

HORIZONTAL CONTROL, RECOVERY & RETRACEMENT SURVEY HOOD RIVER HWY. 281 AT PACIFIC AVE.

MILE POST 0.67 TO 1.17
LOCATED IN THE SE. 1/4, SEC. 35 AND
IN THE SW. 1/4, SEC. 36
T. 3 N., R. 10 E., WILLAMETTE MERIDIAN
JAMES M. BENSON D.L.C. 39
HOOD RIVER COUNTY, OREGON
NOVEMBER 30, 2001

HOOD RIVER COUNTY
SURVEY RECORDS

DATE FILED 3/13/03 *Brian P. Tandy*

CS 2003 013
REGISTER NUMBER

NARRATIVE

PURPOSE

THIS IS A RECOVERY SURVEY TO REFERENCE FOUND MONUMENTS, LOCATE CERTAIN RIGHT-OF-WAY (R/W) LINES, AND IDENTIFY PERMANENT HORIZONTAL CONTROL ESTABLISHED FOR A PROPOSED OREGON DEPARTMENT OF TRANSPORTATION (ODOT) PROJECT. SAID PROJECT HAS BEEN ASSIGNED ODOT KEY NUMBER 11915. THIS SURVEY MEETS THE REQUIREMENTS OF ORS 209.155(1)(X5).

BASIS OF BEARING, COORDINATES

COORDINATES WERE ASSUMED AND HELD ON POINT 47, (THE SW. CORNER OF SECTION 36). THE BEARING BETWEEN POINTS 47 AND 125 (THE WEST 1/4 CORNER OF SECTION 36) WAS HELD FOR THE BASIS OF BEARINGS AS S 00°07'00"W AS SHOWN ON ODOT R/W MAP 8B-36-13.

ALIGNMENT DESCRIPTION

'HR' IS THE RECORD ALIGNMENT OF THE HOOD RIVER HWY. SECTION SHOWN ON ODOT R/W MAP 8B-36-13. FOUND MONUMENT POINT 125 WAS HELD FOR CENTERLINE OF THE HWY. AND FOR STATIONING AS NOTED ON SAID ODOT MAP. POINT 125 WAS STATIONED AS 'HR' 3+078.480 (10+00 ON MAP 8B-36-13).

'PACIFIC' IS THE RECORD ALIGNMENT OF PACIFIC AVE. AS SHOWN ON HOOD RIVER COUNTY SURVEY NUMBER (SN) 7324. POINT 1034 WAS HELD FOR CENTERLINE. THE ANGLE BETWEEN PACIFIC AVE. AND HOOD RIVER HWY. ALIGNMENTS WAS HELD AT 89°37'10" AS PER SN 7324.

R/W LINES

R/W LINES FOR HOOD RIVER HWY. ARE AS SHOWN ON ODOT MAP 8B-36-13. R/W LINES FOR PACIFIC AVE. ARE AS DESCRIBED IN HOOD RIVER COUNTY DEED DOCUMENTS 731329, 731330 AND 731331.

REFERENCE DOCUMENTS

ODOT R/W MAP 8B-36-13 (JULY 1966)
HOOD RIVER COUNTY SURVEYS
2000 045 99067 98059
99007 99083 90067
99012 81014
99024 7562
99037 7324
HOOD RIVER COUNTY DEED RECORD (DOC.) 731329, 731330, 731331

INDEX

SHEET 1 - NARRATIVE, QUALITY CONTROL
SHEET 2 - PROJECT CONTROL SHEET
SHEET 3, 4, 5 & 6 PROJECT RECOVERY SHEETS

PROJECT TEAM

FIELD LEADER : B. GIGSTAD
DRAWN BY : T. HALE
CALCULATED BY : T. HALE
PROJECT SURVEYOR: F. OBJIJOFOR
STANDARDS : L. HOOVER
SENIOR SURVEYOR : R. HAMILTON
SURVEY MANAGER : B. TANDY

SPECIAL NOTES

THIS SURVEY WAS PERFORMED USING METRIC MEASURE. TO CONVERT FROM METRIC TO INTERNATIONAL FEET, DIVIDE BY THE FOLLOWING CONVERSION FACTORS:

25.40 MILLIMETERS (mm)/INCH
0.3048 METERS (m)/FOOT

ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.

THIS SURVEY WAS PREPARED USING HEWLETT-PACKARD PRODUCT NO. 51645A ON CONTINENTAL JPC4M2 POLYESTER FILM.

QUALITY CONTROL

HORIZONTAL CONTROL WAS ESTABLISHED BY EXECUTING A NETWORK USING FORCED CENTERING METHODS. TWO SETS OF HORIZONTAL ANGLES WERE TURNED AT EACH STATION. THE LENGTH OF EACH LEG OF THE NETWORK WAS DETERMINED BY MEASURING TWO SETS OF SLOPE DISTANCES AND TURNING TWO SETS OF ZENITH (VERTICAL) ANGLES BOTH IN THE AHEAD AND BACK DIRECTION. THE MEAN VALUES OF THE HORIZONTAL ANGLES AND DISTANCES WERE RECORDED AND USED FOR NETWORK COMPUTATIONS.

THE NETWORK WAS ADJUSTED USING THE LEAST SQUARES METHOD. SEE SHEET 2 FOR THE RESULTS OF THE NETWORK COMPUTATIONS.

