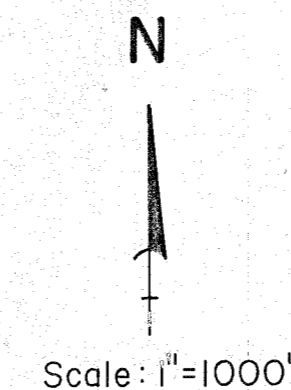


SURVEY MAP
T 30 831N-R6W
ANTRIM COUNTY, MICHIGAN

SURVEY REPORT
(FOR PART OF T. 30831 N., R. 6 67 W.; SURVEY PROJECT #73-11, SHEETS 1 & 2 OF 2)



PURPOSE

SURVEY WAS INITIATED IN 1966 ALONG THE THIRD CORRECTION LINE FOR FORESTRY DIVISION FOR THE PURPOSE OF IDENTIFYING CERTAIN STATE-OWNED LANDS IN THE VICINITY OF GRAVES CROSSING ON THE JORDAN RIVER (PROPOSED STATE FOREST CAMPGROUND), PART OF SEC. 32, T. 31 N., R. 6 W., AND THE NEED FOR GOVERNMENT CORNERS IN THIS AREA FOR FOREST MANAGEMENT. ENOUGH SURVEYING WAS ACCOMPLISHED AT THIS TIME FOR THE CAMPGROUND DEVELOPMENT NEEDS, WITH CONSIDERABLE RANDOM LINE WORK RUN ON THE THIRD CORRECTION LINE, WITH FEW CORNERS RECOVERED; SAID PROJECT SUSPENDED FOR LACK OF PERMANENT SURVEY HELP, SUMMER 1966. THE WORK COMPLETED THUS FAR WAS BY FRED C. WAGENSCHUTZ AND CREW UNDER THE SUPERVISION OF R.L.S. KEN OSTLING.

GOVERNMENT CORNER CONTROL WAS STILL NEEDED IN THIS AREA AND IN 1973 THE SURVEY PROJECT WAS REACTIVATED WITH FRED C. WAGENSCHUTZ WITH PERMANENT SURVEY CREW DOING THE WORK UNDER THE SUPERVISION OF R.L.S. CARL ROSER; SAID FIELD WORK BEING ACCOMPLISHED ON A VERY INTERMITTENT BASIS FROM 1973 TO 1976. LAND CORNER RECORDATION CERTIFICATES WERE RECORDED WITH THE ANTRIM COUNTY REGISTER OF DEEDS ON FEBRUARY 20, 1977.

PREVIOUS SURVEYS OF RECORD (THAT COULD BE LOCATED BY THIS SURVEYOR)

T. 30 N., R. 6 W.: U.S. GOVT. SURVEY (G.L.O.) TWP. LINES AND TWP. SUBDIVISION 1839. DEPENDENT RESURVEY OF T. 30 N., R. 6 W., BY COUNTY SURVEYOR EDWARD HEBDEN IN 1877. M-66 M.S.H.D. FILE NO. U-3-5, STATE PROJECT #5-21, SHEETS 4 & 7 DATED 1956, BUT LOOKS LIKE 1931 PLANS UPDATED FOR BASE REPAIRS & 22' BIT. AGG. SURFACE; SHOWING TIES W TO W/4 SEC. 8 & E TO E/4 SEC. 8. SURVEY OF SEC. 8 BY FINDORFF 1967.

T. 31 N., R. 6 W.: U.S. GOVT. SURVEY (G.L.O.) 1839. U.S. GOVT. RESURVEY (G.L.O.); SOUTH BOUNDARY OF TWP. (THIRD CORRECTION LINE) AND SUB'N. OF TWP. 1856. SECTION 21, SEC. SUB'N., B.L. CAUKIN 1905.

