

NARRATIVE:

SURVEY & TITLE HISTORY: IN 1947, CHESTER & ELVA SLONECKER GRANTED THE TIMBERLAND PORTIONS OF THE S 1/2 SE 1/4, NE 1/4 SE 1/4, AND THE SE 1/4 SW 1/4 OF SECTION 8 AND THE NE 1/4 NW 1/4 OF SECTION 17 TO CROWN ZELLERBACH CORPORATION BY THAT DEED RECORDED IN VOLUME 135, PAGES 553, AS INSTRUMENT NO. 61405. THIS DEED CALLS FOR A SURVEY TO BE MADE OF THE "BOTTOM OR AGRICULTURAL LANDS" AND DEFINES THESE LANDS AS "THE LEVEL OR LOW-LYING LANDS BETWEEN THE OLD ROAD NOW RUNNING ALONG THE TOE OF THE SLOPE ON THE SOUTH SIDE OF THE PROPERTY, AND THE NORTH EDGE OF THE CLEARED LANDS ALONG THE NORTHERLY PORTION OF THE PROPERTY". THE CROWN ZELLERBACH CORPORATION PERFORMED BUT DID NOT RECORD THE SURVEY AND RECORDED A CORRECTION DEED WITH A METES AND BOUNDS DESCRIPTION, VOLUME 166, PAGE 457, INSTRUMENT NO. 90807, ON APRIL 9, 1949. THE 1948 CROWN ZELLERBACH SURVEY WAS RECORDED BY WARREN D. HOOTMAN AS M 24-51/M 24-52 IN 1963 WITH GRID BEARINGS AND DISTANCES IN OCS'27 GRID, SOUTH ZONE. ALL M 24-51/M 24-52 COURSES EXACTLY MATCH THE VOLUME 166, PAGE 457 DEED COURSES. THE UNITED STATES OF AMERICA TOOK TITLE TO TRACT 1 AND TRACT 2 OF VOLUME 166, PAGE 457 AS PARCEL "A" AND PARCEL "B" UNDER INSTRUMENT NO. 2003-023046. THE LEGAL DESCRIPTIONS OF PARCEL "A" & "B" DIRECTLY REFERENCE THE M 24-51/M24-52 SURVEY IN OCS'27 GRID, SOUTH ZONE AND EXACTLY MATCH THE VOLUME 166, PAGE 457 DEED COURSES. PARCEL "C" OF INSTRUMENT NO. 2003-023046 DESCRIBES A PORTION OF THE E 1/2 NE 1/4 OF SECTION 17 THAT WAS NOT SURVEYED UNDER THE 1948 SURVEY AND 1949 DEED WITH THE COURSES QUALIFIED TO M 15-22, WARREN D. HOOTMAN SURVEYED AND SUBDIVIDED SECTION 17, ESTABLISHING THE E 1/2 AND W 1/2 CORNER OF SECTIONS 8 & 17 UNDER M 15-22 & CS 51/29, DATED JUNE 12, 1959. HOOTMAN RESURVEYED THE SECTION 8-SECTION 17 BOUNDARY RETURNING REVISED COURSES ALONG THIS LINE AND SUBDIVIDED THE S 1/2 OF SECTION 8 AND THE NW 1/4 OF SECTION 17 UNDER M 20-44 & CS 51/196, DATED MAY, 1961. M 22-36 & CS 51/249 WAS A RESURVEY OF MANY OF THE LINES OF M 24-51/M 24-52 BASED ON GEODETIC BEARINGS BY HOOTMAN, DATED JANUARY 30, 1963.