INSTRUMENT USED:

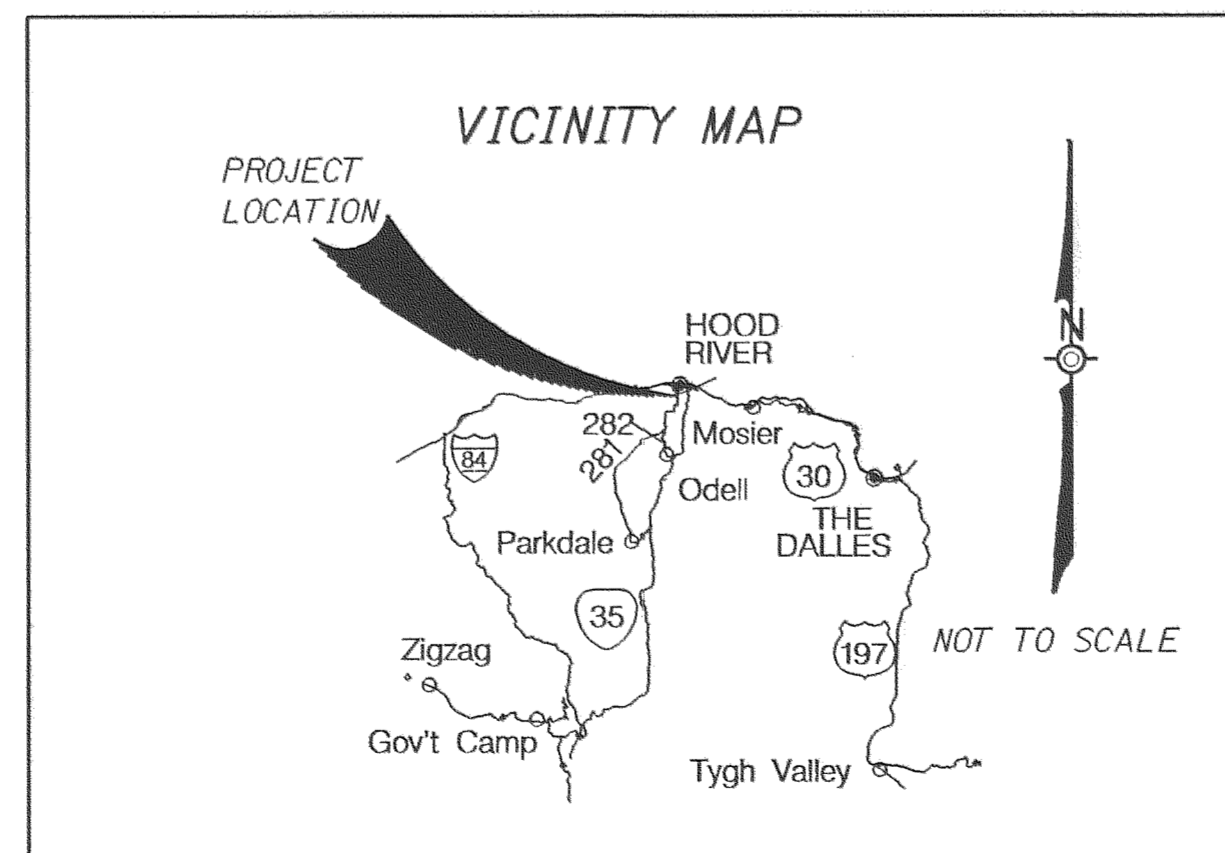
LEICA TCA 1800 TOTAL STATION (SER. *419153)

THE TOTAL STATION WAS CHECKED FOR CALIBRATION AND COLLIMATION PRIOR TO EXECUTING THE NETWORK. BASELINE RECORDS AND DETAILS REGARDING NETWORK PROCEDURES ARE ON FILE AT THE ADDRESS BELOW.

A SEARCH FOR SURVEY MONUMENTS WAS MADE WITHIN THE PROJECT LIMITS. FOUND MONUMENTS WERE TIED BETWEEN NOVEMBER 30, 2001 AND MARCH 21, 2002. THE HORIZONTAL POSITIONS OF THE FOUND MONUMENTS WERE ESTABLISHED BY TIEING THE MONUMENTS FROM THE HORIZONTAL CONTROL. TWO INDEPENDENT MEASUREMENTS WERE MADE TO MONUMENTS THAT FELL WITHIN THE PROJECT LIMITS. THE EXTRA MEASUREMENTS WERE PERFORMED TO INCREASE THE CONFIDENCE AND CREDIBILITY OF PRESERVING THE MONUMENT LOCATIONS. MONUMENTS OUTSIDE THE LIMITS OF THE PROJECT WERE TIED AS SUPPORTING EVIDENCE TO ESTABLISH BOUNDARY LINES AND DETERMINE CENTERLINE RECOVERY.

ALL PIPE SIZES ARE INSIDE DIAMETER.

A COPY OF THE ORIGINAL FIELD NOTES IS ON FILE AT THE ADDRESS BELOW.



REGISTERED
PROFESSIONAL
LAND SURVEYOR

Brian P. Tandy

OREGON
JULY 17, 1986
BRIAN P. TANDY
2222

RENEWAL DATE 6-30-2004



REGION 1. SURVEY GROUP
123 NW FLANDERS STREET
PORTLAND, OR 97209-4012
(503) 731-3240

SHEET 1 OF 6

Revised 3-7-03

CS 2003 013 (6)

HORIZONTAL CONTROL, RECOVERY & RETRACEMENT SURVEY HOOD RIVER HWY. 281 AT PACIFIC AVE.

