

# RECORD OF SURVEY

TAHKENITCH SUBSTATION  
LYING WITHIN  
THE SW 1/4 SECTION 13, T21S., R.12W., W.M.  
THE NW 1/4 SECTION 24, T21S., R.12W., W.M.  
DOUGLAS COUNTY, OREGON

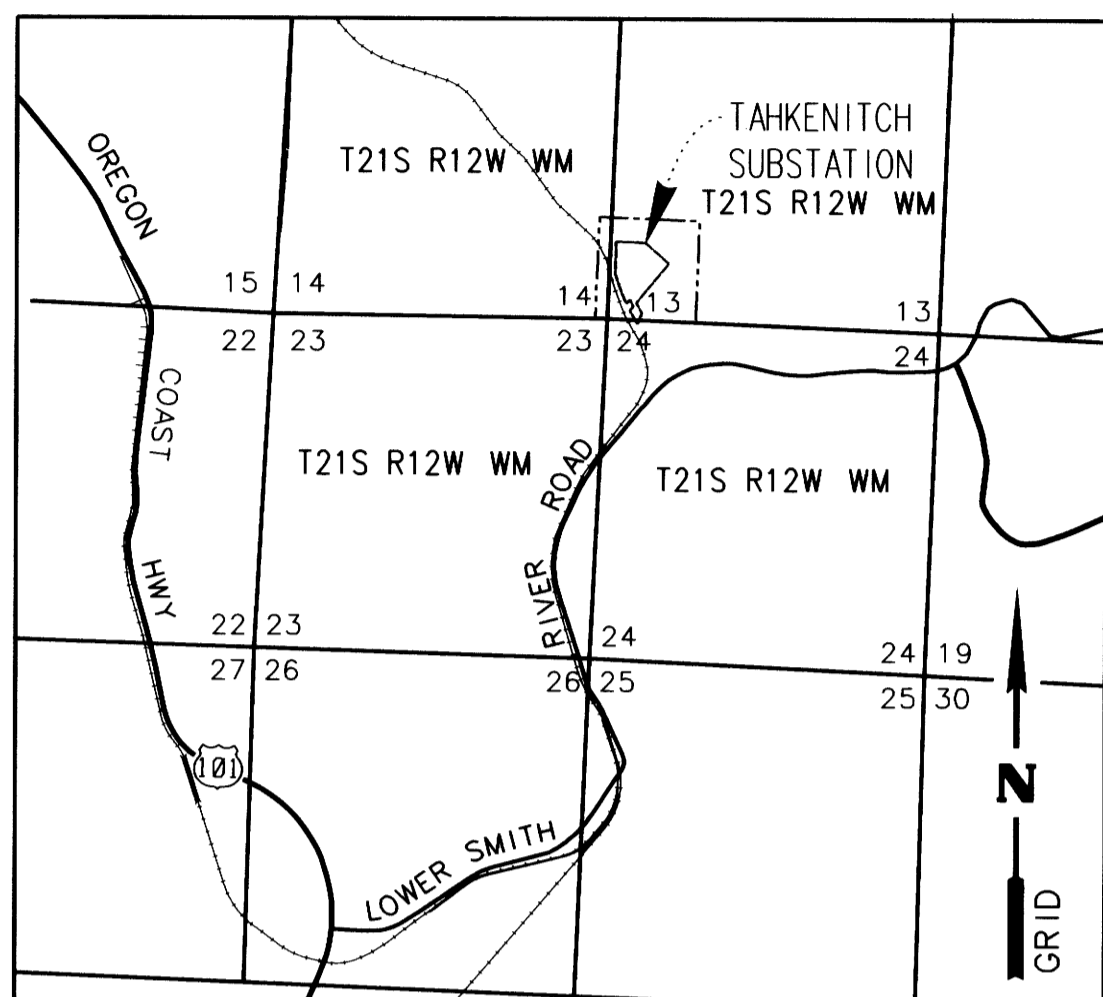
FILED

Date: 9-3-2019 By: DR  
This survey consists of:  
Map: M176-4 A-F  
Narrative: \_\_\_\_\_  
Corner Rpt: \_\_\_\_\_