SURVEY ANALYSIS AND PROCEDURES: M 24-51/M 24-52, THE 1949 DEED, VOLUME 166, PAGES 457 AND THE CURRENT USFS DEED, INSTRUMENT NO. 2003-023046 DO NOT CALL MONUMENTS AT THE PROPERTY CORNERS DESCRIBED. BTS HAS FOUND 1/2", 3/4" AND 1" IRON PIPES, MANY WOOD PLUGS AND TACKS, AT THOSE CORNERS NOTED IN THE M 24-51/M 24-51 CORNER DESCRIPTION TABLE. THE COURSES BETWEEN FOUND MONUMENTS CLOSELY MATCH THE DEED COURSES ROTATED FROM GRID TO GEODETIC AND THE BEARINGS ON THE EAST 1/2 OF THE SOUTH LINE OF SECTION 8 BUT NOT THE BEARINGS OF THE WEST 1/2 OF THE SOUTH LINE OF SECTION 8. I ACCEPT THE FOUND MONUMENTS AS THE BEST AVAILABLE EVIDENCE OF THE LOCATION OF THE USA PROPERTY DESCRIBED IN INSTRUMENT NO. 2003-023046. THE POSITION OF THESE MONUMENTS AND HOOTMAN'S M 15-22, M 20-44 AND M 22-36 MONUMENTS PROVE A BLUNDER IN THE M 24-51/M 24-52 COURSES FOR THE WEST 1/2 OF THE SOUTH LINE OF SECTION 8 AND SUBDIVISIONAL LINES OF SECTIONS 8 AND 17. I FIND THE COMPUTED M 24-51/M 24-52 POSITION FOR THE W 1/2 S8/S17 TO LIE APPROXIMATELY 20 FEET NORTH OF THE RESTORED M 15-22 MONUMENT POSITION AS SHOWN ON THE FACE OF THE MAP. I COMPUTED THE MISSING CORNERS BY THE GRANT-BOUNDARY METHOD BETWEEN FOUND M 24-51/M 24-52 MONUMENTS. ALONG THE WEST LINE I INTERSECTED THESE LINES WITH OR EXTENDED THESE LINES TO THE M 15-22, M 20-44 SUBDIVISIONAL SECTION LINES BETWEEN THE W 1/2 S8/S17, NW 1/4 S 17 AND THE SW 1/4 S 8. I RESTORED HOOTMAN'S W 1/2 S8/S17 BY PROPORTIONATE MEASUREMENT WHICH ALSO MATCHED HIS M 15-22 BEARING TREE. THE MATHEMATICAL CLOSURE OF PARCEL "C" OF INSTRUMENT NO. 2003-023046 (CORNERS #1 TO #8) WAS 0.04 FEET, THEREFORE I DID NOT ADJUST THE COURSES BUT HELD THE DEED DISTANCE OF 827.50 FEET BETWEEN S8/S9/S16/S17 AND THE E 1/2 S8/S17 AND HELD RECORD ANGLES AND DISTANCES AND EXTENDED THE LAST COURSE (L1) TO INTERSECT THE EAST LINE OF SECTION 17.

A STATIC GPS CONTROL SURVEY WAS PERFORMED AND CONTROLLED BY A NGS OPUS SOLUTIONS WITH GPS OBSERVATIONS TAKEN TO 10 PROJECT CONTROL POINTS AND ADJUSTED BY LEAST SQUARES METHODS USING LEICA LGO SOFTWARE. OCS 1983 SOUTH ZONE STATE PLANE COORDINATES WERE COMPUTED FOR THE GPS NETWORK AND THEN CONVERTED TO A LOCAL PROJECT DATUM WITH A COMBINED SCALE FACTOR OF 0.999994903 AND AN AVERAGE CONVERGENCE ANGLE OF -2'24.50". RTK AND CONVENTIONAL TRAVERSE LOOPS AND TIES WERE SURVEYED TO CONTROLLING CORNERS AND ALONG BOUNDARY LINES POSTED AND ADJUSTED BY LEAST SQUARES METHODS. ALL OBSERVATIONS WERE TAKEN WITH A LEICA TRIP 1203 TOTAL STATION AND SYSTEM 1200 GPS RECEIVERS. THIS SURVEY WAS PERFORMED BY LES FANNING, ADAM DEGROOT, JOEL HERZBERG, RICK SANFORD, SCOTT MCCURDY AND TONY BELLANDO WITH COMPUTATIONS AND DRAFTING BY KRIS DEGROOT, ADAM DEGROOT AND JOEL HERZBERG.

RECORD OF SURVEY
FIVEMILE CREEK CADASTRAL SURVEY
USFS CONTRACT NO. AG-04R4-C-7-0110
LOCATED IN
SECTIONS 8 & 17, T20S, R11W, W.M.
DOUGLAS COUNTY, OREGON

