



“Joy of Geodetics”



Part IV

Other Disk Installing Agencies and Representative Disk Examples

Stf/C Greg Shay, JN-ACN

United States Power Squadrons / America's Boating Club
Sponsor: USPS Cooperative Charting Committee

Revision 5 - 2020

Part IV - Topics Outline

Other Disk Installing Agencies

- Other U.S. Government Agencies
- States
- Counties, Districts, and Cities
- Non-Government Agencies
- Commemorative Disks

OTHER U.S. GOVERNMENT AGENCIES

- U.S. GENERAL LAND OFFICE - USDOI
- BUREAU OF LAND MANAGEMENT (BLM) - USDOI
- U.S. RECLAMATION SERVICE - USDOI
- U.S. PARK SERVICE - USDOI
- U.S. ARMY CORPS OF ENGINEERS (USACE) - USDOD
- U.S. ENGINEERING DEPT. (also USACE) - USDOD
- U.S. LAKE SURVEY
- U.S. SUPREME COURT
- TENNESSEE VALLEY AUTHORITY (TVA)
- U.S. DEPARTMENT OF AGRICULTURE (USDOA)

Note: USDOI * = Bureaus within the U.S. Department of Interior. Surveys of wide extent have been conducted for special purposes by nearly 40 different federal agencies (Ref 17).

“U.S. GENERAL LAND OFFICE” (GLO)



FB1570 (BOUNDARY
MARKER Q 1 B) – Soco
Gap, NC (GDS)

The U.S. General Land Office (GLO) – now the Bureau of Land Management (BLM) - was an independent agency of the U.S. government responsible for public domain lands. It was created in 1812 to take over functions previously conducted by the U.S. Dept. of the Treasury. Starting with the passage of the Land Ordinance Act of 1785 which created the Public Land Survey System, the Treasury Department had already overseen the survey of the "Northwest Territory". GLO was placed under the Department of the Interior when formed in 1849, and was later merged with the U.S. Grazing Service to become the Bureau of Land Management in 1946.

“U.S. GENERAL LAND OFFICE” (GLO) EXAMPLES



FB1570 (BOUNDARY
MARKER Q 1 B) – Soco
Gap, NC (GDS)



PID, DESIGNATION and
location Unknown – (INT)



PID, DESIGNATION and
location Unknown – (INT)

U.S. DEPARTMENT OF THE INTERIOR
“BUREAU OF LAND MANAGEMENT” (BLM)
Disk Examples



Internet Photo



DV2125 (T1N T1S R1E R1W
SECS 1 6 31 36 RESET) – near
Phoenix Raceway, AZ (RJS)



Internet Photo

“U.S. RECLAMATION SERVICE” / “BUREAU OF RECLAMATION”



PID, DESIGNATION and location Unknown – (INT)

The U.S. Reclamation Service - now the U.S Bureau of Reclamation (USBR), is a federal agency under the U.S. Department of the Interior, which oversees water resource management, specifically as it applies to the oversight and operation of the diversion, delivery, and storage projects that it has built throughout the western United States for irrigation, water supply, and attendant hydroelectric power generation. USBR is the largest retailer of water in the country!

“U.S. RECLAMATION SERVICE” / “BUREAU OF RECLAMATION”

Examples

USRS



BOR



BOR



QW0055 (J_492) -
“Hunly Project”, near
Worden, MT (GDS)

GR0594 (V_135) –
Hoover Dam, AZ (TJH)

GR0576 (E_174) –
Hoover Dam, NV (TJH)

“NATIONAL PARK SERVICE”



The National Park Service (NPS) is an operating unit within U.S. Department of the Interior that manages all national parks, many national monuments, and other conservation and historical properties. The United States Congress created the agency in 1916 through the National Park Service Organic Act. The agency is charged with a dual role of preserving the ecological and historical integrity of the places entrusted to its management while also making them available and accessible for public use and enjoyment.

“NATIONAL PARK SERVICE”

Example



DR2057 (4 54 RESET) –
Oregon Inlet Marina,
Outer Banks, NC (CAC)

“U.S. ARMY CORPS OF ENGINEERS” (USACE)



The United States Army Corps of Engineers (USACE) is an engineer formation of the United States Army that has three primary mission areas: engineer regiment, military construction, and civil works. The day-to-day activities of the three mission areas are administered by a lieutenant general known as the commanding general/chief of engineers who answers directly to the chief of staff of the army.