DOUGLAS COUNTY  
SURVEYOR

**SHEET INDEX**

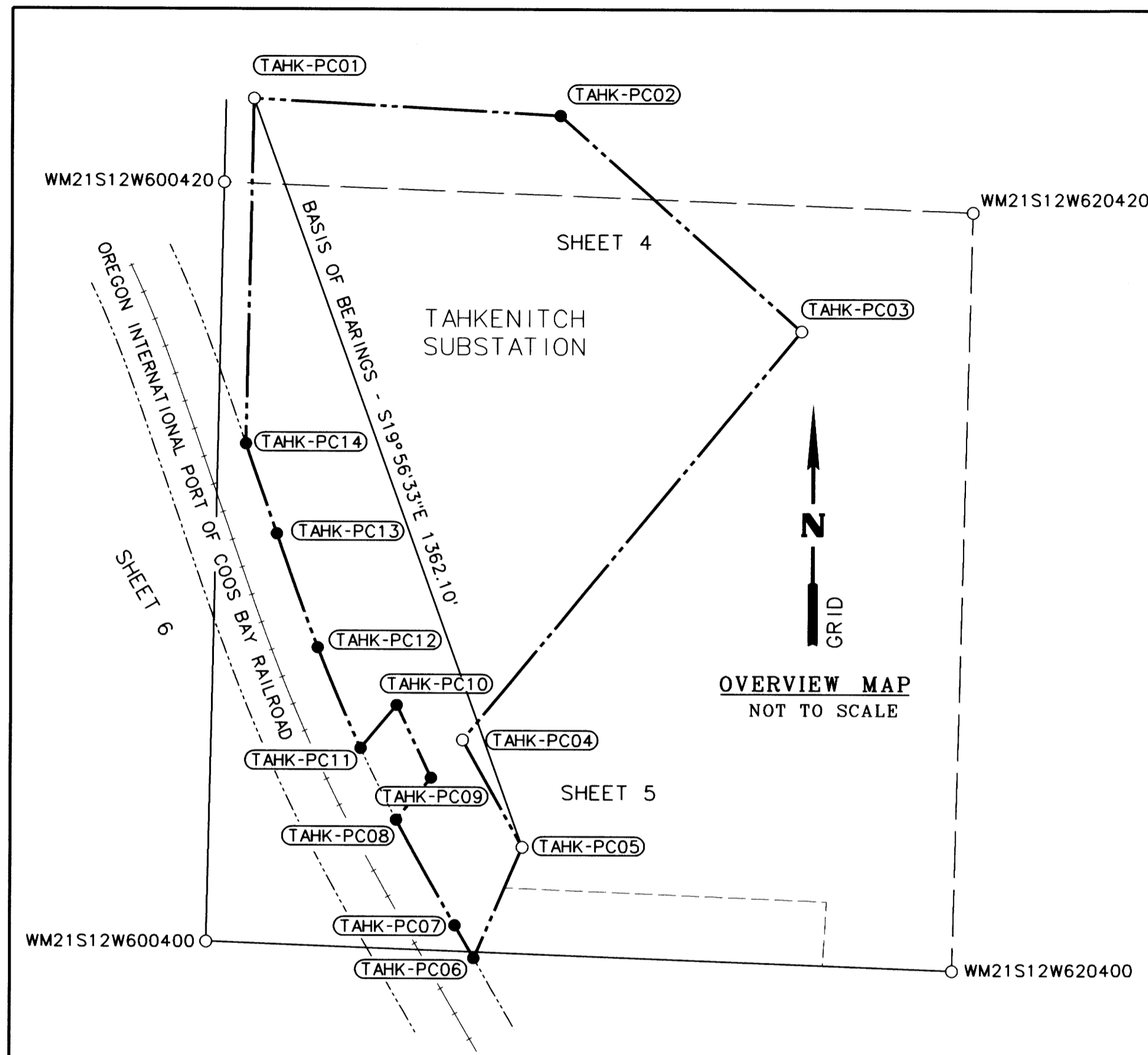
1. VICINITY MAP, SHEET LAYOUT, CONTROL NARRATIVE
- 2.-3. NARRATIVE AND REFERENCES
- 4.-5. SURVEY
6. RAILROAD DETAIL



VICINITY MAP  
NOT TO SCALE

**LEGEND**

- BPA PROPERTY LINE
- PLSS SECTION LINE
- ONE-SIXTEENTH LINE
- PRIVATE PROPERTY LINE
- RAILROAD RIGHT-OF-WAY LINE
- RAILROAD CENTERLINE
- FOUND MONUMENT
- SET MONUMENT
- XXXX MONUMENT NUMBER



