

PURPOSE OF SURVEY

I HEREBY CERTIFY THAT THE PURPOSE OF THIS SURVEY IS TO RETRACE THE BOUNDARY OF AN EXISTING PARCEL AND THAT NO NEW OR ADDITIONAL PARCELS ARE HEREBY CREATED. THEREFORE, THIS SURVEY IS EXEMPT FROM REVIEW AS A SUBDIVISION UNDER BOTH THE MONTANA SUBDIVISION AND PLATTING ACT AND THE MONTANA SANITATION IN SUBDIVISIONS ACT.

LEGAL DESCRIPTION OF PRIVATE OWNERSHIP

H.E.S. NO. 274, 280, 409, 450 AND 495, LOCATED IN SECTIONS 1, 2, 3 AND 4, IN UNSURVEYED TOWNSHIP 35 NORTH, RANGE 32 WEST, P. M., MT. LEGAL DESCRIPTION OF NATIONAL FOREST SYSTEM LANDS ALL LANDS IN SECTIONS 1, 2, 3 AND 4, SOUTH OF H.E.S. NO. 274, 280, 409, 450 AND 495 AND LESS THAT PORTION OF H.E.S. 452 IN SECTION 3, LOCATED IN UNSURVEYED TOWNSHIP 35 NORTH, RANGE 32 WEST, P. M., MT.

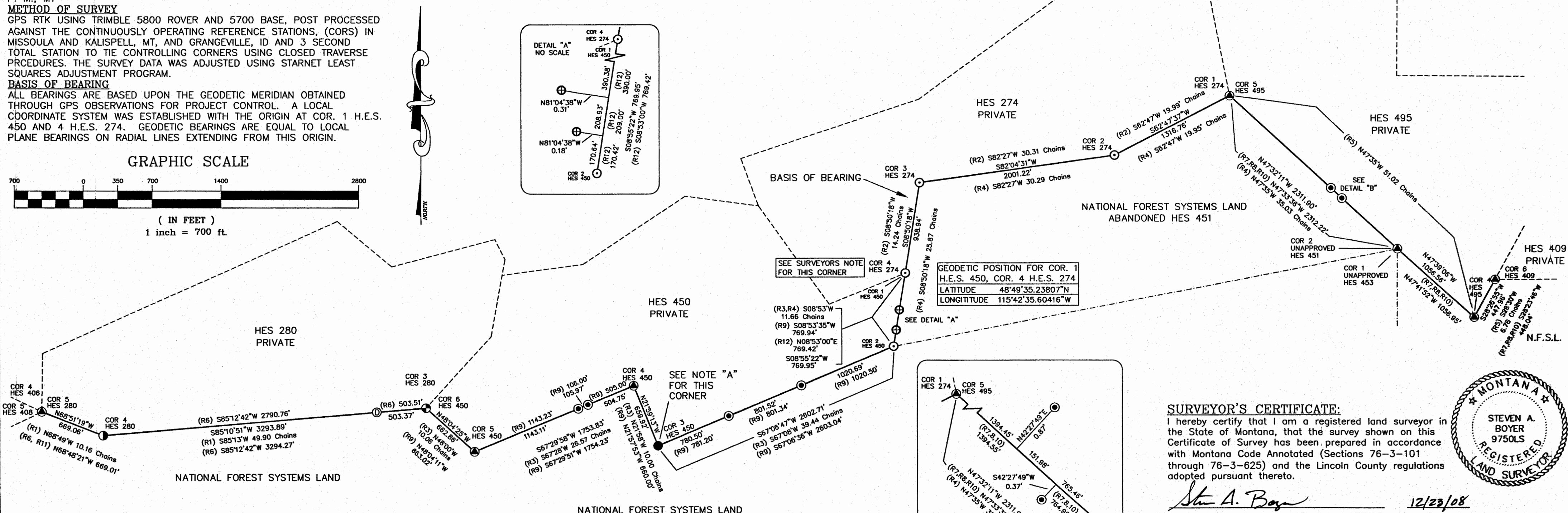
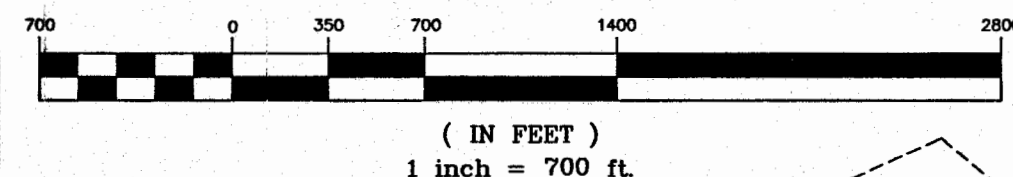
METHOD OF SURVEY