“U.S. ARMY CORPS OF ENGINEERS”

USACE

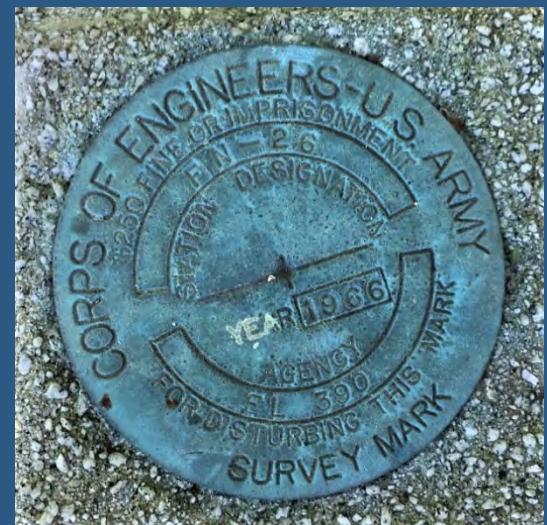
Disk Examples - 1



AI5358 (ESSEX NC 43)
- Essex, NC (GDS)



DD1756 (MLS 10.788) –
near Little River, SC (DLT)



FY1946 (FN 26) – N of
Creedmore, NC (GDS)

“U.S. ARMY CORPS OF ENGINEERS”

USACE

Disk Examples - 2



DQ7161 (360 10) –
Muskingum River,
Zanesville, OH (TJH)



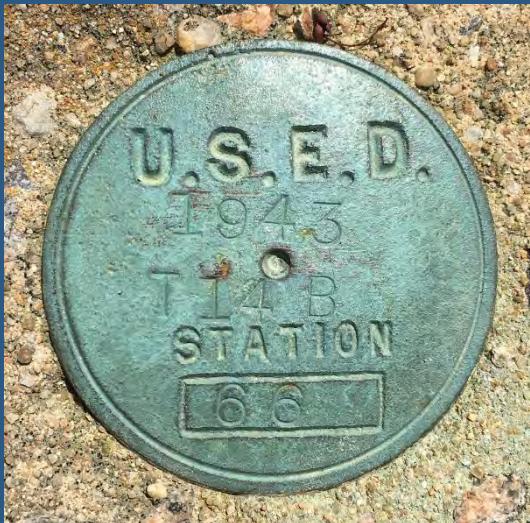
CZ2102 (AE 48) – Casa
Grande Mountains, AZ
(RJS)



QF2749 (22) – Sea
Breeze Pier, Rochester,
NY (MRS)

“U.S. ARMY CORP OF ENGINEERS”

U.S.E.D. Disk Examples - 3



AH9227 (T 14 B 66) –
near Wilton, NC (GDS)



EF1009 (71) – near Wilson
Lock & Dam, AL (NGS)



KY1326 (NO 26) –
near Alliance, OH
(TJH)

U.S. Engineer Dept. / U.S.E.D. is a former name / acronym for
U.S. Army Corps of Engineers Circa 1900 - (Ref. 21)

“U.S. LAKE SURVEY”



KY1326 (906 3083
WL 106) – Port
Clinton, OH (TJH)

The United States Lake Survey (USLS) was a hydrographic survey for the Great Lakes, New York Barge Canal, Lake Champlain and the Boundary Waters of the Canada. Started in 1841, the Lake Survey was created within the United States Army Topographical Engineers (later the United States Army Corps of Engineers). Like the Commerce Department's Coast and Geodetic Survey, the Lake Survey had responsibility for the preparation and publication of nautical charts and other navigational aids. By 1882 the Survey was complete but was later reconstituted and its mission expanded beyond surveying and charting to include studies of lake levels and associated river flow.

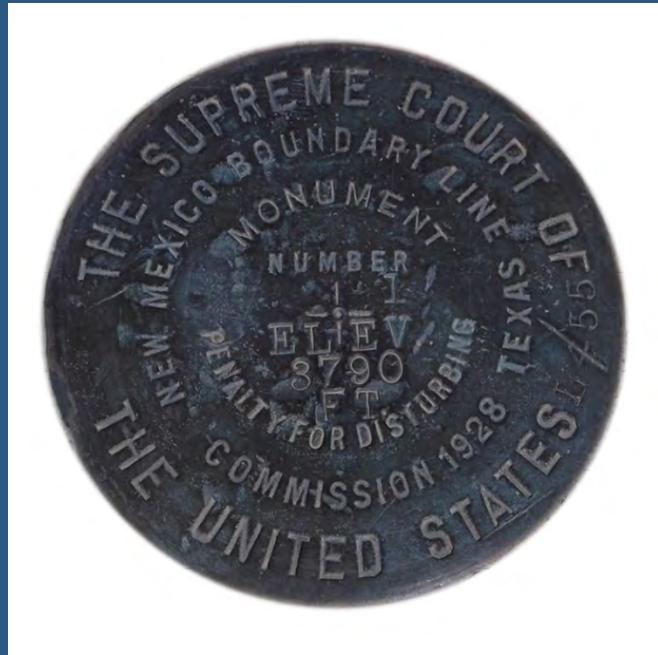
“U.S. LAKE SURVEY”

Disk Example



MB1680 (906 3048
WL 114) ASHTABULA,
OH (TJH)

“U.S. SUPREME COURT”



These “rare” U.S.S.C marks were/are set along state lines at the direction of the Supreme Court after settling interstate boundary disputes such as the location of boundary lines between states. A USSC Boundary Commission was tasked to mark the court determined boundary. The marks have a + (cross) in the middle with text stamping “THE SUPREME COURT OF THE UNITED STATES” or “UNITED STATES BOUNDARY COMMISSION” on the disk (cap).