MILE POST 0.67 TO 1.17
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PROJECT NETWORK CONTROL POINTS

| POINT ID | NORTHING | EASTING | DESCRIPTION |
|----------|----------|-----------|--|
| 1 | 5906.704 | 20277.338 | SET P-K NAIL IN CONCRETE ISLAND WITH 1 1/2" BRASS WASHER STAMPED "ODOT CONTROL". |
| 2 | 6071.024 | 20268.027 | SET BRASS SCREW IN CONCRETE WALK WITH 1 1/4" BRASS WASHER STAMPED "ODOT CONTROL". |
| 3 | 6136.146 | 20267.429 | SET 5/8" IRON ROD WITH RED PLASTIC CAP STAMPED "ODOT TRAVERSE", FLUSH. |
| 4 | 6230.782 | 20288.494 | SET BRASS SCREW IN CONCRETE WALK WITH 1 1/4" BRASS WASHER STAMPED "ODOT CONTROL". |
| 5 | 6351.676 | 20272.996 | SET BRASS SCREW IN CONCRETE WALK WITH 1 1/4" BRASS WASHER STAMPED "ODOT CONTROL". |
| 10 | 5676.872 | 20675.164 | FOUND 5/8" REBAR IN MONUMENT BOX, LID MARKED "WATER". |
| 11 | 5836.827 | 20678.923 | FOUND 5/8" REBAR IN MONUMENT BOX, LID MARKED "WATER". |
| 12 | 6089.521 | 20679.544 | FOUND 5/8" REBAR DOWN 0.20 m. (UNKNOWN ORIGIN) |
| 46 | 5676.553 | 21079.533 | FOUND 3" BRASS DISC MARKED "HOOD RIVER COUNTY T3N, R10E W.M., S36-S1" IN MONUMENT BOX, LID MARKED "WATER". HOOD RIVER COUNTY SURVEY RECORDS. |
| 47 | 5676.922 | 20276.250 | FOUND NAIL WITH PUNCH MARK IN ASPHALT. CORNER CARD 621, HOOD RIVER COUNTY SURVEY RECORDS. REPLACED WITH 5/8" IRON ROD WITH 1 1/2" BRASS CAP STAMPED "ODOT 35 36 + 1 2 2002". |
| 125 | 6475.370 | 20277.876 | FOUND 5/8" REBAR IN MONUMENT BOX, LID MARKED "WATER". CORNER CARD 620 HOOD RIVER COUNTY SURVEY RECORDS. |
| 1011 | 5836.936 | 20290.252 | FOUND 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", FLUSH. (UNKNOWN ORIGIN) |

LEGEND

▲ NETWORK STATION AS NOTED

—▲— LINES OF OBSERVATION

James M. Benson
D.L.C. No. 39

NETWORK LINES OF OBSERVATION

| From | To | BEARING | Length |
|------|------|-------------|---------|
| 1 | 1011 | S10°29'12"E | 70.954 |
| 1 | 3 | N2°28'22"W | 229.655 |
| 1 | 2 | N3°14'35"W | 164.583 |
| 2 | 12 | N87°25'35"E | 411.932 |
| 2 | 3 | N0°31'33"W | 65.125 |
| 2 | 4 | N7°18'01"E | 161.064 |
| 2 | 5 | N1°00'52"E | 280.696 |
| 3 | 4 | N12°32'54"E | 96.952 |
| 4 | 1 | S1°58'17"W | 324.270 |
| 4 | 5 | N7°18'18"W | 121.883 |
| 10 | 11 | N1°20'46"E | 159.999 |
| 12 | 11 | S0°08'27"W | 252.695 |
| 12 | 10 | S0°36'29"W | 412.672 |
| 47 | 46 | S89°58'25"E | 803.283 |
| 47 | 125 | N0°07'00"E | 798.450 |
| 47 | 1 | N0°16'17"E | 229.785 |
| 47 | 10 | S89°59'34"E | 398.914 |
| 125 | 2 | S1°23'43"W | 404.466 |
| 125 | 5 | S2°15'32"W | 123.791 |
| 1011 | 47 | S5°00'04"W | 160.625 |
| 1011 | 11 | S89°59'02"E | 388.671 |

NETWORK LEAST SQUARES ADJUSTMENT ERROR ELLIPSES

| POINT ID | 95% CONFIDENCE LIMITS ERROR ELLIPSE DIMENSIONS | | |
|----------|---|------------|-------------|
| | SEMI MAJOR | SEMI MINOR | ORIENTATION |
| 1 | 0.003 | 0.002 | 170°43'41" |
| 2 | 0.003 | 0.002 | 174°13'41" |
| 3 | 0.004 | 0.003 | 2°22'46" |
| 4 | 0.004 | 0.003 | 178°11'27" |
| 5 | 0.004 | 0.002 | 2°21'55" |
| 10 | 0.005 | 0.003 | 13°48'39" |
| 11 | 0.006 | 0.003 | 171°55'00" |
| 12 | 0.006 | 0.003 | 148°27'06" |
| 46 | 0.020 | 0.006 | 0°01'35" |
| 1011 | 0.003 | 0.002 | 0°14'32" |

