CORNER ACCESSORIES & MARKS ON ALUMINUM CAP MONUMENTS SET

See corresponding No. on Map, below, Twp., Range, Date & PLS 848 are also shown on the aluminum caps. All Bearing Trees are scribed in accordance with the "Bureau of Land Management" (B.L.M.), "Manual of Surveying Instructions" of 1973 All Bearing Trees have Brass washers stamped PLS 848 nailed just above the BT scribing, Bearing Tree Signs nailed above blaze & Warning Signs nailed to back of tree. Painted 6" red band around each tree. Where trees are not available, steel posts with Bearing Tree, Warning & where appropriate Boundary Signs are set as accessories. See "Certified Record of Land Corner Monumentation", as filed in the office of the Grant County Surveyor, for complete description of History, Evidence found, Monument set & Accessories established.

(1) 1/4 S12/S13 — A Pine (orig B.T.) 21" dia. Bears S74°E, 19.9 ft. A Lodgepole Pine 9" dia. Bears S42°E, 19.0 ft.

(2) W1/16 S12/S13 — A Pine 12" Bears S 78°W, 36.6 ft. A " 8" " N 27°W, 7.6 ft.

(3) S11/S12 S14/S13 — A Lodgepole Pine 20" dia. Bears S1°E, 99.6 ft. A " " 9" dia. " N79°E, 61.6 ft. Set Steel Posts, East, 5.0 ft. & South, 5.0 ft.

(4) S16/S11 S15/S14 — Set Steel Posts, North 3.0 ft., East 2.5 ft., South 3.0 ft. & West 2.9 ft.

(5) N W 1/16 S 13 — A Lodgepole Pine, 12" dia. Bears N67°E, 24.4 ft. A " " " , 14" dia. " S13°E, 31.6 ft.

(6) N1/16 C S13 — A Pine 12" dia. Bears S54°E, 46.0 ft. A " 9" dia. " S73°W, 8.9 ft.

(7) C 1/4 S 13 — A Pine 12" dia. Bears N 77°E, 11.0 ft. A " 13" dia. " S 24°E 43.6 ft.

(8) RM W1/16 C S13 — Set Steel Post at 1/16 Cor., in Creek Set Std. aluminum monument, stamped as shown (3), South, 4.0 ft. from Cor. Set Steel Posts, South 7.3 ft. & West 4.7 ft. from True 1/16 Cor.

(9) 1/4 S14 S13 — A Lodgepole Pine, 8" dia. Bears N 7 1/2°W 122.4 ft. A " " , 12" dia. Bears N63 1/2°E 41.2 ft.

(10) 1/4 Cor. 15/14 not found or Monumented.

(11) 1/4 S16 S15 — A Pine 16" dia. Bears S 50°W, 70.8 ft. A " 17" dia. " S 17°E, 49.8 ft.

(12) 1/4 S16 / S21 — Set Steel Posts, North 5.4 ft. & South 5.4 ft.

(13) E1/16 S16/S21 — Set Steel Posts, North 4.9 ft. & South 4.2 ft.

(14) S16 S15 / S21 S22 — A Lodgepole Pine 28" dia. Bears S35°(?)W, 143.2 ft. Set Steel Posts, North 4.2 ft, South 5.6 ft & West 5.3 ft.

(15) S15 S14 / S22 S23 — Set Steel Posts, North 3.5, East 4.9, South 4.5 & West 3.9 ft.

(16) W1/16 S14 S23 — Set Steel Posts, South 4.8 ft. & East 6.1 ft.

(17) 1/4 S14 / S23 — Set Steel Posts, East 4.3 ft. & West 6.3 ft

(18) E1/16 S14 / S23 — Set Steel Posts, West 3.6 ft & South 3.3 ft.

(19) S14 S13 / S23 S24 — Set Steel Posts, North 5.2 ft., East 4.6 ft. South 3.8 ft. & West 4.6 ft.