“U.S. SUPREME COURT” Disk Examples



COLORADO / NEW MEXICO
Dispute Decision

AD9253 (BOUNDARY MI COR
313+68.00) – (NGS)



VERMONT / NEW HAMPSHIRE
Dispute Decision

PF0651 (RR) – (NGS)



OKLAHOMA / TEXAS
Dispute Decision

GK0969 (NORTHEASET
CORNER OF TEXES) – (NGS)

“TENNESSEE VALLEY AUTHORITY” (TVA)

A Federally Owned U.S. Corporation



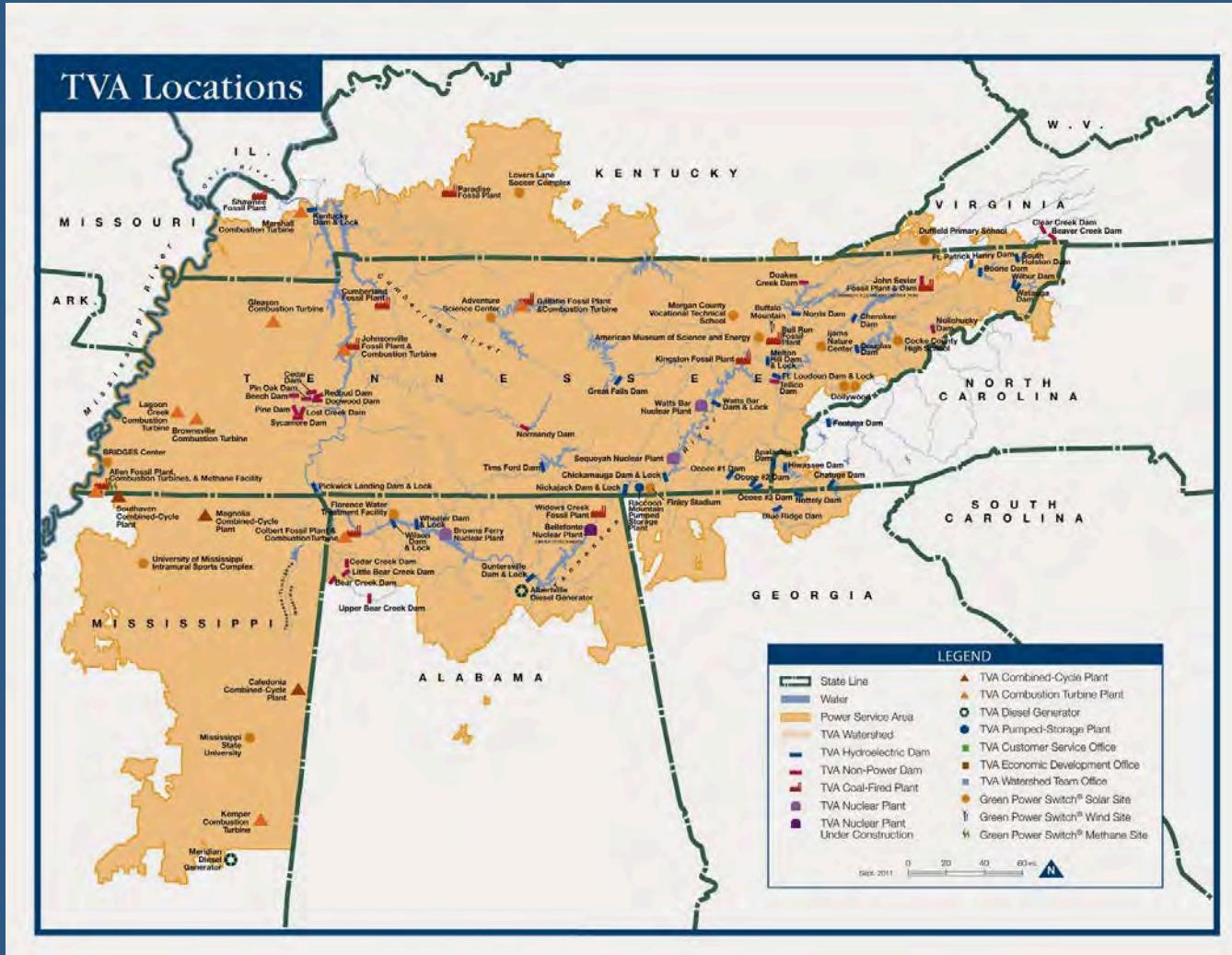
GD0201 (WD 84) – near
Paris Landing State Park,
TN (DLG)



FB1742 (X 46 RESET) –
Sevierville, TN (GDS)