OVERVIEW MAP  
NOT TO SCALE

**CONTROL NARRATIVE**

THE FIELD SURVEY WAS PERFORMED USING TWO TRIMBLE R8-GNSS MODEL 3 RECEIVERS, ONE TRIMBLE S8 ROBOTIC TOTAL STATION, AND ONE TRIMBLE TSC3 CONTROLLER WITH TRIMBLE ACCESS SOFTWARE. ALL FOUND MONUMENTS IN THIS SURVEY WERE DOUBLE-TIED TO CHECK QUALITY OF THE FIELD SURVEY DATA. A COMBINATION OF ORGN-RTK MEASUREMENTS, BASE-ROVER RTK MEASUREMENTS, AND TERRESTRIAL MEASUREMENTS WERE TAKEN. THE SURVEY DATA WAS ADJUSTED BY LEAST SQUARES USING TRIMBLE BUSINESS CENTER VERSION 5.00.

**BASIS OF BEARING AND GEOMETRIC DATUM**

BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON OREGON STATE PLANE COORDINATE SYSTEM SOUTH ZONE (3602) NAD83 (2011) EPOCH 2010.00 (APPLIED TO THE LINE BETWEEN FOUND MONUMENT NUMBERED TAHK-PC01 AND TAHK-PC05) ESTABLISHED IN THIS SURVEY RESULTING IN A BEARING OF SOUTH 19°56'33" EAST, 1362.10 FEET (GROUND). THIS SURVEY USES INTERNATIONAL FEET UNITS.

DISTANCES HEREON ARE INTERNATIONAL FEET GROUND DISTANCES. THE PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.99994289. COORDINATES SHOWN HEREON ARE GRID COORDINATES. THE CONVERGENCE ANGLE POINT AT POINT TAHK-PC01 IS -2°27'09"

**FOUND MONUMENT TABLE**

POINT ID	GRID NORTHING	GRID EASTING	DATE	DESCRIPTION
TAHK-PC01	777502.10	3974286.73	04/16/19	FD 1" O.D. IRON PIPE W/ 3-1/4" BPA ALUMINIUM CAP W/ PUNCH MARK, DN 3.0' (DEED VOLUME 268, PAGE 273)(1957)
TAHK-PC03	777105.58	3975227.99	04/16/19	FD 3-1/4" BPA ALUMINIUM CAP W/ PUNCH MARK ON 5/8" REBAR, DN 0.4' (BPA DWG. NO. 123437)(1997)
TAHK-PC04	776405.08	3974648.10	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP W/ PUNCH MARK ON 5/8" REBAR, DN 0.3' (BPA DWG. NO. 123437)(1997)
TAHK-PC05	776221.75	3974751.28	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP W/ PUNCH MARK ON 5/8" REBAR, DN 0.2' (BPA DWG. NO. 123437)(1997)
WM21S12W600400	776059.28	3974209.02	04/17/19	FD 2-1/2" O.D. IP W/ 2-1/2" BRASS CAP STAMPED "PLS497 1979 T21S R12W 14-13-23-24", UP 0.9' (M114-22, R. HINTZ)
WM21S12W600420	777358.85	3974235.94	04/16/19	FD 2-1/2" O.D. IP W/ 2-1/2" BRASS CAP STAMPED "PLS497 1981 T21S R12W S 1-16 S14-S13 1981", UP 0.2' (M114-22, R. HINTZ)
WM21S12W620400	776012.38	3975489.55	04/18/19	FD 2-1/2" O.D. IP W/ 2-1/2" BRASS CAP STAMPED "PLS497 1981 T21S R12W W 1-16 S13-S24 1981", UP 0.3', LEANING SE - TIED IN PLACE (M114-22, R. HINTZ)
WM21S12W620420	777309.79	3975521.57	04/17/19	FD 2-1/2" O.D. IP W/ 2-1/2" BRASS CAP STAMPED "PLS497 1981 T21S R12W SW 1-16 S13-1981", DN 0.2' (M114-22, R. HINTZ)

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*[Signature]*  
OREGON  
JANUARY 8, 2019  
REED CARLSON BEAUDUY  
93377PLS


