

BENCH MARK DESCRIPTION
AND ELEVATION
PORTER COUNTY

USC&GS BM H 139, 1946

In Porter County, Hebron Quad., in the NW ¼ of Sec. 27, T. 33 N., R. 7 W., 2nd PM.; about 1.75 miles south of Hebron; about 0.5 mile west along State Road 2 from its intersection with U.S. 231, about 0.5 mile east of the Porter-Lake County line; set in the top of a concrete post, at the north end of a row of hedge trees between two cultivated fields, 28 feet south of the centerline of the highway, 10.5 feet west of a corner fence post at a "T"-fence leading south, 1 foot north of the fence line, 2 feet east of a white wooden witness post, about level with the highway, and projecting 6 inches; a US Coast and Geodetic Survey bronze tablet, stamped "H 139 1946".

670.392 feet NGVD 1929

IFC&WRC TBM K 24

In Porter County, Hebron Quad., in the NE ¼ of Sec. 34, T. 33 N., R. 7 W., 2nd PM.; about 2.5 miles south of Hebron; about 3.1 miles south along U.S. 231 from the Pennsylvania Railroad Station at Hebron; set in a root in the east side of a 27-inch Black Walnut tree, 350 feet south of the entrance to Blake Morrow's farm, 180 feet north of the north end of a highway guardrail, 19 feet west of the centerline of the highway, 0.5 foot above the ground; a railroad spike.

654.526 feet NGVD 1929

IFC&WRC TBM K 28-1

In Porter County, Hebron Quad., in the NE ¼ of Sec. 3, T. 32 N., R. 7 W., 2nd PM.; about 4.4 miles south of Hebron; at the U.S. 231 bridge over the Kankakee River; set on top of the west end of the north concrete pier, 0.7 foot south of and 0.5 foot west of the northwest anchor bolt; a chiseled square.

Original 1954 elevation superseded ~~649.832~~ feet NGVD 1929

649.766 feet NGVD 1929

IFC&WRC BM POR 1, 1950

In Porter County, Hebron Quad., in the NW ¼ of Sec. 2, T. 32 N., R. 7 W., 2nd PM.; about 4.4 miles south of Hebron; at the U.S. 231 bridge over the Kankakee River; set on the northeast pier cap, 1.0 foot north of the northeast bridge seat, 1.0 foot east of the end of the north concrete floor beam, 8.6 feet below the south end of the northeast concrete guardrail, 3.7 feet above the ground; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 1 1950".

Original 1954 elevation superseded ~~649.846~~ feet NGVD 1929
649.781 feet NGVD 1929

IFC&WRC BM POR 2, 1950

In Porter County, Hebron Quad., in the NE ¼ of Sec. 35, T. 33 N., R. 7 W., 2nd PM.; about 3.4 miles south-southeast of Hebron; at the 625 West Road 120-foot two-span steel pony truss bridge over the Kankakee River; set in the top of the northwest wingwall, 9.9 feet west of and level with the centerline of the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 2 1950".

Original 1954 elevation superseded ~~650.926~~ feet NGVD 1929
650.737 feet NGVD 1929

USC&GS BM K 141, 1946

In Porter County, Kouts Quad., in the NW ¼ of Sec. 16, T. 33 N., R. 6 W., 2nd PM.; about 4.0 miles west of Kouts; at the intersection of State Road 8 and 250 West Road, in the southwest quarter of the intersection; set in the top of a concrete post, 38 feet west of 250 West Road, 28 feet south of the centerline of the highway, 18.5 feet west of a fence corner post, 2 feet east of a white wooden witness post, about 2 feet below the intersection, projecting 6 inches; a US Coast and Geodetic Survey bronze tablet, stamped "K 141 1946".

676.849 feet NGVD 1929

IFC&WRC TBM K 30-1

In Porter County, Kouts Quad., in the NW ¼ of Sec. 28, T. 33 N., R. 6 W., 2nd PM.; about 4.0 miles southwest of Kouts; about 2.4 miles south along the gravel 250 West Road from its intersection with State Road 8, at a 110-foot steel truss bridge over the Kankakee River; set on the southeast (upstream-streamward) corner of the east (right-upstream) wingwall; a chiseled square.

Original 1954 elevation superseded ~~657.201~~ feet NGVD 1929
657.126 feet NGVD 1929

IFC&WRC BM POR 3, 1950

In Porter County, Kouts Quad., in the NW ¼ of Sec. 28, T. 33 N., R. 6 W., 2nd PM.; about 4.0 miles southwest of Kouts; about 2.4 miles south along the gravel 250 West Road from its intersection with State Road 8, at a 110-foot steel truss bridge over the Kankakee River; set in the top of the east (right upstream) wingwall, 11 feet southeast of and level with the centerline of the road, 1.9 feet from the south edge of the wingwall; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 3 1950".

Original 1954 elevation superseded ~~657.236~~ feet NGVD 1929
Third Order 657.34 feet NGVD 1929

USC&GS BM N 141, 1946

In Porter County, Kouts Quad., in the SE ¼ of Sec. 12, T. 33 N., R. 6 W., 2nd PM.; about 1.0 miles west of Kouts; at the intersection of State Road 8 and Baums Bridge Road, in the northwest quarter of the intersection; set in the top of a concrete post, 123 feet south of the centerline of the driveway leading to a brown imitation brick house, 37 feet west of the centerline of the gravel Baums Bridge Road, 29 feet north of the centerline of the highway, 9 feet west of a corner fence post, 2 feet east of a white wooden witness post, about level with the highway, projecting 6 inches; a US Coast and Geodetic Survey bronze tablet, stamped "N 141 1946".

681.879 feet NGVD 1929

IFC&WRC TBM K 27

In Porter County, Kouts Quad., in the SE ¼ of Sec. 23, T. 33 N., R. 6 W., 2nd PM.; about 2.2 miles southwest of Kouts; about 2.2 miles southwest along a blacktop Baums Bridge Road from its intersection with State Road 8; set in the west side of a 28-inch Oak tree, 25 feet east of the centerline of the road, 6 feet east of a fence line, 0.5 foot above the ground; a railroad spike.
664.811 feet NGVD 1929

IFC&WRC TBM K 28

In Porter County, Kouts Quad., in the SE ¼ of Sec. 26, T. 33 N., R. 6 W., 2nd PM.; about 2.5 miles southwest of Kouts; at the intersection of Baums Bridge Road and 1050 South Road, in the southeast quarter of the intersection; set in a root on the west side of a 36-inch Elm tree, 36 feet south of the centerline of 1050 South Road, 21 feet east of the centerline of the blacktop Baums Bridge Road, 0.5 foot above the ground; a railroad spike.
662.965 feet NGVD 1929

USC&GS BM N 143, 1946

In Porter County, Kouts Quad., in the NE ¼ of Sec. 6, T. 32 N., R. 5 W., 2nd PM.; about 3.5 miles south of Kouts; at the State Road 49 bridge over the Kankakee River; set in the top of the southeast end of the northeast abutment of the bridge, 18 feet southeast of and about 8 inches higher than the centerline of the highway, 3 feet southeast of the steel bridge railing; a US Coast and Geodetic Survey bronze tablet, stamped "N 143 1946".

DESTROYED see USC&GS BM N 143 RESET 1996

666.803 feet NGVD 1929

203.242 meters NGVD 1929

666.49 feet NAVD 1988

203.148 meters NAVD 1988

USC&GS BM N 143 RESET 1996

In Porter County, Kouts Quad., in the NE ¼ of Sec. 6, T. 32 N., R. 5 W., 2nd PM.; about 3.5 miles south of Kouts; at the State Road 49 bridge over the Kankakee River; set in the top of the east end of the abutment wingwall of the bridge, 18 feet east of and about 4 inches higher than the centerline of the highway; a US Coast and Geodetic Survey bronze tablet, stamped "N 143 RESET 1996".

THIRD ORDER

666.5 feet NAVD 1988

203.15 meters NAVD 1988

IFC&WRC BM POR 4, 1950

In Porter County, Kouts Quad., in the NE ¼ of Sec. 35, T. 33 N., R. 6 W., 2nd PM.; about 2.9 miles southwest of Kouts; about 3.2 miles southwest along a blacktop Baums Bridge Road from its intersection with State Road 8, at a steel truss bridge over the Kankakee River; set in the top of the northeast (right-upstream) wingwall, 11 feet east of and level with the centerline of the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 4 1950".

659.949 feet NGVD 1929

IFC&WRC BM POR 5, 1955

In Porter County, Portage Quad., in the SW ¼ of Sec. 3, T. 36 N., R. 7 W., 2nd PM.; about 1.0 mile northeast of Lake Station; at the U.S. Highway 20 Bridge over Burns Ditch; set in the top of the north end of the west abutment, 27 feet north of the centerline of the highway, 1.0 foot above the road, 0.6 foot west of the face of the west abutment; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 5 1955".

Mark Found Sept. 23, 1988 J.C.S.

599.412 feet NGVD 1929

IFC&WRC TBM BD 7

In Porter County, Portage Quad., in the SW ¼ of Sec. 3, T. 36 N., R. 7 W., 2nd PM.; about 1.0 mile northeast of Lake Station; at the U.S. Highway 20 Bridge over Burns Ditch; set the east abutment, 30 feet south of the centerline of the highway, 0.9 foot above the road, 0.8 foot east of the face of the east abutment; a chiseled square.

599.358 feet NGVD 1929

IFC&WRC BM POR 6

In Porter County, Portage Quad., in the NW ¼ of Sec. 2, T. 36 N., R. 7 W., 2nd PM.; about 2.0 miles northeast of Lake Station; 0.3 mile north along Crisman road from its intersection with I 94 to a "T" road west, thence about 0.2 miles south along the road to a turn west, thence about 1.0 mile west to a turn north, thence 0.1 mile north to the Isley Marine Service Building at the Burns Ditch (Little Calumet River); set vertically in the east wall of the building, 44 feet west of the centerline of the road, 12.9 feet north of the southeast corner of the building, 2.1 feet above the ground; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 6 1955".
597.415 feet NGVD 1929

IFC&WRC TBM BD 8

In Porter County, Portage Quad., in the SW ¼ of Sec. 25, T. 37 N., R. 7 W., 2nd PM.; 0.8 mile southeast of Ogden Dunes; about 2.5 miles east along U.S. Highway 12 from the Lake-Porter County Line, 200 feet north of the U.S. Highway 12 bridge over the Portage Burns Waterway, at the second railroad bridge north of the U.S. Highway 12 bridge, at the Conrail (New York Central) Railroad bridge over the Portage Burns Waterway; set on the top of the wingwall, 9.5 feet south of the south rail of the tracks, 1.2 feet below the top of the rail, 0.5 foot from the end of the southwest wingwall; a chiseled square.
610.710 feet NGVD 1929

IFC&WRC BM POR 7, 1955

In Porter County, Portage Quad., in the SW ¼ of Sec. 25, T. 37 N., R. 7 W., 2nd PM.; 0.8 mile southeast of Ogden Dunes; about 2.5 miles east along U.S. Highway 12 from the Lake-Porter County Line, 200 feet north of the U.S. Highway 12 bridge over the Portage Burns Waterway, at the second railroad bridge north of the U.S. Highway 12 bridge, at the Conrail (New York Central) Railroad bridge over the Portage Burns Waterway; set in the west end of the north concrete retaining wall of the west abutment, 236.9 feet north of the center of the west bound lanes of U.S. 12, 9.2 feet north of the north rail of the tracks; 1.2 feet below the tracks; 1 foot east of the west end of the retaining wall; a Indiana Flood Control and Water Resources Commission disk, stamped "POR 7 1955".
604.671 feet NGVD 1929

Note : see the following updated NGS data sheet

1 National Geodetic Survey, Retrieval Date = MARCH 20, 2003

ME2130

ME2130 DESIGNATION - POR 7

ME2130 PID - ME2130

ME2130 STATE/COUNTY- IN/PORTER

ME2130 USGS QUAD - PORTAGE (1992)

ME2130

ME2130 *CURRENT SURVEY CONTROL

ME2130

ME2130* NAD 83(1986)- 41 37 08. (N) 087 10 37. (W) SCALED

ME2130* NAVD 88 - 186.060 (meters) 610.43 (feet) ADJUSTED

ME2130

ME2130 GEOID HEIGHT- -33.58 (meters) GEOID99

ME2130 DYNAMIC HT - 185.993 (meters) 610.21 (feet) COMP

ME2130 MODELED GRAV- 980,254.3 (mgal) NAVD 88

ME2130

ME2130 VERT ORDER - FIRST CLASS II

ME2130

ME2130.The horizontal coordinates were scaled from a topographic map and have
ME2130.an estimated accuracy of +/- 6 seconds.