TENNESSEE VALLEY AUTHORITY (TVA) MAP

A Federally Owned U.S. Corporation



TN
KY
MS
AL
GA
NC

U.S. DEPARTMENT OF AGRICULTURE

U.S. DEPT. OF AGR.
FOREST SERVICE



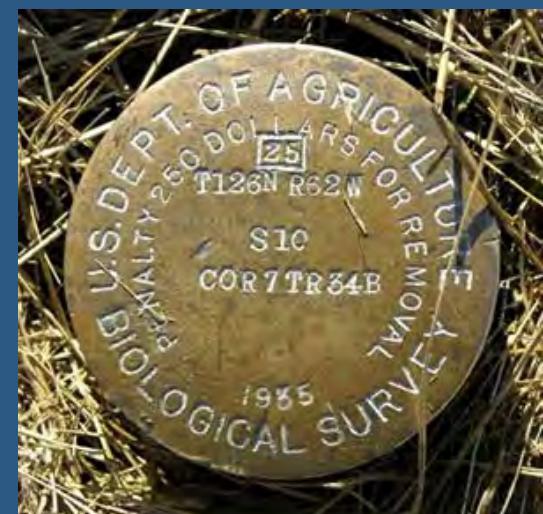
PID, DESIGNATION and
location Unknown – (INT)

U.S. DEPT. OF AGR.
BUREAU OF PUBLIC ROADS



PID, DESIGNATION and
location Unknown – (INT)

U.S. DEPT. OF AGR.
BIOLOGICAL SURVEY



PID, DESIGNATION and
location Unknown – (INT)

STATE INSTALLED DISK MARKS

Some States and State Departments install their own markers independent of or in cooperation with NGS but reporting marks to NGS. A few states are very active with their own marker programs including North Carolina, South Carolina, and Minnesota.

ARIZONA



CH4654 (80 133 8 RM 1) –
near Phoenix, AZ (RJS)



CZ1542 (1762.33) –
Wymola, AZ (RJS)



CH5375 (SAGU RM 2) –
near Phoenix, AZ (RJS)

CALIFORNIA



EU0431 (VICTORY) – Old
Dale, CA (RJS)

COLORADO

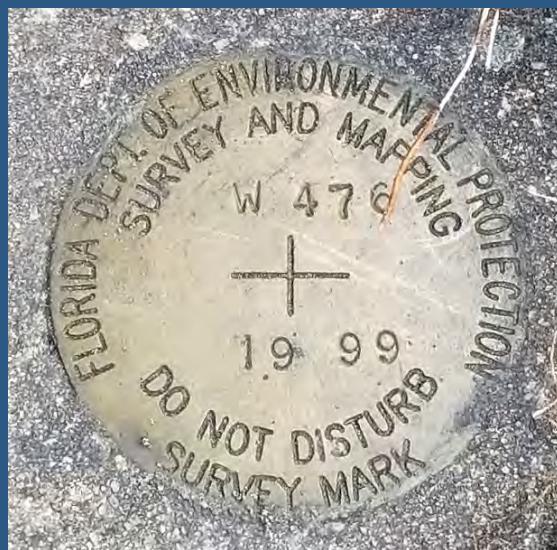


DM9841 (CS 109) - near
Monument, CO (CAC)

FLORIDA



DL5711 (780099B) – Vilano Beach, FL (TJH)



DE6742 (W 476) – near Daytona Beach, FL (BSM)



DM5039 (V 726) – Venice, FL (TJH)

INDIANA



HZ0794 (SWIT S 9) – NE
of Patriot, IN (TJH)

NEW JERSEY



DO2066 (RIVERTON) – in Riverton,
PA across Delaware river from
Belvidere, NJ (TJH)

NORTH CAROLINA – “Bench Marks”



DL7560 (WAK 109) –
Raleigh, NC (GDS)



AE5231 (GRA 43) – near
Creedmore, NC (GDS)



FY1819 (GRA 18) –
Oxford, NC (GDS)

NORTH CAROLINA TRIANGULATION-TRAVERSE STATION DISKS

Raised
Symbol



Surface
Symbol



These disks are similar to Traverse Station disks but indicate that the disk was positioned by triangulation and/or traverse surveying methods. All of the examples here are North Carolina Geodetic Survey disks. Each disk is stamped with “TRIANGULATION-TRAVERSE STATION” with a large triangle in the center.

