

RECORD OF SURVEY

LOCATED IN
SECTION 30, T.29S., R.4W., W.M.
DOUGLAS COUNTY, OREGON

NARRATIVE:

THIS SURVEY IS AN EXTENSION OF AND A CORRECTION TO M 124-60, MY 1997 SURVEY AND SUBDIVISION OF SECTION 30. THE ORIGINAL PURPOSE OF THIS SURVEY WAS TO RETRACE AND POST THE SOUTH AND WEST LINES OF SILVER BUTTE TIMBER COMPANY PROPERTY IN SECTION 30. IN THE SURVEY OF THE SOUTH LINE OF SECTION 30, I DISCOVERED THAT A M 124-60 RANDOM TRAVERSE POINT LOCATED 118.04 FEET NORTH AND 54.92 FEET WEST OF THE SOUTH 1/4 CORNER WAS INCORRECTLY LABELED AS THE 1/4 S30/S31 IN THE FIELD NOTES OF M 124-60, THEREFORE, THE M 124-60 SUBDIVISION OF SECTION 30 WAS BASED ON THIS INCORRECT COORDINATE AND THE C 1/4 CORNER, CN 1/16 CORNER AND THE NW CORNER OF GOVERNMENT LOT 2 WERE NOT MONUMENTED IN THE CORRECT POSITIONS. ALL CORNERS ON THE SOUTH AND WEST LINES OF SECTION 30, THE NORTH 1/4 CORNER OF SECTION 30 ALONG WITH THE C 1/4 CORNER, CN 1/16 CORNER AND NW CORNER OF GOVERNMENT LOT 2 PER M 124-60 WERE TIED UNDER THIS SURVEY. I DID NOT RE-TIE THE EAST 1/4 OF SECTION 30 BUT HELD THE M 124-60 CENTER 1/4 CORNER MONUMENT AS A POINT ON THE EAST-WEST CENTERLINE OF SECTION 30 AND MONUMENTED A CORRECTED CENTER 1/4 CORNER AT THE INTERSECTION OF THE EASTERLY EXTENSION OF THIS LINE WITH THE TRUE NORTH-SOUTH CENTERLINE. I THEN MONUMENTED A CORRECTED CENTER NORTH 1/16 CORNER PROPORTIONATELY BETWEEN THE CORRECTED CENTER 1/4 CORNER AND THE NORTH 1/4 CORNER. I HELD THE NORTHEAST CORNER OF GOVERNMENT LOT 2 PER M 124-60 AS A POINT ON THE NORTH LINE OF LOT 2 AND MONUMENTED A CORRECTED CORNER AT THE INTERSECTION OF THE EASTERLY EXTENSION OF THIS LINE WITH THE TRUE NORTH-SOUTH CENTERLINE. THE SOUTH LINE WAS POSTED. LONE ROCK TIMBER COMPANY POSTED THE WEST LINE BETWEEN THE SW CORNER AND THE S 1/16 S25/S30 FROM BTS COMPUTED OFFSETS. BTS POSTED THE WEST LINE BETWEEN THE S 1/16 S25/S30 AND THE NORTHWEST CORNER OF GOVERNMENT LOT 3. THE EAST LINE OF GOVERNMENT LOT 2 WAS POSTED AND THE M 124-60 POSTING OF THIS LINE WAS REMOVED.

SURVEY CONTROL:

A STATIC GPS CONTROL NETWORK BASED ON ODOT STATIONS DCSO AND SUHS WAS SURVEYED WITH GPS OBSERVATIONS TAKEN TO PROJECT CONTROL POINTS AND ADJUSTED BY LEAST SQUARES METHODS USING LEICA LGO SOFTWARE. GPS GEODETIC COORDINATES WERE THEN PROJECTED INTO A LOCAL PROJECT DATUM TRANSVERSE MERCATOR PROJECTION AS FOLLOWS:

NAME:	13-033 SEC30 LDP
REFERENCE DATUM:	NAD 83 2011 EPOCH 2010.00
LATITUDE OF ORIGIN:	43°00'00"N
CENTRAL MERIDIAN:	123°13'00"W
ZONE WIDTH:	2°00'00"
ORIGIN SCALE FACTOR:	1.0000530
FALSE NORTHING:	50000.000 ft
FALSE EASTING:	150000.000 ft

THE BASIS OF BEARINGS IS GEODETIC NORTH BY GPS OBSERVATION. RTK AND CONVENTIONAL TRAVERSE LOOPS AND TIES WERE THEN SURVEYED TO CONTROLLING CORNERS AND ALONG BOUNDARY LINES POSTED AND ADJUSTED BY LEAST SQUARES METHODS. ALL OBSERVATIONS WERE TAKEN WITH A LEICA TCPR 1203 TOTAL STATION AND SYSTEM 1200 GPS RECEIVERS. SURVEY FIELD WORK WAS PERFORMED FROM JUNE 26 TO JULY 24, 2013 BY LES FANNING, ADAM DEGROOT, AND JOHN FANNING WITH COMPUTATIONS BY ADAM DEGROOT AND DRAFTING BY KRIS DEGROOT.