ME2130

ME2130.The orthometric height was determined by differential leveling

ME2130.and adjusted by the National Geodetic Survey in June 1991.

ME2130

ME2130.The geoid height was determined by GEOID99.

ME2130

ME2130.The dynamic height is computed by dividing the NAVD 88

ME2130.geopotential number by the normal gravity value computed on the

ME2130.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

ME2130.degrees latitude (g = 980.6199 gals.).

ME2130

ME2130.The modeled gravity was interpolated from observed gravity values.

ME2130

ME2130; North East Units Estimated Accuracy

ME2130;SPC IN W - 707,290. 892,200. MT (+/- 180 meters Scaled)

ME2130

ME2130 SUPERSEDED SURVEY CONTROL

ME2130

ME2130 NGVD 29 - 186.155 (m) 610.74 (f) ADJUSTED 1 2

ME2130

ME2130.Superseded values are not recommended for survey control.

ME2130.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
ME2130.See file dsdata.txt to determine how the superseded data were derived.
ME2130

ME2130_U.S. NATIONAL GRID SPATIAL ADDRESS : 16TDM852074 (NAD 83)

ME2130_MARKER: DB = BENCH MARK DISK

ME2130_SETTING: 37 = MASSIVE RETAINING WALL

ME2130_STAMPING: POR 7 1955

ME2130_MARK LOGO: INFCC

ME2130_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

ME2130

ME2130 HISTORY	- Date	Condition	Report By
ME2130 HISTORY	- 1955	MONUMENTED	INFCC
ME2130 HISTORY	- 1985	GOOD	NGS

ME2130

ME2130 STATION DESCRIPTION

ME2130

ME2130'DESCRIBED BY NATIONAL GEODETIC SURVEY 1985

ME2130'14.0 KM (8.7 MI) EAST FROM GARY.

ME2130'14.0 KM (8.7 MI) EASTERLY ALONG U.S. HIGHWAY 12 FROM ITS JUNCTION WITH

ME2130'STATE HIGHWAY 53 (BROADWAY STREET) IN GARY, IN THE WEST END OF THE

ME2130'NORTH CONCRETE RETAINING WALL OF THE WEST ABUTMENT OF THE CONRAIL

ME2130'RAILROAD BRIDGE SPANNING THE BURNS WATERWAY, 72.2 M (236.9 FT) NORTH

ME2130'OF THE CENTER OF THE WEST BOUND LANES OF THE HIGHWAY, 2.8 M (9.2 FT)

ME2130'NORTH OF THE NEAR RAIL, AND 0.3 M (1.0 FT) EAST OF THE WEST END OF THE

ME2130'RETAINING WALL.

ME2130'THE MARK IS 0.3 M BELOW THE TRACKS.

USC&GS BM B 19, 1934 RESET 1946

In Porter County, Portage Quad., in the SE ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; 0.5 mile south of Ogden Dunes, 0.7 mile west along the Conrail (New York Central) Railroad from the bridge over the Portage Burns Waterway, at the Ogden Dunes stop of the Chicago, South Shore, and South Bend Electric Railroad, at the crossing of an asphalt road (Stagecoach Road) leading to the Ogden Community Church; set in the top of a concrete post, 187.0 feet north of the centerline of U.S. 12, 42.7 feet east of the centerline of the road (Stagecoach Road), 39 feet north of the north rail of the Conrail (New York Central) Railroad track, 7.2 feet southeast of utility pole number 312/664, about a foot south of a witness post, projecting 0.3 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "BM 19 1934 RESET 1946".

610.156 feet NGVD 1929

Note : see the following updated NGS data sheet

1 National Geodetic Survey, Retrieval Date = MARCH 20, 2003

ME1046

ME1046 DESIGNATION - B 19 RESET

ME1046 PID - ME1046

ME1046 STATE/COUNTY- IN/PORTER

ME1046 USGS QUAD - PORTAGE (1992)

ME1046

ME1046 *CURRENT SURVEY CONTROL

ME1046

ME1046* NAD 83(1986)- 41 37 01. (N) 087 11 22. (W) SCALED

ME1046* NAVD 88 - 185.888 (meters) 609.87 (feet) ADJUSTED

ME1046

ME1046 GEOID HEIGHT- -33.58 (meters) GEOID99

ME1046 DYNAMIC HT - 185.820 (meters) 609.64 (feet) COMP

ME1046 MODELED GRAV- 980,254.0 (mgal) NAVD 88

ME1046

ME1046 VERT ORDER - FIRST CLASS II

ME1046

ME1046.The horizontal coordinates were scaled from a topographic map and have ME1046.an estimated accuracy of +/- 6 seconds.

ME1046

ME1046.The orthometric height was determined by differential leveling
ME1046.and adjusted by the National Geodetic Survey in June 1991.

ME1046

ME1046.The geoid height was determined by GEOID99.

ME1046

ME1046.The dynamic height is computed by dividing the NAVD 88
ME1046.geopotential number by the normal gravity value computed on the
ME1046.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
ME1046.degrees latitude (g = 980.6199 gals.).

ME1046

ME1046.The modeled gravity was interpolated from observed gravity values.

ME1046

ME1046;	North	East	Units	Estimated Accuracy
ME1046;SPC IN W	- 707,080.	891,160.	MT	(+/- 180 meters Scaled)

ME1046

SUPERSEDED SURVEY CONTROL

ME1046

ME1046	NGVD 29	-	185.984 (m)	610.18 (f)	ADJUSTED	1 2
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ME1046

ME1046.Superseded values are not recommended for survey control.
ME1046.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
ME1046.See file dsdata.txt to determine how the superseded data were derived.

ME1046

ME1046_U.S. NATIONAL GRID SPATIAL ADDRESS : 16TDM842072 (NAD 83)

ME1046_MARKER: DB = BENCH MARK DISK

ME1046_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

ME1046_STAMPING: B 19 RESET 1946

ME1046_MARK LOGO: CGS

ME1046_PROJECTION: FLUSH

ME1046_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

ME1046+STABILITY: SURFACE MOTION

ME1046

ME1046	HISTORY	- Date	Condition	Report By
ME1046	HISTORY	- 1946	MONUMENTED	CGS
ME1046	HISTORY	- 1955	GOOD	NGS
ME1046	HISTORY	- 1983	GOOD	LOCSUR
ME1046	HISTORY	- 1985	GOOD	NGS

ME1046

STATION DESCRIPTION

ME1046

ME1046'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

ME1046'7.7 MI E FROM GARY.

ME1046'IN PORTER COUNTY, ABOUT 7.7 MILES EAST ALONG THE NEW YORK CENTRAL

ME1046'RAILROAD FROM THE STATION AT GARY, LAKE COUNTY, AT OGDEN DUNES
ME1046'STOP ON THE CHICAGO, SOUTH SHORE AND SOUTH BEND (ELECTRIC)
ME1046'RAILROAD, ABOUT 6 RAILS EAST OF N.Y.C.R.R. MILEPOST C 34,
ME1046'AT THE CROSSING OF A TAR ROAD LEADING TO OGDEN DUNES, 39 FEET
NORTH

ME1046'OF THE NORTH RAIL OF THE N.Y.C.R.R., 36 FEET EAST OF THE CENTER
ME1046'LINE OF THE ROAD, AND ABOUT LEVEL WITH THE TRACK. A BRONZE DISK,
ME1046'STAMPED B 19 1934 RESET 1946 AND SET IN THE TOP OF A CONCRETE
ME1046'POST PROJECTING ABOUT 4 INCHES ABOVE GROUND. NOTE-- 7.2 FEET
ME1046'EAST OF POLE 312/664.

ME1046

ME1046 STATION RECOVERY (1955)

ME1046

ME1046'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1955

ME1046'RECOVERED IN GOOD CONDITION.

ME1046

ME1046 STATION RECOVERY (1983)

ME1046

ME1046'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1983

ME1046'42' EAST OF CENTERLINE OF OGDEN DUNES RD. 39.9' NORTH OF NORTH RAIL

ME1046'OF NYC RR- 4.3' NORTHEAST OF POWER POLE- 7.6' SOUTHEAST OF
SOUTHEAST

ME1046'CORNER OF PHONE BOOTH-

ME1046

ME1046 STATION RECOVERY (1985)

ME1046

ME1046'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1985

ME1046'RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 13.0 KM
ME1046'(8.05 MI) EASTERLY ALONG U.S. HIGHWAY 12 FEOM ITS JUNCTION WITH
STATE

ME1046'HIGHWAY 53 (BROADWAY STREET) IN GARY, 57.0 M (187.0 FT) NORTH OF
THE

ME1046'CENTERLINE OF THE HIGHWAY, 13.0 M (42.7 FT) EAST OF THE CENTER OF A
ME1046'ROAD LEADING NORTH TO THE OGDEN COMMUNITY CHURCH, 11.9 M (39.0
FT)

ME1046'NORTH OF THE NEAR RAIL OF THE CONRAIL RAILROAD, 2.3 M (7.5 FT)

ME1046'SOUTHEAST OF A UTILITY POLE WITH A METER, AND 1.3 M (4.3 FT) NORTH
OF

ME1046'A UTILITY POLE.

ME1046'THE MARK IS 0.3 METERS S FROM A WITNESS POST

ME1046'THE MARK IS ABOVE LEVEL WITH THE ROAD.

IFC&WRC BM POR 8

In Porter County, Ogden Dunes Quad., in the NW ¼ of Sec. 25, T. 37 N., R. 7 W., 2nd PM.; 0.4 mile east of Ogden Dunes, at the Gary Boat Club Building, 100 feet west of the west edge of the Portage Burns Waterway, at Lake Michigan; set vertically in the west side of the building, 2.8 feet above the sidewalk, immediately south of the stairs of the second floor entrance to the building; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 8 1955".

