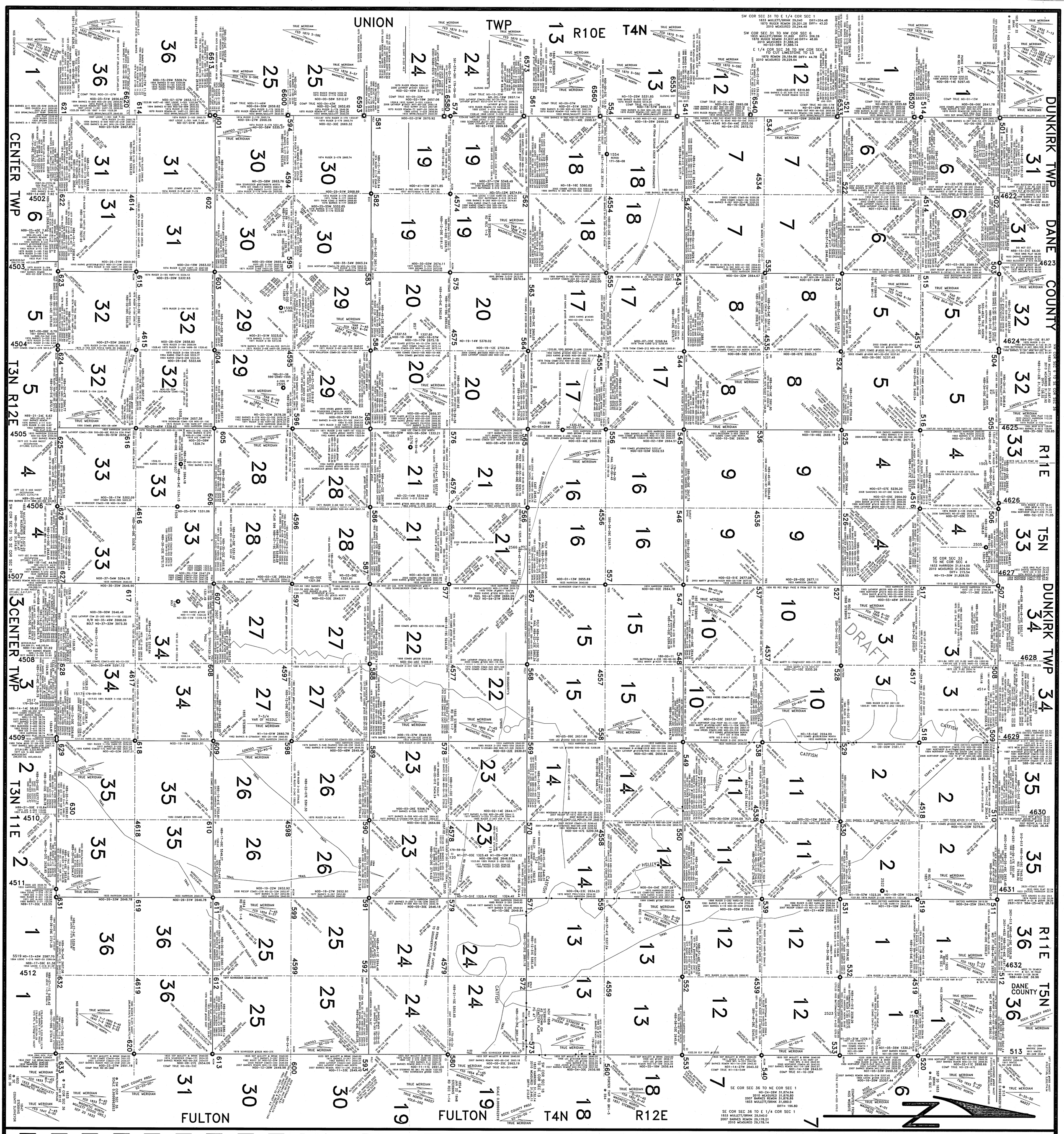

INDEX MAP
MAP 1 OF 6

ARCHIVAL INK
HPC-4871A INK
CARTRIDGE

OVERSIZE ARCH E
1:1020 SCALE
1/2" = 1 MILE

ROCK COUNTY PROJECTIONS

	1992 WCCS	2006 WISCRS
ELLIPSOID	GRS 80	GRS 80
PROJECTION	TRANSVERSE MERCATOR	TRANSVERSE MERCATOR
DATUM	NAD83(1991)	NAD83(1991)
DESIGN ELEVATION	274.321 METERS (900 U.S. FT) 1080FT HIGH, 740FT LOW	NONE
GEOIDAL SEPARATION	-33.65 METERS	
ORIGIN LONGITUDE	-89 04 20 (89.072222222222)	-89 04 20 (89.072222222222)
(RADIANS)	1.55460355004488270	1.55460355004488270
ORIGIN LATITUDE	41 56 40 (41.944444444)	41 56 40 (41.944444444)
(RADIANS)	0.73206868585709876	0.73206868585709876
FALSE EASTING:	146,304.2926 M (480,000FT)	146,304.2926 M (480,000FT)
FALSE NORTHING:	0.00 METERS (0 FEET)	0.0068M (0.022'US)
SCALE FACTOR:	0.999996000	1.00003373110 CENTRAL MERIDIAN
SEMI-MAJOR AXIS:	6,378,377.671M	6,378,137.00M
SEMI-MINOR AXIS:	6,356,992.9851403M	6,356,752.3141M
ECCENTRICITY:	0.08181764930486679	
FLATTENING:	298.2684764624123	

APPROXIMATE RATIOS

LOCATION	RATIO	LOCATION
RURAL (WORST):	1:100,000	SEC 22,T3NR12E
	HIGH POINT NW Of Janesville; elev 1020 ft	
URBAN:	1:188,000	JANESVILLE CITY

APPROXIMATE WEST MOST COORDINATE(X) = 400,000FT
APPROXIMATE SOUTH MOST COORDINATE(Y) = 200,000FT
1 Meter = 3.28083333333 U.S. Survey Foot
1 Meter = 3.28083989501 International Foot
Designed by Dr. Nancy von Meyer for WIDOT