(20) W1/16 S13 S24 — A Pine 12" dia. Bears N22°E, 62.2 ft. A " 10" dia. " S42°E, 45.6 ft.

(21) 1/4 S23 / S24 — Set Steel Posts, North 3.2 ft. & South 4.3 ft

(22) 1/4 S22 / S23 — Set Steel Posts, East 5.0 ft. & West 5.0 ft.

(23) 1/4 S21 / S22 — Set Steel Posts, East 5.5 ft. & West 5.1 ft.

(24) C E1/16 S21 — Set Steel Posts, North 4.4 ft. & South 4.9ft.

(25) C 1/4 S21 — Set Steel Posts, North. 3.6 ft. & South 4.2 ft.

(26) W1/16 C S21 — A Pine 10" dia. Bears N4° W, 15.4 ft. A " 8" dia. " S 8°W, 6.7 ft.

(27) S W 1/16 S 21 — A Pine 9" dia. Bears N58°16'W, 55.9 ft. A " 13" dia. " S 39°51'E, 62.3 ft.

(28) C S1/16 C S21 — Set Steel Posts, West 4.7 ft & South 4.6 ft.

(29) S E 1/6 S 21 — Set Steel Posts, North 4.5 ft. & East 4.0 ft.

(30) S1/16 S21 S22 — Set Steel Posts, South 5.2 ft & West 4.1 ft.

(31) S23 S24 / S26 S25 — Set Steel Posts, North 24.8 ft., East 7.7 ft South 6.4 ft. & West 17.2 ft.

(32) S23 S23 / S27 S26 — Set Steel Posts, North 4.7 ft., East 5.0 ft. South 4.8 ft. & West 5.3 ft.

(33) 1/4 S22 / S27 — Set Steel Posts, North 4.5 ft. & South 4.8 ft.

(34) W1/16 S22 / S27 — Set Steel Posts, South 4.7 ft & West 5.6 ft.

(35) S21 S22 / S28 S27 — Set Steel Posts, North, 5.0 ft., East 3.7 ft. South 4.9 ft. & West 4.8 ft.

(36) 1/4 S21 / S28 — A Pine 29" dia. Bears S 20°40' E, 98.7 ft. A " 29" dia. Bears N, 68 1/2°E, 16.6 ft.

(37) S20 S21 / S29 S28 — A Pine 8" dia. Bears N33°W, 17.6 ft. A 8" dia. " N53°E, 27.4 ft. A " 9" dia. " S64°E, 26.2 ft. A " 10" dia. " S 80°W, 39.4 ft.

(38) N W 1/16 S 27 — Set Steel Posts North, 2.6 ft. & East 3.5 ft.

(39) N1/16 C S27 — Set Steel Posts, East 4.0 ft. & West 5.7 ft.

(40) NE 1/16 S27 — Set Steel Posts, South 4.4 ft. & West 4.6 ft.

(41) 1/4 S 27 S26 — Set Steel Posts, East 4.8 ft. & West 4.1 ft.

(42) C E1/16 C S27 — Set Steel Posts, North 5.4 ft. & South 5.5 ft.

(43) C 1/4 S 27 — Set Steel Posts, East .6 ft. & West 4.1 ft.

(44) C W1/16 C S27 — Set Steel Posts, West 4.5 ft. & South 4.6 ft.

(45) 1/4 S28 S27 — Set Steel Posts, East 9.5 ft & West 4.2 ft.

(46) C1/4 S28 — A Pine 9" dia. Bears N69°E, 22.4 ft. A " 8" dia. Bears N 22°W, 14.3 ft.

(47) 1/4 S29 S28 — A Pine 12" dia. Bears N70°E, 12.7 ft. A " 9" dia. Bears N77°W, 27.1 ft.

(48) SW 1/16 S 27 — Set Steel Posts, North 4.2 ft & East 4.9 ft A Lodgepole Pine 18" dia. Bears S13°W, 32.9 ft.