Not Found

590.640 feet NGVD 1929

IFC&WRC TBM BD 10

In Porter County, Ogden Dunes Quad., in the NE ¼ of Sec. 25, T. 37 N., R. 7 W., 2nd PM.; 1.0 mile east of Ogden Dunes, 0.3 mile east of the Portage Burns Waterway, 0.1 mile south of Lake Michigan, about 3.4 miles east along U.S. Highway 12 from the Lake-Porter County Line, thence north along a road leading to Lake Michigan, at the end of the road, 25 feet west of the centerline of the road, in the west side of an 11-inch tree, in tree nearest Lake Michigan in line with a fence on the west side of the road, 1.0 foot above the ground; a railroad spike.

586.481 feet NGVD 1929

USC&GS BM U 148, 1946

In Porter County, Portage Quad., in the NW ¼ of Sec. 35, T. 37 N., R. 7 W., 2nd PM.; about 0.6 mile southwest of Ogden Dunes; 0.6 mile west along the Conrail (New York Central) Railroad from the crossing of an asphalt road (Stagecoach Road) leading to the Ogden Community Church, at semaphore number 506/1; set in the top of the northwest corner of the concrete base of the semaphore, 9 feet north of the north rail of the north track, 1.2 feet above the ground, 1.2 feet above the ground, 0.9 foot below the top of the rail; a US Coast and Geodetic Survey bronze disk, stamped "U 148 1946".

~~610.714~~ feet NGVD 1929

NGS Reports this mark as destroyed.

USC&GS BM S 148, 1946

In Porter County, Portage Quad., in the SW ¼ of Sec. 1, T. 36 N., R. 7 W., 2nd PM.; about 2.7 miles northeast of Lake Station; at the intersection of Crisman Road and U.S. 20, in the southwest quarter of the intersection; set in the top of a concrete post, about 60 yards southwest of the southwest corner of Soule's Restaurant, 47 feet south of the

south edge of the U.S. 20 pavement, 29 feet west of the centerline of Crisman Road, 14 feet northwest of a 40-inch Oak tree, about 2.5 feet above the road, projecting about 0.2 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "S 148 1946".

~~634.877~~ feet NGVD 1929

NGS Reports this mark as destroyed.

USC&GS BM T 148, 1946

In Porter County, Portage Quad., in the SW $\frac{1}{4}$ of Sec. 36, T. 37 N., R. 7 W., 2nd PM.; about 3.3 miles northeast of Lake Station; at the Crisman Road wooden-deck steel truss bridge over the Little Calumet River; set in the top of the southeast wingwall, 12 feet east of the centerline of the road, about level with the road; a US Coast and Geodetic Survey bronze disk, stamped "T 148 1946".

~~601.236~~ feet NGVD 1929 *NGS Reports this mark as destroyed.*

IFC&WRC TBM SC 1

In Porter County, Portage Quad., in the SW $\frac{1}{4}$ of Sec. 36, T. 37 N., R. 7 W., 2nd PM.; about 3.3 miles northeast of Lake Station; at the Crisman Road wooden-deck steel truss bridge over the Little Calumet River; set on the top of the northwest wingwall, 16 feet west of the centerline of the road, 11 feet southeast of the northwest end of the wingwall, 4 feet north of the north end of the bridge; a chiseled square.

601.225 feet NGVD 1929

IFC&WRC TBM SC 2

In Porter County, Portage Quad., in the SW $\frac{1}{4}$ of Sec. 31, T. 37 N., R. 6 W., 2nd PM.; about 2.0 miles northeast of Portage; at the Samuelson Road wooden-deck steel girder bridge over Little Calumet River; set on the top of the northwest concrete filled steel tubular pier, 25 feet south of the north end of the bridge, 12 feet west of the centerline of the road, 2.1 feet below the road; a chiseled square.

598.632 feet NGVD 1929

IFC&WRC TBM SC 3

In Porter County, Portage Quad., in the SE $\frac{1}{4}$ of Sec. 31, T. 37 N., R. 6 W., 2nd PM.; about 2.0 miles northeast of Portage; at the Samuelson Road wooden-deck steel bridge over the Little Calumet River; set on the top of the northeast concrete filled steel tubular pier, 25 feet south of the north end of the bridge, 11 feet east of the centerline of the road, 2.0 feet below the road; a chiseled square.

598.565 feet NGVD 1929

IFC&WRC TBM SC 4

In Porter County, Portage Quad., in the SW ¼ of Sec. 31, T. 37 N., R. 6 W., 2nd PM.; about 2.0 miles northeast of Portage; at the Samuelson Road wooden-deck steel girder bridge over the Little Calumet River; set on the top of the southwest concrete filled steel tubular pier, 25 feet north of the south end of the bridge, 11 feet west of the centerline of the road, 2.0 feet below the road; a chiseled square.

598.459 feet NGVD 1929

IFC&WRC BM POR 9, 1955

In Porter County, Portage Quad., in the SE ¼ of Sec. 31, T. 37 N., R. 6 W., 2nd PM.; about 2.0 miles northeast of Portage; at the Samuelson Road wooden-deck steel girder bridge over the Little Calumet River; set in the top of the southeast concrete filled steel tubular pier, 24 feet north of the south end of the bridge, 11 feet east of the centerline of the road, 2.3 feet below the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 9 1955".

598.299 feet NGVD 1929

IFC&WRC BM POR 13, 1955

In Porter County, Portage Quad., in the SW ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 2.4 miles northeast of Portage; about 4.2 miles east along U.S. Highway 12 from the Lake-Porter County Line, thence 0.3 mile south to the end of a road, 0.2 mile north of the Little Calumet River; set in the top of a concrete post, 40 feet north of a drive into a residence, 13 feet east of the centerline of the road leading south, 2.5 feet northwest of a power pole, projecting 0.2 foot above the ground; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 13 1955".

615.613 feet NGVD 1929

USGS BM TT 13 WO 1934

In Porter County, Portage Quad., in the NE ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 3.2 miles northeast of Portage; about 5.2 miles east along U.S. Highway 12 from the Lake-Porter County Line; about 2.8 miles west along the Conrail (New York Central)

Railroad from the station at Porter, 0.09 mile southwest of the overhead crossing of the Conrail (New York Central) Railroad over U.S. Highway 12, about 135 feet south of the Chicago, South Shore and South Bend Railroad Bridge over an abandoned road, about 19 yards northeast of a concrete monument marking the Dunes Highway, in the southwest quarter of the intersection of the north-south road and U.S. Highway 12; set in the top of a concrete post, about 36 feet southwest of the centerline of the north-south road, about 25 feet southeast of the highway, projecting 0.3 foot above the ground; a U.S. Geological Survey bronze disk, stamped "TT 13 WO 1934 635".

Not Found

634.717 feet NGVD 1929

USGS RM 635.6

In Porter County, Portage Quad., in the NE ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 3.2 miles northeast of Portage; about 5.2 miles east along U.S. Highway 12 from the Lake-Porter County Line, about 2.8 miles west along the Conrail (New York Central) Railroad from the station at Porter, 0.07 mile southwest of the overhead crossing of the Conrail (New York Central) Railroad over U.S. 12, at a highway culvert; set on the top of the southeast concrete headwall, about 55 feet northeast of the U.S. Geological Survey bench mark TT 13 WO 1934, about 20 feet southeast of the centerline of the highway, 0.3 foot southwest of the northeast end of the headwall; a chiseled square.

635.235 feet NGVD 1929

USC&GS BM OGDEN 1952

In Porter County, Portage Quad., in the NE ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 3.1 miles northeast of Portage; about 5.1 miles east along U.S. 12 from the Lake-Porter County Line, about 2.8 miles west along the Conrail (New York Central) Railroad from the station at Porter, about 0.17 mile southwest of the Conrail (New York Central) Railroad overhead crossing over U.S. 12; about 105 yards southwest of the centerline of a road leading south, about 220 feet southwest of a concrete monument marking the Dunes Highway, about 20 feet southeast of centerline of the highway, 1.8 feet southwest of utility pole number L 3-160; a US Coast and Geodetic Survey triangulation station azimuth mark, stamped "OGDEN 1952".

DESTROYED

~~633.908~~ feet NGVD 1929

IFC&WRC BM POR 14

In Porter County, Portage Quad., in the NE ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 3.1 miles northeast of Portage; about 5.2 miles east along U.S. Highway 12 from the Lake-Porter County Line, thence 0.25 mile south to the north most of two bridges, to a single span steel truss bridge over the Little Calumet River; set in the top of the west end of the south bridge seat, 12 feet west of the centerline of the road, 1.5 feet north of the south end of the bridge, 1.0 foot below the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 14 1955".

DESTROYED

~~607.807~~ feet NGVD 1929

IFC&WRC TBM LCR 38

In Porter County, Portage Quad., in the NE ¼ of Sec. 32, T. 37 N., R. 6 W., 2nd PM.; about 3.1 miles northeast of Portage; about 5.2 miles east along U.S. 12 from the Lake-Porter County Line, thence 0.3 mile south to the south most of two bridges, to a single span steel truss bridge; set on the top of the southwest wingwall, 12 feet west of the centerline of the road, 9 feet south of the south end of the bridge, 1.0 foot below the road; a chiseled cross.

DESTROYED

~~605.561~~ feet NGVD 1929

IFC&WRC BM POR 15, 1955

In Porter County, Chesterton Quad., in the NW ¼ of Sec. 33, T. 37 N., R. 6 W., 2nd PM.; 2.0 miles west-northwest of Chesterton; 0.4 mile southeast along the Conrail (New York Central) Railroad from its overpass over old U.S. 12, at the Conrail railroad bridge over the Little Calumet River; set in the top of the southeast bridge seat, 5.5 feet south of the south rail of the tracks, 3.5 feet below the top of the rail, 0.2 foot west of the west face of the east abutment of the bridge; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 15 1955".

630.378 feet NGVD 1929

IFC&WRC TBM LCR 39

In Porter County, Chesterton Quad., in the NW ¼ of Sec. 33, T. 37 N., R. 6 W., 2nd PM.; 2.0 miles west-northwest of Chesterton; 0.4 mile southeast along the Conrail (New York Central) Railroad from its overpass over old U.S. 12, at the Conrail railroad bridge over the Little Calumet River; set at the northeast corner of the west bridge seat, 7 feet north of the north rail of the tracks, 3.4 feet below the top of the rail, 1.6 feet east of west end of the bridge; a chiseled square.

630.497 feet NGVD 1929

IFC&WRC TBM LCR 40

In Porter County, Chesterton Quad., in the NW ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 1.5 miles west-northwest of Chesterton; 1.5 miles west along an east-west road (1275 North Road) from the Yost School at Porter, thence 0.15 mile north, 0.2 mile south of the Little Calumet River; set in the west side of a 30-inch tree, 47 feet east of the centerline of the road, 0.3 foot above the ground; a railroad spike.

637.322 feet NGVD 1929

IFC&WRC BM POR 16, 1955

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 1.0 mile northwest of Chesterton; about 0.8 mile west along an east-west road (1275 North Road) from the Yost School at Porter, thence 0.25 mile northeast along U.S. 20 to a crossroad, thence 0.35 mile generally northwest to a steel deck-girder bridge over the Little Calumet River; set in the top of the end of the southwest abutment, 13 feet southwest of the centerline of the road, 0.4 foot northwest of the southeast end of the bridge; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 16 1955".

613.725 feet NGVD 1929

IFC&WRC BM POR 17, 1955

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 0.6 mile northwest of Chesterton; at the U.S. 20 Bridge over the Little Calumet River; set in the top of the northeast abutment, 25 feet southeast of the centerline of the highway, 1.0 foot southwest of the northeast end of the bridge, level with the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 17 1955".