GENERALLY, I DID NOT ATTEMPT TO LOCATE THE INTERIOR PLSS CORNERS. DUE TO HISTORICAL ALLOWABLE & ACCEPTABLE FIELD ERRORS & VARIATIONS IN THE STATE LAWS MANY OF THE CENTER OF SECTIONS ARE NOT BASED ON THE INTERSECTION OF THE QUARTER LINES. ALSO MANY OF THE 1/16TH CORNERS ARE NOT ON A STRAIGHT LINE BETWEEN THE SECTION & QUARTER CORNERS THUS CREATING ANGLE POINTS ON THE PLSS LINES. THEREFORE THE SHOWN BEARINGS & DISTANCES ARE BETWEEN EXISTING MONUMENTS & DO NOT NECESSARILY REPRESENT THE PLSS LINE. MAPPED INTERIOR FOUND MONUMENTS MAY OR MAY NOT BE THE CORNER BUT ARE SHOWN FOR COMPUTATIONAL PURPOSES & PRESERVATION. THEY ARE NOT ACCEPTED NOR REJECTED

SURVEYOR AFFIDAVIT

[PORTER NOTES]

SURVEYED OCT 29th/NOV 4th 1833
[IN FIELD NOTES]
I DO HEREBY CERTIFY THAT IN PURSUANSE OF A CONTRACT WITH MR. L. WILLIAMS ESQO. SURVEYOR GENERAL OF THE UNITED STATES FOR STATES OF OHIO, INDIANA, AND THE TERRITORY MICHIGAN BEING DATE THIS 15TH DAY OF NOV. 1834, AND IN STRICT CONFORMITY WITH THE LAWS OF THE UNITED STATES AND THE INSTRUCTIONS OF SAID SURVEYOR GENERAL. I HAVE SURVEYED AND SUBDIVIDED INTO SECS. FURTHER CERTIFY THAT THE FOREGOING ARE THE TRUE AND ORIGINAL FIELD NOTES OF SAID SURVEY & SUBDIVISION MADE AS AFORESAID CERTIFIED THIS FEBRUARY 16, 1834
GEORGE W. HARRISON
DEPUTY SURVEYOR
HIRUM Mc MALLOW?} CHAINMAN
PHILIP McLEER
PETER B (X) BEER} MARKER

