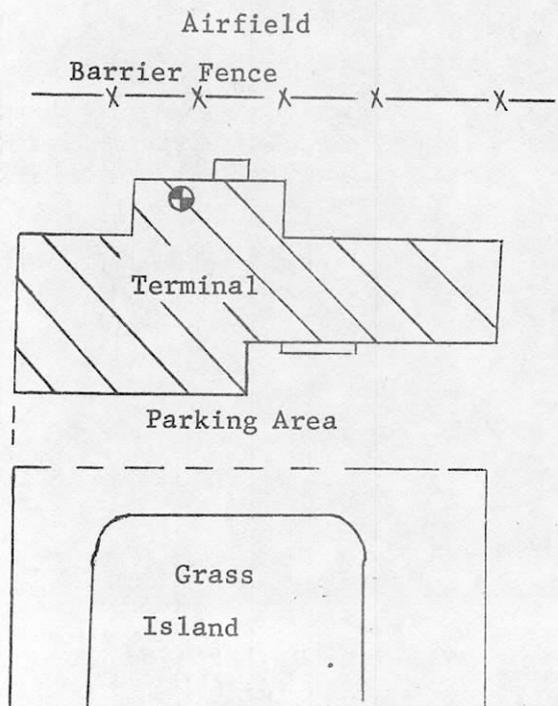
921

GRAVITY BASE STATION

LATITUDE $48^{\circ} 18.50' N$ (1)	STATION DESIGNATION <p style="text-align: center; font-weight: bold;">KALISPELL</p>	
LONGITUDE $114^{\circ} 15.00' W$ (1)		
ELEVATION 905.6 METERS (1)	COUNTRY/STATE <p style="text-align: center; font-weight: bold;">USA/Montana</p>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0441-0	$g = 980\ 581.09$ mgals	
IGC 15684 J		
WA 32		
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Flathead Airport, six miles north of Kalispell, Mont., on the west side of St. Hwy. #206, inside the airport lobby, on the floor, at the west side of the entrance to the apron and loading area. (1)



(2)

REFERENCE SOURCE

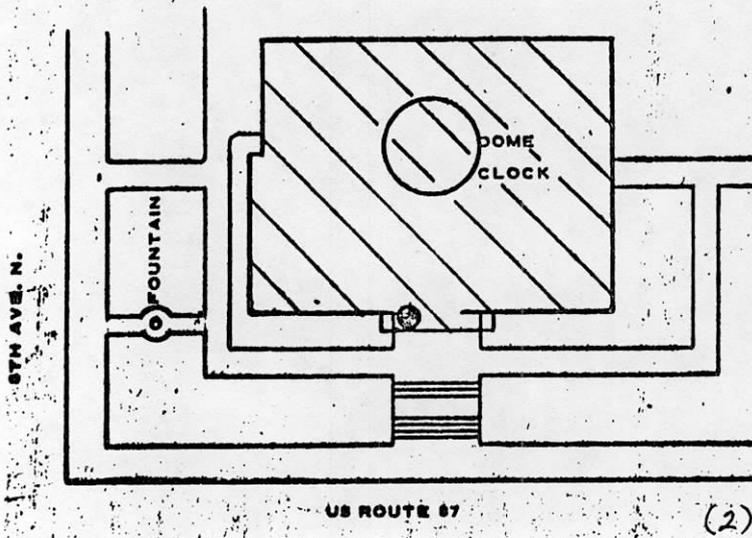
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 47° 03' N (1)	STATION DESIGNATION	
LONGITUDE 109° 29' W (1)	LEWISTOWN	
ELEVATION 1208.07 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 2017-0	$g = 980\,463.02$ mgals	
IGC 15579B		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Lewistown, Mont., at Fergus County Court House, at the south entrance (facing US 87), in the northwest corner of the entranceway, outside the building, on the marble step at USC&GS BM V 48 1933. (1)