GPS RTK USING TRIMBLE 5800 ROVER AND 5700 BASE, POST PROCESSED AGAINST THE CONTINUOUSLY OPERATING REFERENCE STATIONS, (CORS) IN MISSOULA AND KALISPELL, MT, AND GRANGEVILLE, ID AND 3 SECOND TOTAL STATION TO TIE CONTROLLING CORNERS USING CLOSED TRAVERSE PROCEDURES. THE SURVEY DATA WAS ADJUSTED USING STARNET LEAST SQUARES ADJUSTMENT PROGRAM.

BASIS OF BEARING

ALL BEARINGS ARE BASED UPON THE GEODETIC MERIDIAN OBTAINED THROUGH GPS OBSERVATIONS FOR PROJECT CONTROL. A LOCAL COORDINATE SYSTEM WAS ESTABLISHED WITH THE ORIGIN AT COR. 1 H.E.S. 450 AND 4 H.E.S. 274. GEODETIC BEARINGS ARE EQUAL TO LOCAL PLANE BEARINGS ON RADIAL LINES EXTENDING FROM THIS ORIGIN.

GRAPHIC SCALE



NOTE "A": IN 1982 J. H. NINNEMAN, MT REG. NO. 4661S, SETS A 5/8" CAPPED REBAR FOR CORNER NO. 3 H.E.S. 450 AND ESTABLISHES ONE BEARING TREE. HE STATES ON HIS CERTIFIED CORNER RECORDATION THAT THE ORIGINAL CORNER (STONE) AND ITS ACCESSORIES (MOUND OF EARTH) WERE DESTROYED. I CAN FIND NO EXPLANATION OF THE METHOD USED TO REESTABLISH THIS CORNER ON HIS CERTIFIED CORNER RECORDATION. UPON EXAMINING HIS CERTIFICATE OF SURVEY NO. 1018, IT APPEARS A RECORD DISTANCE-DISTANCE INTERSECTION FROM CORNERS 2 AND 4 H.E.S. 450 WAS USED TO DETERMINE THE POSITION FOR CORNER 3. I DETERMINED THIS TO BE AN INCORRECT PROCEDURE AND CALCULATE THE POSITION FOR THIS CORNER USING THE GRANT BOUNDARY METHOD AS STATED IN THE 1973 B.L.M. MANUAL OF SURVEYING INSTRUCTIONS, CHAPTER 5-44. I FIND NO ORIGINAL EVIDENCE FOR THIS CORNER AS THE POSITION FALLS IN A ROAD. USING THE BEARING AND DISTANCE FROM THE FOUND NINNEMAN BEARING TREE, AS STATED ON HIS CORNER RECORDATION, I ESTABLISH A POSITION FOR CORNER 3, N73°W, 5.6' DIST. FROM MY CALCULATED POSITION. I THEREFORE DO NOT ACCEPT THE NINNEMAN POSITION.

SURVEYOR'S CERTIFICATE

I hereby certify that I am a registered land surveyor in the State of Montana, that the survey shown on this Certificate of Survey has been prepared in accordance with Montana Code Annotated (Sections 76-3-101 through 76-3-625) and the Lincoln County regulations adopted pursuant thereto.

Steven A. Boyer, Montana Reg. No. 9750LS

12/23/08
Date



Kootenai National Forest, 31374 US HWY 2, Libby, Mt. 59923

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE NORTHERN REGION
KOOTENAI NATIONAL FOREST
LINCOLN COUNTY, MONTANA

DEPENDENT RESURVEY & RETRACEMENT

OF H.E.S. 274, 280, 450 AND 495
LOCATED IN UNSURVEYED SECS. 1, 2, 3 AND 4
T. 35 N., R. 32 W., P.M., MT.