GIS

LAND RECORDS FUNDS WERE USED TO ACQUIRE:
THE GPS, GIS, & SURVEY SOFTWARE
HARDWARE, HP DESINGJET 4500 PLOTTER, & PAPER

CIRCUIT COURT [UNION TWP] OF ROCK COUNTY CERTIFICATE

ON THIS 28TH DAY OF JAN. 1871 PERSONNALLY APPEARED BEFORE ME THE ABOVE NAMED EDWARD RUGER, TO ME WELL KNOWN, AND ON OATH DECLARED THAT HE MADE THE ABOVE AND FOREGOING STATEMENT SIGNED BY HIM & THAT THE FACTS & FIGURES THEREIN STATED ARE TRUE TO THE BEST OF HIS KNOWLEDGE AND BELIEF.
M.M. PHILPS, COURT COMMISIONER CIRCUIT COURT COUNTY OF ROCK

UNION TWP OF SUPERVISORS CERTIFICATE

WE THE SUPERVISORS OF THE TOWN OF UNION, HEREBY CERTIFY THAT AT THE ANNUAL TOWN MEETING HELD IN SAID TOWN IN THE YEAR 1870, A MAJORITY OF THE QUALIFIED ELECTORS OF SAID TOWN VOTED IN FAVOR OF THE ERECTION OF PERMANENT LAND MARKS THEREIN, & THAT BY VIRTUE OF SAID VOTE & POWERS IN US VESTED BY THE LAWS OF WI, WE ENTERED INTO CONTRACT ON THE _ DAY OF _ 1870 WITH EDWARD RUGER, DEPUTY COUNTY SURVEYOR OF ROCK COUNTY, FOR THE SURVEY OF SAID TOWN & ERECTION OF

PERMANENT LAND MARKS THEREIN. RECORDED
JUNE 29TH 1871 AT 10:00 O'CLOCK AM
CHAT ?? STARK REGISTER

SURVEYOR'S AFFIDAVIT

[WEST,SOUTH,NORTH, & EAST TWP BNDY.]
PERSUANCE TO A CONTRACT WITH AND INSTRUCTIONS FROM M.T. WILLIAMS ESQ. SURVEYOR GENERAL U. STATES BEARING DATE WE HAVE SURVEYED THE EXTERIOR TOWNSHIP LINES WITHIN MENTIONED AND DO HEREBY CERTIFY THAT THE FOREGOING ARE THE TRUE AND ORIGINAL FIELD NOTES CERTIFIED THIS 30TH DAY OF AUG –SEPT 1834 JOHN MULLETT JOHN BRINK D.S.

GOVERNMENT CERTIFICATE

[MICROFILM OF FIELD NOTES RECEIVED FROM U.S. ARCHIVES]
THE STATE OF WISCONSIN OFFICE OF THE COMMISSIONERS OF THE PUBLIC LANDS SHALL COME, GREETING: JOHN M. ? CHIEF CLERK OF THE LAND OFFICE OF THE STATE OF WISCONSIN, DO HEREBY CERTIFY THAT THE FOREGOING COPY OF THE FIELD NOTES OF THE ORIGINAL GOVERNMENT SURVEY THE EXTERIOR TOWNSHIP LINES WITHIN MENTIONED, EAST OF THE FORTH PRINCIPAL MERIDIAN WISCONSIN, HAS BEEN COMPARED BY ME WITH THE ORIGINAL FIELD NOTES ON FILE IN THIS OFFICE AND REQUIRED BY LAW TO BE KEPT IN THIS OFFICE, AND THAT THE SAME IS A TRUE COPY THEREOF AND OF THE WHOLE OF SUCH ORIGINAL. THIS COPY IS MADE IN ACCORDANCE WITH CHAPTER 177 LAWS OF 1885. FOR THE REASON THAT THE RECORD IS BECOMING ILLEGIBLE BY AGE. IN TESTIMONY WHEREOF I HAVE HEREONTO SET MY HAND AND AFFIXED THE OFFICIAL STATE OF THE COMMISSIONERS OF THE PUBLIC LANDS AT THE CAPITOL, IN THE CITY OF MADISON, THIS THIRD DAY OF JANUARY A.D. 1891 JOHN M E??? CHIEF CLERK