REFERENCE SOURCE

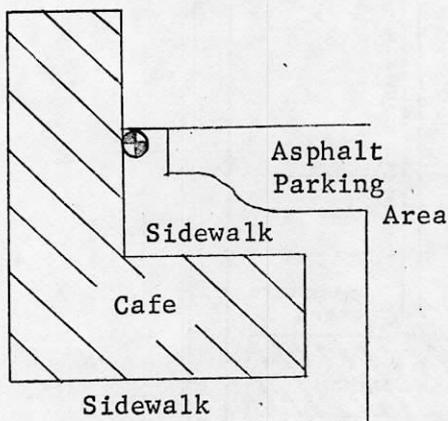
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 46° 57.00' N (1)	STATION DESIGNATION		
LONGITUDE 112° 40.75' W (1)	LINCOLN		
ELEVATION 1382.56 METERS (1)	COUNTRY/STATE USA/Montana		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 1220-0	$g =$ 980 361.05 mgals		ESTIMATED ACCURACY
IGC 156620			
	ESTIMATED ACCURACY		DATE
	\pm 0.1 mgals		MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located behind "Lambkins of Lincoln" cafe and bar, north of State Highway 20; adjacent to USGS EM stamped "4533 BUTTE," extreme NW corner of a concrete sidewalk used to enter the kitchen. The USGS EM disk is fixed to a pipe six inches to the north of the gravity station, off the sidewalk. (1)



Montana State Route 20

(2)

REFERENCE SOURCE

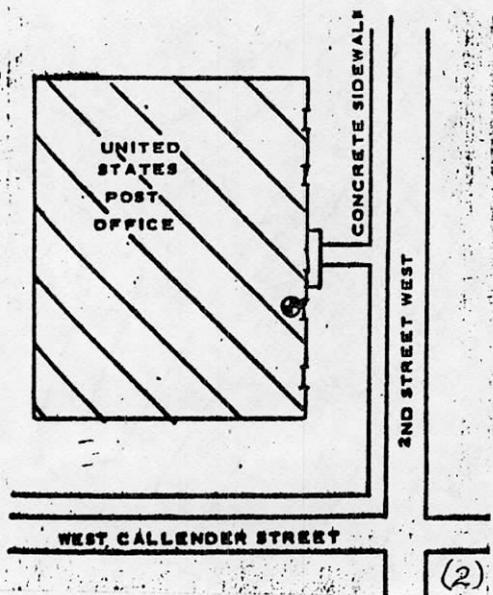
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 45° 39.75' N (1)	STATION DESIGNATION LIVINGSTON	
LONGITUDE 110° 33.75' W (1)		
ELEVATION 1372.51 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0673-0	$g = 980\ 246.61$ mgals	
IGC 15650B		
	ESTIMATED ACCURACY	DATE
	± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the new U. S. Post Office, at the corner of 2nd St. and West Callender St., in Livingston, Mont., directly over USC&GS BM W31. The BM is set on the window sill of the first window south (left) of the main entrance to the Post Office, approximately 4 feet above the level of the sidewalk. The standard disk is stamped "4502.967 W 31 1923". (1)



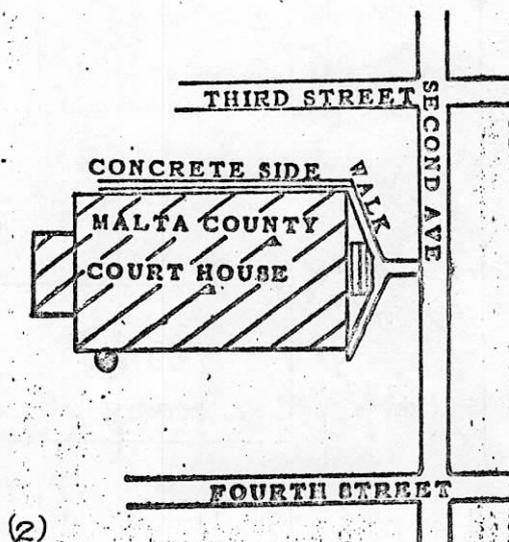
REFERENCE SOURCE
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">48° 21.50' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">MALTA</div>	
LONGITUDE <div style="text-align: center;">107° 52.00' W (1)</div>		
ELEVATION <div style="text-align: center;">686.98 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1221-0 IGC 15587B	g = 980 720.13 mgals	
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Malta, Mont., at the Phillips County Court House, directly over USC&GS EM X39. The EM is located at the county court house, 3.3 feet east of the SW corner of the foundation, and against the south face. The standard disk, stamped "2253.850 x 39 1931" is set in the top of a concrete post about flush with the ground. (1)