RENEWAL: DEC. 31, 2021  
SIGNED: Aug. 26, 2019

FILE NAME: WO\_356103-68\_ROS.dgn

**CONTROL MONUMENT TABLE**


POINT ID	GRID NORTHING	GRID EASTING	DATE	DESCRIPTION
LIDARTAH	776829.00	3974438.13	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP IN CONCRETE, STAMPED "LIDARTAH WHP08", DN 1.0'
L119ORDOU	776709.68	3974398.91	04/15/19	FD 5/8" IR W/ RPC "OBEC CONTROL", FLUSH
REED	761962.53	3967494.79	-	ORGN CORS STATION "REED" REEDSPORT
TAHK-N508.90	777300.39	3974902.71	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP IN CONCRETE, STAMPED "N509.00", FLUSH
TAHK-S141.03	776799.91	3974488.17	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP IN CONCRETE, STAMPED "S141.03 SM1-1996", DN 0.2'
TAHK-S275.30	776696.52	3974402.54	04/15/19	FD 2" O.D. IRON PIPE W/ WOOD PLUG AND TACK, DN 0.2'
TAHK-W176	777020.77	3974442.58	04/15/19	FD 3-1/4" BPA ALUMINIUM CAP IN CONCRETE, STAMPED "TAHK-W176 OBE17", DN 0.2'

DN = DOWN  
FD = FOUND  
W/ = WITH  
O.D. = OUTSIDE DIAMETER



**OBEC** CONSULTING ENGINEERS  
A DOWL LLC Company

CORPORATE OFFICE:  
920 COUNTRY CLUB ROAD, SUITE 100B EUGENE,  
OREGON 97401-6089  
REGIONAL OFFICES:  
LAKE OSWEGO, SALEM, MEDFORD, OREGON;  
VANCOUVER, WASHINGTON



**BONNEVILLE**  
POWER ADMINISTRATION

TAHKENITCH SUBSTATION  
RECORD OF SURVEY  
DOUGLAS COUNTY, OREGON

AUGUST, 2019  
NO SCALE  
SHEET 1 OF 6

DESIGNED: R. BEAUDUY  
DRAWN: A. DOUGHAN

CHK'D: N. WARDELL

PROJ. NO. 684-004.61  
SER. NO. 336869-C

MAP FILE M176-4A

MAP FILE M176-4A

RECORD OF SURVEY

TAHKENITCH SUBSTATION

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THE SW 1/4 SECTION 13, T21S., R.12W., W.M.

THE NW 1/4 SECTION 24, T21S., R.12W., W.M.

DOUGLAS COUNTY, OREGON

FILED

Date: 9-3-2019 By: [Signature]
This survey consists of:
Map: M176-4 A-F
Narrative:
Corner Rpt:

DOUGLAS COUNTY SURVEYOR

PURPOSE

THIS SURVEY WAS PERFORMED IN APRIL AND MAY OF 2019 AT THE REQUEST OF THE BONNEVILLE POWER ADMINISTRATION (BPA). THE PURPOSE OF THIS SURVEY IS TO RETRACE AND MONUMENT THE BOUNDARIES OF THE BPA TAHKENITCH SUBSTATION SITE TRACTS TAHK-SS-P1 AND TAHK-SS-P2 LOCATED IN THE SOUTHWEST ONE-QUARTER OF SECTION 13 AND THE NORTHWEST ONE-QUARTER OF SECTION 24, TOWNSHIP 21 SOUTH, RANGE 12 WEST, OF THE WILLAMETTE MERIDIAN, IN DOUGLAS COUNTY, OREGON.

RETRACEMENT NARRATIVE

THIS SURVEY RETRACES THE BOUNDARIES OF THE TAHKENITCH SUBSTATION SITE. IT DOES NOT RESOLVE THE DISCREPANCIES BETWEEN THE CADASTRAL CORNERS SET BY PROPORTIONATE METHOD WITH THE ALIQUOT PART CORNER THAT WAS FOUND AND HELD BY BPA FOR ACQUISITION OF THE SITE, NOR DOES IT RESOLVE ANY ISSUES WITH ADJOINING PROPERTIES NORTHERLY AND WESTERLY OF THE SITE. ACTION BY BPA AND THE OWNERS OF TAX LOT 101 IN SECTION 14, AND TAX LOT 900 IN SECTION 13, WOULD BE REQUIRED TO RESOLVE THE BOUNDARY DISPARITY. THE FOLLOWING NARRATIVE DESCRIBES THE METHOD AND REASONING FOR THE TAHKENITCH SUBSTATION BOUNDARY RESOLUTION.