ORIENTATION IS OF MAJOR AXIS FROM NORTH AZIMUTH

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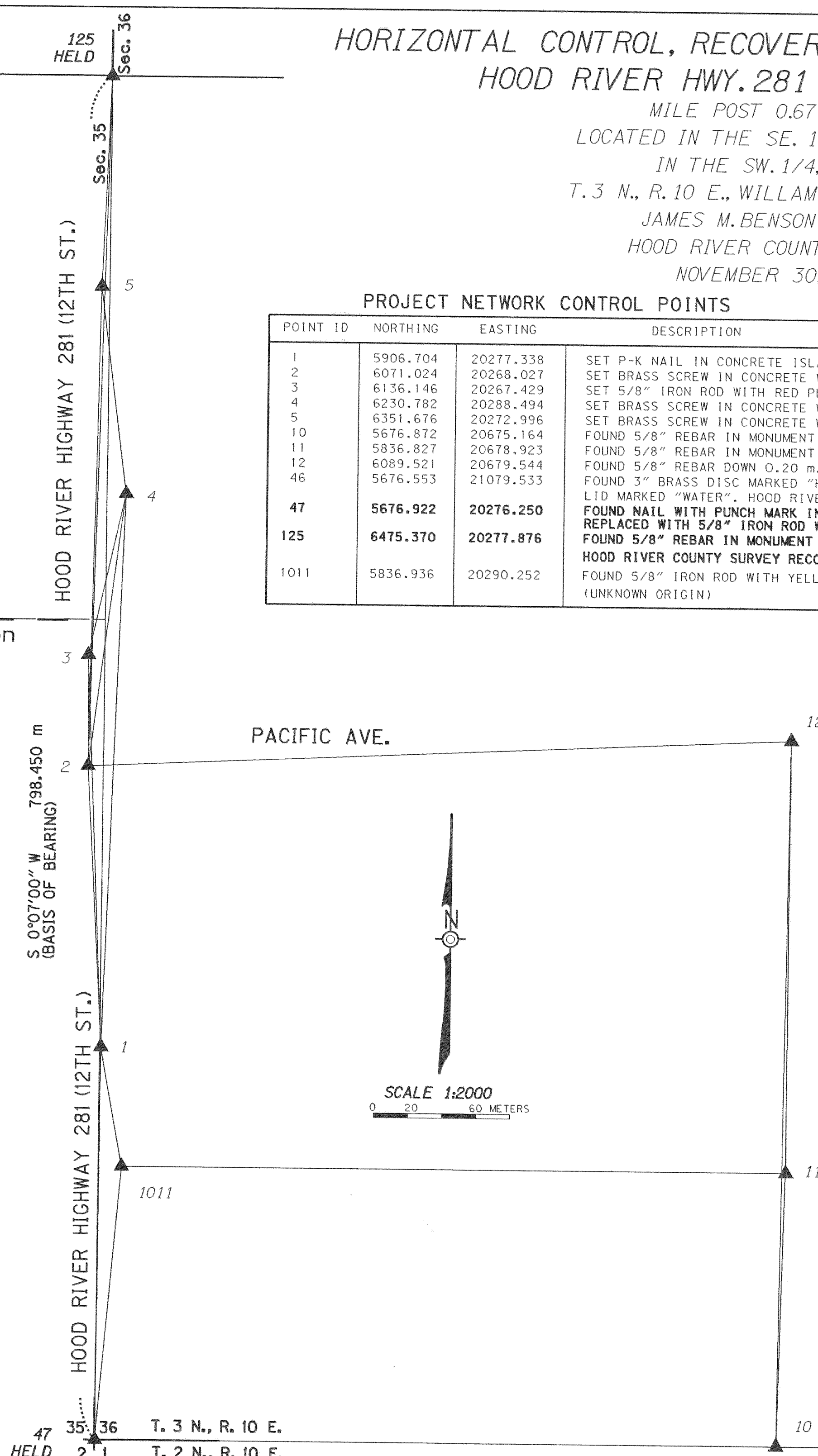
RENEWAL DATE 6-30-2004



REGION 1, SURVEY GROUP
123 NW FLANDERS STREET
PORTLAND, OR 97209-4012
(503) 731-3240

SHEET 2 OF 6

CS 2003 013 (6)