(49) C S1/16 C S27 — A Pine 18" dia. Bears N65°15'W, 113.1 ft. A " 9" dia. Bears S81°45'W, 67.2 ft.

(50) SE 1/6 S 27 — Set Steel Posts, North 4.1 ft., East 4.0 ft South 6.0 ft. & West 2.7 ft.

(51) S1/16 S27 S26 — Set Steel Posts, West 4.3 ft. & South 7.9 ft.

(52) S27 S26 / S34 S35 — Set Steel Posts, North 4.0 ft., East 5.2 ft, South 5.6 ft. & West 4.0 ft.

(53) E1/16 S27 / S34 — Set Steel Posts, North 5.3 ft. & South 5.2 ft.

(54) 1/4 S27 / S34 — A Pine 14" dia. Bears N60°E, 149.5 ft. Set a Steel Post North 4.1 ft & South 3.9 ft.

(55) S28 S27 / S33 S34 — A Pine 14" dia. Bears N36°W 135.5 ft. A " 12" dia. " N43 1/2°E, 28.3 ft. A Pine (original B.T.) Bears S85°E, 174ft. A Pine 13" dia. Bears S 9°W, 38.9 ft.

(56) 1/4 S28 / S33 — A Forked Pine, 13" dia. base & 8" dia. forks, Bears S 76 1/2°W, 8.3 ft. A Pine 8" dia. Bears N3°E, 32.2 ft.

(57) S29 S28 / S32 S33 — A Lodgepole Pine 12" dia Bears N44°W, 25.1 ft. A Tamarack 8" dia. Bears N 1°E, 34.9 ft. A Fir 10" dia. Bears S84°E, 19.0 ft. A " 8" dia. " S89°W, 15.6 ft.

(58) 1/4 S32 / S33 — A Pine 19" dia. Bears S70°W, 12.5 ft. A Fir 18" dia. " S 35°E, 40.2 ft.

(59) 1/4 S33 / S34 — A Tamarack (Original B.T.) 26" dia. Bears S48°W, 13.8 ft. A Lodgpole Pine 9" dia. Bears S55°E, 34.6 ft.

(60) C 1/4 S34 — Set Steel Posts, South 2.3 & East 2.3 ft.

(61) C E1/16 C S34 — Set Steel Posts North 5.0 ft & West 5.2 ft.

(62) 1/4 S34 / S35 — Set Steel Posts S 14°W 5.0 ft. & East 3.2 ft.

(63) S1/16 S34 S35 — Set Steel Posts, East 2.2 ft. & South 2.8 ft.

(64) S32 S33 / S 5 S4 — A Fir 12" dia. Bears N 59°W, 14.2 ft. A 11" dia. Bears N 32°E, 15.8 ft. A " 15" dia. Bears S 87°W, 11.6 ft.

(65) 1/4 S33 / S 4 — A Fir 12" dia. Bears N43°W, 6.8 ft. A Pine 17" dia. Bears S43°E, 15.2 ft.

(66) S33 S34 / S 4 S 3 — A Pine 18" dia. Bears N41°W, 26.3 ft. A " 16" dia. " N11°E, 20.8 ft. A " 12" dia. " S 25°E, 13.0 ft. A " 16" dia. " S 70°W, 16.5 ft.

(67) 1/4 S34 / S 3 — A Pine 8" dia. Bears N57°19'W, 156.6 ft. A Pine 12" dia. " S 24°W, 118.0 ft.

(68) S34 S35 / S 3 S 2 — Set Steel Posts, North 2.7 ft., East 2.2 ft, South 3.0 ft. & West 2.5 ft.

(69) A / S 3 — A Pine 8" dia. Bears N 38°W, 40.3 ft. A " 9" dia. " N41°E, 55.1 ft.

(70) C E1/16 C S 23 — Set Steel Posts North 4.0 & South 3.9 ft.

(71) C 1/4 S 23 — Set Steel Posts North 4.3 ft & South 4.0 ft.