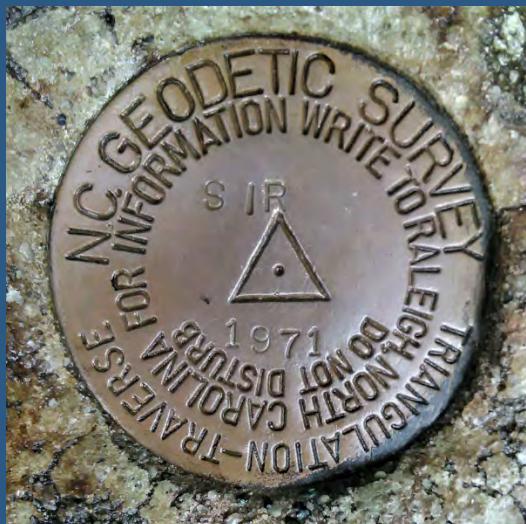
NORTH CAROLINA

TRIANGULATION-TRAVERSE STATION DISKS

“Triangle Symbol on Disk Surface”



FA1961 (RUSS) – near
Richfield, NC (CAC)



EZ3976 (SIR) – near
Farmer, NC (CAC)

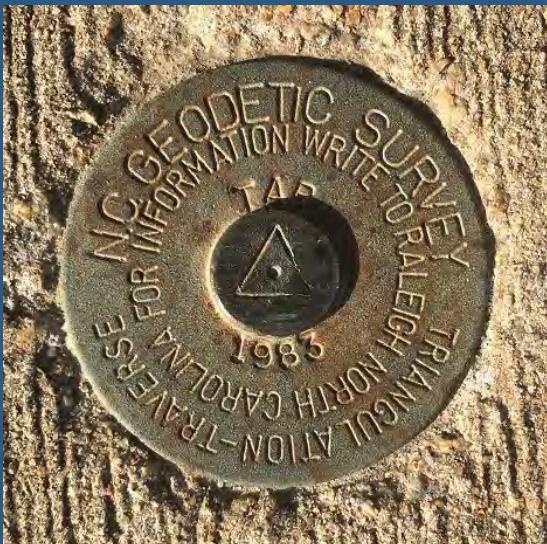


EZ2288 (DISCOUNT) - near
Randleman, NC (CAC)

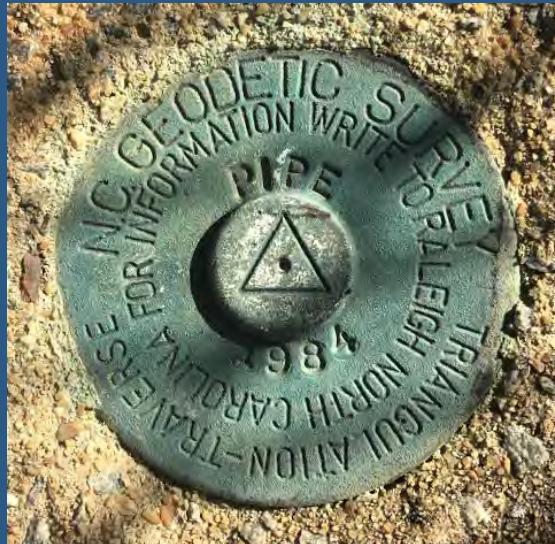
NORTH CAROLINA

TRIANGULATION-TRAVERSE STATION DISKS

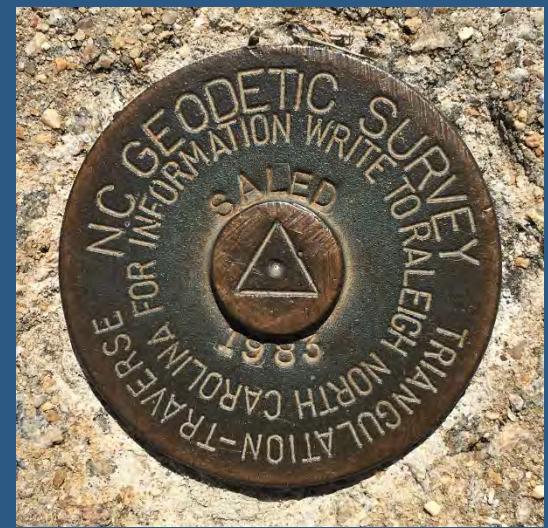
“Triangle Symbol on 7/8” Diameter Raised Center”



AF7980 (TAR) – near
Spring Hope, NC (GDS)



AI5334 (PIPE) – near
Roanoke Rapids, NC (GDS)

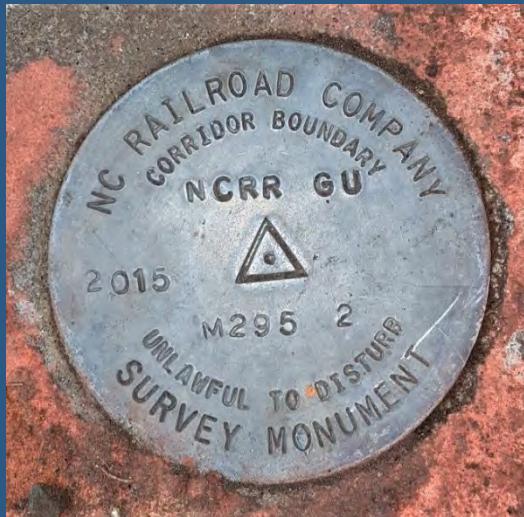


EZ6605 (SALED) –
Raleigh, NC (GDS)

NORTH CAROLINA – N.C. Railroad Co.