CORNER DESCRIPTIONS:

ALL NEW BEARING TREES HAVE DOUBLE BLAZED FACES WITH A BRASS WASHER STAMPED "PLS 1941" NAILED INTO THE LOWER BLAZE. BEARINGS ARE TAKEN TO THE CENTER OF THE TREE AT THE ROOT CROWN AND DISTANCES ARE MEASURED TO A NAIL IN THE ROOT CROWN AT THE SIDE AND CENTER OF THE TREE WITH A TOTAL STATION. ALL BEARING TREES HAVE A 6" RED BAND PAINTED AROUND THE TREE AND THE BLAZED FACE PAINTED RED AND BEARING TREE SIGNS NAILED TO THE TREE. ALL NEW 5/8" x 30" IRON ROD REFERENCE MONUMENTS HAVE A PLASTIC CAP STAMPED "BTS ENG-SURV".

- 1. S29/S30/S31/S32 GDCB 200200**
FD. A 2 1/2" STAINLESS STEEL POST BY USBLM IN 1993, FIRMLY SET, PROJECTING 2" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP, WITH ACCESSORIES PER DCSO VOL. 52 PG. 19792-3
- 2. 1/4 S30/S31 GDCB 140200**
FD. A 2 1/2" STAINLESS STEEL POST BY USBLM IN 1992, FIRMLY SET, PROJECTING 2" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP, WITH ACCESSORIES PER DCSO VOL. 52 PG. 19794
- 3. W 1/16 S30/S31 GDCB 120200**
FD. A 2 1/2" STAINLESS STEEL POST BY BLM IN 1992, FIRMLY SET, PROJECTING 4" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP, WITH ACCESSORIES PER DCSO VOL. 52 PG. 19794-5
- 4. WW 1/64 S30/S31 GDCB 110200**
FD. A 2 1/2" STAINLESS STEEL POST BY USBLM 1992, FIRMLY SET, PROJECTING 4" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP, WITH ACCESSORIES PER DCSO VOL. 52 PG. 19795
- 5. S25/S30/S31/S36 GDCB 100200**
FD. A 2 1/2" IRON POST BY USBLM CADASTRAL SURVEYOR IRVING ZIRPEL JR. IN 1957, FIRMLY SET, PROJECTING 2" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP.
FROM WHICH AN ORIGINAL BEARING TREE:
A 17" B.OAK BEARS S.69°45'E., 20.8 FT WITH HEALED BLAZE AND BEARING TREES BY ZIRPEL:
A 17" D.FIR BEARS N.57°30'E., 42.5 FT WITH HEALED BLAZE
A 18" D.FIR BEARS S.31°45'E., 29.9 FT WITH HEALED BLAZE
A 22" D.FIR BEARS S.89°30'W., 31.0 FT WITH HEALED BLAZE
A 18" SAWED D.FIR STUMP BEARS N.46°W., 32.2 FT NO MKS. VISIBLE
AND A NEW BEARING TREE:
A 9" D.FIR BEARS N.19°45'W., 52.3 FT SCRIBED "T29S R5W S25 BT" THE 1" IRON PIPE BY MARKHAM BEARS N.59°52'26"E., 2.25 FT
- 6. S 1/16 S25/S30 GDCB 100220**
FD. A 2 1/2" IRON POST BY USBLM CADASTRAL SURVEYOR IRVING ZIRPEL JR. IN 1957, FIRMLY SET, PROJECTING 6" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP.
FROM WHICH BEARING TREES BY ZIRPEL:
A 21" D.FIR BEARS S.76°E., 33.0 FEET WITH A HEALED BLAZE (S.75 1/2"E., 67.5 LKS)
A DOWN AND ROTTING CEDAR BEARS RECORD S.61°W., 71.5 LKS
AND A NEW BEARING TREE:
A 15" D.FIR BEARS S.45°15'W., 12.8 FEET SCRIBED "S 1/16 S25 BT"
- 7. 1/4 S25/S30 GDCB 100240**
FD. A 2 1/2" IRON POST BY USBLM CADASTRAL SURVEYOR IRVING ZIRPEL JR. IN 1957, FIRMLY SET, PROJECTING 4" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP.
FROM WHICH THE ORIGINAL BEARING TREES:
A 25" B.OAK BEARS S.1°30'E., 26.4 FEET WITH A HEALED BLAZE (S. 1 3/4"E., 40 LKS)
A 21" BROKEN D.FIR SNAG BEARS S.73°15'W., 14.2 FEET, WITH A HEALED BLAZE (S.73°W., 21 LKS)
AND BEARING TREES BY ZIRPEL:
A 28" BROKEN D.FIR SNAG BEARS S.84°30'E., 35.0 FEET, WITH SCRIBE MKS "1/4 S30 BT" VISIBLE ON OPEN ROTTING BLAZE (S.84 1/2"E., 53.5 LKS)
A 40" D.FIR BEARS S.89°30'W., 24.2 FEET, WITH A HEALED BLAZE (S.89°W., 36 LKS)