BPA TAHKENITCH SUBSTATION

THE LAND COMPOSING THE TAHKENITCH SUBSTATION SITE WAS ACQUIRED BY CONDEMNATION AS TWO PARCELS, NAMED TAHK-SS-P1 AND TAHK-SS-P2 BY BPA. TAHK-SS-P1 WAS ACQUIRED BY CONDEMNATION IN US DISTRICT COURT, OREGON DISTRICT, CIVIL NO. 62-384, SEPTEMBER 27, 1962. TAHK-SS-P2 WAS ACQUIRED BY CONDEMNATION IN US DISTRICT COURT, OREGON DISTRICT, CIVIL NO. 62-424, OCTOBER 30, 1962. BPA QUITCLAIMED A PORTION OF TAHK-SS-P1 TO DOUGLAS ELECTRIC COOPERATIVE, INC., IN BOOK 345, PAGE 115, WITH INSTRUMENT NUMBER 65-2806, RECORDED MARCH 11, 1965. TAHK-SS-P1 IS ENCUMBERED BY A ROAD EASEMENT TO COOS BAY PULP CORPORATION RECORDED JUNE 3, 1957 IN BOOK 268, PAGE 273, WITH INSTRUMENT NUMBER 234990.

TO RETRACE THE BOUNDARY OF TAHKENITCH SUBSTATION, MONUMENT TAHK-PC01, THE IRON PIPE PER BOOK 268, PAGE 273, RECORDED ON JUNE 3, 1957, WAS RECOVERED AND HELD AS THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 13 AND THE POINT OF BEGINNING OF THE LEGAL DESCRIPTION. THREE PROPERTY CORNER MONUMENTS SET BY BPA IN 1997, PER THE TAHKENITCH SUBSTATION DRAWING, BPA DRAWING NO. 123437, WERE RECOVERED AND HELD. THEY ARE CALLED MONUMENTS TAHK-PC03, TAHK-PC04, AND TAHK-PC05.

THE LEGAL DESCRIPTION IN THE CONDEMNATION MAKES NO MENTION OF THE IRON PIPE, INSTEAD REFERRING TO THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 13 AS THE POINT OF BEGINNING. THE COURSE AND DIRECTION CALLS IN THE LEGAL DESCRIPTION ARE CONSISTENT WITH THE SUBSTATION DRAWING AND THE BPA CADASTRAL HARDSHELL MAP, TAHKENITCH SUBSTATION.003. SAID DRAWINGS COME BEFORE THE CONDEMNATION, SO IT IS ASSUMED THE LEGAL DESCRIPTION WAS CONSTRUCTED ON THE FRAMEWORK OF THESE DRAWINGS. HENCE, THE IRON PIPE IS INTERPRETED TO BE ONE AND THE SAME AS THE POINT OF BEGINNING OF THE LEGAL DESCRIPTION. FURTHER, INFORMATION SHOWN IN THE SUBSTATION DRAWING, WHILE NOT CONTAINED IN THE LEGAL DESCRIPTION, WAS CONSIDERED TO BE EVIDENCE OF THE LOCATION OF THE BOUNDARY.

TO RETRACE THE COURSE EASTERLY FROM SAID IRON PIPE AT THE ONE-SIXTEENTH CORNER, THE POSITION OF SET MONUMENT TAHK-PC02 WAS CALCULATED BY HOLDING THE RECORD DEFLECTION ANGLE FROM THE LINE FROM MONUMENT TAHK-PC03 TO MONUMENT TAHK-PC04. THE SUBSTATION DRAWING NOTES THE NORTHERLY BOUNDARY OF THE BPA SITE INTERSECTING WITH THE WENDSON-TAHKENITCH NO.2 TRANSMISSION LINE AT STATION 1680+00.00. THE TOWER LEGS OF SAID TRANSMISSION LINE AT TOWER 20/5 AND TOWER 20/6 WERE TIED AND USED TO CALCULATE THE TOWER CENTERS. THEN THE SURVEY ANGLE POINTS WERE CALCULATED PER THE RECORD TOWER CENTER OFFSETS ALONG THE BISECTOR ANGLE, BEING 1.3 FEET LEFT AT TOWER 20/5, AND 11.2 FEET RIGHT AT TOWER 20/6. WHEN HOLDING THE RECORD STATION AT TOWER 20/6, THE RESULTING TRANSMISSION LINE STATION AT THE INTERSECTION WITH THE SUBSTATION BOUNDARY LINE WAS CALCULATED TO BE 1680+00.01.

THE LINE FROM MONUMENT TAHK-PC03 TO MONUMENT TAHK-PC04 WAS HELD, AND IS FURTHER REFERRED TO IN THIS NARRATIVE AS THE SOUTHEASTERLY BOUNDARY LINE. SAID LINE IS DEPICTED IN THE TAHKENITCH SUBSTATION DRAWING BEING PARALLEL WITH AND OFFSET 375.0 FEET SOUTHEASTERLY FROM THE NORTH-SOUTH SUBSTATION BASELINE. WE MEASURE THE OFFSET FROM THE BASELINE TO BE 374.80 FEET AT TAHK-PC03 AND 375.03 FEET AT TAHK-PC04.