M-66, M.S.H.D. PLANS, SHEETS 11 & 13, R.O.W. CHECK 1935±; 1/4 CORNER TO SEC. 29 & 32 AND NW CORNER SEC. 29. COUNTY ROAD COMM. PLANS, ADAMS ROAD (OLD STATE ROAD), FROM M-66 ELY TO NE CORNER SEC. 29, FED. PROJ. 5616(3), STATE PROJECT C55-38, SHEETS 3-4-5, 1956.

SOUTH LINE SEC. 33, 34, 35 & 36 (THIRD CORRECTION LINE) INCL. CLOSING CORNERS (T. 30 N., R. 6 W.), DEPARTMENT SURVEY 1962, KEN OSTLING, R.L.S. LATE 1960'S AND EARLY 1970'S. SURVEY OF PART OF SW/4 SEC. 33, R.L.S. COREY HUGHES, 1974.

T. 30 N., R. 7 W.: U.S. GOVT. SURVEY (G.L.O.) 1839. U.S. GOVT. RESURVEY (G.L.O.) TWP. SUBDIVISION 1855. SURVEYS BY COUNTY SURVEYOR FRANK S. CHURCH; PART OF SW/4 SEC. 1 (1909), SEC. 3 (SEC. SUB'N. 1909 & 1911) AND SEC. 11 (SEC. SUBDIVISION 1907). R.L.S. TED MILLER FD. 1/2 RERO FOR W/4 SEC. 11, BUT WE FOUND CHURCH'S W/4 SEC. 11 DATED 1907 (SEE CORNER RECORD & SURVEY MAP) AND NW CORNER SEC. 11 FD. BY MILLER & SET ANTRIM COUNTY MONUMENT 1965 & 1966.

T. 31 N., R. 7 W.: U.S. GOVT. SURVEY (G.L.O.) 1839. U.S. GOVT. RESURVEY (G.L.O.) TWP. SUBDIVISION 1857. SURVEYS BY COUNTY SURVEYOR FRANK S. CHURCH; SEC. 25 (SEC. SUB'N. 1888) AND SEC. 35 (SEC. SUB'N. 1887).

CONTROLLING CORNERS

THE BASIC PROBLEM CONFRONTED BY THIS SURVEY WAS RESTORATION OF THE THIRD CORRECTION LINE BETWEEN THE SE CORNER OF SEC. 32 (T. 31 N., R. 6 W.) AND THE NE CORNER OF SEC. 3 (T. 30 N., R. 7 W.). THIS IS A DISTANCE E AND W OF APPROXIMATELY THREE AND ONE-HALF MILES, WITH GOVT. CORNERS BEING NONEXISTENT OR FOR ALL PRACTICAL PURPOSES CONSIDERED "LOST CORNERS". CONVENTIONAL RESTORATION METHODS WOULD CALL FOR A STRAIGHT LINE BETWEEN SAID SE SEC. 32 AND NE SEC. 3; HOWEVER, A REVIEW OF THE RESURVEYS IN T. 31 N., R. 6 W.; T. 31 N., R. 7 W.; AND T. 30 N., R. 7 W., INDICATES SOME VERY DEFINITE DEFLECTIONS OR SKEWS IN THE THIRD CORRECTION LINE. THIS MADE IT NECESSARY TO EXPAND THE RETRACEMENT SURVEY TO SEVERAL MILES NORTH AND SOUTH OF THE THIRD CORRECTION LINE.

Carl F. Roser
CARL F. ROSER, R.L.S. #12028

REVISED: March, 1995; it seems that in 1974 the SW Cor. of Sec. 5, T30N-R6W was calc. to be set double over from SE and SW/4 Cor. of Sec. 5, when the survey crew went to set this cor. they found RLS Bob Findorff iron just 1.3 SW of the calc. position. Findorff's iron was accepted but the Co-ors on the working drawing were not changed so the wrong bearings and distances for 1-mile N & W and 1/2-mile E & S were put on this final Survey Map (the calc. to set the W/4 Cor. S-5 were corrected and the corner was set properly). R.O.H. 3-31-95

Note: With regard to N. line of Sec's 5 & 6 T30N-R6W From G.L.O. Plat (Stobley & Hebdon) 1839, shows 80.00' ± 40.00' ± 43.81' = (163.81 chains). From Hebdon Resurvey of T30N-R6W, 1877 (Notes at Antrim Co. Reg. of Deeds) shows: "North Bdry, Sec. 6, chain East, 80.00' could not find any trace of Corner, 163.80' came to Cor. 4 & 5."