DR1443 (NCRR CA E94
3) – Morehead City, NC
(CAC)



DR1194 (NCRR GU
M295 2) – High Point,
NC (MLG)



DR2792 (NCRR DU HO 52 3)
- Durham, NC (MLG)

NORTH CAROLINA – Other Marks (1)



AC7388 (SOLAR) –
Raleigh, NC (GDS)

EZ2434 (19 JS 1) -
Wendell, NC (GDS)

DI3832 (CESF 1) - Clayton,
NC (GDS)

NORTH CAROLINA – Other Marks (2)



EZ5324 (NC 9) – Holly Springs, NC (GDS)

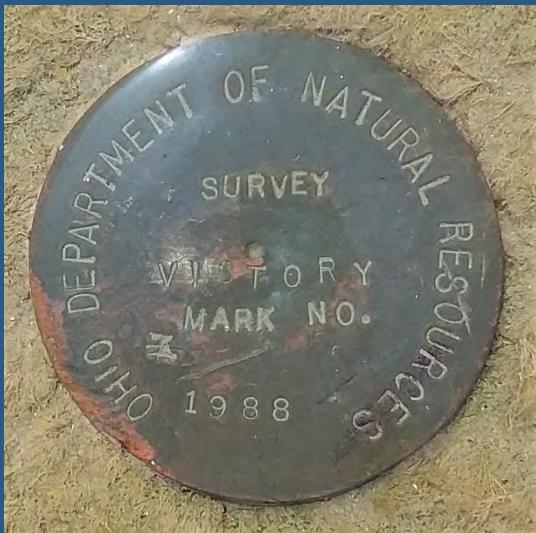


FY1346 (NC 467) – near Monroeton, NC (CSB)



EZ0080 (NC 36 AZ MK) – Wendell, NC (GDS)

OHIO



MC1588 (VICTORY) – South Bass Island, OH (TJH)



MB1076 (Z 161) – Huntsburg, OH (JTH)



HY1975(88) – Maysville, OH (JTH)

OREGON



AE4434 (N 437) –
Tillamook, OR (JVH)



AE4437 (S 437) – near
Tillamook Airport, OR
(JVH)



RD1911 (TIL) – south of
Tillamook, OR (JVH)

PENNSYLVANIA



**KV6132 (POOL AZ MK 1) –
Hatfield Township, PA (TJH)**

SOUTH DAKOTA



AC5695 (385 036.89) –
Hot Springs, SD (MLG)

SOUTH CAROLINA - 1



DD1662 (026 055 AZ MK 1)
– Myrtle Beach, SC (DLT)



EB4231 (21 010) –
Danwood, SC (DAF)



DE1525 (SANTEE DAM 152)
– Lake Marion, SC (DAF)

SOUTH CAROLINA - 2



DL6076 (NONNAIR) –
near Effingham, SC (DAF)



DD3524 (5330) –
Myrtle Beach, SC (TJH)



DM3303 (POLE YARD) –
North Santee, SC (DLT)

VIRGINIA



DN4396 (89 0179) -
Stafford, VA (CAC)

WISCONSIN

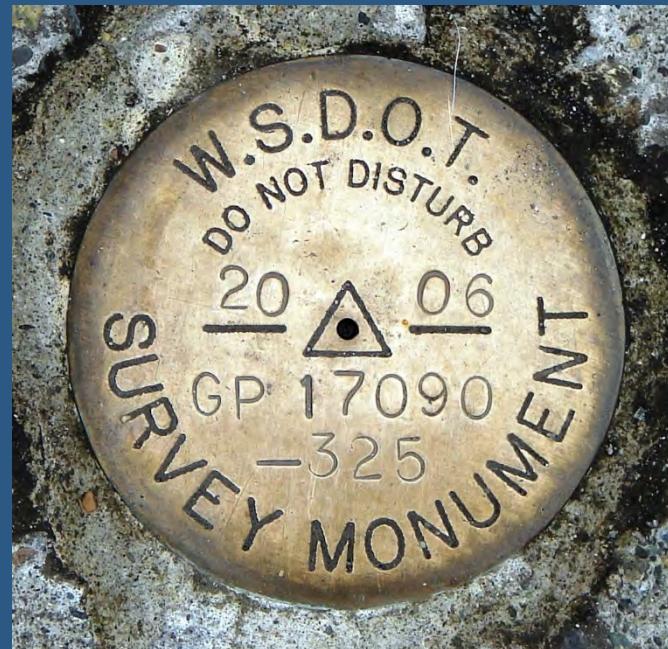


DG4855 (DELAFIELD N
GPS) – Hartland, WI
(TJH)

WASHINGTON STATE



DI8402 (KATELYN) –
Raymond, WA (TJH)