(72) W1/16 S23 — Set Steel Posts North 4.0 ft. & South 4.2 ft.

(73) W1/16 S23 S26 — Set Steel Posts, North 4.7 ft. & South 4.5 ft.

(74) 1/4 S23 S26 — Set Steel Posts, North 5.6 ft. & South 5.2 ft.

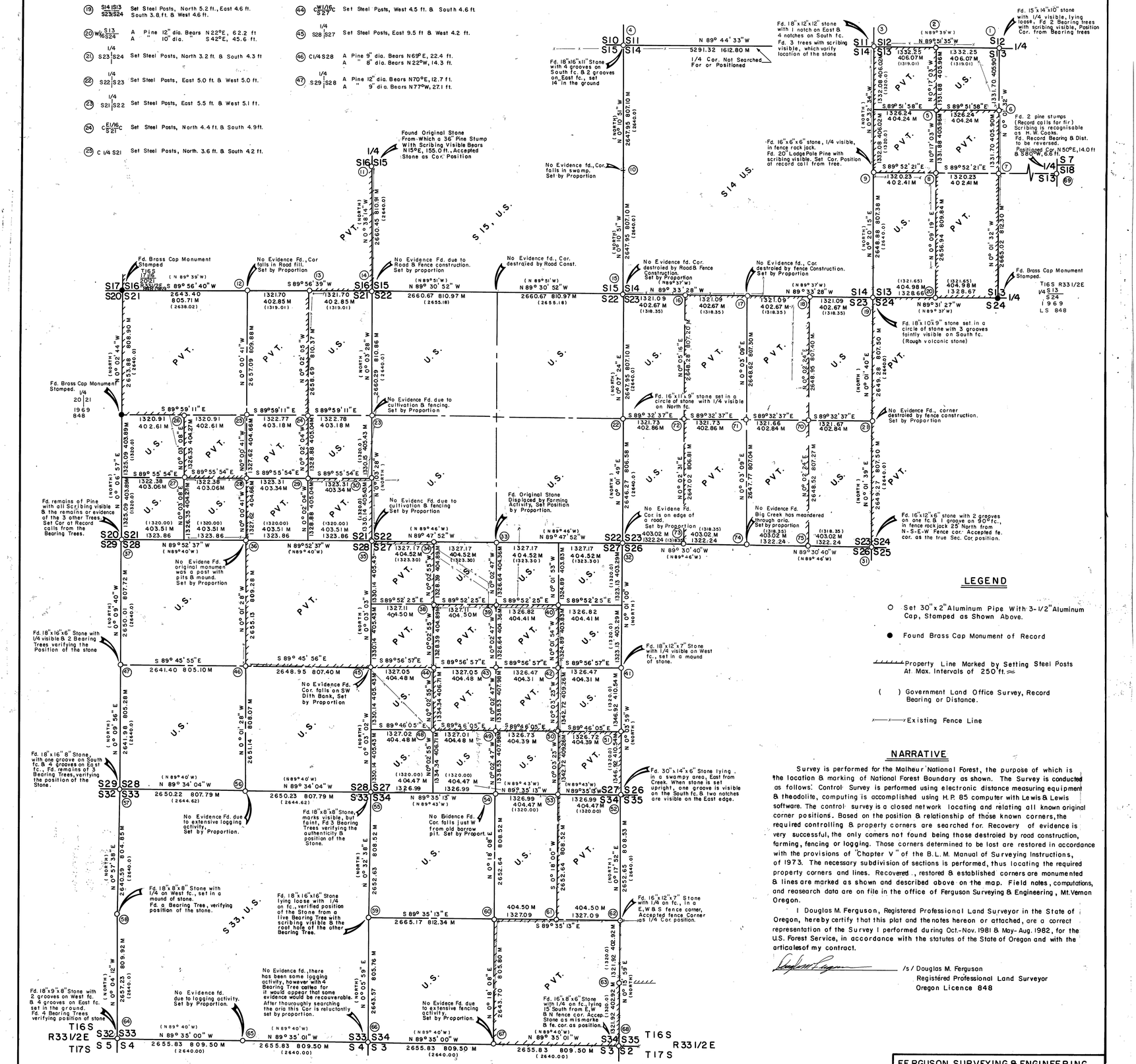
(75) E1/16 S23 S26 — Set Steel Posts, North 3.1 ft & South 3.8 ft.