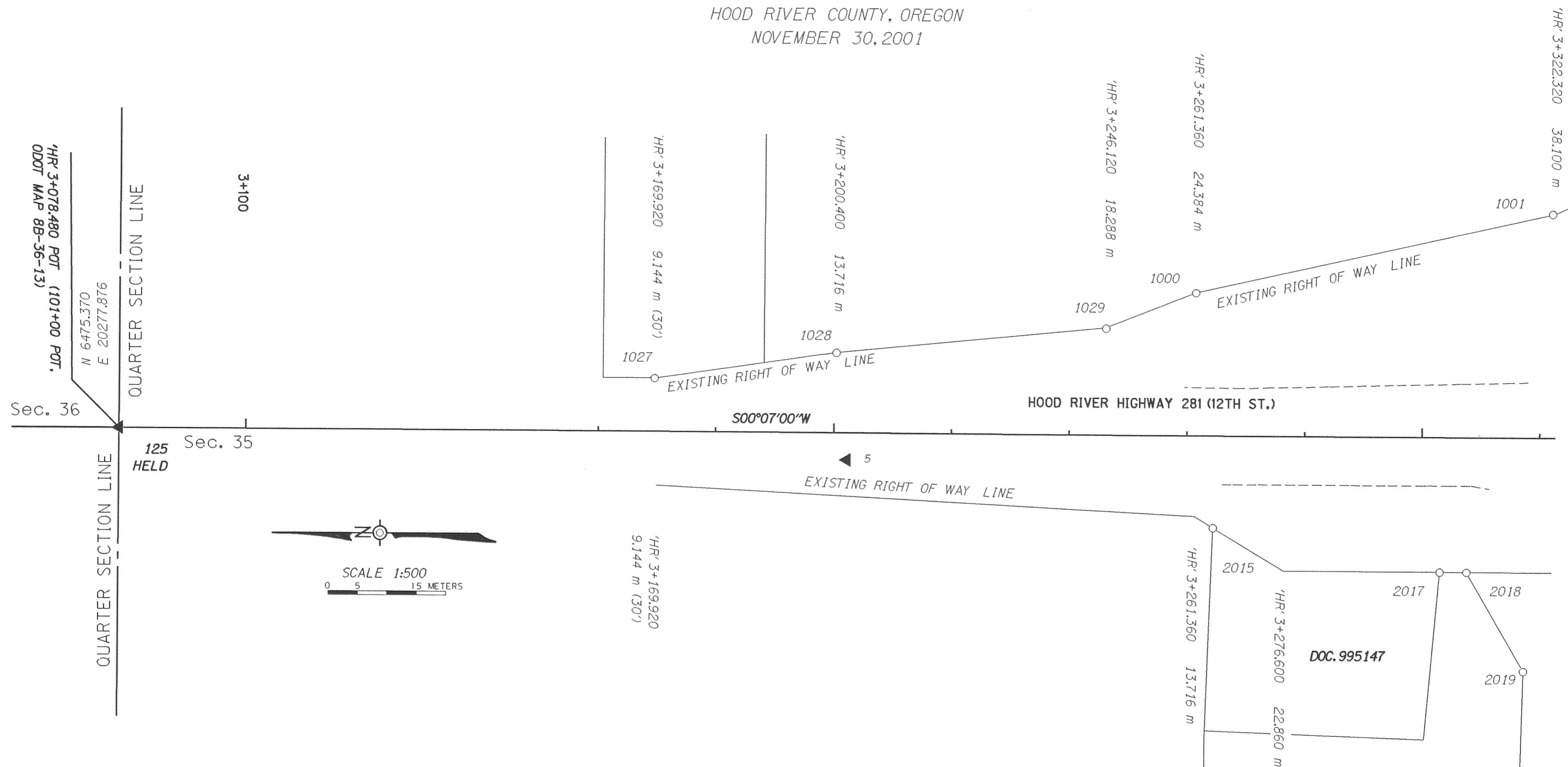


SEC. 36, T.3 N., R. 10 E., W.M. 46
SEC. 1, T.2 N., R. 10 E., W.M. 46

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SEE SHEET 4

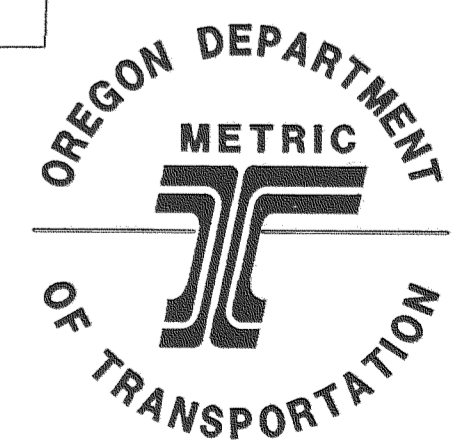
TIED POSITIONS OF FOUND MONUMENTS

| PT NAME | NORTHING | EASTING | STATION | OFFSETS FROM HWY. CENTERLINE | DESCRIPTION |
|---------|----------|-----------|-----------|------------------------------|---|
| 1000 | 6292.428 | 20301.848 | 3+261.373 | 24.345 LT. | FOUND 5/8" IRON ROD WITH POST AND SIGN MARKED "SHRW, POT, 107+00.00 80", up 0.05m. (ODOT MAP 8B-36-13) |
| 1001 | 6231.805 | 20315.449 | 3+321.969 | 38.069 LT. | FOUND 5/8" IRON ROD WITH POST AND SIGN MARKED "SHRW, POT, 109+00.00 125", DOWN 0.10 m. (ODOT MAP 8B-36-13) |
| 1027 | 6384.278 | 20286.777 | 3+169.554 | 9.086 LT. | FOUND RAILROAD SPIKE IN A.C., FLUSH. (ODOT MAP 8B-36-13) |
| 1028 | 6353.477 | 20291.296 | 3+200.346 | 13.668 LT. | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.10 m. (UNKNOWN ORIGIN) |
| 1029 | 6307.609 | 20295.724 | 3+246.204 | 18.190 LT. | FOUND 5/8" IRON ROD, UP 0.10 m, BENT SOUTH. (ODOT MAP 8B-36-13) |
| 2015 | 6289.328 | 20261.861 | 3+264.554 | 15.636 RT. | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", IN GABION WALL, FLUSH. (SN 99007) |
| 2017 | 6250.702 | 20254.534 | 3+303.195 | 22.884 RT. | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", UP 0.10 m. (SN 99007) |
| 2018 | 6246.143 | 20254.513 | 3+307.754 | 22.896 RT. | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", DOWN 0.30 m. (SN 99083) |
| 2019 | 6236.397 | 20237.741 | 3+317.534 | 39.649 RT. | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", FLUSH. (SN 99083) |

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LEGEND

- ▲ NETWORK STATION AS NOTED ON SHEET 2
- FOUND MONUMENT AS NOTED
- EDGE OF PAVEMENT
- DOC. HOOD RIVER CO. DEED RECORD



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123 NW FLANDERS STREET
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HORIZONTAL CONTROL, RECOVERY & RETRACEMENT SURVEY

HOOD RIVER HWY. 281 AT PACIFIC AVE.