621.443 feet NGVD 1929

USGS RM 1 PORTER

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 0.6 mile northwest of Chesterton; 0.05 mile east of the U.S. 20 bridge over the Little Calumet River, about 0.5 mile west along an east-west road (1275 North Road) from the Yost School at Porter, thence 0.35 mile north to the U.S. Geological Survey stream gaging station, at the steel truss bridge over the Little Calumet River; set on the top of the southwest wingwall, 10 feet west of the centerline of the road, 0.8 foot below the road, 0.6 foot south of the face of the south abutment; a chiseled square.
616.506 feet NGVD 1929

USGS RM 2 PORTER

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 0.6 mile northwest of Chesterton; 0.05 mile east of the U.S. 20 bridge over the Little Calumet River, about 0.5 mile west along an east-west road (1275 North Road) from the Yost School at Porter, thence 0.35 mile north to the U.S. Geological Survey stream gaging station, at the steel truss bridge over the Little Calumet River; set on the top of the northwest wingwall, 10 feet west of the centerline of the road, 0.6 foot north of the face of the north abutment, 0.4 foot below the road; a chiseled square.
616.742 feet NGVD 1929

USGS RP Porter

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 34, T. 37 N., R. 6 W., 2nd PM.; 0.6 mile northwest of Chesterton; 0.05 mile east of the U.S. 20 bridge over the Little Calumet River, about 0.5 mile west along an east-west road (1275 North Road) from the Yost School at Porter, thence 0.35 mile north to the U.S. Geological Survey stream gaging station, at the steel truss bridge over the Little Calumet River; set in the west edge of the west guardrail, 20 feet south of the north end of the bridge, 9 feet west of the centerline of the road, 5 feet above the bridge floor; a chiseled "V".
622.009 feet NGVD 1929

IFC&WRC BM POR 18

In Porter County, Chesterton Quad., in the SE ¼ of Sec. 26, T. 37 N., R. 6 W., 2nd PM.; about 0.5 mile north of Chesterton; about 0.4 mile north from the Yost School at Porter, at a steel girder bridge over the Little Calumet River; set in the top of the east end of the north abutment, 20 feet east of the centerline of the road, 1.0 foot north of the face of the north abutment, 1.0 foot below the sidewalk; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 18 1955".
615.676 feet NGVD 1929

USC&GS BM Y 18, 1934

In Porter County, Chesterton Quad., in the SE ¼ of Sec. 35, T. 37 N., R. 6 W., 2nd PM.; at Porter; about 0.4 mile west of the Pere Marquette Railway office and station, about 0.1 mile southwest of the New York Central Railroad Station, in the angle of the crossing of two Conrail (New York Central) Railroads; set in the top of a concrete post, about 45 feet southeast of the southeast rail of the southwest-northeast Conrail (New York Central) Railroad about 25 feet north of the north rail of the north track of the Conrail (New York Central) Railroad and the Pere Marquette Railway, 39 feet southeast of utility pole number 30 M, projecting 0.1 foot above the ground; a US Coast and Geodetic Survey bronze disk stamped "Y 18 1934".

644.251 feet NGVD 1929

Reported Destroyed by NGS

USC&GS BM X 18, 1934

In Porter County, Chesterton Quad., in the SE ¼ of Sec. 35, T. 37 N., R. 6 W., 2nd PM.; at Porter; about 0.4 mile west of the Pere Marquette Railway office and station, about 0.1 mile south-southwest of the Conrail (New York Central) Railroad station, at the crossing of a north-south street between Porter and Chesterton, in the east angle of the junction of the Pere Marquette Railway and the Conrail (New York Central) Railroad; set in the top of a concrete post, about 30 feet east of the centerline of the street, about 12 feet south of the south rail of the Pere Marquette Railway, about 5 feet north of the north rail of the north track of the Conrail (New York Central) Railroad, 1.0 foot west of a white wooden witness post, projecting 0.1 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "X 18 1934".

643.493 feet NGVD 1929

Reported Destroyed by NGS

IFC&WRC TBM SC 5

In Porter County, Portage Quad., in the NE ¼ of Sec. 6, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; 0.3 mile north along Samuelson Road from its intersection with U.S. 20 to a farm entrance; set in the west side of four-pronged Locust tree, 43 feet south of the centerline of the farm road, 14 feet east of the centerline of Samuelson Road, about 1.0 foot above the ground; a railroad spike.

636.499 feet NGVD 1929

IFC&WRC BM POR 10, 1955

In Porter County, Portage Quad., in the SE ¼ of Sec. 6, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; at the U.S. 20 single-span concrete arch bridge over Salt Creek; set in the top of the southwest wingwall, 25 feet south of the centerline of the highway, 0.7 foot east of the west end of the bridge; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 10 1955".

617.644 feet NGVD 1929

USGS R.M. 1 McCOOL

In Porter County, Portage Quad., in the SE ¼ of Sec. 6, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; at the Porter Road concrete-deck steel girder bridge over Salt Creek; set on the top of the north steel girder, on the top of the north end of the west abutment, at a U.S. Geological Survey stream gaging station, 10 feet north of the centerline of the road, 0.5 foot below the road, 0.2 foot west of the west end of the north steel girder; a chiseled "V".

609.681 feet NGVD 1929

USGS R.M. 2 McCOOL

In Porter County, Portage Quad., in the SW ¼ of Sec. 5, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; at the Porter Road concrete-deck steel girder bridge over Salt Creek; set on the top of the abutment, at the U.S. Geological Survey stream gaging station, 11 feet south of the centerline of the road, 0.2 foot east of the east end of the south steel girder, 0.5 foot below the road; a chiseled square.

609.643 feet NGVD 1929

USGS RP McCOOL

In Porter County, Portage Quad., in the SE ¼ of Sec. 6, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; at the Porter Road concrete-deck steel girder bridge over Salt Creek; set on the top of the south steel girder, at the U.S. Geological Survey stream gaging station, 34 feet east of the west end of the south steel girder, 10 feet south of the centerline of the road, 2.2 feet above the road at the south edge of the south steel girder; a chiseled "V".

612.436 feet NGVD 1929

IFC&WRC BM POR 11, 1955

In Porter County, Portage Quad., in the SE ¼ of Sec. 6, T. 36 N., R. 6 W., 2nd PM.; about 1.4 miles northeast of Portage; at the Conrail (New York Central) Railroad Bridge over Salt Creek; set in the top of the northwest wingwall, 24 feet south of the centerline of Porter Road, 1.6 feet east of the west end of the northwest wingwall, 1.5 feet above the road, 0.7 foot south of the north edge of the wingwall; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 11 1955".
612.520 feet NGVD 1929

IFC&WRC TBM SC 6

In Porter County, Portage Quad., in the NE ¼ of Sec. 7, T. 36 N., R. 6 W., 2nd PM.; about 1.0 mile northeast of Portage; 1.4 miles east along Portage Avenue from Crisman, at a bridge over a small stream; set in the south side of the southwest prong of a triple-pronged Box Elder tree, 20 feet east of the middle of the bridge, 17 feet north of the centerline of the road, 1.2 feet above ground; a railroad spike.
612.545 feet NGVD 1929

USC&GS BM R 148, 1946

In Porter County, Portage Quad., in the NW ¼ of Sec. 12, T. 36 N., R. 7 W., 2nd PM.; at Crisman; at the "T" road intersection of Crisman Road and Portage Avenue, at the Portage Township High School; set vertically in the east wall of the building, 16 feet north of the southeast corner, 2.1 feet above ground; a US Coast and Geodetic Survey bronze disk, stamped "R 148 1946".

NGS Reports Good Condition in 1985

650.806 feet NGVD 1929

650.51 feet NAVD 1988

IFC&WRC TBM SC 7

In Porter County, Portage Quad., in the NW ¼ of Sec. 8, T. 36 N., R. 6 W., 2nd PM.; about 1.5 miles northeast of Portage; about 0.6 mile east and north along Lenburg Road from its "T" road intersection with 400 West Road, at a right angle turn in the road; set in the southwest side of an 18-inch Ash tree, 34 feet east of the extended centerline of the road leading south, 8 feet north of the extended centerline of the road leading east, 1.0 foot above the ground; a railroad spike.
638.305 feet NGVD 1929

IFC&WRC BM POR 12, 1955

In Porter County, Portage Quad., in the SW ¼ of Sec. 8, T. 36 N., R. 6 W., 2nd PM.; about 1.5 miles northeast of Portage; at the Lenburg Road steel truss bridge over Salt Creek; set in the top of the east abutment, 8.4 feet south of the centerline of the road, 1.2 feet below the road, 1.0 foot east of the west face of the east abutment; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "POR 12 1955".

Reported Destroyed Aug. 7, 1968
609.393 feet NGVD 1929

IFC&WRC TBM KK 43, 1955

In Porter County, DeMotte Quad., in the NW ¼ of Sec. 10, T. 32 N., R. 7 W., 2nd PM.; about 2.5 miles north of DeMotte; near the Lake-Porter County Line, along the right bank of the Kankakee River, at river mile 76.99, 3.47 miles upstream from the Newton-Jasper County Line Road Bridge over the Kankakee River, 1.53 miles downstream from the State Road 53 (U.S. 231) bridge over the Kankakee River; set in the streamward side of a blazed 24-inch Maple tree, at the downstream end of a 300-foot open section of levee along the right bank, 20 feet downstream of a 24-inch Elm tree blazed on the streamward side at the landward edge of the right levee, 14 feet landward of the centerline of the levee, 1.5 feet above the top of the levee; a railroad spike driven through a brass plate, stamped "TBM KK 43 1955".

652.748 feet NGVD 1929

IFC&WRC TBM KK 44, 1955

In Porter County, DeMotte Quad., in the SW ¼ of Sec. 3, T. 32 N., R. 7 W., 2nd PM.; about 2.8 miles north of DeMotte; along the right bank of the Kankakee River, at river mile 77.36, 3.84 miles upstream from the Newton-Jasper County Line Road Bridge over the Kankakee, 1.16 miles downstream from the State Road 53 (U.S. 231) Bridge over the Kankakee River; set in the landward side of a 14-inch scrub Cottonwood tree, in one of two tees on the streamward side of a 240-foot open section of levee along the right bank of the river, directly streamward of a multi-pronged Maple tree on the landward side of the levee, 6 feet streamward of and 2 feet above the crown of the levee; a railroad spike driven through a brass plate, stamped "TBM KK 44 1955".

654.357 feet NGVD 1929

IFC&WRC TBM KK 45, 1955

In Porter County, Hebron Quad., in the NE $\frac{1}{4}$ of Sec. 3, T. 32 N., R. 7 W., 2nd PM.; about 4.0 miles south of Hebron; along the right bank of the Kankakee River, at the river mile 77.93, 4.41 miles upstream from the Newton-Jasper County Line Road Bridge over the Kankakee River, 0.59 mile downstream from the State Road 53 (U.S. 231) Bridge over the Kankakee River; set in the streamward side of the 10-inch trunk of 4 small Birch trees in one clump, 40 feet upstream of two 6 inch Sycamore trees at the landward edge of the top of the right spoil bank, 10 feet landward of and level with the crown of the levee; a railroad spike driven through a brass plate, stamped "TBM 45 1955".