THE THIRD CORRECTION LINE ALONG THE SOUTH LINE OF SEC. 31 & 32 T. 31 N., R. 6 W., WAS RESTORED AS FOLLOWS: ACCEPTED SE SEC. 32, BEING A FOUND AXLE SHAFY BY PREVIOUS DEPT. SURVEY IN 1962. REESTABLISHED THE SW SEC. 31 (SEE M-12 & M-13, T. 31 N., R. 7 W., AT RECORD G.L.O. DISTANCE SOUTH 80 CHAINS FROM NW SEC. 31 AND AT RECORD G.L.O. DISTANCE WEST 155.30 CHAINS FROM SE SEC. 32, PUTTING A RECORD G.L.O. DEFLECTION OF SEVEN MINUTES AT SE SEC. 31. SAID SW SEC. 31 FITS G.L.O. SWAMP EDGE TO NORTH 45 CHAINS ± AND G.L.O. STREAM CROSSING TO WEST 25.5 CHAINS ±. THIRD CORRECTION LINE RESTORATION BY THIS METHOD ALSO FITS DEPENDENT RESURVEY OF T. 30 N., R. 6 W. BY HEBDEN (1877) REMARKABLY WELL; THE NW CORNER OF SEC. 6 BEING REESTABLISHED ON THIRD CORRECTION LINE AT PROPRATED DISTANCE EAST 2 MILES TO HEBDEN (1877) AND WEST 1/2 MILE TO U.S. (1839).

THE THIRD CORRECTION LINE ALONG THE SOUTH LINE OF SEC. 35 & 36, T. 31 N., R. 7 W., AND THE NORTH LINE OF SEC. 3, T. 30 N., R. 7 W., WAS RESTORED AS FOLLOWS: RECOVERED OR RESTORED ALL GOVT. CORNERS OF SEC. 35 (INCLUDING SEC. SUB'N.) PER FRANK CHURCH SURVEYS OF SEC. 35 (1887) AND SEC. 3 (1909 and 1911), AND STRAIGHT LINE THE SOUTH LINE OF SEC. 36 BETWEEN THE SE SEC. 35 AND SE SEC. 36 (SW SEC. 31, T. 31 N., R. 6 W.). THE SW SEC. 35 WAS DEFINITELY REESTABLISHED ON LINE BETWEEN FOUND NE SEC. 3 AND SE SEC. 35, ACCORDING TO F. CHURCH'S SEC. 35 (1887); SEE SW SEC. 35 (J-13). SEC. 3 CORNERS WERE RECOVERED OR RESTORED PER F. CHURCH SURVEY OF SEC. 3 AND THE WEST LINE OF SEC. 1 WAS RESTORED PER F. CHURCH SURVEY OF PART OF SW/4 SEC. 1 (1909) AND G.L.O. RESURVEY (1955). THIRD CORRECTION LINE RESTORATION BY THIS METHOD FITS G.L.O. RESURVEYS IN T. 30 & 31 N., R. 7 W. (N-S MEASUREMENTS) REASONABLY WELL. ANYONE RESTORING ONE-EIGHTH (1/16) CORNERS ONE-QUARTER MILE TO NORTH OR SOUTH OF THE THIRD CORRECTION LINE SHOULD MAKE SPECIAL NOTE THAT THERE ARE FRACTIONAL RUN-OUT FORTIES NOT ONLY SOUTH OF THE THIRD CORRECTION LINE, BUT ALSO NORTH OF THE THIRD CORRECTION LINE (SEE G.L.O. PLAT T. 31 N., R. 7 W., RESURVEY 1857).