HOOD RIVER COUNTY
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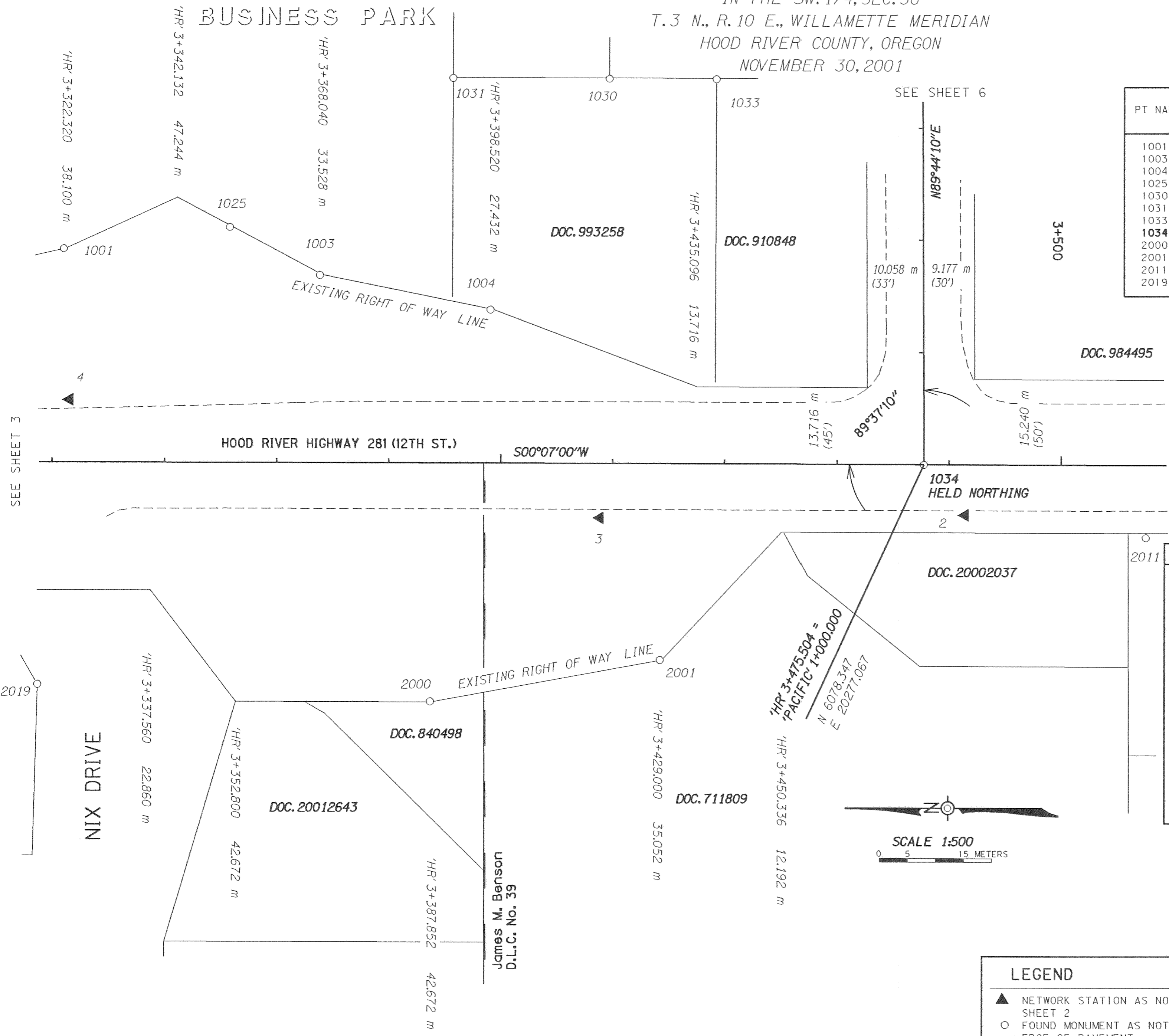
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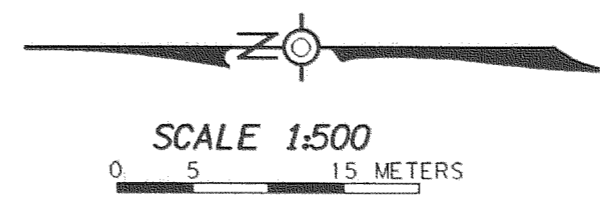
ELIOT WOODS
BUSINESS PARK

TIED POSITIONS OF FOUND MONUMENTS

| PT NAME | NORTHING | EASTING | STATION | OFFSETS FROM HWY. CENTERLINE |
|-------------|-----------------|------------------|------------------|------------------------------|
| 1001 | 6231.805 | 20315.449 | 3+321.969 | 38.069 LT. |
| 1003 | 6186.187 | 20310.733 | 3+367.596 | 33.446 LT. |
| 1004 | 6155.699 | 20304.594 | 3+398.096 | 27.369 LT. |
| 1025 | 6202.273 | 20319.262 | 3+351.492 | 41.942 LT. |
| 1030 | 6134.477 | 20345.811 | 3+419.234 | 68.629 LT. |
| 1031 | 6162.432 | 20345.923 | 3+391.279 | 68.684 LT. |
| 1033 | 6115.358 | 20345.743 | 3+438.353 | 68.600 LT. |
| 1034 | 6078.347 | 20277.043 | 3+475.504 | 0.024 RT. |
| 2000 | 6166.425 | 20234.655 | 3+387.512 | 42.591 RT. |
| 2001 | 6125.354 | 20242.054 | 3+428.569 | 35.109 RT. |
| 2011 | 6038.758 | 20263.975 | 3+515.120 | 13.012 RT. |
| 2019 | 6236.397 | 20237.741 | 3+317.534 | 39.649 RT. |



| PT NAME | DESCRIPTION |
|-------------|---|
| 1001 | FOUND 5/8" IRON ROD WITH POST AND SIGN MARKED "SHRW, POT 109+00.00 125", DOWN 0.10 m. (ODOT MAP 8B-36-13) |
| 1003 | FOUND 5/8" IRON ROD, DOWN 0.06 m. (SN99037) |
| 1004 | FOUND 5/8" REBAR, DOWN 0.45 m. (ODOT MAP 8B-36-13) |
| 1025 | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.10 m. (SN 90067) |
| 1030 | FOUND 5/8" REBAR WITH RED PLASTIC CAP UNREADABLE, DOWN 0.30 m. (SN 90067) |
| 1031 | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.05 m. (SN 99037) |
| 1033 | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.50 m. (FOUND IN PS 90067) |
| 1034 | FOUND RAILROAD SPIKE IN A.C. (SN 7324) |
| 2000 | FOUND 5/8" IRON ROD WITH POST AND SIGN MARKED "SHRW, POT, 111+15.00 140", FLUSH. (ODOT MAP 8B-36-13) |
| 2001 | FOUND 5/8" IRON ROD WITH POST AND SIGN MARKED "SHRW, POT, 112+50.00 115", UP 0.17 m. (ODOT MAP 8B-36-13) |
| 2011 | FOUND P-K NAIL IN A.C.. (SN 98059) |
| 2019 | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", FLUSH. (SN 99083) |



| LEGEND | |
|--------|-------------------------------------|
| ▲ | NETWORK STATION AS NOTED ON SHEET 2 |
| ○ | FOUND MONUMENT AS NOTED |
| --- | EDGE OF PAVEMENT |
| DOC. | HOOD RIVER CO. DEED RECORD |