- NO. DIRECTION LENGTH RECORD
- L1 S0° 30' 13"W 89.54 ((N0°37'E 89.4'))
- L2 N60° 39' 11"W 149.03 ((S60°45'E 148.7'))
- L3 S82° 05' 49"W 167.50 ((N82°00'E 167.5))
- L4 S48° 19' 49"W 107.10 ((N48°14'E 107.1))
- L5 N51° 45' 11"W 113.60 ((S51°51'E 113.6))
- L6 N85° 08' 11"W 226.30 ((S85°14'E 226.3))
- L7 S53° 23' 49"W 100.30 ((N53°18'E 100.3))
- L8 N35° 14' 11"W 96.50 ((S35°20'E 96.5))
- L9 N88° 47' 12"E 184.89
- L10 N80° 30' 47"W 139.67 ((N77°57'00"W 139.77'))
- L11 N66° 54' 51"W 242.51 ((N64°26'30"W 242.68'))
- L12 N46° 54' 39"W 196.26 ((N44°30'00"W 196.34'))
- L13 N24° 56' 19"W 149.06 ((N22°35'00"W 149.07'))
- L14 N5° 55' 39"W 198.40 ((N3°34'00"W 198.39'))
- L15 N50° 53' 14"W 53.12 ((N48°33'00"W 52.93))
- L16 S80° 44' 45"W 190.58 ((N83°07'30"W 190.67'))
- L17 S49° 13' 10"W 203.15 ((S51°37'00"W 203.17))
- L18 S74° 34' 32"W 138.64 ((S76°58'30"W 138.70))
- L19 S67° 58' 52"W 400.54 ((S70°23'30"W 400.67))
- L20 S66° 15' 18"W 356.75 ((S68°40'30"W 356.86))
- L21 S80° 12' 06"W 266.16 ((S82°35'30"W 266.36))
- L22 N88° 01' 44"W 265.69 ((N85°37'30"W 265.86))
- L23 N62° 18' 04"W 233.11 ((N59°55'30"W 233.21))
- L24 S70° 40' 15"W 185.30 ((S73°03'30"W 184.99))
- L25 S82° 36' 37"W 114.71 ((S84°55'30"W 115.21))
- L26 S50° 52' 21"W 154.82 ((S53°18'30"W 154.68))
- L27 S69° 45' 19"W 193.76 ((S72°15'30"W 193.83))
- L28 S54° 34' 21"W 178.16 ((S57°05'00"W 178.17))
- L29 N73° 13' 17"W 67.59 ((N70°44'00"W 66.77))
- L30 N0° 31' 41"E 128.73
- L31 N0° 01' 07"E 148.86 ((N2°26'00"W 148.99))
- L32 N69° 16' 58"E 7.86
- L33 N69° 16' 58"E 142.62
- L34 N65° 48' 35"E 269.50 ((N68°18'30"E 269.35))
- L35 N29° 49' 16"E 148.65 ((N32°18'00"E 148.57))
- L36 N40° 57' 52"E 159.44 ((N43°24'30"E 159.39))
- L37 N80° 00' 33"E 176.32 ((N82°26'00"E 176.27))
- L38 S74° 59' 25"E 173.70 ((S72°35'30"E 173.67))
- L39 N85° 20' 13"E 396.66 ((N87°42'00"E 396.56))
- L40 S62° 17' 23"E 270.31 ((S59°58'00"E 270.63))
- L41 S87° 02' 28"E 150.74 ((S84°38'30"E 150.56))
- L42 N62° 06' 54"E 312.64 ((N64°32'30"E 312.51))
- L43 N22° 38' 54"E 227.31 ((N25°12'30"E 227.37))
- L44 S67° 38' 41"E 133.01 ((S65°16'30"E 132.87))
- L45 N70° 37' 18"E 202.23 ((N73°07'30"E 202.55))

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 USFS 54-3 BEARING TREE AND 54-9 LAND SURVEY MONUMENT SIGNS NAILED TO THE TREE. ALL NEW 5/8" x 30" IRON ROD REFERENCE MONUMENTS HAVE A PLASTIC CAP STAMPED "BTS ENG-SURV".

FILED
Date: 7/15/08 By: JC
This survey consists of:
Map: M157-2
Narrator:
Corner Rpt:
DOUGLAS COUNTY SURVEYORS OFFICE

① N 1/16 S16/S17 PLSS ID. NO. 300460
FOUND: A USFS 2 1/2" x 30" ALUMINUM POST PER M 146-80, 24" IN GROUND WITH 3 1/4" ALUMINUM CAP STAMPED:
USDA FOREST SERVICE
T20S R11W
N 1/16
S17/S16
2008
PLS 1941
FROM WHICH BEARING TREES PER M 146-80:
A 25" HEMLOCK BEARS N.94°E., 36.8 FT.)
A 6" HEMLOCK BEARS S.56°15'W., 28.1 FT.) WITH SCRIBE MARKS VISIBLE