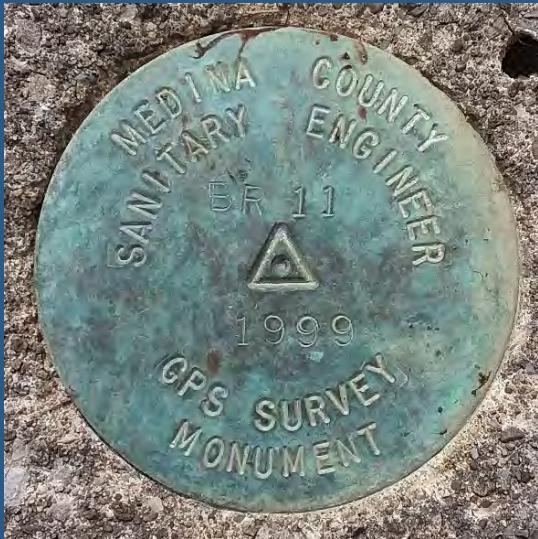


PID Unknown (Internet)

COUNTY, DISTRICT, & CITY INSTALLED DISK MARKS

COUNTY

Disk Examples - 1



DF7223 (BR 11) –
Medina County, OH
(TJH)



MB3045 (BA 112) –
Summit County, OH
(TJH)



MB2646 (81 048 1 P
CO) – Portage County,
OH (TJH)

COUNTY

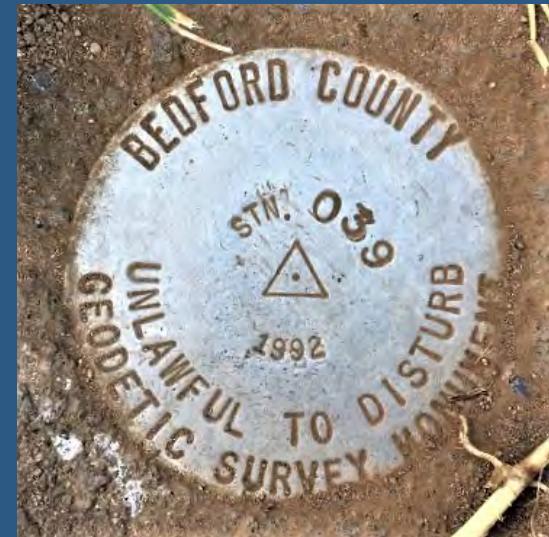
Disk Examples - 2



KY1245 (1183-09) –
Stark County, OH (TJH)



DI8688 (BLACKHAWK) –
Stafford County, VA
(CAC)



GW2611 (BEDFORDED
039) – Bedford County,
VA (GDS)

COUNTY

Disk Examples - 3



DE2898 (PARK RM 1) –
Bedford County, VA
(CAC)



MC1734 (DECANT) –
Lucas County, OH
(TJH)



SY3814 (BN 22) – King
County, WA (BJE)

DISTRICT

Disk Examples



HY1179 (354 B) –
Cincinnati District,
Portsmouth, OH (TJH)



MB1512 (1103) –
Cleveland District,
Lakewood, OH (TJH)

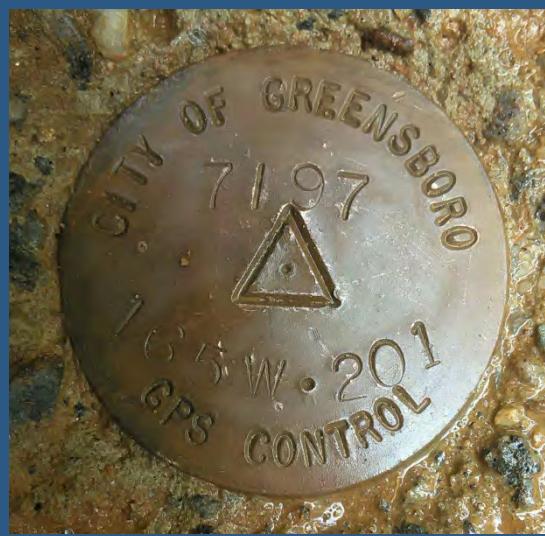


**BW0872 (PBM 1
NATCHEZ CAP) – New
Orleans River District,
Natchez, MS (RBP)**

CITY Disk Examples -1



AC6883 (7) – St. Clairsville,
OH (TJH)

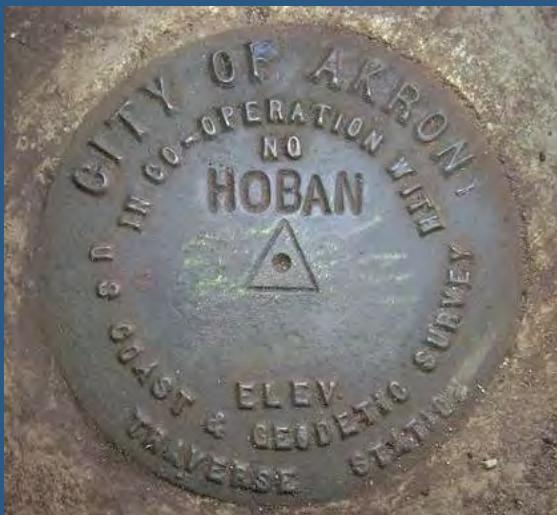


DE9259 (165W 201) –
Greensboro, NC (CAC)



