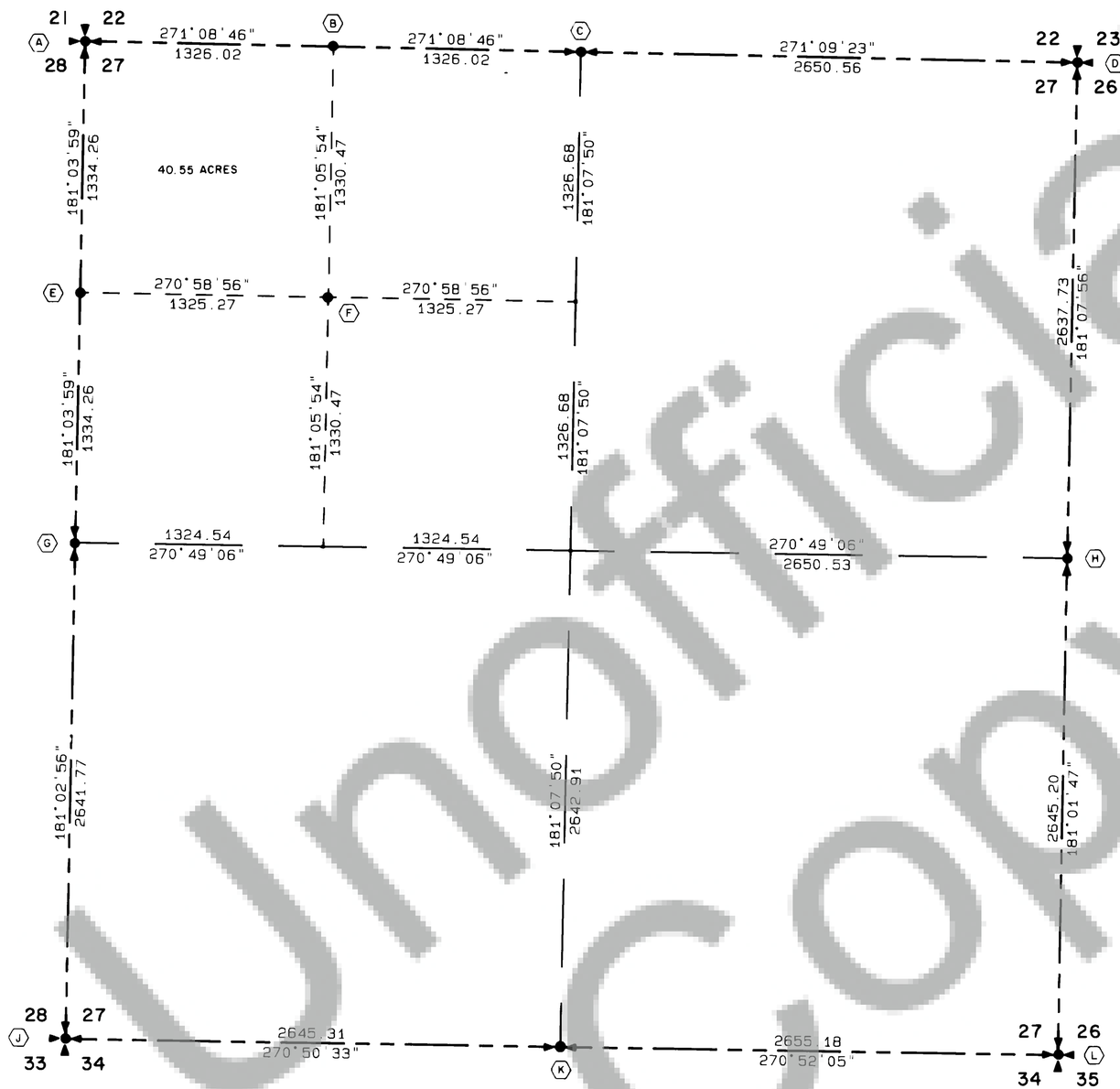

SEE SHEET 2 OF 2 FOR CORNER NOTES.

CONTROL

HORTIZONTAL:

THREE NEW CONTROL STATIONS WERE ESTABLISHED USING N.G.S. 2ND ORDER, CLASS II SPECIFICATIONS. THESE STATIONS ARE REFERENCED TO N.G.S. STATION "OBSERVATION 2", A 2ND ORDER TRIANGULATION STATION. THESE STATIONS WERE ADJUSTED BY THE LEAST SQUARES METHOD.