REFERENCE SOURCE

(1) 01355 (2) 05100

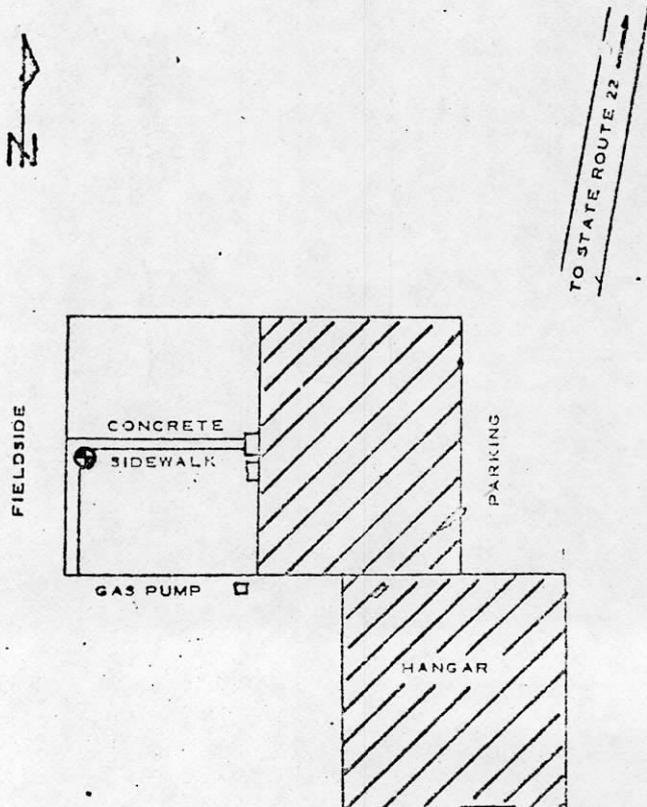
923

GRAVITY BASE STATION

LATITUDE		46° 25.75'N (1)	STATION DESIGNATION			
LONGITUDE		105° 52.50'W (1)	MILES CITY			
ELEVATION		818.7 METERS (1)				
REFERENCE CODE NUMBERS			COUNTRY/STATE			
ACIC 0630-0 IGB 15565J WA 244			USA/Montana			
					ADOPTED GRAVITY VALUE	
					$g =$ 980 522.25 mgals	
			ESTIMATED ACCURACY	DATE		
			± 0.1 mgals	MONTH/YEAR		
				12/70		

DESCRIPTION AND/OR SKETCH

Station is located at Miles City Airport, approximately three miles northwest of Miles City, Montana; four feet south of the barrier gate, on the terminal side of the barrier, in the center of the concrete walkway. (1)



(2)

REFERENCE SOURCE

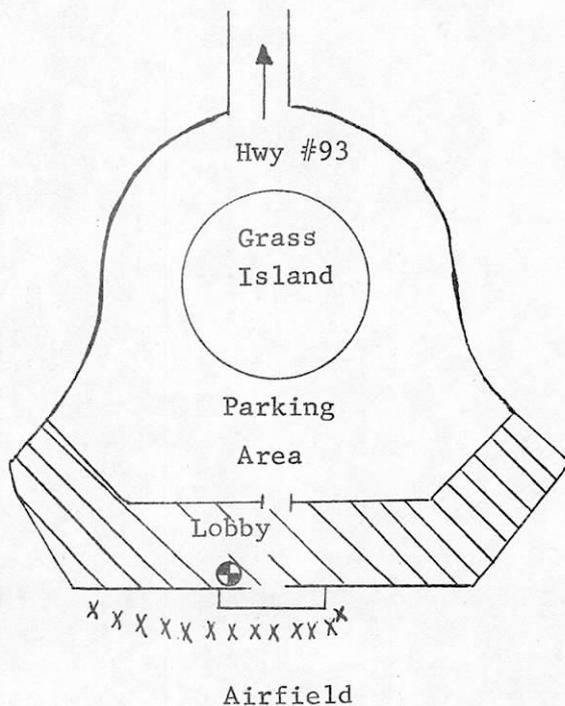
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 46° 55.00' N (1)	STATION DESIGNATION MISSOULA	
LONGITUDE 114° 06.50' W (1)		
ELEVATION 976.3 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0442-0	$g = 980\ 443.15$ mgals	
IGC 15664J		
WA 127		
		ESTIMATED ACCURACY
		± 0.1 mgals
		DATE
		MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Missoula Airport, inside the lobby, on the tile floor, one foot west of the exit to the apron and aircraft. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