LEGEND:

- ⊙ = SET 5/8" x 30" IRON ROD w/PLASTIC CAP "BTS ENG-SURV"
- ⊚ = SET 5/8" x 30" IRON ROD w/2" ALUMINUM CAP
- = FOUND 5/8" IRON ROD PER M 124-60
- ⊙ = FOUND USBLM BCIP AS PER CORNER DESCRIPTIONS
- () = RECORD PER 1958 USBLM DEPENDENT RESURVEY
- { } = RECORD PER 1997 USBLM DEPENDENT RESURVEY
- [] = RECORD PER M 124-60
- P — = PROPERTY LINES BLAZED, PAINTED & POSTED WITH 5 1/2" STEEL POSTS.

GEODETIC COORDINATES

NO.	NAME	PLSS-GDCB NO.	LATITUDE	LONGITUDE
1.	S29/S30/S31/S32	GDCB 200200	43° 0' 41.427984" N	123° 12' 30.458156" W
2.	1/4 S30/S31	GDCB 140200	43° 0' 43.448841" N	123° 13' 4.788512" W
3.	W 1/16 S30/S31	GDCB 120200	43° 0' 44.458257" N	123° 13' 21.921781" W
4.	WW 1/64 S31/S31	GDCB 110200	43° 0' 44.959088" N	123° 13' 30.499907" W
5.	S25/S30/S31/S36	GDCB 100200	43° 0' 45.388559" N	123° 13' 37.878076" W
6.	S 1/16 S25/S30	GDCB 100220	43° 0' 58.401905" N	123° 13' 37.538444" W
7.	1/4 S25/S30	GDCB 100240	43° 1' 11.410451" N	123° 13' 37.188961" W
8.	C 1/4 S30	GDCB 140240	43° 1' 10.061434" N	123° 13' 3.995113" W
9.	CN 1/16 S30	GDCB 140260	43° 1' 23.199166" N	123° 13' 3.613244" W
10.	N 1/16 S25/S30	GDCB 100260	43° 1' 24.124872" N	123° 13' 37.035450" W
11.	NW COR LOT 3	GDCB 100263	43° 1' 25.955563" N	123° 13' 37.003208" W
12.	NE COR. LOT 2	GDCB 140263	43° 1' 25.362122" N	123° 13' 3.550371" W
13.	1/4 S19/S30	GDCB 140300	43° 1' 36.336889" N	123° 13' 3.231303" W
14.	S19/S24/S25/S30	GDCB 100300	43° 1' 36.854799" N	123° 13' 36.874141" W