SEVEN PROJECT CONTROL POINTS WERE ESTABLISHED, USING THE THREE NEW CONTROL STATIONS MENTIONED ABOVE, USING N.G.S. 3RD ORDER SPECIFICATIONS.

VERTICAL:

THE VERTICAL CONTROL WAS CALCULATED BY TRIG LEVELS, HOLDING THE ELEVATION OF N.G.S. STATION "OBSERVATION 2".

PHOTOGRAMMETRY

23 PANEL TARGETS WERE SET OUT OF WHICH:
- 3 WERE DIRECTLY ON CONTROL STATIONS.
- 7 WERE DIRECTLY ON PROJECT CONTROL POINTS.
- 6 WERE PLACED DIRECTLY ON G.L.O. CORNERS.
- 1 WAS PLACED DIRECTLY ON A G.L.O. LINE TREE.
- 6 WERE PLACED, EITHER SINGULARLY OR IN PAIRS, IN THE VICINITY OF THE REMAINING G.L.O. CORNERS WITHIN THE PROJECT BOUNDARY.

PRETARGETED AERIAL PHOTOGRAPHY WAS OBTAINED ON JULY 19, 1986 AT THE SCALE OF 1: 18,000 WITH 80% ENDLAP. A WILD RE-10 CAMERA WAS USED WITH A CALIBRATED FOCAL LENGTH OF 213.679 MILLIMETERS. STATE PLANE COORDINATES WERE DETERMINED FOR THE TARGETED REFERENCED POINTS BY ANALYTICAL AEROTRIANGULATION USING THE SIMULTANEOUS BUNDLE ADJUSTMENT. THE ROOT MEAN SQUARE ERROR OF THE PRIMARY CONTROL POINTS RESIDUALS AS DETERMINED FROM THE ANALYTICAL BLOCK SOLUTION AND COMPARED TO THE SURVEYED CONTROL COORDINATES ARE:
- EASTING R.M.S. = 0.081 FEET
- NORTHING R.M.S. = 0.028 FEET
- ELEVATION R.M.S. = 1.175 FEET
- POSITON R.M.S. (X, Y) = 0.085

ONE MAP OF SCALE 1" = 400 FEET, COVERING 4 SECTIONS, WAS COMPILES FROM 1:24,000 PHOTOGRAPHY, WHICH WAS FLOWN ON JULY 19, 1986. A CORRIDOR OF TOPOGRAPHIC AND PLANIMETRIC DETAILS ALONG EACH SECTION MILE WERE MAPPED. CLEAR MYLAR STRIPS MARKED WITH G.L.O. TOPOGRAPHY CALLS OF EACH SECTION MILE, AND TO THE SAME SCALE AS THE MAPS, WERE PRODUCED. BOTH THESE STRIPS AND MAPS WERE USED TO DETERMINE THE SEARCH POSITIONS FOR CORNERS AND THE CONCLUSIONS DERIVED UNDER THE G.L.O. CORNER RECOVERY STATEMENT.

SCALE: 1" = 500'

BASIS OF MERIDIAN:

TIES TO THE FOLLOWING 1986 DNR CONTROL STATIONS:

2 - 6 N. - 5 E.
3 - 6 N. - 5 E.
4 - 6 N. - 5 E.

TRUE NORTH: -1° 12' 53" AT CENTER 1/4 CORNER

GRID FACTOR: 0.9997864

DESCRIPTION OF STATE OWNERSHIP

NW 1/4 NW 1/4,

ALL IN SEC. 27, T. 6 N., R. 5 E., W.M.

G.L.O. CORNER SYMBOLS:

- FOUND OR ACCEPTED
- CALCULATED - SET
- CALCULATED - NOT SET

LEGEND

Set - Indicates standard D.N.R. monument unless otherwise noted.

STANDARD D.N.R. MONUMENTS ARE:

2⅜" O.D. aluminum alloy pipe with "breakaway" plastic base.

3¼" diameter aluminum alloy cap stamped with proper corner identification, permanent, vertically oriented magnets are included in the monument base and cap.

STANDARD D.N.R. CAPS ARE:

3¼" diameter aluminum alloy disks with a vertically oriented magnet and stamped with proper corner identification set as noted.

D.N.R. concrete monuments are 3" diameter with brass cap stamped with proper corner identification.

D.N.R. iron pipes are 1" diameter with brass cap stamped with proper corner identification.

AUDITOR'S CERTIFICATE

Filed for record this 5TH day of JANUARY, 19 88 at 12:44 P. M. in Book 2 of Surveys at page 273 at the request of the Washington State Department of Natural Resources.