650.900 feet NGVD 1929

INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER
PORTER COUNTY

DNR TBM EL 1, 1979

In Porter County, Palmer Quad., in the NW $\frac{1}{4}$ of Section 18, T. 34 N., R. 6W., 2nd PM.; approximately 1.8 miles southeast of Lake Eliza; at the 500 West Road bridge over Wolf Creek; set in the top of the southeast end of the bridge floor, 11.8 feet east of the centerline of the road, 0.6 foot north of the south end of the bridge, 0.5 foot west of the east face of the bridge, 0.2 foot below the road; a chiseled triangle.

727.643 feet N.G.V.D. 1929

221.7860 meters N.G.V.D. 1929

DNR TBM EL 2, 1979

In Porter County, Palmer Quad., in the SW $\frac{1}{4}$ of Section 7, T. 34 N., R. 6W., 2nd PM.; approximately 1.6 miles southeast of Lake Eliza; approximately 0.25 mile north along 500 West Road from the 500 West Road bridge over Wolf Creek, at a 5.0 foot steel pipe culvert under the road; set in the top of the east end of the culvert, 22.7 feet east of the centerline of the road, 1.0 foot below the road, 0.05 foot west of the east end of the culvert; the center of two filed notches.

731.011 feet N.G.V.D. 1929

222.8126 meters N.G.V.D. 1929

DNR TBM 060701-1

In Porter County, Portage Quad., in the SW $\frac{1}{4}$ of Sec. 3, T. 36 N., R. 7 W., 2nd PM.; about 1.3 miles northeast of Lake Station; in the southwest corner of the railroad bridge over Burns Ditch, near US 20; set in the top of the concrete wingwall, 6.0 feet south of the south most rail, 1.0 foot west of the east face of the concrete wingwall, 1.3 feet south of a wood restriction; a chiseled triangle.

611.869 feet NGVD 1929

GPS ELEVATION

USC&GS STATION POLA 1952

In Porter County, Michigan City West Quad., in the SE ¼ of Section 36, T.38 N., R. 5 W., 2nd PM.; about 0.5 mile southwest of the prison at Michigan City; south along the LaPorte - Porter County Line road to the intersection of U.S. 12 and Woodlawn Avenue, in the triangular grass lot; set in a concrete post, 66.3 feet west of the centerline of U.S. 12., 51.8 feet north of the centerline of Woodlawn Avenue, 32.8 feet west of the centerline of County Line Road, about level with the ground; a US Coast and Geodetic Survey bronze triangulation station tablet, stamped "POLA 1952 619.14".
619.101 feet NGVD 1929

USC&GS BM S 18, 1934

In Porter County, Michigan City West Quad., in the SE ¼ of Section 1, T. 37 N., R. 5 W., 2nd PM.; about 1.0 mile southwest of Michigan City; at the intersection of the LaPorte - Porter County Line Road and the Chesapeake and Ohio railroad tracks, in the southwest quadrant of the intersection; set in the top of a concrete post, 52.5 feet south of the south rail of the tracks, 38.4 feet west of the centerline of County Line Road, 14.8 feet east of a telephone pole, 0.5 foot above the ground; a US Coast and Geodetic Survey bench mark tablet stamped "S 18 1934".
630.474 feet NGVD 1929

COE BM RED LANTERN 1974

In Porter County, Michigan City West Quad., in the NE ¼ of Section 4, T. 37 N., R. 5 W., 2nd PM.; at Beverly Shores; about 0.95 miles northeast along Lake Front Drive from its intersection with 300 East Road to its "T" intersection with Broadway Street, at the northeast corner of a public parking lot; set in a concrete headwall, 66.7 feet north of the centerline of Lake Front Drive, 13.2 feet southeast of power pole #238-978, 1.0 foot south of the north concrete headwall; a U.S. Corp of Engineers bronze bench mark tablet, stamped " Corps BM RED LANTERN 1974 ELEVATION 26.28 LWD".
604.395 feet NGVD 1929

DNR BM POR 51, 1988

In Porter County, Michigan City West Quad., in the NW ¼ of Section 36, T. 38 N., R. 5 W., 2nd PM.; about 1.5 miles west of the State Prison at Michigan City; about 0.75 miles southwest along Beverly Drive from the LaPorte - Porter County line to the intersection of

Central Avenue, thence 0.33 miles northwest along Central Avenue to a undeveloped lot on the curve of the road; set in the top of a concrete post, 67.6 feet southeast of powerpole #231/346, 11.7 feet southeast of the centerline of Central Avenue, flush with the ground and marked with a orange fiberglass witness post; a Indiana Department of Natural Resources bronze benchmark tablet, stamped "POR 51 1988".

617.660 feet NGVD 1929

DNR BM POR 54, 1988

In Porter County, Michigan City West Quad., in the NE ¼ of Section 35, T. 38 N., R. 5 W., 2nd PM.; about 1.8 miles west of the State Prison at Michigan City; about 2.0 miles southwest along Beverly Drive from the LaPorte - Porter County line to the intersection of Montana Street, thence 0.6 miles northwest along said street to the intersection of Lake Front Drive, thence 0.3 miles northeast along Lake Front Drive to where the road ends; set in a concrete post, 37.8 feet northeast of powerpole #952/371, 13.1 feet south of the centerline of Lake Front Drive, 4.1 feet southwest of a iron gate post, flush with the ground and marked with a orange fiberglass witness post; a Department of Natural Resources bronze bench mark tablet, stamped "POR 54 1988".

597.552 feet NGVD 1929

DNR BM POR 55, 1988

In Porter County, Michigan City West Quad., in the SW ¼ of Section 35, T. 38 N., R. 5 W., 2nd PM.; about 2.0 miles southwest along Beverly Drive from the LaPorte - Porter County line, to the intersection of Montana Street; set in the southwest quadrant of the intersection, 27.5 feet southeast of powerpole #218 096, 23.5 feet southwest of the centerline of Montana Street, 18.8 feet south of Lake Front drive, set flush with the ground in a concrete post, a Department of Natural Resources bronze bench mark tablet stamped "POR 55 1988".

594.108 feet NGVD 1929

DNR BM POR 56, 1988

In Porter County, Michigan City West Quad, NE / section 3, T.37N., R.5W., About 1.9 miles northwest along Lake Front drive from the intersection of 300 E. Road to the intersection of Merrivale Street, in the southeast quadrant of the intersection 72.2 feet northeast of powerpole #237 219, 47.8 feet NE of the centerline of Merrivale St., 14.7 feet south of the centerline of Lake Front Drive, set flush with the ground in a concrete post, a DNR Disk stamped "POR 57 1988".

610.407 feet NGVD 1929

DNR BM POR 57, 1988

In Porter County, Michigan City West Quad, NE / section 4, T.37N., R.5W., about 0.95 miles northeast along Lake Front Drive from the intersection of 300 East Road, to the intersection of Broadway St., set in the southeast quadrant of the intersection, 54.4 feet northeast of the centerline of Broadway Street, 20.7 feet south of the centerline of Lake Front Drive, 4.3 feet southwest of power pole # 234 880 , set flush with the ground in a concrete post, a Department of Natural Resources bronze bench mark tablet "POR 57 1988".

605.149 feet NGVD 1929

DNR TBM PLM 01, 1988

In Porter County, Michigan City West Quad, SW / section 36,T.38N., R.5W. About 0.75 miles southwest of the LaPorte - Porter County Line, at the intersection of Beverly Drive and Central Avenue, set on the northeast quadrant of the intersection set in the northeast side of power pole #951 069, 33.8 feet southwest of power pole #234 985, 26.7 feet east of the centerline of Central Avenue, 20.2 feet northeast of the centerline of Beverly Drive, 1.5 feet above the ground, a railroad spike.

601.537 feet NGVD 1929

DNR TBM PLM 02, 1988

In Porter County, Michigan City West Quad, N / section 2, T.37N., R.5W., about 2 miles southwest along Beverly Drive from the LaPorte-Porter County line, at the intersection of said street and Montana Street in the northwest quadrant of the intersection, set in the north side of power pole # 957 441, 36.8 feet southwest of the centerline of Montana Street, 33.0 feet southwest of a telephone junction box # 96, 17.7 feet northeast of the centerline of Beverly Drive, 1 foot above the ground, a railroad spike.

607.075 feet NGVD 1929

NGS BM U 349, 1985

In Porter County, Dune Acres Quadrangle, Northeast / Section 17, T.37N., R.5W., along U.S. highway 12 to the intersection of 300 East Road, set in the southwest quadrant of the intersection, 151.6 feet west of the centerline of 300 east road, 34.1 feet south of the centerline of U.S. 12, 3.9 feet east of powerpole #228-859, a chrome steel pin encased in iron pipe with access lid stamped: "U 349 1985".

620.687 feet NGVD 1929

DNR BM POR 58, 1988

In Porter County, Dune Acres Quadrangle, Southwest section 4, T.37N., R.5W., along Lake Front Drive to its intersection of 300 east road, set in the southeast quadrant of the intersection, 72.0 feet northeast of the extended centerline 300 east road, 14.2 feet south of the centerline of Lake Front Drive, 12.6 feet northeast of powerpole #234-904, flush with the ground set in a concrete post; a Indiana Department of Natural Resources bronze benchmark tablet stamped "POR 58 1988".

602.488 feet NGVD 1929

DNR BM POR 19, 1987

In Porter County, Chesterton Quad., in the NW ¼ of Sec. 21, T. 36 N., R. 6 W., 2nd PM.; about 3.5 miles southwest of Chesterton; at the 875 North Road bridge over salt Creek; set in the top of the southwest wingwall, about 0.6 foot above the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 19 1987".

628.134 feet NGVD 1929

191.4556 meters NGVD 1929

DNR BM POR 20, 1987

In Porter County, Chesterton Quad., in the NW ¼ of Sec. 33, T. 36 N., R. 6 W., 2nd PM.; about 3.0 miles northwest of Valparaiso; at the 700 North Road bridge over salt Creek; set in the top of the southeast wingwall, about 1.8 feet below the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 20 1987".

623.438 feet NGVD 1929

190.0243 meters NGVD 1929

DNR BM POR 21, 1987

In Porter County, Portage Quad., in the NE ¼ of Sec. 5, T. 35 N., R. 6 W., 2nd PM.; about 1.0 mile south of South Haven; at the 600 North Road bridge over salt Creek; set in the top of the southwest wingwall, about 0.3 foot above the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 21 1987".

638.852 feet NGVD 1929

194.7225 meters NGVD 1929

DNR BM POR 23, 1987

In Porter County, Palmer Quad., in the NW ¼ of Sec. 17, T. 35 N., R. 6 W., 2nd PM.; about 4.0 miles northeast of Lake Eliza; at the 400 North Road bridge over salt Creek; set in the top of the southeast wingwall, about 1.5 feet below the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 23 1987".

644.905 feet NGVD 1929

196.5674 meters NGVD 1929

DNR BM POR 24, 1987

In Porter County, Valparaiso Quad., in the SW ¼ of Sec. 9, T. 35 N., R. 6 W., 2nd PM.; about 2.0 miles northwest of Valparaiso; at the "T" intersection of State Road 130 and State Road 149; set in the top of the concrete base of a traffic light string pole, 43.9 feet north of a 4 inch by 4 inch "RAILROAD CROSSING" sign post, 35.5 feet southwest of the centerline of State Road 130, 29.5 feet east of the extended centerline of State Road 149, 24.8 feet west of the northwest end of a guardrail; a Indiana Department of Natural Resources control station tablet, stamped "POR 24 1987".