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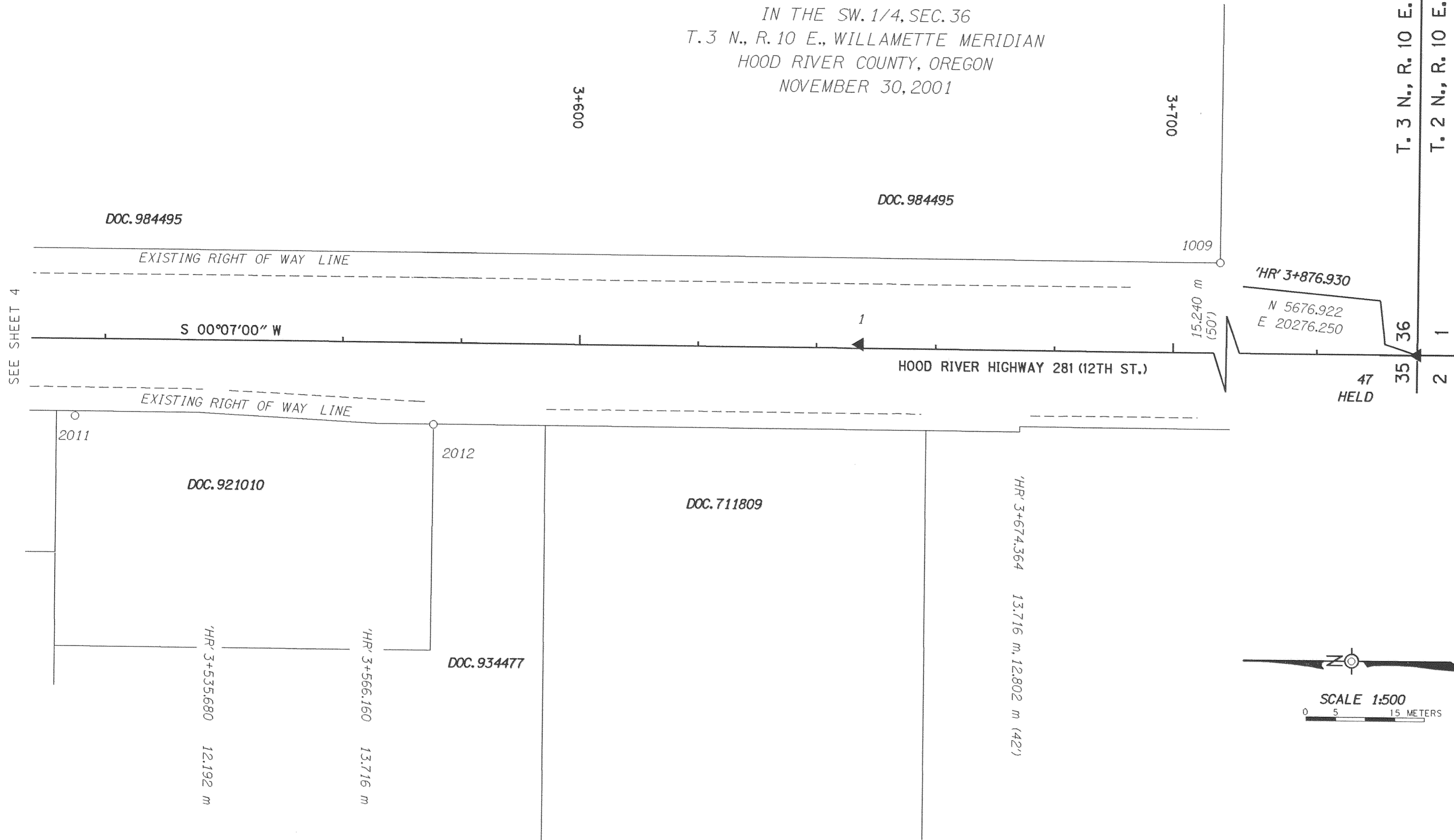
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SEE SHEET 4

T. 3 N., R. 10 E., W. M.
T. 2 N., R. 10 E., W. M.

TIED POSITIONS OF FOUND MONUMENTS

| PT ID | NORTHING | EASTING | STATION | OFFSETS FROM HWY. CENTERLINE | DESCRIPTION |
|-------|----------|-----------|-----------|------------------------------|---|
| 1009 | 5846.076 | 20291.825 | 3+707.744 | 15.231 LT. | FOUND 5/8 " REBAR, FLUSH. (SN 7562) |
| 2011 | 6038.758 | 20263.975 | 3+515.120 | 13.012 RT. | FOUND P-K NAIL IN A.C. (SN 98059) |
| 2012 | 5978.392 | 20263.123 | 3+575.487 | 13.740 RT. | FOUND 5/8" REBAR WITH YELLOW PLASTIC CAP STAMPED "OR LS 932 WA LS 22098", FLUSH. (SN 98059) |