FOREST SUPERVISOR'S CERTIFICATE

This survey was made at my request for National Forest management purposes.

Paul Bradford, Forest Supervisor, 12-24-08
Date

CERTIFICATE OF LINCOLN COUNTY EXAMINING SURVEYOR:

Ronald A. Pearson, Examining Surveyor, Reg. No. 9008LS, Jan. 2, 2009
Date

CERTIFICATE OF EXAMINING OFFICIAL:

Examining Official, Date

CERTIFICATE OF CLERK AND RECORDER:

216381 BOOK: CS SURVEYS PAGE: 3904 Pages: 1

STATE OF MONTANA LINCOLN COUNTY

RECORDED: 01/09/2009 9:09 KOI: CERT/SURVE

TAMMY D. LAUER CLERK AND RECORDER

FEE: \$0.00

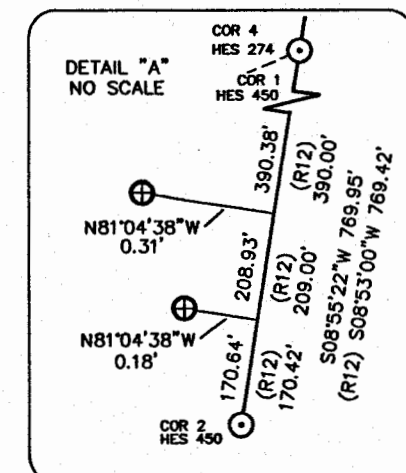
TO: US FOREST SERVICE 3101 HWY 2 WEST, LIBBY, MONTANA 59923

Dec 21/08
CERTIFICATE OF SURVEY NO. 3904

SHEET 1 OF 1

CERTIFICATE OF SURVEY DEPENDENT RESURVEY & RETRACEMENT

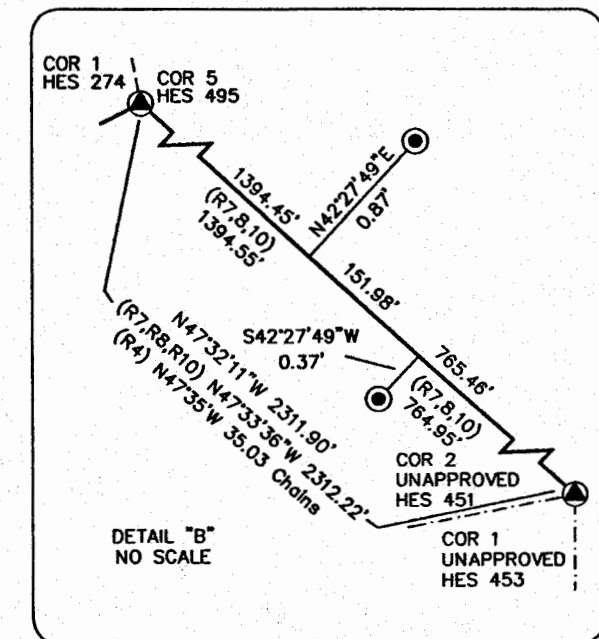
H.E.S. No's. 274, 280, 450 and 495
LOCATED IN SECS. 1, 2, 3 and 4,
OF UNSURVEYED T. 35 N., R. 32 W., P.M., MT.
KOOTENAI NATIONAL FOREST
LINCOLN COUNTY, MONTANA, NOVEMBER 2008