104533
Auditor's File Number

A. Davis, Dep.
Skamania County Auditor

SURVEYOR'S CERTIFICATE

This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Survey Recording Act at the request of the Department of Natural Resources in October, 19 87.

H. Thomas Laird Jr.
H. Thomas Laird Jr., P.L.S.

21490
Certificate Number

H. THOMAS LAIRD JR. STATE OF WASHINGTON REGISTERED PROFESSIONAL LAND SURVEYOR

A SURVEY IN
SECTION 27 TOWNSHIP 6 NORTH, RANGE 5 EAST, W.M.

SURVEYED BY: H. THOMAS LAIRD JR P.L.S.

DRAWN BY: B. ERIK NEDERGARD

STATE OF WASHINGTON · DEPARTMENT OF NATURAL RESOURCES

CHECKED BY: LAWRENCE J. HOLT P.L.S.

DATE: 12 AUGUST 1987

104533

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FILED FOR RECORD
STATE OF WASH
BY D.N.R.
JAN 5 12 44 PM '88
D. Olson, Aud.
DEPUTY
GARFIELD DIVISION

Surveys Page 274

Book 2

BOOK 2 PAGE 274

Ⓐ

FD: 20"X14"X12" ORIGINAL G.L.O. ANDESITE CORNER STONE WITH TWO NOTCHES ON SOUTH SIDE AND THREE NOTCHES ON EAST SIDE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909. HELD FOR CORNER.
32" TRUE FIR BEARING TREE STUB, 30 FEET HIGH WITH OVERGROWN FACE AT N21°E., 84 FEET.
66" CEDAR BEARING TREE WITH VISIBLE SCRIBING AT S.63°E., 45 FEET.
48" TRUE FIR BEARING TREE WITH OVERGROWTH AT S.52°W., 92 FEET.
DECAYED FIR BEARING TREE STUB, 1 FOOT HIGH AT N.56°W., 102 FEET.
THIS SURVEY CHISELED AN "+" ATOP FOUND ORIGINAL G.L.O. ANDESITE CORNER STONE.
3 RP'S.:
13" TRUE FIR AT N.37 E., 19.56'
17" TRUE FIR AT S.60 W., 31.98'
8" TRUE FIR AT N.32 W., 6.47'
F.B. 601.07 P. 49

Ⓑ

CALCULATED MID-POINT.
SET DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP AT CALCULATED POSITION SURROUNDED BY ROCKS 4 FEET WEST OF TRAIL TO HEARTBREAK HILL.
4 RP'S.:
9" SUB-ALPINE FIR AT N.78 E., 2.99'
'HANLIN HEIGHTS' ROCK OUTCROP AT S.30 E., 150' (+/-)
13" SUB-ALPINE FIR AT S.46 W., 11.26'
11" SUB-ALPINE FIR AT N.28 W., 21.34'
F.B. 601.07A P. 25

Ⓒ

FD: 15"X10"X8" ORIGINAL G.L.O. PORPHYRY CORNER STONE WITH '1/4' MARKED ON NORTH SIDE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
37" LIVE FIR BEARING TREE WITH VISIBLE SCRIBING AT N.44 E., 19.0 FEET.
38" LIVE FIR BEARING TREE WITH HEALED OVER FACE AT S.8 W., 29.89 FEET (SPECIES AND SIZE DO NOT MATCH G.L.O., BUT THIS IS OBVIOUSLY A BEARING TREE, NOT DESCRIBED PROPERLY BY MR. RHODES IN 1909).
THIS SURVEY REPLACED FOUND ORIGINAL G.L.O. CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP AND PLACED FOUND ORIGINAL CORNER STONE ON NORTH SIDE OF DNR MONUMENT AS A MEMORIAL.
3 RP'S.:
8" HEMLOCK AT N.2 E., 10.76'
57" FIR AT S.26 E., 37.72'
38" FIR AT S.8 W., 29.89'
F.B. 601.07 P. 46

Ⓓ

FD: 24"X12"X10" ORIGINAL G.L.O. GRANITE CORNER STONE SET FIRMLY IN GROUND WITH 2 NOTCHES ON SOUTH AND EAST EDGES AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909. HELD FOR CORNER.
26" FIR BEARING TREE STUB, 6 FEET HIGH WITH VISIBLE AXE MARKS AT N.25 E., 98 FEET (SLOPE) OR 92 FT. (HORIZONAL) TO CENTER OF STUB.
22" HEMLOCK BEARING TREE STUB, 2 FEET HIGH AND ROTTED AT S.87 E., 21.0 FT. (SLOPE) TO CENTER OF STUB.
18" HEMLOCK BEARING TREE STUB, 2 FEET HIGH AND ROTTED AT S.43 W., 17.5 FT. (SLOPE) TO CENTER OF STUB.
40" FIR BEARING TREE STUB, 20 FT. HIGH AT N.35 W., 8.6 FT. (HZ.) TO CENTER OF STUB.
4 RP'S.:
8" WHITE FIR AT N.7 E., 9.23'
13" TRUE FIR AT S.42 E., 20.00'
13" WHITE FIR AT S.50 W., 8.33'
12" WHITE FIR AT N.76 W., 3.54'
F.B. 601.07 P. 55