THE LINE FROM MONUMENT TAHK-PC04 TO MONUMENT TAHK-PC05 WAS HELD.

TO RETRACE THE COURSE SOUTHWESTERLY FROM TAHK-PC05 TO THE EASTERLY RIGHT-OF-WAY LINE OF THE RAILROAD, THE RECORD DEFLECTION ANGLE OF 16°00'50" IN RELATIONSHIP TO SAID SOUTHEASTERLY BOUNDARY LINE WAS HELD FROM MONUMENT TAHK-PC05. THE DISTANCE WAS DETERMINED BY HOLDING THE RETRACED EASTERLY RIGHT-OF-WAY LINE OF THE OREGON INTERNATIONAL PORT OF COOS BAY RAILROAD AS THE TERMINATION OF THE COURSE. MONUMENT TAHK-PC06 WAS SET AT THIS POINT.

OREGON INTERNATIONAL PORT OF COOS BAY RAILROAD

THE OREGON INTERNATIONAL PORT OF COOS BAY RAILROAD RIGHT-OF-WAY ACROSS SECTION 13 WAS ORIGINALLY ACQUIRED BY WILLAMETTE PACIFIC RAILROAD BY CONDEMNATION IN DOUGLAS COUNTY CIRCUIT COURT CASE NO. 1237, JUNE 28, 1916. THE CENTER LINE DESCRIPTIONS IN THE CONDEMNATION ARE BASED ON ALIGNMENT "D", AND THIS ALIGNMENT WAS HELD AS THE CENTER LINE OF THE RAILROAD RIGHT-OF-WAY. THE DEEDS TO WILLAMETTE PACIFIC RAILROAD, AHEAD AND BACK ON LINE, BEING RECORDED JANUARY 11, 1912, IN BOOK 70, PAGE 126, AND JANUARY 28, 1913, IN BOOK 71, PAGE 591, ALSO IDENTIFY ALIGNMENT "D" AS THE CENTER LINE ALIGNMENT OF THE RAILROAD.

HOWEVER, THE SUBSTATION DRAWING DEPICTS ALIGNMENT "A" AS THE CENTER LINE OF THE RAILROAD RIGHT-OF-WAY. BASED ON ANALYSIS OF THE RELATIONSHIP BETWEEN THE RECORD ALIGNMENTS AND THE EXISTING RAILROAD TRACK, ALIGNMENT "A" REPRESENTS A CONSTRUCTION ALIGNMENT. IN ADDITION, BASED ON OUR TIES TO THE TRACKS IN COMPARISON TO THE POSITION OF THE TRACK SHOWN IN THE BPA DRAWING, THE TRACKS HAVE BEEN RELOCATED THROUGH THE CURVE PORTION ACROSS SECTION 13.

TO RETRACE THE EASTERLY RIGHT-WAY-LINE OF THE RAILROAD, THE RECORD CENTER LINE OF ALIGNMENT "A" AND ALIGNMENT "D" WERE PLOTTED USING RAILROAD TAPER TABLES AND RAILROAD MAP ORV20024 TITLED, "RIGHT OF WAY AND TRACK MAP, COOS BAY BRANCH EUGENE TO MYRTLE POINT, SOUTHERN PACIFIC COMPANY, FROM STATION "A" 2252+64.9 - "D" 2252+61.8 TO STATION "D" 2460+00.0." THE RAILROAD MAP AND THE RAILROAD LEGAL DESCRIPTION WERE FOUND TO BE IN HARMONY, WITH ADDITIONAL INFORMATION BEING SHOWN IN THE MAP. TWO CULVERTS, THE END OF A RAILROAD BRIDGE, AND APPROXIMATELY 1700 FEET OF THE EXISTING RAILROAD TRACKS WERE SURVEYED. TO PLACE THE RAILROAD ALIGNMENT, THE 30 INCH BY 50 FOOT CORRUGATED IRON PIPE AT RECORD STATION 2331+62 WAS FOUND AND HELD AT STATION "A" 2331+62.00. UPON ITERATION, THE RECORD GEOMETRY WAS THEN TRANSLATED ALONG THE FOUND CULVERT AND ROTATED TO BEST FIT WITH THE EXISTING RAILROAD TRACK IN SECTION 14 AND IN SECTION 24. THE RETRACED ALIGNMENT "D" WAS OFFSET 75.00 FEET TO RETRACE THE EASTERLY RIGHT-OF-WAY LINE OF THE RAILROAD.

