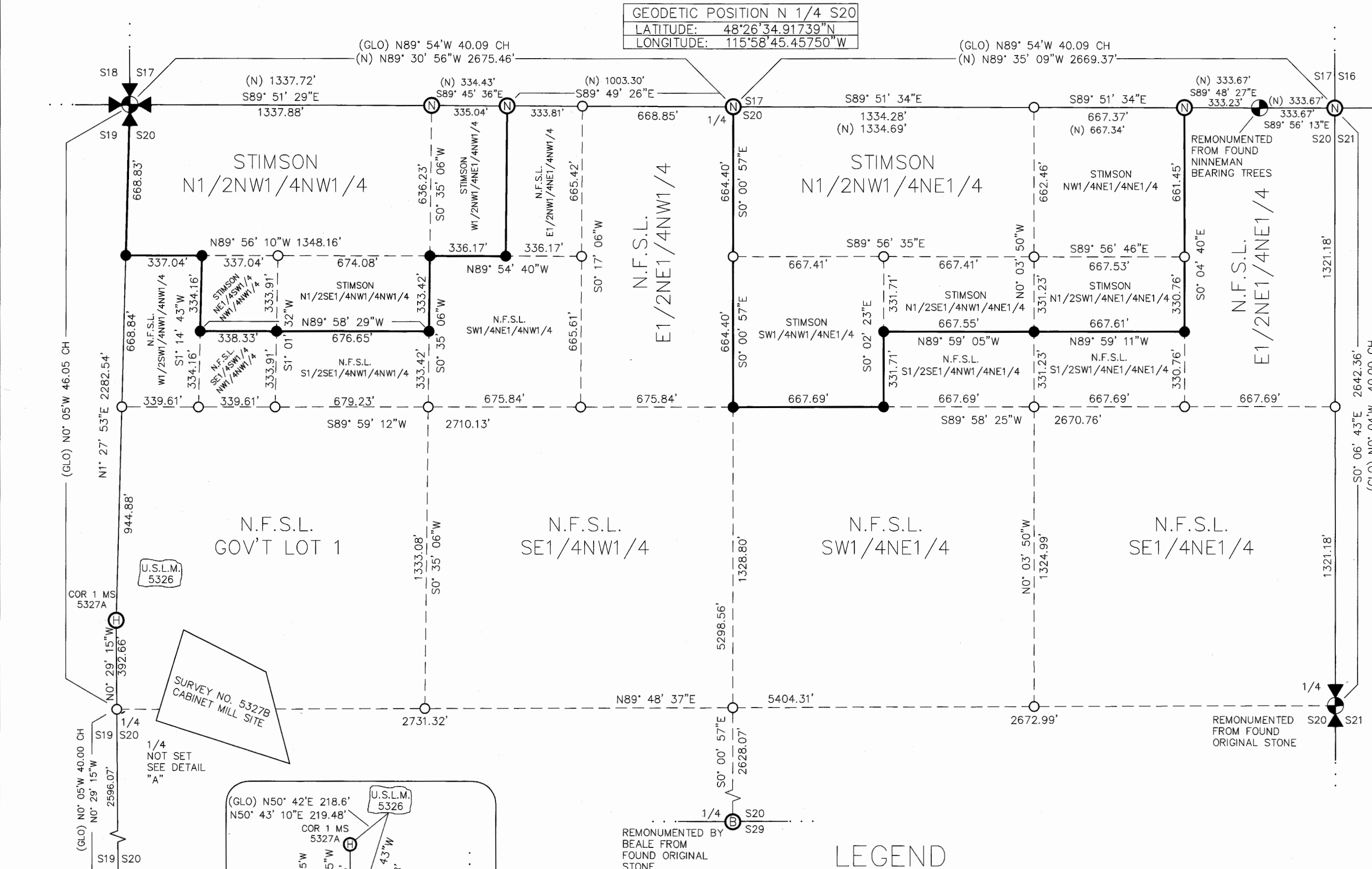


CERTIFICATE OF SURVEY  
DEPENDENT RESURVEY AND SECTION SUBDIVISION  
N1/2NE1/4, N1/2NW1/4  
SEC. 20, T.31N., R.34W., P.M., MT.  
LINCOLN COUNTY, MONTANA  
SEPTEMBER 2017