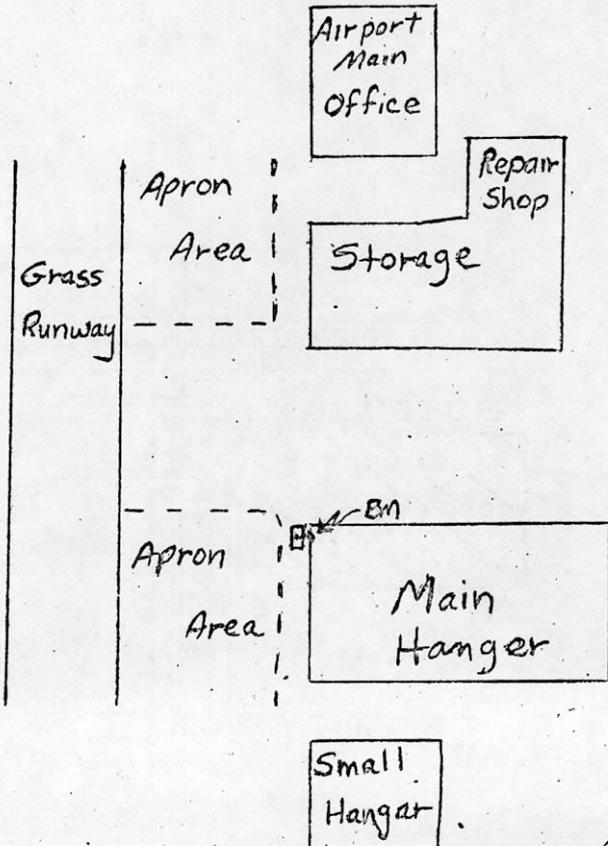
709

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">47° 41.00'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">POLSON</div>	
LONGITUDE <div style="text-align: center;">114° 09.75'W (1)</div>		
ELEVATION <div style="text-align: center;">893.93 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1223-0		$g =$ 980 564.25 mgals
IGB 15674J		
		ESTIMATED ACCURACY
		DATE
	± 0.1 mgals	MONTH/YEAR
		12/71

DESCRIPTION AND/OR SKETCH

Station is located at the Polson Airport, main hangar, one foot west of the foundation wall nearest the south apron area, on the ground outside the foundation wall containing a USC & GS BM stamped "B 376 1950". The BM is inside the hangar, one foot south of the hangar door and not visible from the station. (1)



(1)

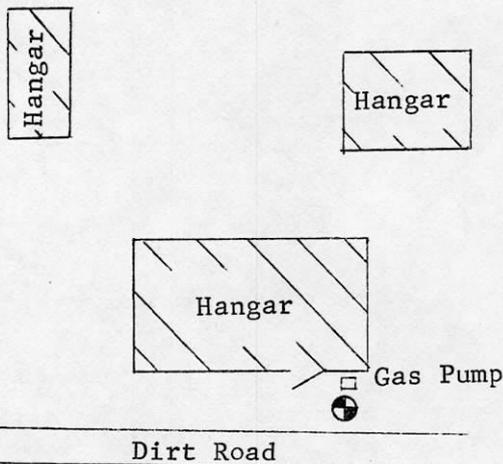
REFERENCE SOURCE
(1) 01355

GRAVITY BASE STATION

LATITUDE	45° 11.50' N (1)	STATION DESIGNATION	RED LODGE
LONGITUDE	109° 15.50' W (1)		
ELEVATION	1706.9 METERS (1)	COUNTRY/STATE	USA/Montana
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0666-1		g = 980 122.99	mgals
IGC 15559T			
		ESTIMATED ACCURACY	DATE
		± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Red Lodge Airport, Mont., two feet south from the gasoline pump in front of the office door. (1)



(2)