② S8/S9/S16/S17 PLSS ID. NO. 300600
FOUND: A 1 1/2" IRON POST BY R. SMITH, DOUGLAS CO. SURVEYOR'S OFFICE, IN 1992 PER C.S FILE 64/23, FIRMLY SET, BURIED 20" BELOW GROUND, WITH A 2 1/2" BRASS CAP STAMPED:
DOUGLAS COUNTY SURVEYORS OFFICE
T20S
S8/S9 R
S17/S16 11
1990 W
FROM WHICH AN ORIGINAL BEARING TREE BY THIEL IN 1891:
A 84" CEDAR BEARS S.41°W., 143.2 FT. WITH NO BLAZES.
AND BEARING TREES BY R. SMITH, IN 1992 PER C.S FILE 64/23:
A 37" HEMLOCK BEARS N.19°30'W., 401.0 FT. WITH HEALED DOUBLE BLAZE (REC. N.20°45'W., 401.2 FT.)
A 19" ALDER BEARS N.61°30'E., 363.4 FT. WITH ROTTED FACE (REC. N.60°30'E., 363.6 FT.)
A 13" RED CEDAR BEARS S.72°45'E., 521.1 FT. WITH HEALED BLAZE (REC. S.74°E.)
THE WITNESS CORNER BY F. POWELL, DOUGLAS CO. SURVEYOR'S OFFICE, IN 1969 PER C.S FILE 53/66, WAS FOUND LAYING IN FIVE MILE CREEK, WASHED OUT OF POSITION BY CREEK BANK EROSION

③ E 1/16 S8/S17
FOUND: A 1 1/2" IRON PIPE BY HOOTMAN IN 1959 PER M 15-22. SET: AT EXACT POSITION OF THE 1 1/2" IRON PIPE, I SET A 2 1/2" x 30" ALUMINUM POST, 24" IN GROUND, WITH 3 1/4" ALUMINUM CAP STAMPED:
U.S.D.A. FOREST SERVICE
T20S R11W
E 1/16
S8
2008
PLS 1941
FROM WHICH BEARING TREES BY HOOTMAN IN 1959 PER M15-22:
A 36" D. FIR SNAG BEARS S.26°E., 16.5 FT. WITH SCRIBE MARKS VISIBLE.
A 39" CEDAR BEARS N.81°W., 17.0 FT. WITH A HEALED BLAZE.
AND A NEW BEARING TREE:
A 13" HEMLOCK BEARS S.23°W., 18.9 FT. SCRIBED "E 1/16 S17 BT".
I RESET HOOTMAN'S 1 1/2" PIPE NORTH, 0.2 FT.

④ 1/4 S8/S17 PLSS ID. NO. 240500
FOUND: A 1 1/4" IRON PIPE BY POWELL 1969 IN PER C.S. FILE 53/66, FIRMLY SET, PROJECTING 12" ABOVE THE GROUND, WITH A 2 1/2" BRASS CAP STAMPED:
COUNTY SURVEYORS OFFICE
T20S R11W
1/4 S8
S17
1969
FROM WHICH AN ORIGINAL BEARING TREE BY THIEL IN 1891:
A ROTTED FIR STUMP BEARS S.84°30'W., 33.7 FT.
AND BEARING TREES BY HOOTMAN IN 1959 PER M 15-22:
A 24" ALDER BEARS N.27°45'E., 13.9 FT. WITH HEALED BLAZE. (REC. N.29°E., 13.7 FT.)
A 26" ROTTED ALDER STUMP BEARS S.54°15'E., 46.8 FT. (REC. S.55°E.)
AND BEARING TREES BY POWELL IN 1969 PER C.S. FILE 53/66:
A 33" SPRUCE BEARS N.77°45'W., 49.2 FT. WITH A HEALED BLAZE. (REC. N.77°W., 49.0 FT.)
A 36" HEMLOCK BEARS S.88°W., 16.3 FT. WITH A HEALED BLAZE. (REC. S.85°W., 16.7 FT.)
AND A NEW BEARING TREE:
A 8" SPRUCE BEARS S.61°E., 34.8 FT. SCRIBED "1/4 S17 BT".
ALSO FOUND A RUSTED 2" IRON PIPE BY COLE IN 1923 PER C.S. FILE 1/35 SET ALONGSIDE.