Mag. Dec. = 20° E

1000' 0' 1000' 2000' 3000'
304.80M 0M 304.80M 609.60M 914.40M
SCALE: 1" = 1000'

BASIS OF BEARINGS

SOLAR OBSERVATIONS CONVERTED TO LOCAL GRID ONE MILE FROM WEST EDGE OF SURVEY



LEGEND

- ○ Set 30" x 2" Aluminum Pipe With 3-1/2" Aluminum Cap, Stamped as Shown Above.
- ● Found Brass Cap Monument of Record
- Property Line Marked by Setting Steel Posts At Max. Intervals of 250 ft.≈
- ( ) Government Land Office Survey, Record Bearing or Distance.
- Existing Fence Line

NARRATIVE

Survey is performed for the Malheur National Forest, the purpose of which is the location & marking of National Forest Boundary as shown. The Survey is conducted as follows: Control Survey is performed using electronic distance measuring equipment & theodolite, computing is accomplished using H.P. 85 computer with Lewis & Lewis software. The control survey is a closed network locating and relating all known original corner positions. Based on the position & relationship of those known corners, the required controlling & property corners are searched for. Recovery of evidence is very successful, the only corners not found being those destroied by road construction, farming, fencing or logging. Those corners determined to be lost are restored in accordance with the provisions of "Chapter V" of the B.L.M. Manual of Surveying Instructions, of 1973. The necessary subdivision of sections is performed, thus locating the required property corners and lines. Recovered, restored & established corners are monumented & lines are marked as shown and described above on the map. Field notes, computations, and reasearch data are on file in the office of Ferguson Surveying & Engineering, Mt. Vernon Oregon.

I Douglas M. Ferguson, Registered Professional Land Surveyor in the State of Oregon, hereby certify that this plat and the notes hereon or attached, are a correct representation of the Survey I performed during Oct.-Nov. 1981 & May- Aug. 1982, for the U.S. Forest Service, in accordance with the statutes of the State of Oregon and with the articales of my contract.

/s/ Douglas M. Ferguson
Registered Professional Land Surveyor
Oregon Licence 848

HISTORY, T.16S., R.33-1/2E., W.M.

Township East Exterior Surveyed in May 1883, by Henry W. Cooke, under General Land Office Contract No. 470
Township South Exterior Surveyed in Nov. 1883, by Henry W. Cooke, under General Land Office Contract No. 488
Township Subdivision in May, 1884, by Henry W. Cooke, under General Land Office Contract No. 494
In 1969 this Surveyor (P.L.S. 848) Remonumented original Corners as shown above on the map

RECEIVED AND FILED
FEB 17 1983
OFFICE OF COUNTY SURVEYOR
Attest: Sammie Lawrence

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON JULY 15, 1980 DOUGLAS M. FERGUSON 848

FERGUSON SURVEYING & ENGINEERING MT. VERNON, OR.	
MAP OF SURVEY RETRACEMENT & LOCATION OF NATIONAL FOREST BOUNDARY IN SECTIONS 13,14,15,21,22,23,27 28, 33 & 34, ALL IN T.16 S., R.33-1/2E., W.M.	
GRANT COUNTY OREGON	
FOR: MALHEUR NATIONAL FOREST	BY: Douglas M. Ferguson
DATE: 1982	SHEET 1 OF 1
SCALE: 1" = 1000'	DRAWN BY: D. M. Ferguson

MAP OF SURVEY NO. 751