690.592 feet NGVD 1929

210.4929 meters NGVD 1929

DNR BM POR 25, 1987

In Porter County, Valparaiso Quad., in the SE ¼ of Sec. 16, T. 35 N., R. 6 W., 2nd PM.; about 1.5 miles west of Valparaiso; at the 250 West Road bridge over salt Creek; set in the top of the southeast wingwall, about 1.3 feet below the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 25 1987".

665.355 feet NGVD 1929

202.8006 meters NGVD 1929

DNR BM POR 26, 1987

In Porter County, Valparaiso Quad., in the SW ¼ of Sec. 9, T. 35 N., R. 6 W., 2nd PM.; at Valparaiso; at the intersection of State Road 130 (Lincolnway), Joliet Road, and Center Street; set in the top of the concrete base of a traffic light string pole on the north side of State Road 130 (Lincolnway), 35.4 feet west of a G.T.E. manhole west of the centerline of Center Street; a Indiana Department of Natural Resources control station tablet, stamped "POR 26 1987".

750.087 feet NGVD 1929

228.6270 meters NGVD 1929

DNR BM POR 27, 1987

In Porter County, Valparaiso Quad., in the SE ¼ of Sec. 26, T. 35 N., R. 6 W., 2nd PM.; about 1.0 mile southwest of Valparaiso; at the State Road 2 bridge over Salt Creek; set in the top of the northwest concrete curb, 2.9 feet northeast of the southwest end of the curb, about 0.6 foot above the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 27 1987".

695.294 feet NGVD 1929

211.9260 meters NGVD 1929

DNR BM POR 161, 1987

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 32, T. 36 N., R. 6 W., 2nd PM.; about 3.0 miles northwest of Valparaiso; at the State Road 149 bridge over salt Creek; top of the northwest wingwall, about 0.2 foot above the road; a Indiana Department of Natural Resources control station tablet, stamped "POR 161 1987".

629.172 feet NGVD 1929

191.7720 meters NGVD 1929

DNR BM SALT 1, 1987

In Porter County, Chesterton Quad., in the SW ¼ of Sec. 16, T. 36 N., R. 6 W., 2nd PM.; about 3.2 miles southwest of Chesterton; about 0.5 mile south along State Road 149 from its overpass of I 80/90 to its intersection with Dalke Road, in the northeast ¼ of the intersection; set in the top of a concrete post, 70.3 feet northeast of and across State Road 149 from a telephone pole, 44.0 feet south of the east most post of a "NO PASSING ZONE" sign, 36.5 feet north of the centerline of Dalke Road, 33.7 feet west-northwest of the north angle point on top of a concrete culvert headwall, 23.8 feet east of the centerline of State Road 149, 4.0 feet northwest of powerpole #1/004/514; a Indiana Department of Natural Resources control station tablet, stamped "SALT 1 1987".

636.047 feet NGVD 1929

193.8675 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 34' 06.2408''$

$\lambda = 87^{\circ} 07' 27.4613''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,941,541.325

Northing : 2,302,105.284

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 1 AZI 1	° ' "	358° 30' 17.0"	2,283.60

DNR BM SALT 1 AZ 1, 1987

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 17, T. 36 N., R. 6 W., 2nd PM.; about 3.2 miles southwest of Chesterton; about 210 feet north along State Road 149 from its overpass of I 80/90 to a paved drive west leading to the Fred and Irma Kitchel residence (968 North State Road 149); set in the top of a concrete post, 93.2 feet north of the corner fence post of the interstate highway right-of-way fence, 66.6 feet southwest of and across State Road 149 from powerpole # 1/955/251, 37.4 feet north of the centerline of the paved drive, 26.2 feet east-northeast of a 12 inch Crabapple tree, 25.3 feet west of the centerline of State Road 149, 8 feet north-northeast of powerpole # 59500/2652; a Indiana Department of Natural Resources control station tablet, stamped "SALT 1 AZ 1 1987".

637.871 feet NGVD 1929

194.4235 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 34' 28.7948''$

$\lambda = 87^{\circ} 07' 28.2596''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,941,481.735

Northing : 2,304,388.111

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 1	° ' "	358° 30' 17.0"	2,283.60

DNR BM SALT 3, 1987

In Porter County, Chesterton Quad., in the SW ¼ of Sec. 33, T. 36 N., R. 6 W., 2nd PM.; about 3.0 miles northwest of Valparaiso; about 0.2 mile north along State road 149 from its "T" intersection with 600 North Road, about 200 feet south of a gas pipeline crossing under State Road 149; set in the top of a concrete post, 47.2 feet south of a reflector pole in a ditch on the east side of State Road 149, 38.3 feet east of the centerline of State Road 149, 32.8 feet south of power pole # 433/392, 5.6 feet west of a barbed wire fence line; a Indiana Department of Natural Resources control station tablet, stamped "SALT 3 1987".

662.708 feet NGVD 1929

201.9938 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 31' 27.2983''$

$\lambda = 87^{\circ} 07' 26.0130''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,941,634.857

Northing : 2,286,017.957

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 3 AZI 1	° ' "	358° 16' 25.8"	3,221.40

DNR BM SALT 3 AZ 1, 1987

In Porter County, Chesterton Quad., in the NE ¼ of Sec. 32, T. 36 N., R. 6 W., 2nd PM.; about 3.3 miles northwest of Valparaiso; about 0.15 mile south along State Road 149 from its intersection with 700 North Road, just north of a residence at 680 South State Road 149; set in the top of a concrete post, 58.0 feet west-northwest of and across State Road 149 from the west most post of a "ROAD INTERSECTION" sign post, 45.4 feet north-northwest of a mailbox post (# 680 State Road 149), 34.6 feet west of the centerline of State Road 149, 26.8 feet north of a concrete right-of-way marker, 22.7 feet northwest of the northwest corner of the top of the south concrete headwall of a culvert on the west side of State Road 149, 7.4 feet west-northwest of the northwest corner of the top of the north concrete headwall of a culvert on the west side of State Road 149; a Indiana Department of Natural Resources control station tablet, stamped "SALT 3 AZ 1 1987".

642.864 feet NGVD 1929

195.9453 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 31' 59.1110''$

$\lambda = 87^{\circ} 07' 27.3088''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,941,546.820

Northing : 2,289,237.898

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 3	° ' "	178° 16' 25.8"	3,221.40

DNR BM SALT 4, 1987

In Porter County, Portage Quad., in the SW ¼ of Sec. 5, T. 35 N., R. 6 W., 2nd PM.; about 1.7 miles east of Wheeler; about 0.3 mile west along 500 North Road from its intersection with 325 West Road to its "T" intersection with Olde Bailey Court to the north (gravel); set in the top of a concrete post, 47.8 feet south of power pole # 1/001/217, 26.5 feet west of the centerline of Olde Bailey Court, 26.1 feet north of the centerline of 500 North Road, 9.0 feet west-southwest of a "ROAD" sign post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 4 1987".

655.222 feet NGVD 1929

199.7121 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 30' 26.0145''$

$\lambda = 87^{\circ} 08' 06.3315''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,934,978.802

Northing : 2,279,784.138

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 4 AZI 1	° ' "	269° 28' 44.4"	3,594.76

DNR BM SALT 4 AZ 1, 1987

In Porter County, Portage Quad., in the SW ¼ of Sec. 5, T. 35 N., R. 6 W., 2nd PM.; about 1.7 miles east of Wheeler; about 0.25 miles east along 500 North Road from its intersection with 450 West Road to its "T" intersection with Robyn Road, near the John Simatovich Elementary School; set in the top of a concrete post, about 112 feet west of Robyn Road, 82.2 feet east of power pole # 1/002/005, 52.2 feet south-southeast of and across 500 North Road from a 6 inch by 6 inch wood fence corner post, 43.6 feet west of power pole # 1/002/163, 39.5 feet east of the center of a GTE manhole cover, 23.4 feet south of the centerline of 500 North Road, 3.7 feet north of a chain link fence and a orange witness post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 4 AZ 1 1987".

679.688 feet NGVD 1929

207.1693 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 30' 25.6676''$

$\lambda = 87^{\circ} 08' 53.5773''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,934,978.802

Northing : 2,279,784.138

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 4	° ' "	89° 28' 44.4"	3,594.76

DNR BM SALT 5, 1987

In Porter County, Palmer Quad., in the SE ¼ of Sec. 8, T. 35 N., R. 6 W., 2nd PM.; about 4.3 miles northeast of Lake Eliza; about 0.25 mile northwest along State Road 130 from its "T" intersection with 325 West Road; set in the top of a concrete post, 100.1 feet northeast of and across State Road 130 from the center of a steel railroad mile marker # 428, 88.1 feet west-northwest of the western most post of a gas feed to an underground telephone line, 79.2 feet southeast of a telephone pole, 60.7 feet northwest of a telephone pole, 34.7 feet north-northeast of the centerline of State Road 130, 4.2 feet west of a concrete right-of-way marker, 1.0 foot south-southwest of a orange witness post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 5 1987".

677.133 feet NGVD 1929

206.3906 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 29' 44.2583''$

$\lambda = 87^{\circ} 08' 55.1340''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting :

Northing :

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 5 AZI 1	° ' "	292° 22' 46.25"	1,755.48

DNR BM SALT 5 AZ 1, 1987

In Porter County, Palmer Quad., in the SW ¼ of Sec. 8, T. 35 N., R. 6 W., 2nd PM.; about 4.3 miles northeast of Lake Eliza; about 0.55 mile northwest along State Road 130 from its "T" intersection with 325 West Road to a gravel "T" road to the southwest, in the southeast ¼ of the "T" intersection; set in the top of a concrete post, 87.5 feet southwest of and across State Road 130 from a concrete right-of-way marker, 86.2 feet southeast of and across State Road 130 from the southwest corner of the west most concrete and stone wall on the west side of a private drive to the north, 56.1 feet northeast of and across the gravel road from a 4 inch by 4 inch wood railroad crossing post, 39.1 feet south of the centerline of State Road 130, 24 feet east of the centerline of the gravel road, 10.7 feet east of a "STOP" sign post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 5 AZ 1 1987".

666.862 feet NGVD 1929

203.2599 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 29' 50.8524''$

$\lambda = 87^{\circ} 08' 16.4712''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,937,799.708

Northing : 2,276,258.413

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 5	° ' "	112° 22' 46.25"	1,755.48

DNR BM SALT 6, 1987

In Porter County, Valparaiso Quad., in the SE ¼ of Sec. 16, T. 35 N., R. 6 W., 2nd PM.; about 1.5 miles west of Valparaiso; about 0.25 mile north along 250 West Road from the 250 West Road bridge over salt Creek to a private drive to the west; set in the top of a concrete post, 62.6 feet southwest of and across 250 West Road from power pole # 444/214, 51.1 feet southeast of and across the drive from power pole # 418/627, 28.5 feet south of the centerline of the drive, 16.1 feet west of the centerline of 250 West Road, 10.0 feet southeast of a wood fence post, east of an orange witness post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 6 1987".

715.206 feet NGVD 1929

217.9952 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 28' 53.6224''$

$\lambda = 87^{\circ} 06' 51.5446''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,944,260.043

Northing : 2,270,462.772

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 6 AZI 1	° ' "	00° 27' 33.99"	3,928.21

DNR BM SALT 6 AZ 1, 1987

In Porter County, Valparaiso Quad., in the NE ¼ of Sec. 16, T. 35 N., R. 6 W., 2nd PM.; about 1.7 miles northwest of Valparaiso; at the "T" intersection of State Road 130 and 250 West Road, in the southeast ¼ of the intersection; set in the top of a concrete post, 59.7 feet south of the centerline of State Road 130, 20.3 feet south-southwest of a "ROAD" sign post, 17.5 feet east of the centerline of 250 West Road, 7.5 feet north of power pole # 435/870, 5.0 feet south of a concrete right-of-way marker, 2.0 feet west of an orange witness post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 6 AZ 1 1987".