BASIS OF BEARING

SEE SURVEYOR'S NOTE FOR THIS CORNER

GEODETIC POSITION FOR COR. 1
H.E.S. 450, COR. 4 H.E.S. 274
LATITUDE 48°49'35.23807"N
LONGITUDE 115°42'35.60416"W



GEODETIC POSITION COR. 1 H.E.S. 450, COR. 4 H.E.S. 274

THE NAD83 (CORS96) (EPOCH:2002.0000) LATITUDE AND LONGITUDE WAS DETERMINED BY POST PROCESSING A SURVEY GRADE (TRIMBLE 5700) GLOBAL POSITIONING SYSTEM (GPS) DATA FILE USING THE NATIONAL GEODETIC SURVEY (NGS) ON-LINE POSITIONING SERVICE (OPUS). THE FILE WAS PROCESSED WITH RESPECT TO STATIONS MISSOULA, KALISPELL, MT AND GRANGEVILLE, ID. THROUGH REAL TIME KINEMATIC SURVEY (RTK), THE POSITION IS ESTIMATED TO BE WITHIN 7 CM. AT 95% CONFIDENCE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).

HISTORY OF SURVEYS

- (R1) 1914, ORIGINAL U.S.F.S. SURVEY OF H.E.S. 280, LOCATED IN TOWNSHIP 35 NORTH, RANGE 32 WEST, BY ELMER R. JOHNSON
- (R2) 1914, ORIGINAL U.S.F.S. SURVEY OF H.E.S. 274, LOCATED IN TOWNSHIP 35 NORTH, RANGE 32 WEST, BY ELMER R. JOHNSON
- (R3) 1915, ORIGINAL U.S.F.S. SURVEY OF H.E.S. 450, LOCATED IN TOWNSHIP 35 NORTH, RANGE 32 WEST, BY FRED E. THIEME
- (R4) 1915, ORIGINAL U.S.F.S. SURVEY OF H.E.S. 451, LOCATED IN TOWNSHIP 35 NORTH, RANGE 32 WEST, BY FRED E. THIEME
- (R5) 1915, ORIGINAL U.S.F.S. SURVEY OF H.E.S. 495, LOCATED IN TOWNSHIP 35 NORTH, RANGE 32 WEST, BY FRED E. THIEME
- (R6) 1978, CERTIFICATE OF SURVEY NO. 517 BY CHARLES N. DOYLE, MT REG. NO. 2516S
- (R7) 1981 CERTIFICATE OF SURVEY NO. 970 BY J. H. NINNEMAN MT REG. NO. 4661S
- (R8) 1981 CERTIFICATE OF SURVEY NO. 974 BY J. H. NINNEMAN MT REG. NO. 4661S
- (R9) 1982 CERTIFICATE OF SURVEY NO. 1018 BY J. H. NINNEMAN MT REG. NO. 4661S
- (R10) 1983 CERTIFICATE OF SURVEY NO. 1109 BY J. H. NINNEMAN MT REG. NO. 4661S
- (R11) 1983 CERTIFICATE OF SURVEY NO. 1116 BY DONALD R. LARSON MT REG. NO. 3980S
- (R12) 1990 CERTIFICATE OF SURVEY NO. 1789 BY KENNETH E. DAVIS MT REG. NO. 4975LS

SURVEYOR'S NOTES

CORNER #4 H.E.S. 274 WHICH IS COMMON TO CORNER #1 H.E.S. 450, AS DESCRIBED IN THE ORIGINAL 1914 H.E.S. SURVEY NOTES FOR H.E.S. 274, IS A LARCH POST 6X6X42 INS. MARKED AS DESCRIBED IN THE ORIGINAL RECORD. THE 1915 ORIGINAL SURVEY NOTES FOR THE ADJOINING H.E.S. 450 DESCRIBES THIS SAME CORNER AS A WOODEN POST, 12X5X5 INS. IT IS ACCEPTED AND USED AS CORNER #1 OF H.E.S. 450. THE ORIGINAL 1915 SURVEY NOTES FOR THE ADJOINING H.E.S. 451 CALLS FOR THE SAME 12X5X5 IN. WOODEN POST ON LINE BETWEEN CORN. 3 AND 4 OF H.E.S. 451. A 1982 C.O.S. #1018 BY J.H. NINNEMAN, MT REG. NO. 4661S CALLS FOR A "FOUND ORIGINAL STONE MONUMENT H.E.S. #450." A 1982 CERTIFIED CORNER RECORDATION BY J.H. NINNEMAN, MT REG. NO. 4661S, FILED IN THE LINCOLN COUNTY COURTHOUSE, BOOK 1, PG. 1646, RECITES THE 1915 ORIGINAL SURVEY NOTES CALLING FOR A WOOD POST BUT FINDS A STONE WITH AN "X" ON TOP AND DOES NOT FIND BEARING TREES OR EXPLAIN THE ORIGIN OF THE STONE. C.O.S. #1789 BY KENNETH E. DAVIS, MT REG. NO. 4975LS CALLS FOR A "FOUND BROKEN OFF STONE, CORNER NO. 1 H.E.S. NO. 1-450." I CAN FIND NO RECORD OF THE ORIGIN OF THIS "ORIGINAL STONE MONUMENT." THEREFORE I USE THE TWO FOUND ORIGINAL BEARING TREES TO DETERMINE THE POSITION FOR CORN. 4 HES 274 AND 1 HES 450 AND SET A MONUMENT AS DESCRIBED IN THE LEGEND OF THIS CERTIFICATE OF SURVEY.