FOREST SUPERVISOR'S CERTIFICATE

This survey was made at my request for National Forest management purposes  
Christopher S. Savage, Forest Supervisor  
Date 12/8/2017

GEODETIC POSITION N 1/4 S20  
LATITUDE: 48°26'34.91739"N  
LONGITUDE: 115°58'45.45750"W



LEGEND

- SECTION LINES
- NATIONAL FOREST BOUNDARY POSTED TO REGION 1 STANDARDS THIS SURVEY
- SECTION SUBDIVISION LINES
- B.L.M. SECTION CORNER MONUMENT, 2 1/2" DIAM. IRON POST WITH 3 1/4" DIAM. BRASS CAP PER 1961 BLM REMONUMENTATION NOTES-FOUND AND TIED THIS SURVEY
- SET A 2 1/2" DIAM. X 30" STAINLESS STEEL PIPE WITH A 3 1/4" U.S.F.S. BRASS CAP, MARKED 10800LS AND THE APPROPRIATE CORNER IDENTIFICATION MARKINGS
- SET A 2 1/2" DIAM. X 30" ALUMINUM PIPE WITH A 3 1/4" U.S.F.S. ALUMINUM CAP, MARKED 10800LS AND THE APPROPRIATE CORNER IDENTIFICATION MARKINGS
- SET A 5/8" X 24" REBAR WITH A 3 1/4" U.S.F.S. ALUMINUM CAP, MARKED 10800LS AND THE APPROPRIATE CORNER IDENTIFICATION MARKINGS
- 3 1/4" DIAM. ALUMINUM CAP BY THOMAS. C. HILL, MT REG. NO. 5612S-FOUND AND TIED THIS SURVEY
- 3 1/4" DIAM. ALUMINUM CAP BY JACK H. NINNEMAN, MT REG. NO. 4661S-FOUND AND TIED THIS SURVEY
- 3 1/4" DIAM. ALUMINUM CAP, BY MICHAEL W. BEALE MT REG. NO 9955LS-FOUND AND TIED THIS SURVEY
- COMPUTED POINT-CORNER NOT SET
- N.F.S.L. NATIONAL FOREST SYSTEMS LANDS

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY IS TO RETRACE AND MARK THE BOUNDARIES OF AN EXISTING PARCEL, DISTINGUISHING BETWEEN NATIONAL FOREST SYSTEM LANDS AND PRIVATE LANDS AND NO DIVISION OF LAND IS HEREBY CREATED, EXEMPTING THIS SURVEY FROM SUBDIVISION REVIEW, SEC. 76-3-404, MCA.

LEGAL DESCRIPTION OF PRIVATE OWNERSHIP:

NW1/4NE1/4NE1/4, N1/2SW1/4NE1/4NE1/4, N1/2SE1/4NW1/4NE1/4, SW1/4NW1/4NE1/4, N1/2NW1/4NE1/4, W1/2NW1/4NE1/4NE1/4, N1/2SE1/4NW1/4NE1/4, NE1/4SW1/4 NW1/4NW1/4, N1/2NW1/4NW1/4, SECTION 20, T31N, R34W, P. M. MT

LEGAL DESCRIPTION OF NATIONAL FOREST SYSTEM LANDS:

E1/2NE1/4NE1/4, S1/2SW1/4NE1/4NE1/4, S1/2SE1/4NW1/4NE1/4, E1/2NE1/4NW1/4, SW1/4NE1/4NW1/4, E1/2NW1/4NE1/4NE1/4, S1/2SE1/4NW1/4NE1/4, SE1/4SW1/4NW1/4NE1/4, W1/2SW1/4NW1/4NE1/4, SE1/4NE1/4, SW1/4NE1/4, SE1/4NW1/4, GOVT LOT 1, SECTION 20, T31N, R34W, P. M. MT