THE CALCULATED POSITION OF A TACK SET IN A RAILROAD TIE ON THE NORTH-SOUTH SUBSTATION BASELINE, PER BPA DRAWING NO. 123437, WAS 0.44 FEET OFFSET EASTERLY FROM THE RETRACED ALIGNMENT "A", AND 4.5 FEET OFFSET WESTERLY FROM THE EXISTING TRACK CENTER LINE. THE POSITION OF HUB 19, PER BPA NOTESHEETS WM21S12W600400 BEING ON THE CENTER LINE OF THE RAILROAD TRACKS AT A POINT IN SECTION 24, WAS CALCULATED TO BE 1.42 FEET OFFSET WESTERLY FROM THE RETRACED ALIGNMENT "D" AND 0.5 FEET OFFSET WESTERLY FROM THE EXISTING TRACK CENTER LINE. AN ATTEMPT WAS MADE TO UTILIZE THESE CALCULATED POINTS AND INFORMATION IN THE BPA DRAWING TO RETRACE THE RAILROAD ALIGNMENT, HOWEVER, WHEN HOLDING TO THESE POINTS THE EXISTING TRACK IN SECTION 14 AND SECTION 24 DID NOT FIT TO THE RECORD SHAPE.

MONUMENTS TAHK-PC07, TAHK-PC12, AND TAHK-PC13, WERE SET 75.00 FEET OFFSET EASTERLY FROM THE CENTER LINE ALIGNMENT "D" TRANSITION POINTS.

QUITCLAIM TO DOUGLAS ELECTRIC COOPERATIVE

BPA QUITCLAIMED A PORTION OF TAHK-SS-P1 TO DOUGLAS ELECTRIC COOPERATIVE, INC., IN BOOK 345, PAGE 115, RECORDED MARCH 11, 1965. TO RETRACE THIS QUITCLAIM DEED, THE RECORD GEOMETRY WAS PLOTTED AND ROTATED HOLDING THE BEARING OF THE RETRACED SOUTHEASTERLY BOUNDARY LINE OF TAHKENITCH SUBSTATION. AFTER ROTATION, THE SHAPE WAS TRANSLATED TO THE IRON PIPE, MONUMENT TAHK-PC01, AND THE RESULTING POSITION WAS HELD.

THE CLARIFYING CALL OF THE COURSE "BEGINNING AT A POINT IN THE NORTHEASTERLY RIGHT OF WAY LINE OF THE SOUTHERN PACIFIC RAILROAD, SAID POINT BEING 1239 FEET SOUTH AND 243 EAST OF THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 13" WAS CONSTRUED TO BE 1239 FEET SOUTH AND 243 EAST OF THE ONE-SIXTEENTH CORNER AS IT COMES AFTER THE CALL TO THE RAILROAD RIGHT-OF-WAY LINE.

MONUMENTS TAHK-PC08, TAHK-PC09, TAHK-PC10, TAHK-PC11, WERE SET AT THE CORNERS OF THE QUITCLAIM DEED.

WEST LINE OF SECTION 13

THE IRON PIPE, MONUMENT TAHK-PC01, WAS HELD AS THE POINT OF BEGINNING OF THE LEGAL DESCRIPTION BEING THE ONE-SIXTEENTH CORNER CALLED FOR. HOWEVER, THE POSITION OF THE SOUTHWEST SECTION CORNER CANNOT BE RESOLVED WITH CERTAINTY AND APPEARS TO BE LOST.

BPA SURVEY AND MAPPING RECORDS INDICATE DURING THE COURSE OF THEIR SURVEYS THAT BPA DID NOT DETERMINE THE POSITION OF THE SOUTHWEST CORNER OF SECTION 13. THE PRELIMINARY BOUNDARY, PER THE BPA CADASTRAL HARDSHELL MAP, IS SHOWN BEING EASTERLY OF THE SECTION LINE, LIKELY BECAUSE SAID SOUTHWEST CORNER FALLS IN SWAMPLAND AND ITS POSITION WAS NEVER DETERMINED BY BPA. UPON CONDEMNATION PROCEEDINGS, THE WEST LINE OF SECTION 13 BECAME A PART OF THE LEGAL DESCRIPTION.