Ⓔ

CALCULATED MID-POINT.
SET STAMPED DNR ALUMINUM CAP INTO BEDROCK AT CALCULATED POSITION. CORNER IS 15 FEET SOUTH OF RIDGE TOP, 10 FEET SOUTH OF TRAIL AND 2 FEET SOUTH OF 8 FOOT VERTICAL ROCK WALL.
3 RP'S.:
10" SUB-ALPINE FIR AT S.46 E., 28.00'
15" SUB-ALPINE FIR AT S.73 W., 11.25'
13" SUB-ALPINE FIR AT N.61 W., 35.80'
F.B. 601.07A P. 27

Ⓕ

SET DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP 3" ABOVE GROUND AT CALCULATED POSITION ON STEEP EAST SLOPE APPROXIMATELY 400 FEET EAST OF TRAIL.
4 RP'S.:
11" TRUE FIR AT N.58 E., 15.92'
8" TRUE FIR AT S.2 W., 13.20'
8" TRUE FIR AT S.48 W., 10.67'
10" TRUE FIR AT N.29 W., 7.95'
F.B. 601.07A P. 29

Ⓖ

FD: 6"X9"X10" ORIGINAL G.L.O. BASALT CORNER STONE WITH '1/4' MARKED ON NORTH SIDE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
34" FIR BEARING TREE STUB WITH VISIBLE SCRIBE AT N.47 E., 28 FEET.
45" FIR BEARING TREE SNAG WITH VISIBLE SCRIBE AT N.46 W., 14 FEET.
THIS SURVEY REPLACED FOUND ORIGINAL G.L.O. CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP 6" ABOVE GROUND AND PLACED FOUND ORIGINAL CORNER STONE ON WEST SIDE OF DNR MONUMENT AS A MEMORIAL.
4 RP'S.:
22" FIR AT N.17 E., 5.19'
14" FIR AT S.12 E., 6.86'
20" FIR AT S.39 W., 10.51'
16" FIR AT N.22 W., 16.18'
F.B. 601.07A P. 57

Ⓗ

FD: 16"X10"X8" ORIGINAL G.L.O. ANDESITE CORNER STONE WITH A '4' SCRIBED ON IT AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
ROTTED REMAINS OF 12" FIR BEARING TREE AT S.82 E., 10 FEET.
ROTTED 24" FIR BEARING TREE STUB AT S.76 W., 30 FEET.
THIS SURVEY REPLACED FOUND ORIGINAL G.L.O. CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP 6" ABOVE GROUND AND PLACED FOUND ORIGINAL CORNER STONE ON SOUTH SIDE OF DNR MONUMENT AS A MEMORIAL.
3 RP'S.:
13" HEMLOCK STUMP AT N.14 E., 10.25
13" FIR STUMP AT N.70 E., 19.08'
12" HEMLOCK STUMP AT N.35 W., 2.69'
F.B. 601.07 P. 53

Ⓙ

FD: 12"X9"X9" ORIGINAL G.L.O. SANDSTONE CORNER STONE WITH 1 NOTCH ON SOUTH SIDE AND 3 NOTCHES ON EAST SIDE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
40" FIR BEARING TREE SNAG WITH VISIBLE SCRIBE AT N.62 E., 44.4 FT. (SLOPE).
38" HEMLOCK BEARING TREE STUB WITH FAINT SCRIBE AT S.24 E., 7 FEET (HORIZONAL).
22" ROTTED HEMLOCK BEARING TREE STUB AT S.50 W., 29 FT. (HORIZONAL)
30" FIR BEARING TREE SNAG WITH FAINT SCRIBE AT N.76 W., 20 FT. (HORIZONAL)
THIS SURVEY REPLACED FOUND ORIGINAL G.L.O. CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP IN A CLEARING FOR PHOTO TARGET AND PLACED FOUND CORNER STONE ON SOUTH SIDE OF DNR MONUMENT AS A MEMORIAL.
4 RP'S.:
14" FIR STUMP AT N.80 E., 10.45'
16" FIR STUMP AT S.43 E., 12.84'
16" FIR STUMP AT S.42 W., 10.97'
15" HEMLOCK STUMP AT N.21 W., 11.14'
F.B. 601.07 P. 44