1833 GENERAL INSTRUCTION

SEE SPRAGUE'S MANUAL PAGE 42 IN REFERENCE TO INSTRUCTIONS REGUIREMENT FOR WEST & NORTH BOUNDARY WHERE THE CLOSING LINES DO NOT INTERSECT ADJOINING TOWNSHIP MONUMENT.
IN SUCH CASE THE SURVEYOR MUST SET A POST AND TAKE BEARING TREES.

SURVEYOR'S CERTIFICATE

[UNION TWP T4N R10E; WEST BNDY.] PG 58 OF UNION REMON. NOTES
I HEREBY CERTIFY THAT IN PURSUANCE OF A CONTRACT ENTERED INTO BY ME WITH THE SUPERVISORS OF THE TOWN OF UNION UNDER THE PROVISIONS OF THE LAWS OF WISCONSIN, THAT I HAVE MADE A CAREFUL SURVEY OF SAID TOWN AND HAVE ERECTED AT THE SECTION AND QUARTER SECTION CORNERS THEREOF PERMANENT LAND MARKS AND THAT THE FOLLOWING IS A TRUE COPY OF THE FIELD NOTES TAKE BY ME IN ALL RESPECTS ACCORDING TO LAW. EDWARD RUGER, COUNTY SURVEYOR
JANESVILLE JAN. 28, 1871 [FIELD NOTES: AUG. 16,1870–SEP 9TH 1870]

LEGEND

FD CUT LIMESTONE
1871 RUGER'S REMON.
CUT LIMESTONE PERPETUATED [WEST TWP LINE]
GPS OBSERVATION ON MON.
ORIGINAL GOV. SURVEYORS STAKE PERPETUATED IN COUNTY SURVEYORS' RECORDS AS FOUND OR EST. BY SOME ORIG. GOV. EVIDENCE
553 PLSS COMPUTER #
12 TWP SEC #
CONTROL PT IN ADJUSTMENT
INV. OF 1992 WCCS PROJ.

STATE OF WISCONSIN COUNTY OF ROCK SS

AS COUNTY SURVEYOR OF THE COUNTY OF ROCK, I HEREBY DECLARE THAT THIS MAP AND REPORT WAS MADE UNDER MY DIRECT SUPERVISION AND DIRECTION AND THE INFORMATION HEREON DRAWN CORRECTLY REPRESENTS SAID SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF.
LAND SURVEYOR'S SEAL
DONALD BARNES, PLS
MAY 1, 2010, PLS #1216
ONLY COPIES SEALED WITH AN EMBOSSED SEAL ARE AUTHENTIC COPIES
RICHARD BRANDT – DEPUTY COUNTY SURVEYOR

COMPUTER PRINTOUTS:

THE HP 1300 WORKSTATION WAS USED TO ADJUST THE MEASURED OBSERVATIONS. ALL THE OBSERVED PROJECT ANGLES AND DISTANCES WERE ADJUSTED BY "CG" SOFTWARE, WHICH WAS WRITTEN BY DR. CHARLES GHILANI & A LEAST SQUARES PROGRAM WHICH, WAS WRITTEN BY DR. BON DEWITT. THE SOFTWARE ADJUSTED THE NETWORK BY THE WEIGHTED LEAST SQUARES METHOD. DIFFERENT PROGRAMS WERE USED BECAUSE OF SLIGHT DIFFERENCES IN THEIR CAPABILITIES OF ANALYZING THE RAW DATA & STATISTICAL OUTPUT. THE PRINTOUTS & OBSERVATION SHEETS ARE FILED IN FILE FOLDERS. THE COMPUTER FILES ARE AS FOLLOWS: SOFTSURV FILE "PORTER" CONTAINS 1,282 STATIONS, 2098 ANGLES, 1,733 DISTANCES, 4 AZMUTHS, & 81 CONTROL POINTS. DEWIT FILE "POR.DAT" CONTAINS THE SAME DATA.