- 8. C 1/4 S30 GDCB 140240**
SET A 5/8" x 30" IRON ROD 28" IN THE GROUND, WITH THE M 124-60 2" DIAM. ALUM. CAP RESET ON THE NEW IRON ROD AND STAMPED:
T29S R4W
C 1/4
RESET
S30
1996
PLS 1941
FROM WHICH A BEARING TREES PER M 124-60:
A 13" D.FIR BEARS S.80°15'W., 46.5 FEET, WITH A HEALED DOUBLE BLAZE
A 15" D.FIR BEARS S.73°W., 37.1 FEET, WITH A HEALED DOUBLE BLAZE FACED TOWARDS THE M 124-60 CORNER POSITION. BT NOT RETIED.
AND A NEW BEARING TREE:
A 15" D.FIR BEARS S.5°W., 21.2 FEET, SCRIBED "C 1/4 S30 BT"
AND NEW REFERENCE MONUMENTS:
A 5/8" x 30" IRON ROD BEARS N.47°10'26"E., 20.12 FEET (M 124-60 MONUMENT REMOVED AND RESET)
A 5/8" x 30" IRON ROD BEARS N.44°28'19"W., 17.00 FEET (UTILIZED IN THE M 124-60 POSITION)
A 5/8" IRON ROD PER M 124-60 BEARS N.86°49'33"W., 28.94 FEET. I REMOVE THE ALUM. CAP AND REPLACE WITH A PLASTIC CAP.
- 9. CN 1/16 S30 GDCB 140260**
I REMOVE THE M 124-60 5/8" x 30" IRON ROD AND ALUM. CAP AND RESET IT 28" IN THE GROUND, WITH A 2" DIAM. ALUM. CAP STAMPED:
T29S R4W
C
RESET
N1/16 S30
1996
PLS 1941
FROM WHICH BEARING TREES MARKED PER M 124-60:
A 8" D.FIR BEARS S.70°45'W., 19.2 FEET, WITH A HEALED DOUBLE BLAZE
A 10" D.FIR BEARS N.62°W., 3.0 FEET, WITH A HEALED DOUBLE BLAZE FACED TOWARDS THE M 124-60 POSITION. BT NOT RETIED.
AND A NEW BEARING TREE:
A 6" W.FIR BEARS S.14°45'E., 6.6 FEET SCRIBED "CN 1/16 S30 BT"
- 10. N 1/16 S25/S30 GDCB 100260**
FD. A 2 1/2" IRON POST BY USBLM CADASTRAL SURVEYOR IRVING ZIRPEL JR. IN 1957, FIRMLY SET, PROJECTING 4" ABOVE THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP.
FROM WHICH BEARING TREES BY ZIRPEL:
A 29" D.FIR BEARS S.9°30'E., 10.5 FEET, WITH A HEALED BLAZE (S.9 3/4"E., 15.5 LKS)
A ROOT HOLE BEARS RECORD S.43 1/4"W., 87 LKS, NO REMAINS OF BT.
AND A NEW BEARING TREE:
A 10" D.FIR BEARS S.56°30'W., 20.3 FEET, SCRIBED "N 1/16 S25 BT"
- 11. NW COR. LOT 3**
FD. A 5/8" IRON ROD PER M 124-60, FIRMLY SET, PROJECTING 6" ABOVE THE GROUND, WITH A PLASTIC CAP MKD "BTS ENG-SURV"
FROM WHICH BEARING TREES PER M 124-60:
A 6" D.FIR BEARS S.85°45'E., 22.2 FEET, WITH HEALED DOUBLE BLAZE AND BREAST HIGH BLAZE. (S.88"E.)
A 10" D.FIR BEARS S.15°E., 28.5 FEET, WITH HEALED DOUBLE BLAZE AND BREAST HIGH BLAZE. (S.14"E., 28.6 FEET)
- 12. NE COR. LOT 2**
SET A 5/8" x 30" IRON ROD 28" IN THE GROUND, WITH A 2" DIAM. ALUM. CAP STAMPED:
T29S R4W
DLC 42
L2 | L1
S30
2013
PLS 1941
FROM WHICH A BEARING TREE PER M 124-60:
A 12" MAPLE BEARS S.41°45'E., 29.0 FEET, WITH SCRIBE MARKS "PC BT" VISIBLE.
AND A NEW BEARING TREE:
A 9" D.FIR BEARS S.87°15'W., 33.4 FEET, SCRIBED "PROP COR BT".
AND NEW REFERENCE MONUMENTS:
A 5/8" IRON ROD WITH PLASTIC CAP PER M 124-60 BEARS N.88°36'40"W., 11.89 FEET.

- 13. 1/4 S19/S30 GDCB 140300**
FD. A 2 1/2" STAINLESS STEEL POST BY USBLM CADASTRAL SURVEYOR BOYD PETERSON IN 1987, FIRMLY SET FLUSH WITH THE GROUND, WITH A PROPERLY MKD. 3 1/4" BRASS CAP. ACCESSORIES PER VOL.48 PG. 18510-18511
- 14. S19/S24/S25/S30 GDCB 100300**
FD. A 2 1/2" STAINLESS STEEL POST BY USBLM CADASTRAL SURVEYOR BOYD PETERSON IN 1987, BURED 22" IN MIXED ROCK & SILT, WITH A PROPERLY MKD. 3 1/4" BRASS CAP. ACCESSORIES PER VOL.48 PG. 18511



BTS ENGINEERING & SURVEYING, INC.
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SCALE: 1" = 300'	FOR: SILVER BUTTE TIMBER CO. P.O. BOX 4 RIDDLE, OR 97469	JOB #: 13-033 FILE: 13-033 PLAT.DWG SHEET 1 OF 1
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DATE: AUGUST 5, 2013