LEGEND

FOUND, A 5/8 IN. DIAM. REBAR WITH A 1 1/4 IN. DIAM. YELLOW PLASTIC CAP, SET FROM FOUND ORIGINAL BEARING TREE BY CHARLES N. DOYLE, MARKED DOYLE 2516S. REMONUMENTED WITH A 2 1/2 IN. DIAM., 30 IN. LONG ALUMINUM PIPE WITH A 3 1/4 IN. DIAM. U.S.F.S. ALUMINUM CAP MARKED 9750LS AND THE APPROPRIATE CORNER INFORMATION. BURIED THE REBAR ALONGSIDE THE ALUMINUM PIPE.

FOUND, A 5/8 IN. DIAM. REBAR WITH A 1 1/4 IN. DIAM. YELLOW PLASTIC CAP, SET BY SURVEY BY CHARLES N. DOYLE, MARKED DOYLE 2516S. ACCEPTED THE POSITION OF THE FOUND REBAR AND REMONUMENTED IT WITH A 2 1/2 IN. DIAM., 30 IN. LONG ALUMINUM PIPE WITH A 3 1/4 IN. DIAM. U.S.F.S. ALUMINUM CAP MARKED 9750LS AND THE APPROPRIATE CORNER INFORMATION. BURIED THE REBAR ALONGSIDE THE ALUMINUM PIPE.

SET FROM ORIGINAL EVIDENCE, A 2 1/2 IN. DIAM. BY 30 IN. LONG ALUMINUM PIPE WITH A 3 1/4 IN. DIAM. U.S.F.S. ALUMINUM CAP MARKED 9750LS AND THE APPROPRIATE CORNER INFORMATION.

SET BY SURVEY, A 2 1/2 IN. DIAM. BY 30 IN. LONG ALUMINUM PIPE WITH A 3 1/4 IN. DIAM. U.S.F.S. ALUMINUM CAP MARKED 9750LS AND THE APPROPRIATE CORNER INFORMATION. SEE CORNER RECORDATION FILED IN BOOK CCR, PAGE 11163 ON FILE AT THE LINCOLN COUNTY COURTHOUSE, LIBBY, MT.

ORIGINAL U.S. FOREST SERVICE H.E.S. STONE MONUMENT OF RECORD, FOUND AND TIED DURING THIS SURVEY

5/8" DIAM. REBAR WITH YELLOW PLASTIC CAP MARKED DOYLE 2516S, FOUND AND TIED DURING THIS SURVEY

5/8" DIAM. REBAR WITH YELLOW PLASTIC CAP MARKED JHN 4661S, FOUND AND TIED DURING THIS SURVEY

5/8" DIAM. REBAR PER 1990 CERTIFICATE OF SURVEY NO. 1789 BY KENNETH E. DAVIS, MT REG. NO. 4975S, FOUND AND TIED DURING THIS SURVEY

PROJECTED HOMESTEAD LINES FOR VISUAL PURPOSES ONLY. NOT TO SCALE

PROPERTY BOUNDARY MARKED & POSTED TO REGION ONE FOREST SERVICE STANDARDS

ABANDONED H.E.S. 451 BOUNDARY LINE