U.S. PUBLIC LAND SURVEY MONUMENT RECORD:

THE U.S. PUBLIC LAND SURVEY MONUMENT RECORDS ARE FILED BY TOWNSHIP. THESE RECORDS DETAIL THE TYPE OF MONUMENT AND HISTORY OF THE CORNER.

REPORT:

THE PROJECT REPORT CONTAINS A DETAILED OUTLINE OF THE PROJECT & IS IN A FILE FOLDER.

THERE ARE 6 LARGE UNSCALED MAPS

1) MAP #1 IS A MAP OF RECORD AND COMPUTED DISTANCES WITH BEARINGS BETWEEN PLS CORNERS. "AUTOCAD" CREATED THE MAP & "CG" SOFTWARE COMPUTED THE INVERSE BETWEEN POINTS.
2) MAPS #2–5 ARE GENERAL DISTANCE TRAVERSE MAPS.
3) MAP #6 IS LIST OF THE STATIONS & THE ADJUSTED COORDINATES.

FILE FOLDERS (12 TOTAL)

1) FILE FOLDER #1 CONTAINS THE TOWNSHIP REPORT
2) FILE FOLDER #2 CONTAINS OBSERVATION SHEETS 1–159
3) FILE FOLDER #3 CONTAINS OBSERVATION SHEETS #160–299
4) FILE FOLDER #4 CONTAINS OBSERVATION SHEETS #300–499
5) FILE FOLDER #5 CONTAINS OBSERVATION SHEETS #500–699
6) FILE FOLDER #6 CONTAINS OBSERVATION SHEETS #700–849
7) FILE FOLDER #7 CONTAINS OBSERVATION SHEETS #850–999

FILE FOLDERS (12 TOTAL)

8) FILE FOLDER #8 CONTAINS OBSERVATION SHEETS #1,000–1,999
9) FILE FOLDER #9 CONTAINS OBSERVATION SHEETS #2,000–5,999
10) FILE FOLDER #10 CONTAINS OBSERVATION SHEETS #6,000–10,000
11) FILE FOLDER #11 CONTAINS "CG" SOFTWARE ADJUSTMENT OF SOFTWARE FILE "PORTER" & THE RAW OBSERVATIONS.
12) FILE FOLDER #12 CONTAINS BON DEWIT ADJUSTMENT OF THE COMPUTER FILE POR.DAT & THE RAW OBSERVATIONS.

1833 MULLETT SOUTH BNDY 31,627.20
2010 MEASURED 31,918.67
2640 PRO 2664.33 DIFF 291.47
1833 MULLETT SW 31-E 1/4 1 29,040.0
WEST BNDY 2010 MEASURED 29,244.48
2640 PRO 2658.59 DIFF 204.45
WEST BNDY 1870 RUGER 31,837.40
SW 31-NW 6 2010 MEASURED 31,886.26
2640 PRO 2644.05 DIFF 48.86
1833 MULLETT NORTH BNDY 31,587.60
2010 MEASURED 31,725.92
2640 PRO 2651.56 DIFF 138.32
1833 MULLETT EAST BNDY 31,680.
2010 MEASURED 31,876.80
2640 PRO 2656.40 DIFF 196.80
SW COR SEC 18 TO SE COR SEC 13
1833 HARRISON 31,732.14
2010 MEASURED 31,946.11
2640 PRO 2657.80 DIFF 213.97
SE COR SEC 33 TO NE COR SEC 4
1833 HARRISON 31,614.00
2010 MEASURED 31,829.54
2640 PRO 2657.80 DIFF 215.54

STATE OF WISCONSIN PORTER TWP T4N R11E ROCK COUNTY