⑤ NW 1/16 S17
FOUND: A 1 1/4" IRON PIPE BY HOOTMAN IN 1961 PER M 20-44, FIRMLY SET AND PROJECTING 8" ABOVE THE GROUND, WITH A 3" LEAD FILLED CAP STAMPED:
NW 1/16
S17
399
FROM WHICH BEARING TREES BY HOOTMAN IN 1961 PER M 20-44:
A 18" ROTTED AND BURNED HEMLOCK STUMP BEARS N.22°E., 31.6 FT. (REC. 31.4 FT.)
A 14" ROTTED AND BURNED HEMLOCK STUMP BEARS S.54°W., 11.7 FT. (REC. S.52°W., 11.9 FT.)
AND NEW BEARING TREES:
A 7" HEMLOCK BEARS N.77°45'E., 13.7 FT. SCRIBED "NW 1/16 S17 BT".
A 12" D.FIR BEARS N.86°15'W., 9.8 FT. SCRIBED "NW 1/16 S17 BT".

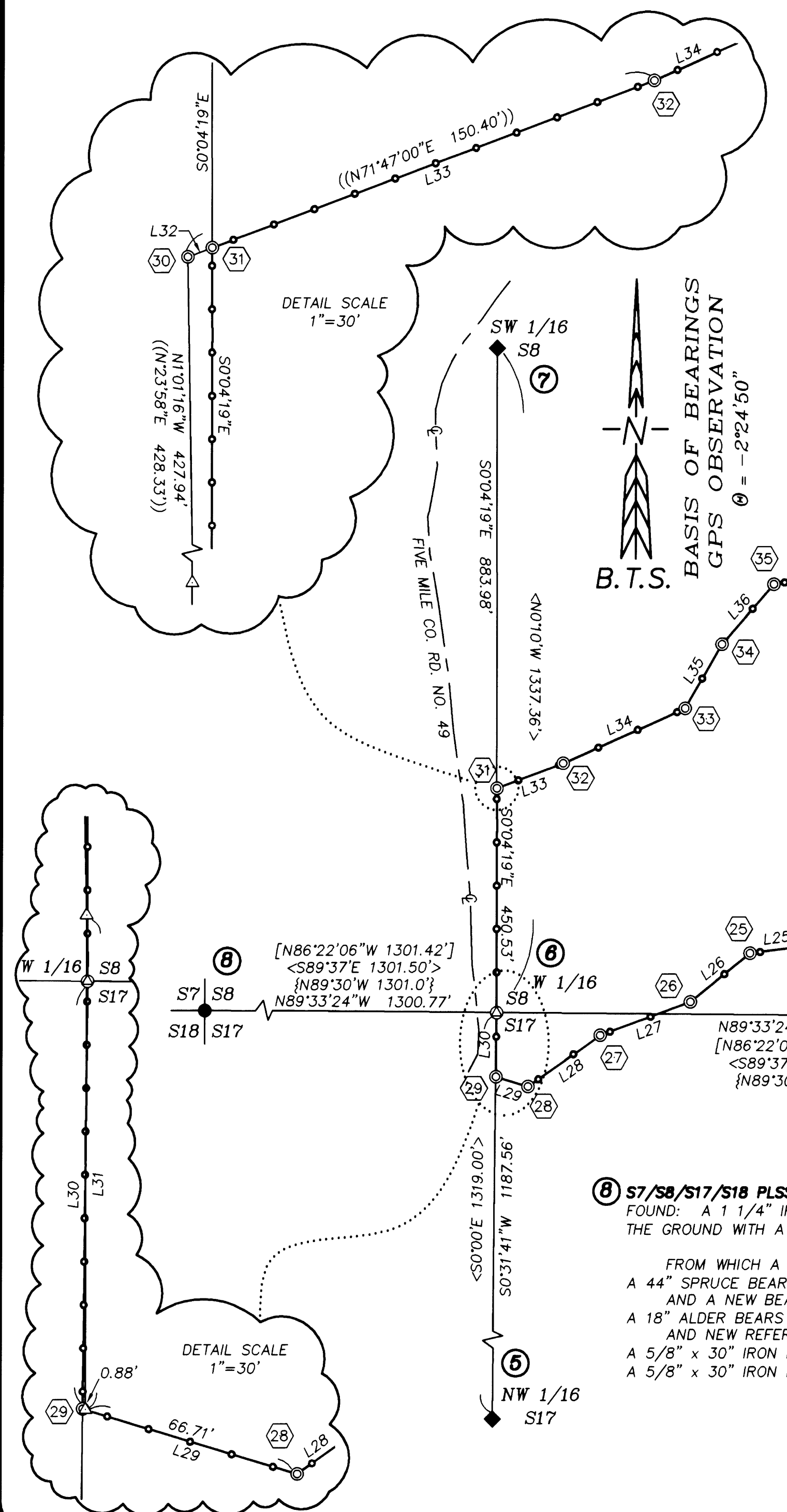
⑥ W 1/16 S8/S17
SET A USFS 2 1/2" x 30" ALUMINUM POST, FLUSH WITH THE GROUND, WITH A 3 1/4" ALUMINUM CAP STAMPED:
U.S.D.A. FOREST SERVICE
T20S R11W
W 1/16
S8
S17
2008
PLS 1941
FROM WHICH A BEARING TREE BY POWELL IN 1970 PER C.S. FILE 53/66:
A 44" SPRUCE BEARS N.73°30'E., 172.3 FT. WITH A HEALED BLAZE. (REC. N.73°E., 172.9 FT.)
AND A NEW BEARING TREE:
A 18" ALDER BEARS N.39°W., 103.8 FT. BARK SCRIBED "T20S R11W S7 BT".
AND NEW REFERENCE MONUMENTS:
A 5/8" x 30" IRON ROD WITH PLASTIC CAP BEARS S.81°39'41"E., 52.79 FT.
A 5/8" x 30" IRON ROD WITH PLASTIC CAP BEARS N.13°12'55"E., 61.35 FT.
FROM WHICH BEARING TREES BY HOOTMAN IN 1961 PER M 20-44:
A 42" D.FIR STUMP 8" TALL BEARS N.76°E., 56.7 FT. WITH SCRIBE MARKS VISIBLE. (REC. N.77°E., 58.2 FT.)
A 43" SPRUCE BEARS S.34°45'E., 52.1 FT. WITH A HEALED BLAZE. (REC. S.33°30'E., 53.7 FT.)
AND A NEW BEARING TREE:
A 23" SPRUCE BEARS N.89°15'W., 23.1 FT. SCRIBED "W 1/16 S8 BT".