REFERENCE SOURCE

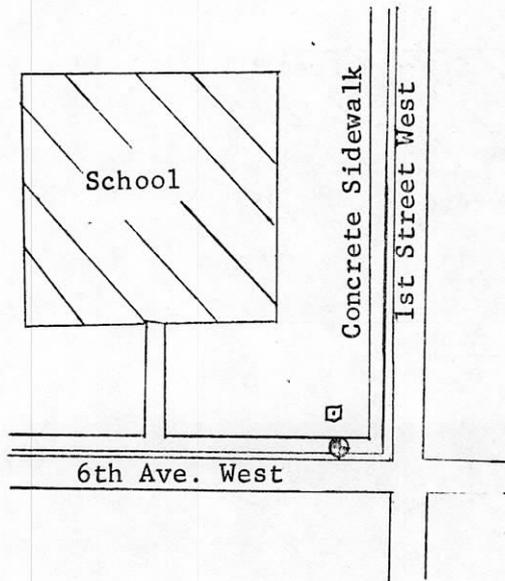
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">46° 27.00' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">ROUNDUP</div>	
LONGITUDE <div style="text-align: center;">108° 32.50' W (1)</div>		
ELEVATION <div style="text-align: center;">983.44 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1226-0 IGC 15568J	g = 980 461.44 mgals	
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Roundup, Mont., three feet south of USGS EM 3227. The EM is located at the intersection of First Street and Sixth Avenue West, at the SE corner of the public school grounds, and near the sidewalk of Sixth Avenue West. A USGS Standard disk, stamped "3227 1916," is riveted on top of a 3½ inch iron pipe which protrudes from the ground approximately 8 inches. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

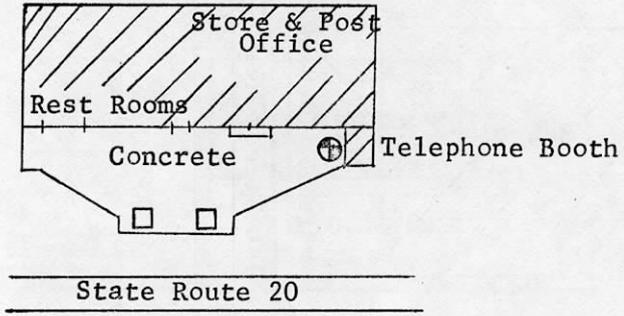
925

GRAVITY BASE STATION

LATITUDE $47^{\circ} 06.00' N$ (1)	STATION DESIGNATION SAND SPRINGS	
LONGITUDE $107^{\circ} 29.50' W$ (1)		
ELEVATION METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1227-0 IGC 15577J	$g = 980\,556.04$ mgals	
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the U. S. Post Office in Sand Springs, Mont., one foot west of the telephone booth, and one foot south from the south wall of the Post Office. (1)



(2)

REFERENCE SOURCE

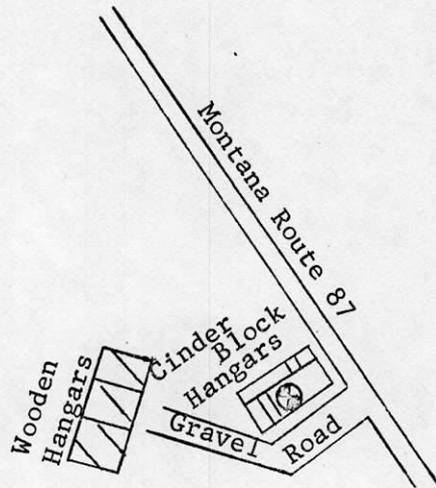
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE 47° 08.75' N (1)		STATION DESIGNATION STANFORD	
LONGITUDE 110° 13.50' W (1)			
ELEVATION 1306.1 METERS (1)		COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 1201-0		$g = 980\ 436.25$ mgals	
IGC 15670T			
		ESTIMATED ACCURACY	DATE
		± 0.1 mgals	MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at Stanford Airport, and is at the intersection of inset walk inside the cinder block hangar, eight inches from north and east walk, on the earth floor. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