Ⓚ

FD: 20"X15"X9" ORIGINAL G.L.O. CORNER STONE WITH '1/4' MARKED ON NORTH FACE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
20" HEMLOCK BEARING TREE STUMP AT N.30 E., 26 FEET.
24" HEMLOCK BEARING TREE STUMP AT S.19 W., 55 FEET.
THIS SURVEY REPLACED FOUND ORIGINAL CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP 6" ABOVE GOUND AND PLACED FOUND CORNER STONE ON SOUTH SIDE OF DNR MONUMENT AS A MEMORIAL.
4 RP'S.:
12" HEMLOCK STUMP AT N.30 E., 16.60'
20" HEMLOCK STUMP AT N.83 E., 10.51'
16" FIR STUMP AT S.6 W., 7.03'
16" FIR STUMP AT N.73 W., 15.02'
F.B. 601.07A P. 55

Ⓛ

FD: 7"X11"X12" BROKEN ORIGINAL G.L.O. SANDSTONE CORNER STONE WITH TWO NOTCHES ON EAST SIDE AND ONE NOTCH ON SOUTH SIDE AS SET BY G.L.O. SURVEYOR, C. FRANK RHODES IN 1909.
38" FIR BEARING TREE STUB AT N.60°E., 67 FEET TO CENTER.
50" FIR BEARING TREE SNAG AT S.67 E., 5 FEET TO CENTER (BEARING DOES NOT FIT G.L.O. NOTES).
40" FIR BEARING TREE SNAG WITH VISIBLE SCRIBING AT S.38 W., 49 FEET TO CENTER.
34" FIR BEARING TREE SNAG AT N.22 W., 36 FEET TO CENTER.
THIS SURVEY REPLACED FOUND ORIGINAL G.L.O. CORNER STONE WITH DNR ALUMINUM MONUMENT WITH STAMPED ALUMINUM CAP 6" ABOVE GROUND AND PLACED TOP HALF OF FOUND ORIGINAL CORNER STONE ON NORTH WEST SIDE OF DNR MONUMENT AND THEN PLACED BOTTOM HALF OF CORNER STONE ON SOUTHEAST SIDE OF DNR MONUMENT AS A MEMORIAL.
3 RP'S.:
25" HEMLOCK AT N.30 E., 20.48'
18" HEMLOCK AT S.20 E., 15.01'
12" HEMLOCK AT S.43 W., 11.72'
F.B. 601.07 P. 51

LEGEND

Set · Indicates standard D.N.R. monument unless otherwise noted.

STANDARD D.N.R. MONUMENTS ARE:

2⅜" O.D. aluminum alloy pipe with "breakaway" plastic base.

3¼" diameter aluminum alloy cap stamped with proper corner identification, permanent, vertically oriented magnets are included in the monument base and cap.

STANDARD D.N.R. CAPS ARE:

3¼" diameter aluminum alloy disks with a vertically oriented magnet and stamped with proper corner identification set as noted.

D.N.R. concrete monuments are 3" diameter with brass cap stamped with proper corner identification.

D.N.R. iron pipes are 1" diameter with brass cap stamped with proper corner identification.

AUDITOR'S CERTIFICATE

Filed for record this 5TH day of JANUARY, 19 88 at 12:44 P M. in Book 2 of Surveys at page 274 at the request of the Washington State Department of Natural Resources.

104533
Auditor's File Number

D. M Olson by d. Deus Dep.
Skamania County Auditor

SURVEYOR'S CERTIFICATE

This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Survey Recording Act at the request of the Department of Natural Resources in October, 19 87.

H. Thomas Laird Jr.
H. Thomas Laird Jr., P.L.S.

21490
Certificate Number

H. THOMAS LAIRD JR. STATE OF WASHINGTON REGISTERED PROFESSIONAL LAND SURVEYOR

A SURVEY IN
SECTION 27 TOWNSHIP 6 NORTH, RANGE 5 EAST, W.M.

SURVEYED BY: H. THOMAS LAIRD JR. P.L.S.
DRAWN BY: B. ERIK NEDERGARD

STATE OF WASHINGTON · DEPARTMENT OF NATURAL RESOURCES

CHECKED BY: LAWRENCE J. HOLT P.L.S.
DATE: 12 AUGUST 1987

SHEET 2 OF 2. 631