EXAMINED AND ACCEPTED FOR THE U.S. FOREST SERVICE
THIS 21ST DAY OF JULY, 2008
Mike Schwartz COR
I CERTIFY THAT THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE SIUSLAW NATIONAL FOREST SUPERVISOR.
Richard A. Harvey for Bonnie T. Grant 7/21/08 DATE
SIGNATURE
CERTIFICATION:
I, KRISTIAN O. DEGROOT, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF OREGON, DO HEREBY CERTIFY, THAT THIS PLAT AND ATTACHED NARRATIVE ARE A CORRECT REPRESENTATION OF A SURVEY THAT I PERFORMED AT THE REQUEST OF THE USDA FOREST SERVICE AND IS IN ACCORDANCE WITH THE LAWS OF OREGON AND THE ARTICLES OF MY CONTRACT.
Kristian O. Degroot 7/31/08 DATE
KRISTIAN O. DEGROOT, P.L.S. NO. 1941

REGISTERED PROFESSIONAL LAND SURVEYOR
Kristian O. Degroot
OREGON
JULY 17, 1981
KRISTIAN O. DEGROOT
1941
RENEWAL DATE: 12-31-09

LEGEND:

- ⊙ = SET 5/8" x 30" IRON ROD w/ 2" ALUM. CAP STAMPED
- ⊕ = SET 2" x 30" ALUM. POST w/ 2 1/2" ALUM. CAP AS NOTED.
- ⊙ = FOUND DCSO BCIP AS NOTED
- ⊙ = FOUND 2" ALUM. PIPE w/ 2 1/2" ALUM. CAP PER M 146-80
- ⊙ = FOUND 1 1/4" IRON PIPE PER M 20-44
- Δ = COMPUTED POINT NOT SET
- [] = RECORD PER M 24-52
- <> = RECORD PER M 20-44
- { } = RECORD PER M 15-22
- (()) = RECORD PER INST. NO. 2003-023046
- = PROPERTY LINES BLAZED, PAINTED & POSTED WITH 6" CARSONITE POSTS



BTS ENGINEERING & SURVEYING, INC.
431 S.E. MAIN ST., ROSEBURG, OR 97470
PHONE (541) 673-0966 FAX (541) 673-0105

SCALE: 1" = 200'
DATE: JULY 7, 2008

FOR: SIUSLAW NATIONAL FOREST
4077 SW RESEARCH WAY
CORVALLIS, OR 97339-1148

JOB #: 07-073
FILE: 07-073 Section 8 & 17.DWG
SHEET 1 OF 1