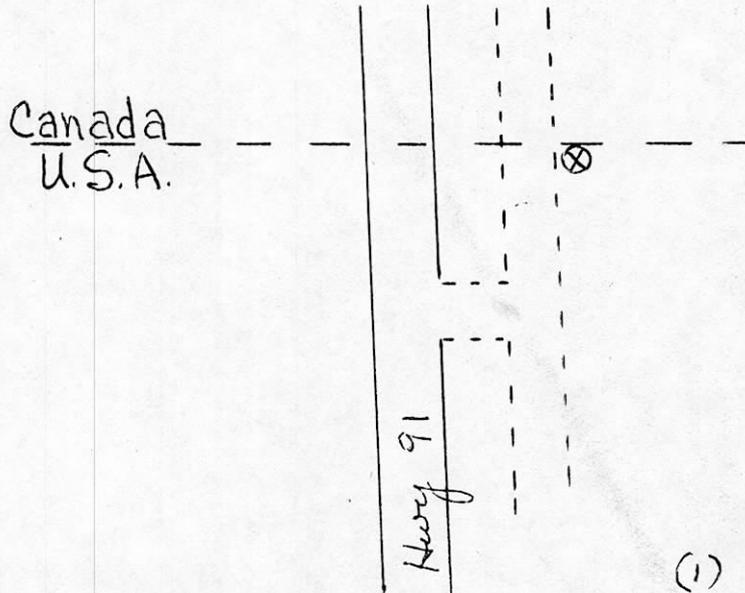
GRAVITY BASE STATION

LATITUDE	48° 59.90'N	(1)	STATION DESIGNATION	SWEETGRASS	
LONGITUDE	111° 57.45'W	(1)			
ELEVATION	1057.0	METERS (1)	COUNTRY/STATE	USA/Montana	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE		
ACIC 3942-1			g =	980 690.66	mgals
HUS 174					
			ESTIMATED ACCURACY	DATE	
			± 0.3 mgals	MONTH/YEAR	
				10/70	

DESCRIPTION AND/OR SKETCH

T 37N, R 3W, S 2

At the US-Canada border, in the concrete base of the US-Canada Boundary Monument 334, (Sweetgrass, Montana). Stamping: "DATUM" (H12) elevation: 3467.001 feet. (1)



REFERENCE SOURCE

(1) 04099

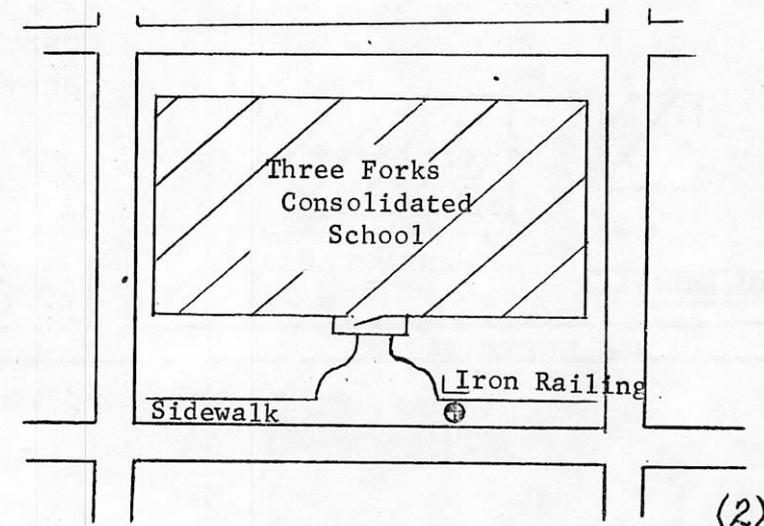
1361

GRAVITY BASE STATION

LATITUDE <div style="text-align: center; font-size: 1.2em;">45° 53.75' N</div> <div style="text-align: right;">(1)</div>	STATION DESIGNATION <div style="text-align: center; font-size: 1.2em;">THREE FORKS</div>	
LONGITUDE <div style="text-align: center; font-size: 1.2em;">111° 33.25' W</div> <div style="text-align: right;">(1)</div>		
ELEVATION <div style="text-align: center; font-size: 1.2em;">1243.8</div> <div style="text-align: right;">METERS (1)</div>	COUNTRY/STATE <div style="text-align: center; font-size: 1.2em;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1231-0		$g = 980\ 303.79$ mgals
IGC 15651J		
		ESTIMATED ACCURACY
		± 0.1 mgals
		DATE
		MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located at the Three Forks Consolidated School in Three Forks, Mont., two feet east of the iron railing located at the NE corner of the intersection of the school walk and the sidewalk. (1)