OTHER CORNER RESTORATION AS NOTED ON ADJOINING "SURVEY MAP" SHEETS 1 & 2 OF 2 WITH COMPLETE CORNER HISTORY, DESCRIPTION OF MONUMENT AND WITNESSES ON "LAND CORNER RECORDATION CERTIFICATES" PER ACT 74, P.A. 1970, ON FILE AT ANTRIM CO. REGISTER OF DEEDS AND APPROPRIATE DEPT. OFFICES.

ORIGIN OF BEARINGS IS BASED ON KEN OSTLING'S SURVEY OF THIRD CORRECTION LINE, SOUTH LINE SEC. 33-34-35-36 T. 31 N., R. 6 W., DATED 1962; HIS BEARINGS BEING BASED ON TRUE MERIDIAN BY SOLAR OBSERVATIONS; OUR ORIGIN BEING SOUTH LINE SEC. 33: HIS BEARING EQUALS N89°49' W, OURS EQUALS N89°48'30" W. OSTLING'S POINT OF OBSERVATION FOR SOLARS WAS ON RANDOM LINE ON NORTH LINE SEC. 1, T. 30 N., R. 6 W. AS A MATTER OF INTEREST, OUR SURVEY TOOK SOLAR OBSERVATIONS ON M-66 TRAVERSE NEAR SOUTH LINE SEC. 29. THE MEAN OF THESE SOLARS AGREEING WITHIN SIX MINUTES OF OUR BEARING SYSTEM AS PORTRAYED ON ADJOINING SURVEY MAPS. THIS SIX MINUTES WOULD HAVE TO ROTATE COUNTERCLOCKWISE AND FIVE MILES OF CONVERGENCE WOULD EQUAL APPROXIMATELY FIVE MINUTES; THEREFORE ORIGIN OF BEARING AS PORTRAYED ON ADJOINING SURVEY MAPS ARE FOR ALL PRACTICAL PURPOSES BASED ON TRUE MERIDIAN BY SOLAR OBSERVATION ON N LINE SEC. 1, T. 30 N., R. 6 W.

ALL MEASUREMENTS ARE IN FEET AND DECIMALS THEREOF.

UNLESS OTHERWISE SPECIFIED, DNR MONUMENTS CONSIST OF FOUR-INCH ALUMINUM CAP ON ONE-INCH BY THIRTY-SIX INCH PIPE.

CERTIFICATION:
I, HEREBY, CERTIFY THAT THE MAP DELINEATED HEREON IS A TRUE REPRESENTATION OF THE FINDINGS OF THIS SURVEY, AND THAT THE MONUMENTS FOUND OR ESTABLISHED AND MEASUREMENTS MADE ARE AS SHOWN THEREON.

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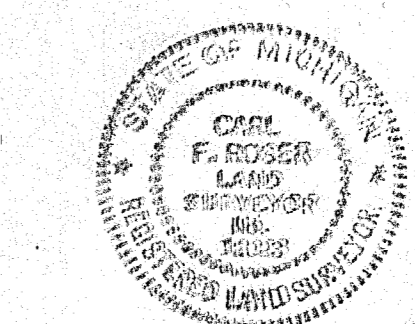
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SHEET 1 of 2 Retracment Survey

MICHIGAN DEPARTMENT OF NATURAL RESOURCES ENGINEERING REGION II	
PROJECT	T 30N-R6W, SEC'S 5-6-7-8-B
	T 31N-R6W, SEC'S 29-31-32-33
LOCATION	ANTRIM COUNTY, MICHIGAN
DIVISION	FORESTRY PROJECT NO. 73-11
SURVEY BY	C.F. Roser DATE 5-16-77
DRAWN BY	R.O.H. DATE Interim Intermittent 1976 thru April 1977
FIELD BY	F. Wagenschutz & Crew, Intermittent 1966 & 1973 thru 1976



PLAN NO. R-5-I-1