HISTORY OF SURVEY

1898 U.S.L.M. ESTABLISHED BY ABRAM L. JAQUETH.  
1898 MINERAL SURVEY 5326 & 5327 A & B, BY ABRAM L. JAQUETH.  
1906 MINERAL SURVEY 8112 & 8113, BY ABRAM L. JAQUETH.  
1903 SOUTH, WEST & NORTH BOUNDARIES OF T31N, R34W, BY ALLEN B. BENEDICT  
1903 SUBDIVISION & MEANDERS OF T31N, R34W BY ALLEN B. BENEDICT  
1970 BLM REMONUMENTATION BY JOSEPH E. FRENCH  
1981 REMONUMENTATION OF CORNERS 1 & 2, MS5327A, BY THOMAS C. HILL, MT REG. NO. 5612S  
1982 CERTIFICATE OF SURVEY NO. 1086 BY JACK H. NINNEMAN, MT REG. NO. 4661LS

METHOD OF SURVEY

GPS RTK USING TRIMBLE 5800 ROVER AND 5800 BASE, POST PROCESSED AGAINST THE CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) IN MISSOULA AND KALISPELL, MT, AND FOOTHILL, ID AND A 3 SECOND TOTAL STATION TO THE CONTROLLING CORNERS USING CLOSED TRAVERSE PROCEDURES.

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 THE N 1/4 OF SECTION 20. GEODETIC BEARINGS ARE EQUAL TO LOCAL PLANE BEARINGS ON RADIAL LINES EXTENDING FROM THIS ORIGIN.

GEODETIC POSITION: N 1/4 SECTION 20

THE NAD 83 (CORS 2011) (EPOCH:2010.0000) LATITUDE AND LONGITUDE WAS DETERMINED BY POST PROCESSING A SURVEY GRADE (TRIMBLE 5800) GLOBAL POSITIONING SYSTEM (GPS) DATA FILE USING THE NATIONAL GEODETIC SURVEY (NGS) ON-LINE POSITIONING SERVICE (OPUS). THE FILE WAS PROCESSED WITH RESPECT TO CORS STATIONS IN MISSOULA AND KALISPELL, MT AND FOOTHILL, ID, THROUGH REAL TIME KINEMATIC OBSERVATION (RTK). THE POSITION IS ESTIMATED TO BE WITHIN 7CM AT 95% CONFIDENCE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS)

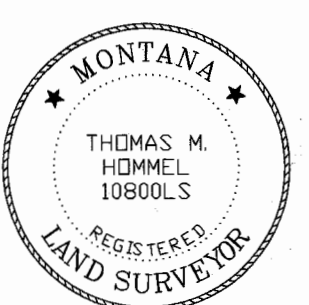
SURVEYOR'S NOTES

SURVEYED BY: T. HOMMEL, K. METTLER, N. DEVITO, B. SIDOR, D. TAYLOR, M. WATERS  
DATE OF FIELD WORK: 9/2017  
DRAWN BY: T. HOMMEL 11/2017  
CHECKED BY: T. HOMMEL, B. SIDOR  
NOTE: SEE ALSO THE CERTIFIED CORNER RECORDATIONS FILED IN CONJUNCTION WITH THIS CERTIFICATE OF SURVEY

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 the Montana Code Annotated (Sections 76-3-101 through 76-3-625) and the Lincoln County regulations adopted pursuant thereto.

Thomas M. Hommel, Montana Reg. No. 10800LS  
Date 12/8/17



CERTIFICATE OF EXAMINING SURVEYOR

Examined: Ronald A. Pearson, Reg. No. 9008LS  
Lincoln County Examining Official

STATE OF MONTANA  
County of Lincoln

Filed on the 8th day of December 2017, A.D., at 12:55 o'clock P.m.

Robin Benson  
County Clerk and Recorder  
By: Chuck E. Rm Deputy  
Deputy

Instrument Record No. 271879

CERTIFICATE OF SURVEY NO. #4506

SHEET 1 OF 1

U. S. D. A. FOREST SERVICE - REGION 1  
KOOTENAI NATIONAL FOREST  
31374 US HWY 2, LIBBY, MT 59923 (406) 293-6211  
PROJECT: STARRY GOAT SECTION 20  
LOCATION: THREE RIVERS RANGER DISTRICT  
SURVEYOR: T. HOMMEL  
DATE SURVEYED: 9/2017  
DRAWN BY: T. HOMMEL