REFERENCE SOURCE

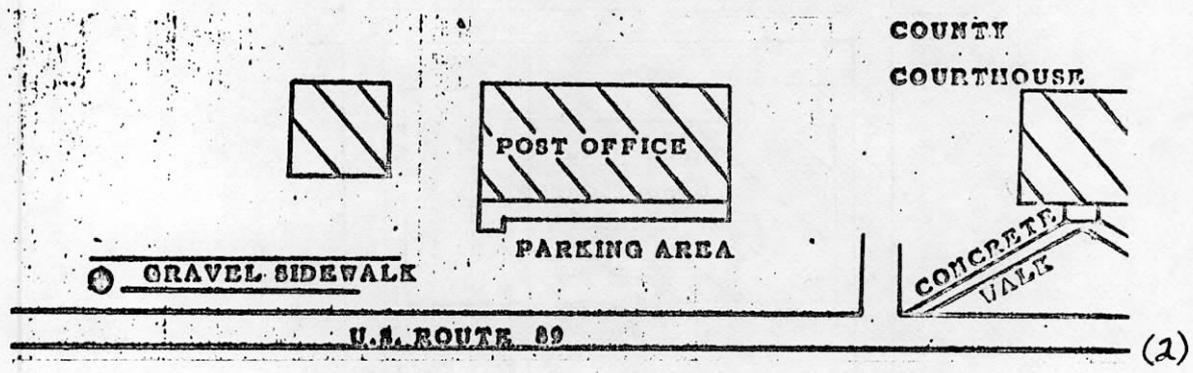
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center; font-size: 1.2em;">46° 33.00' N</div> <div style="text-align: right;">(1)</div>	STATION DESIGNATION <div style="text-align: center; font-size: 1.2em;">WHITE SULPHUR SPRINGS</div>	
LONGITUDE <div style="text-align: center; font-size: 1.2em;">110° 54.00' W</div> <div style="text-align: right;">(1)</div>		
ELEVATION <div style="text-align: center; font-size: 1.2em;">1526.73</div> <div style="text-align: right;">METERS (1)</div>	COUNTRY/STATE <div style="text-align: center; font-size: 1.2em;">USA/Montana</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIG 1233-0 IGC 15660J	$g = 980\ 304.81$ mgals	
		ESTIMATED ACCURACY ± 0.1 mgals
		DATE MONTH/YEAR Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located approximately 400 feet west of the U. S. Post Office in White Sulphur Springs, Mont., three feet south of Montana State Highway Survey Bench Mark. The B. M. is a standard disk stamped "Mont. State Road Elev. 5,008.97", and placed on top of a concrete post, four feet above the ground. The post is marked "FA SS 49 (7)". (1)



REFERENCE SOURCE

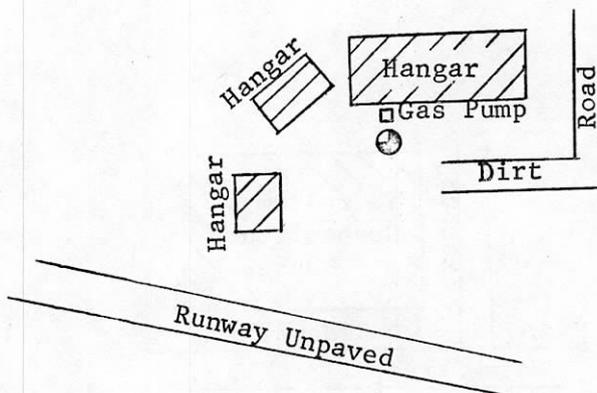
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE <div style="text-align: center;">47° 33.50' N (1)</div>	STATION DESIGNATION <div style="text-align: center;">WINIFRED</div>	
LONGITUDE <div style="text-align: center;">109° 22.50' W (1)</div>		
ELEVATION <div style="text-align: center;">999.0 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">USA/Montana</div>	
REFERENCE CODE NUMBERS ACIC 1234-0 IGC 15579P		ADOPTED GRAVITY VALUE <div style="text-align: center;">g = 980 552.03 mgals</div>
		ESTIMATED ACCURACY <div style="text-align: center;">± 0.1 mgals</div>
		DATE MONTH/YEAR <div style="text-align: center;">Aug/1968</div>

DESCRIPTION AND/OR SKETCH

Station is located at Winifred Airport; Winifred, Mont., two feet south of the gasoline pump at the airport. The gasoline pump is located near the SW corner of the most eastern hangar. (1)



(2)