699.801 feet NGVD 1929

213.2998 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 29' 32.4324''$

$\lambda = 87^{\circ} 06' 51.1492''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,944,291.542

Northing : 2,274,390.855

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 6	° ' "	180° 27' 33.99"	3,928.21

DNR BM SALT 7, 1987

In Porter County, Valparaiso Quad., in the NW ¼ of Sec. 15, T. 35 N., R. 6 W., 2nd PM.; about 1.2 miles west of Valparaiso; at the intersection of State Road 130 and the Grand Trunk Western railroad; set in the top of a concrete post, 138.7 feet south of the centerline of State Road 130 and the south rail of the railroad, about 125 feet east of a small pond, 91.1 feet north of the northeast corner of a "LANDGREBE MOTOR TRANSPORT" sign, 40.9 feet southeast of a mailbox, 38.7 feet southeast of a telephone pole, 33.2 feet southwest of the centerline of State Road 130, 22.4 feet south-southeast of the east most post of a "ROAD CURVE" sign, east of an orange witness post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 7 1987".

717.600 feet NGVD 1929

218.7249 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 29' 09.7591''$

$\lambda = 87^{\circ} 06' 04.7312''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,947,823.474

Northing : 2,272,095.013

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 7 AZI 1	$^{\circ} \ ' \ ''$	130 ^o 05' 57.57"	2,228.72

DNR BM SALT 7 AZ 1, 1987

In Porter County, Valparaiso Quad., in the SW ¼ of Sec. 15, T. 35 N., R. 6 W., 2nd PM.; about 0.8 mile west of Valparaiso; at the intersection of State Road 130 (Lincolnway) and 150 West Road, in the northwest ¼ of the intersection; set in the top of a concrete post, 43.9 feet northwest of the centerline of 150 West Road, 32.2 feet northeast of the centerline of State Road 130 (Lincolnway), 25.4 feet west of the west most post of a "STOP" sign, 16.5 feet northwest of a telephone pole, 8.1 feet southeast of a concrete highway right-of-way marker; a Indiana Department of Natural Resources control station tablet, stamped "SALT 7 AZ 1 1987".

726.313 feet NGVD 1929

221.3806 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 28' 55.5786''$

$\lambda = 87^{\circ} 05' 42.3286''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,949,528.284

Northing : 2,270,659.464

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 7	$^{\circ} \ ' \ ''$	310 ^o 05' 57.57"	2,228.72

DNR BM SALT 8, 1987

In Porter County, Valparaiso Quad., in the NE ¼ of Sec. 22, T. 35 N., R. 6 W., 2nd PM.; about 0.3 mile west of Valparaiso; about 0.9 mile northwest along State Road 130 (Lincolnway) from its intersection with Joliet Road, at the B & E Body Shop; set in the top of a concrete post, 106.8 feet southwest of the B & E Body Shop building, 103.2 feet west of power pole # 449/041, 44.9 feet northeast of the centerline of State Road 130 (Lincolnway), 36.2 feet north-northwest of power pole # 442/944 with a guy wire to the northwest, 27.2 feet west of a metal "B & E BODY SHOP" sign post, 18.6 feet north of the anchor of the guy wire of power pole # 442/944; a Indiana Department of Natural Resources control station tablet, stamped "SALT 8 1987".

714.676 feet NGVD 1929

217.8337 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 28' 38.9695''$

$\lambda = 87^{\circ} 05' 08.6205''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,952,093.830

Northing : 2,268,978.195

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 8 AZI 1	° ' "	129° 48' 07.82"	2,533.23

DNR BM SALT 8 AZ 1, 1987

In Porter County, Valparaiso Quad., in the NW ¼ of Sec. 23, T. 35 N., R. 6 W., 2nd PM.; at Valparaiso; 0.4 mile northwest along State Road 130 (Lincolnway) from its intersection with Joliet Road, to its "T" intersection with Emmetsburg Avenue; set in the top of a concrete post, 54.6 feet south of the south edge of the parking lot for the "Athletic Lettering Company", 39.7 feet northeast of the centerline of State Road 130 (Lincolnway), 29.7 feet west of the centerline of Emmetsburg Avenue, 14.5 feet northwest of power pole # 449/376 with a "EMMETSBURG AVENUE" sign attached, 13.9 feet southwest of a "NO OUTLET" sign post, 7.5 feet north of a "WARNING GAS PIPELINE" sign post; a Indiana Department of Natural Resources control station tablet, stamped "SALT 8 AZ 1 1987".

732.069 feet NGVD 1929

223.1351 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 28' 22.9474''$

$\lambda = 87^{\circ} 04' 43.0535''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,954,040.010

Northing : 2,267,356.574

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 8	° ' "	309° 48' 07.82"	2,533.23

DNR BM SALT 9, 1987

In Porter County, Valparaiso Quad., in the NE ¼ of Sec. 26, T. 35 N., R. 6 W., 2nd PM.; at Valparaiso; at the intersection of U.S. 30 (Morthland Drive) and Horse Prairie Avenue, just west of the U.S. 30 (Morthland Drive) bridge over Salt Creek, at the entrance to the Holliday Inn Express; set in the top of a concrete post, 88.2 feet northwest of the northwest corner of the concrete handrail of the U.S. 30 bridge over Salt Creek, 78.3 feet east of and across the entrance to the Holliday Inn Express from the top of a fire hydrant, 64.8 feet north of the centerline of the west bound lanes of U.S. 30 (Morthland Drive), 55.9 feet northeast of and across the entrance to the Holliday Inn Express from the east most post of a "STOP" sign, 23.1 feet west-southwest of the south most post of a "BUTCH HUNDLEY'S" sign, 21.9 feet east of the centerline of the entrance to the Holliday Inn Express; a Indiana Department of Natural Resources control station tablet, stamped "SALT 9 1987".

688.270 feet NGVD 1929

209.7851 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 27' 36.5160''$

$\lambda = 87^{\circ} 04' 05.5913''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,956,892.554

Northing : 2,262,657.436

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 9 AZI 1	° ' "	107° 31' 23.96"	1,978.31

DNR BM SALT 9 AZ 1, 1987

In Porter County, Valparaiso Quad., in the NW ¼ of Sec. 25, T. 35 N., R. 6 W., 2nd PM.; at Valparaiso; at the intersection of U.S. 30 (Morthland Drive) and State Road 2, at H.O.W. Rentals & Sales (tool rental); set in the top of a concrete post, about 600 feet east of the intersection, 73.7 feet northeast of power pole # 427/057 with a transformer, 60.6 feet north of the H.O.W. building, 48.3 feet northeast of the northeast corner of the metal post of the H.O.W. sign, 46.8 feet east of the north most post of a "EAST U S 30" sign, 24.9 feet south of the centerline of the east bound lanes of U.S. 30 (Morthland Drive), 12.8 feet east of a metal post with a reflector; a Indiana Department of Natural Resources control station tablet, stamped "SALT 9 AZ 1 1987".

699.785 feet NGVD 1929

213.2949 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 27' 30.6268''$

$\lambda = 87^{\circ} 03' 40.8157''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,958,779.062

Northing : 2,262,061.778

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 9	° ' "	287° 31' 23.96"	1,978.31

DNR BM SALT 10, 1987

In Porter County, Valparaiso Quad., in the SE ¼ of Sec. 26, T. 35 N., R. 6 W., 2nd PM.; about 1.0 mile southwest of Valparaiso; at the County Highway garage near the County Home, at the intersection of State Road 2 and 50 West Road (Heavlin Road); set in the top of a concrete post, about 250 feet east of the intersection of State Road 2 and 50 West Road (Heavlin Road), 49.6 feet southeast of the north most post of the "COUNTY HIGHWAY DEPARTMENT" sign, 45.9 feet south of the centerline of State Road 2, 30.5 feet north of a east-west chain link fence, 20.4 feet southeast of power pole # 1/001/906 with two guy wires to the south, 15.2 feet east-southeast of the south most guy wire of power pole # 1/001/906; a Indiana Department of Natural Resources control station tablet, stamped "SALT 10 1987".

695.277 feet NGVD 1929

211.9209 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 27' 00.2644''$

$\lambda = 87^{\circ} 04' 28.4139''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,955,155.264

Northing : 2,258,988.070

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 10 AZI 1	° ' "	262° 42' 48.1"	1,918.42

DNR BM SALT 10 AZ 1, 1987

In Porter County, Valparaiso Quad., in the SW ¼ of Sec. 26, T. 35 N., R. 6 W., 2nd PM.; about 1.3 miles southwest of Valparaiso; about 0.2 mile northeast along State Road 2 from its intersection with 100 West Road (Hundred Road) and Thornapple Way to the J.P. Nelisson residence at #2057 State Road 2; set in the top of a concrete post, on the north side of State Road 2, west of the extended centerline of the drive to the south at #2057 State Road 2, 84.5 feet northeast of a telephone pole, 38.0 feet north of the centerline of State Road 2, 7.2 feet southeast of the 2nd post west of the east end of a east-west wood rail fence line, 7.2 feet southwest of the east most wood post of a east-west wood rail fence line, 6.3 feet northwest of a wood fence corner post, 4.4 feet west of the north-south fence line; a Indiana Department of Natural Resources control station tablet, stamped "SALT 10 AZ 1 1987".

701.682 feet NGVD 1929

213.8731 meters NGVD 1929

Position Data : 2nd. Order Class II NAD 1927

Geodetic Position : $\phi = 41^{\circ} 26' 57.8615''$

$\lambda = 87^{\circ} 04' 53.4033''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,953,252.341

Northing : 2,258,744.751

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
SALT 10	° ' "	82° 42' 48.1"	1,918.42

DNR BM OD 1, 1987

In Porter County, Ogden Dunes Quad., in the NE ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; at Ogden Dunes; at the east end of Lake Shore Drive; set in the top of a concrete post, on the extended north edge of Lake Shore Drive, 50.8 feet southeast of a eight inch steel pipe, 48.7 feet northeast of the south gate post, 48.6 feet east of the north gate post, 38.0 feet northwest of the end post of a chain link fence and a railroad tie retaining wall, 35.7 feet north of the railroad tie retaining wall, 19.0 feet west of the chain link fence, 7.0 feet southwest of a five inch Pine tree, level with the ground; a Indiana Department of Natural Resources control station tablet, stamped "OD 1 1987".

600.24 feet NGVD 1929

THIRD ORDER

Position Data : 3rd Order Class I

NAD 1983

Geodetic Position : $\phi = 41^{\circ} 37' 46.9370''$

$\lambda = 87^{\circ} 11' 00.8579''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,925,337.12

Northing : 2,324,469.91

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
OD 2	° ' "	255° 43' 37"	2,845.50

DNR BM OD 2, 1987

In Porter County, Ogden Dunes Quad., in the NW ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; at Ogden Dunes; about 0.5 mile southwest along Lake Shore Drive from the northeast end of Lake Shore Drive, at house # 101; set in the top of a concrete post, 32.7 feet southwest of the centerline of the drive southeast leading to house # 101, 24.8 feet southwest of power pole # 859/265, 13.0 feet southeast of the centerline of Lake Shore Drive, level with the ground; a Indiana Department of Natural Resources control station tablet, stamped "OD 2 1987".