LEGEND

- ▲ NETWORK STATION AS NOTED ON SHEET 2
- FOUND MONUMENT AS NOTED
- EDGE OF PAVEMENT
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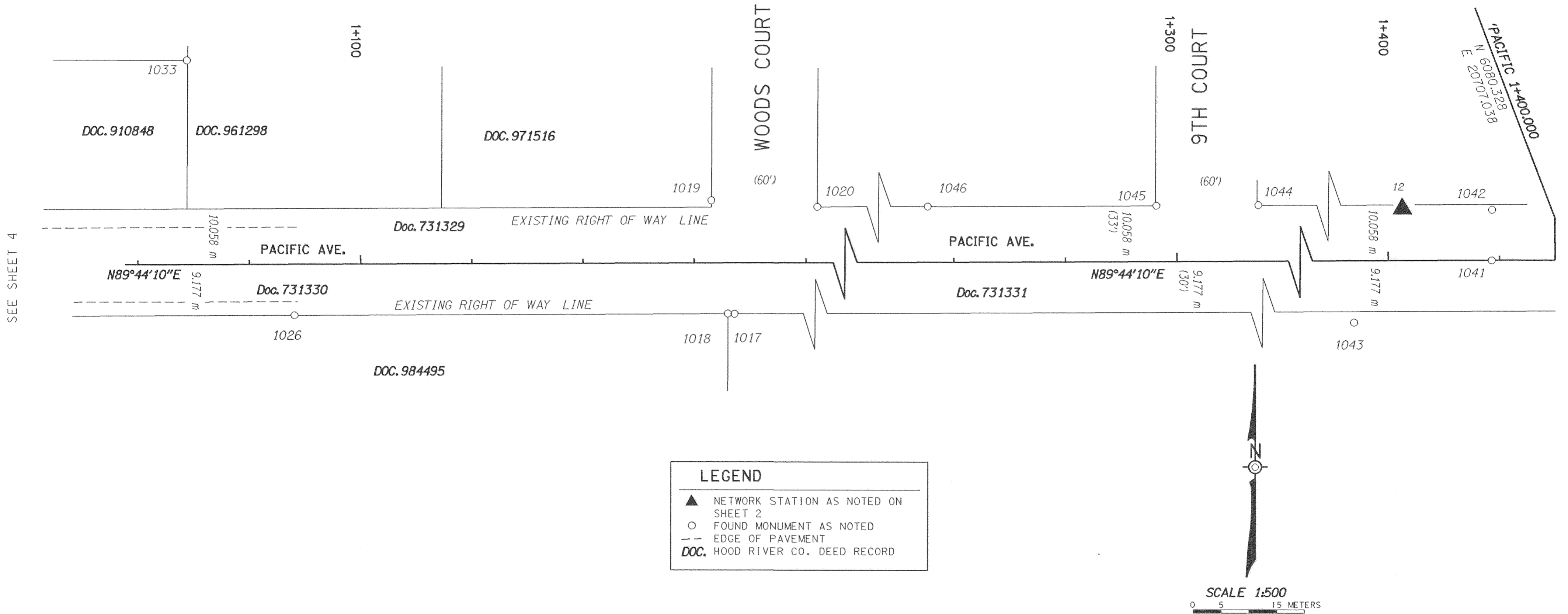


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NOVEMBER 30, 2001

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DATE FILED *5/13/04*
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SEE SHEET 4

TIED POSITIONS OF FOUND MONUMENTS

| PT NAME | NORTHING | EASTING | STATION | OFFSET FROM PACIFIC | DESCRIPTION |
|---------|----------|-----------|-----------|---------------------|---|
| 1017 | 6069.981 | 20444.363 | 1+167.255 | 9.137 RT. | FOUND 1/2" REBAR, FLUSH. (FOUND IN SN 99012) |
| 1018 | 6070.017 | 20443.174 | 1+166.066 | 9.096 RT. | FOUND 2" INSIDE DIAMETER IRON PIPE, DOWN 0.16 m. (FOUND IN SN 99012) |
| 1019 | 6090.384 | 20440.142 | 1+163.128 | 11.285 LT. | FOUND 5/8" REBAR, DOWN 0.10 m. (UNKNOWN ORIGIN) |
| 1020 | 6089.259 | 20459.056 | 1+182.037 | 10.073 LT. | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.15 m. (SN 99024) |
| 1026 | 6069.609 | 20365.174 | 1+088.065 | 9.144 RT. | FOUND 5/8" REBAR, DOWN 0.15 m. (SN 7562) |
| 1033 | 6115.358 | 20345.743 | 1+068.845 | 36.694 LT. | FOUND 5/8" REBAR WITH RED PLASTIC CAP STAMPED "TERRA OR PLS 1815", DOWN 0.50 m. (FOUND IN SN 90067) |
| 1041 | 6080.258 | 20695.677 | 1+418.613 | 0.018 RT. | FOUND 5/8" IRON ROD WITH YELLOW CAP STAMPED "WYEAST SURVEY LS2393", FLUSH. (SN 2000 045) |
| 1042 | 6089.380 | 20695.710 | 1+418.689 | 9.104 LT. | FOUND 5/8" IRON ROD WITH YELLOW CAP STAMPED "WYEAST SURVEY LS2393", DOWN 0.05 m. (SN 2000 045) |
| 1043 | 6069.056 | 20670.923 | 1+393.809 | 11.105 RT. | FOUND 3/4" IRON PIPE, DOWN 0.20 m. (UNKNOWN ORIGIN) |
| 1044 | 6089.909 | 20591.636 | 1+314.619 | 10.113 LT. | FOUND 5/8" IRON ROD, DOWN 0.13 m. (FOUND IN SN 81014) |
| 1045 | 6089.798 | 20573.331 | 1+296.313 | 10.086 LT. | FOUND 5/8" IRON ROD, DOWN 0.05 m. (UNKNOWN ORIGIN) |
| 1046 | 6089.621 | 20532.326 | 1+255.308 | 10.097 LT. | FOUND 5/8" IRON ROD WITH RED CAP STAMPED "TERRA OR-PLS 1815", FLUSH. (SN 99024) |

SCALE 1:500
0 5 15 METERS

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