REFERENCE SOURCE

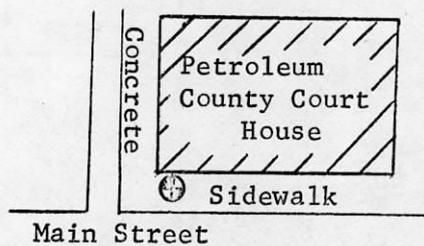
(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE	47° 00.25' N	(1)	STATION DESIGNATION	
LONGITUDE	108° 21.00' W	(1)	WINNETT	
ELEVATION	899.89	METERS (1)	COUNTRY/STATE	
			USA/Montana	
REFERENCÉ CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 1235-0			g = 980 546.87 mgals	
IGC 15578B				
			ESTIMATED ACCURACY	DATE
			± 0.1 mgals	MONTH/YEAR
				Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located in Winnett, Mont., at the Petroleum County Court House; one foot south of USC&GS EM K89. The EM is located on the south wall, six inches east from the intersection of the south and west walls of the Petroleum County Court House. The EM is a standard disk stamped "K 89 1934 2952.389 ft."; and placed vertically in the south wall nine inches above concrete sidewalk. (1)



(2)

REFERENCE SOURCE

(1) 01355 (2) 05100

GRAVITY BASE STATION

LATITUDE	45° 07.32'N (1)	STATION DESIGNATION	
LONGITUDE	107° 23.73'W (1)	WYOLA	
ELEVATION	1135.7 METERS (1)		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 3941-1		g = 980 263.52 mgals	
HUS 574			
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR 10/70

DESCRIPTION AND/OR SKETCH

T 3S, R 35E, S 23

Along US Highway 87, about 0.35 mile south of Wyola, on the west side of highway, 40 feet east of railroad crossing, at the intersection of the highway and a blacktop road (leading west) at Triangulation Station: "SID Azimuth 1957" BM elevation: 3725.373 feet. (1)

REFERENCE SOURCE

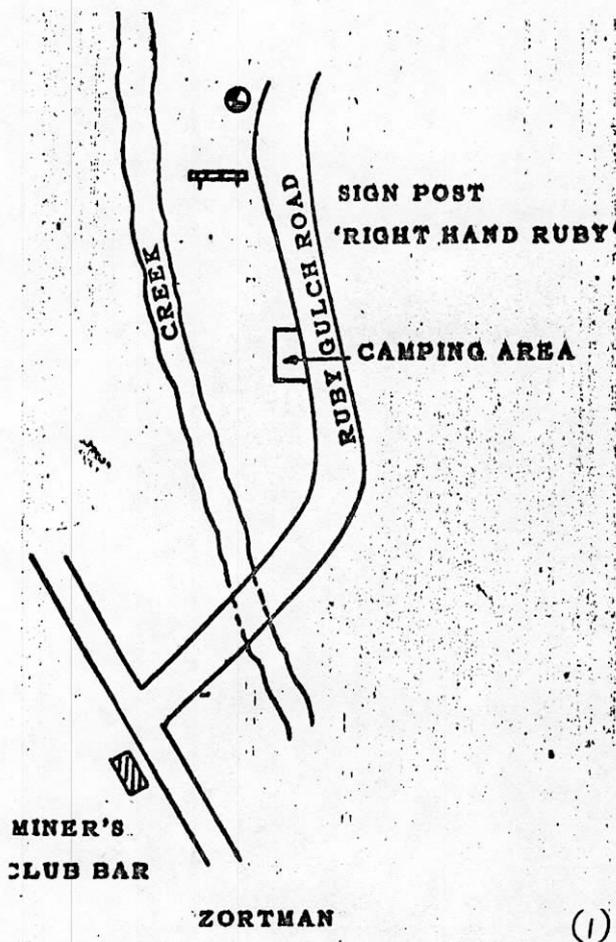
(1) 04099

GRAVITY BASE STATION

LATITUDE 47° 55.00' N (1)	STATION DESIGNATION ZORTMAN	
LONGITUDE 108° 32.00' W (1)		
ELEVATION 1,271.6 METERS (1)	COUNTRY/STATE USA/Montana	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 1476-0	g = 980 545.76 mgals	
IGC 155780		
		ESTIMATED ACCURACY
		± 0.1 mgals
		DATE
		Aug/1968

DESCRIPTION AND/OR SKETCH

Station is located 0.8 miles NW along the "Ruby Gulch" road from the Miner's Club in Zortman, Montana. It is 70 feet north of the junction of "Right Hand Ruby" road and 45 feet south of the center line of "Ruby Gulch" road. A USC&GS bronze disc, set in a concrete post and stamped "H 275, 1935," identifies the station. (1)



REFERENCE SOURCE

(1) 05100