600.91 feet NGVD 1929

THIRD ORDER

Position Data : 3rd Order Class I

NAD 1983

Geodetic Position : $\phi = 0^{\circ} \ ' \ ''$

$\lambda = 0^{\circ} \ ' \ ''$

Indiana State Plane Coordinates in U.S. Survey Feet (one meter = 39.37 inches exactly)

Indiana West Zone : Easting : 2,922,579.46

Northing : 2,323,768.37

AZIMUTH DATA:

Mark Name	Geodetic Azimuth	Grid Azimuth	Grid Distance (feet)
OD 1	° ' "	75° 43' 37"	2,845.50

DNR TBM MIC 1, 1987

In Porter County, Ogden Dunes Quad., in the NE ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; at Ogden Dunes; at the residence at box # 42 Lake Shore Drive; set in power pole # 345/157, 20 feet north of the centerline of Lake Shore Drive, 16.5 feet east of the center of three 20 inch Cottonwood trees, about 0.4 foot above the ground; a railroad spike driven through a aluminum tag, stamped "DNR TBM MIC 1".

598.643 feet NGVD 1929

THIRD ORDER

DNR TBM MIC 2, 1987

In Porter County, Ogden Dunes Quad., in the NE ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; at Ogden Dunes; at the intersection of Lake Shore Drive and Cedar Trail; set in the northeast side of power pole # 323/493, 35 feet west of the centerline of Cedar Trail, 24.2 feet south of the centerline of Lake Shore Drive, 6.0 feet east of a yellow fire hydrant, about 0.5 foot above the ground; a railroad spike driven through a aluminum tag, stamped "DNR TBM MIC 2".

592.066 feet NGVD 1929

THIRD ORDER

DNR TBM MIC 3, 1987

In Porter County, Ogden Dunes Quad., in the SE ¼ of Sec. 26, T. 37 N., R. 7 W., 2nd PM.; at Ogden Dunes; at the intersection of Lake Shore Drive and Hillcrest Road; set in power pole # 343/357, 43.5 feet east of the centerline of Hillcrest Road, 22 feet north of the centerline of Lake Shore Drive, 10.5 feet east of a street sign post, about 0.5 foot above the ground; a railroad spike driven through a aluminum tag, stamped "DNR TBM MIC 3".

612.550 feet NGVD 1929

THIRD ORDER

DNR TBM MIC 4, 1987

In Porter County, Portage Quad., in the SE ¼ of Sec. 34, T. 37 N., R. 7 W., 2nd PM.; about 0.3 mile southwest of Ogden Dunes; about 0.75 mile southwest along U.S. 12 from the entrance to Ogden Dunes (Hillcrest Road); set in a 10 foot high cut off power pole which is 2 foot west of a full size power pole, 63 feet north of the centerline of U.S. 12, 5.8 feet south of the south track of the railroad north of U.S. 12; a railroad spike driven through a aluminum tag, stamped "DNR TBM MIC 4".

609.907 feet NGVD 1929

THIRD ORDER

DNR BM LAKE ELIZA PORTER

In Porter County, Palmer Quad., in the SW ¼ of Sec. 1, T. 34 N., R. 7 W., 2nd PM.; about 0.3 mile south of Lake Eliza; at the outlet control structure for Lake Eliza; set in the top of a concrete lake level monument, about 8 feet above the dam, about 6 feet above the concrete wingwall of the control structure, 5.15 feet west of the east face of the west concrete side wall of the control structure; a Indiana Department of Natural Resources control station tablet, stamped "LAKE ELIZA PORTER" **ELEVATION SUSPECT**
~~742.054 feet NGVD 1929~~ ~~THIRD ORDER~~ ~~231.3626 meters N.G.V.D. 1929~~

DNR TBM LE 1 09983

In Porter County, Palmer Quad., in the NE ¼ of Sec. 12, T. 34 N., R. 7 W., 2nd PM.; about 0.7 mile southeast of Lake Eliza; at the intersection of 500 West Road and the abandoned Chesapeake and Ohio Railroad; set in the west side of a power pole, about 129 feet north of the centerline of the abandoned railroad, 82.2 feet northwest of the northwest corner of a concrete headwall of a culvert under the drive leading to a one story white frame house with brick trim, 17.5 feet west of the centerline of 500 West Road, about 1 foot above the ground; a railroad spike driven through a stamped aluminum tag.
784.268 feet NGVD 1929 THIRD ORDER 239.0454 meters N.G.V.D. 1929

DNR TBM LE 2 09983

In Porter County, Palmer Quad., in the SW ¼ of Sec. 1, T. 34 N., R. 7 W., 2nd PM.; about 0.3 mile south of Lake Eliza; at the outlet control structure for Lake Eliza; set in the southeast side of a 20 inch Cottonwood tree, about 185 feet northwest of the control structure, about 35 feet northeast of the centerline of a dirt road, about 1.5 feet above the ground; a railroad spike driven through a stamped aluminum tag.
740.039 feet NGVD 1929 THIRD ORDER 225.5643 meters N.G.V.D. 1929

DNR TBM LE 3 09983

In Porter County, Palmer Quad., in the SW ¼ of Sec. 1, T. 34 N., R. 7 W., 2nd PM.; about 0.3 mile south of Lake Eliza; at the outlet control structure for Lake Eliza; set in the west side of a 6 inch Cherry tree, about 50 feet downstream of the control structure, about 25 feet landward of the left bank of the outlet channel, 20 feet southeast of the northwest end of a fence, about 20 feet northeast of the toe of slope of the abandoned Chesapeake and Ohio Railroad grade, 1.0 foot southwest of a fence line, 1.0 foot above the ground; a railroad spike driven through a stamped aluminum tag.

744.982 feet NGVD 1929 THIRD ORDER 227.0710 meters N.G.V.D. 1929

IDNR TBM LOOMIS 1 2003

In Porter County, Chesterton Quad, set in the NW ¼ of section 1, T. 35 N., R. 6 W., 2nd P. M. Set on the north side of Valparaiso, Indiana and the northwest side of Loomis Lake. Set at the Rogers-Lakewood Park Boat Ramp. 8.5 feet south of the south concrete edge of the boat ramp, 27.0 feet east of the east edge of asphalt parking lot, 32.5 feet north of the north face of a ± 36 inch Oak Tree, about 1.5 feet above the ground. Set in the west side of a utility pole. A railroad spike through an aluminum tag stamped "IDNR TBM LOOMIS 1 2003"

816.471 feet NGVD 1929 3rd Order

IDNR TBM LOOMIS 2 2003

In Porter County, Chesterton Quad, set in the NW ¼ of section 1, T. 35 N., R. 6 W., 2nd P. M. Set on the north side of Valparaiso, Indiana and the northeast side of Loomis Lake. Set at the control structure for Loomis Lake near the Loomis Lake Boat Rental. 57.5 feet north of the northwest corner of a one story house, 62.0 feet southwest of the southwest corner of a pole barn near service door, 16.0 feet west of the centerline of gravel driveway, Set in the north side of a power pole # 449/519 with transformer. A railroad spike through an aluminum tag stamped "IDNR TBM LOOMIS 2 2003"

815.739 feet NGVD 1929 3rd Order

IDNR TBM LOOMIS 3 2003

In Porter County, Chesterton Quad, set in the NW $\frac{1}{4}$ of section 1, T. 35 N., R. 6 W., 2nd P. M. Set on the north side of Valparaiso, Indiana and the northwest side of Loomis Lake. Set south of the Rogers-Lakewood Park Boat Ramp. Set at the concrete Park Store. Set in the asphalt path to store. 70 feet north of the northeast corner of the Park Store, 56 feet north of a telephone riser box, 38 feet west of a concrete retaining wall. A P. K. nail set in asphalt path.
825.051 feet NGVD 1929 3rd Order

USGS RM 4 Flint Lake

In Porter County, Chesterton Quad. Set in the SW $\frac{1}{4}$ of Section 6, T. 35 N., R. 5 E., 2nd P. M. Set on the north side of Valparaiso, Indiana. Set on the east side of Flint Lake. Set at the water pumping plant at the outlet of Flint Lake. Set on top of an iron pipe inside of a cast iron pipe with a water meter lid. 79 feet west of the west door of the pump plant engine room of the Valparaiso Department of Water Works, 14.7 feet east of a P. K. nail in the south side of a utility pole with a guy wire to the west, 8.2 feet southwest of the southeast corner of a concrete sidewalk, 5.7 feet south of the south edge of the concrete sidewalk, 34.3 feet northeast of the northeast corner of a concrete pad for a trash bin, 1.9 feet below the top of the lid, 2.1 feet below the ground. A USGS bronze reference mark tablet.
800.912 feet NGVD 1929 3rd Order

IDNR TTBM 101 2003

In Porter County, Chesterton Quad. Set in the NE $\frac{1}{4}$ of section 1, T. 35 N., R. 5 E., 2nd P. M. Set on the north side of Valparaiso, Indiana. Set on the north side of Flint Lake. About 0.75 miles westerly along Edgewater Drive from the T intersection of Edgewater Drive and Calumet Avenue to a chain link fence and gate leading to the Hilcrest Park Beach on Flint Lake, Set on the south side of a utility pole with a "NO PARKING" sign mounted on the west side of the pole. 95.5 feet west of the Long Lake Outlet CMP under Edgewater Drive, 16.1 feet north of the centerline of Edgewater Drive, 21.1 feet west of the centerline of a gravel drive to the northwest, 5.2 feet southwest of the east end of a concrete and rock wall, 4.2 feet south of the concrete and rock wall, about 1.4 feet above the ground, A P. K. nail through an inverted bottle cap.
804.998 feet NGVD 1929 3rd Order

IDNR TBM LOOMIS 4 2003

In Porter County, Chesterton Quad, set in the near the center of section 1, T.35 N., R.6 W., 2nd P. M. Set on the north side of Valparaiso, Indiana. Set on the east side of Loomis Lake @ the outlet control structure draining to Flint Lake. Set on the southwest corner of a concrete slab with access door to outlet drain. 43.4 feet north of the west steel end post for a chain link fence, 0.3 feet north of the south end of concrete slab, 0.4 feet east of the west face of concrete slab, 1.4 feet above the steel outlet grate. A chiseled triangle.

815.99 feet NGVD 1929 3rd Order 815.695 feet NAVD 1988

IDNR TBM LL 1 2006

IN Porter County, Chesterton Quad., set in the NE ¼ of section 1, T. 35 N., R. 5 W., 2nd P. M. Starting from the intersection of U. S. 6 and Meridian Road on the north side of Valparaiso, IN. Thence south along Meridian Road about 2.0 miles to a "T" road east; thence east along the "T" road about 0.6 miles to a road south; thence south along road about 0.15 miles to "Long Lake Lane"; thence northeast along "Long Lake Lane" about ± 200 feet to the TBM set on the WSW side of a power pole, 52 feet northwest of the centerline of "Long Lake Lane", 6.5 feet northeast of the centerline of a private drive, 69.5 feet southeast of the southwest most corner of garage (address 511), about 1.2 feet above the ground. A railroad spike through an aluminum tag stamped

"DNR TBM LL 1 2006" 3rd Order 835.184 feet NGVD 1929