BC0050 (ST MARYS 3)
– St. Marys. GA (TJH)

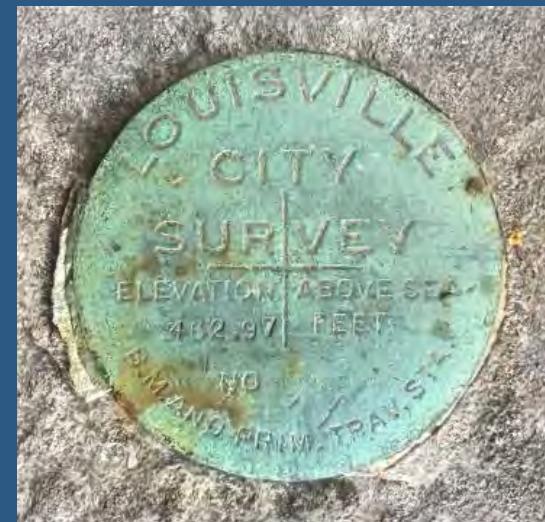
CITY Disk Examples - 2



MB1429 (HOBAN) –
Akron, OH (JTH)
USC&GS Coop Mark



HT0687 (SB 3 4745) –
Bay Area Rapid Transit
(BART), San Francisco,
CA (JTH)



HZ1473
(COURTHOUSE) –
Louisville, KY (GDS)

NON-GOVERNEMENT AGENCY INSTALLED DISK MARKS

“NON-GOVERNEMENT AGENCY”

Disk Examples



DR2792 (NCRR DU
HO52 3) – Durham,
NC (MLG)



AJ4340 (EA 17)- Van
Wyck, SC (CRI)



AA5699 (FRY PAN AZ
MK) – Blue Ridge
Pkwy, Transylvania
County, NC (GDS)

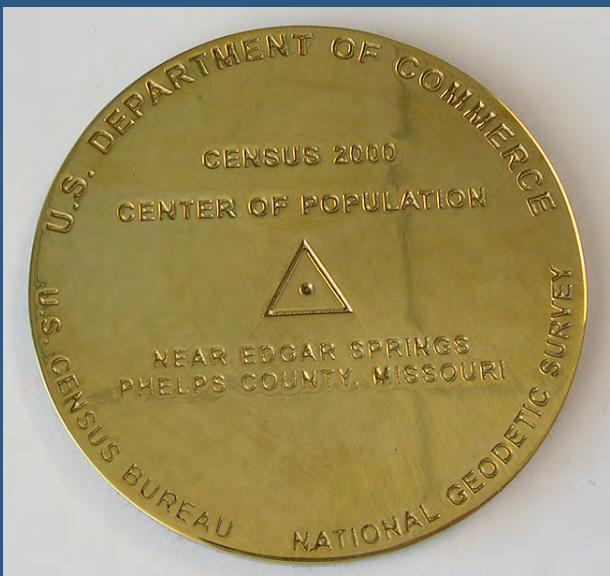
COMMEMORATIVE DISK MARKS

Installed by Various Agencies

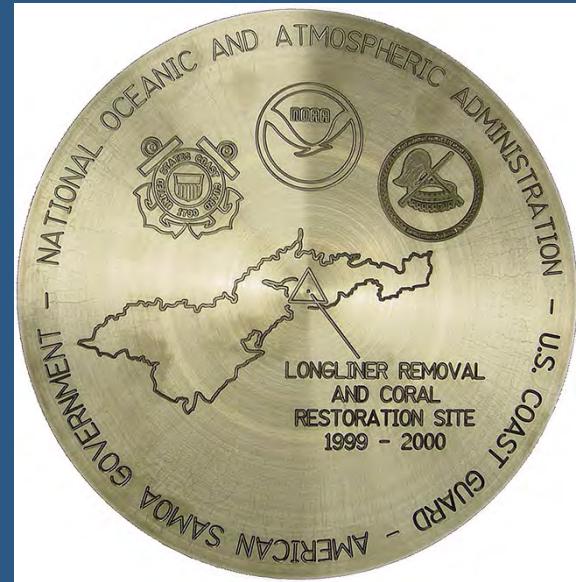
Commemorative Disks



Commemorative Disks



Commemorative Disks



Commemorative Disks



DE5174 (USPS HQ) Raleigh, NC (GS)

N 35° 48' 07.3730", W 078° 42' 24.0728"
GPS Height – 496 ft.