THE POINT OF INTERSECTION DESCRIBED IN THE LEGAL DESCRIPTION COURSES, PARAPHRASED "THENCE NORTHWESTERLY ALONG SAID RAILROAD RIGHT-OF-WAY BOUNDARY TO THE POINT OF INTERSECTION OF SAID RAILROAD RIGHT-OF-WAY BOUNDARY AND THE WEST LINE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 13, THENCE NORTH ALONG SAID WEST LINE TO THE POINT OF BEGINNING" WAS FOUND TO BE INDETERMINATE.

SO THE BEARING BETWEEN MONUMENTS SET BY HINTZ IN M114-22 BASED ON HIS PROPORTIONED CORNERS WAS HELD AS THE BEST EVIDENCE OF THE BEARING OF THE WEST LINE OF SECTION 13.

SAID POINT OF INTERSECTION WAS CALCULATED BY HOLDING THE IRON PIPE, MONUMENT TAHK-PC01, AND THE MEASURED BEARING BETWEEN THE HINTZ ONE-SIXTEENTH CORNER AND HIS SOUTHWEST SECTION CORNER FROM SAID IRON PIPE TAHK-PC01 TO ITS INTERSECTION WITH THE RESOLVED RAILROAD RIGHT-OF-WAY BOUNDARY LINE. MONUMENT TAHK-PC14 WAS SET AT THIS POINT.

TAHKENITCH SUBSTATION INTERIOR BOUNDARY LINE

THE INTERIOR BOUNDARY LINE COMMON TO TAHK-SS-P1 AND TAHK-SS-P2 WAS DETERMINED BY HOLDING THE REMNANTS OF A FENCE LINE THEN EXTENDING IT WESTERLY TO THE RETRACED RAILROAD RIGHT-OF-WAY LINE. SAID FENCE LINE WAS CALLED FOR IN CIRCUIT COURT CASE NO. E82-0230

BEING AN ADVERSE POSSESSION CASE, RECORDED FEBRUARY 15, 1984, IN BOOK 872 PAGE 895, WITH INSTRUMENT NUMBER 84-1969. SAID CASE EFFECTIVELY CREATED TAX LOT 1401 IN SECTION 13. FOLLOWING THE CHAIN OF TITLE BACK TO THE PREVIOUS DEED, THE LEGAL DESCRIPTION IN BOOK 526, PAGE 26, RECORDED JULY 26, 1973, DESCRIBES THE SAME PARCEL BEING A PART OF SECTION 24. SO THE FENCE LINE CALLED IN THE ADVERSE POSSESSION CASE WAS CONSIDERED TO BE ON THE SECTION LINE PRIOR TO THE CADASTRAL RETRACEMENT BY HINTZ AND WAS HELD TO RETRACE THE INTERIOR BOUNDARY LINE BETWEEN TAHK-SS-P1 AND TAHK-SS-P2.

CADASTRAL CORNER NARRATIVE

WM21S12W600400 (SW CORNER SECTION 13)

IN 1857, THE GLO SURVEYOR, H. GORDON, SET A POST AT THE SECTION CORNER WITH THREE BEARING TREES, A 36 INCH SPRUCE, A 12 INCH FIR, AND A 3 INCH CRABAPPLE.

IN 1947 AND 1948, BPA SEARCHED FOR THE CORNER WHILE SURVEYING THE MAPLETON-REEDSPORT LINE. PER BPA NOTESHEETS DATED JUNE, 1947, THE SECTION CORNER WAS NOT FOUND AND THE SURVEY NOTED THAT "NO WT IN AREA AND CREEK HAS WASHED AWAY THE OLD CORNER". A FOREST SERVICE POST MARKED "SEC. COR. 100' WEST" WAS TIED.

PER NOTESHEETS DATED FEBRUARY 19, 1948, BPA RETURNED TO SEARCH FOR THE CORNER. BPA FOUND A 52" SPRUCE TREE NOTING "THIS TREE HAS BEEN CHOPPED OUT AND BADLY ROTTED. NO EVIDENCE OF SCRIBING. BLAZE ON NW SIDE. CORNER FALLS IN SWAMP. NOT IN. NO EVIDENCE OF FIR OR CRABAPPLE TREES." THIS MAY BE THE 36" DIAMETER SPRUCE CALLED FOR IN THE GLO NOTES, HOWEVER, IT IS INCONCLUSIVE. IT MAY HAVE BEEN THE FOREST SERVICE THAT WAS LOOKING FOR SCRIBING ON THIS TREE.

IN 1980, RICHARD HINTZ PERFORMED A SURVEY FOR CHAMPION INTERNATIONAL CORP. AND INTERNATIONAL PAPER CO. WHERE HE SET A 2" IRON PIPE WITH BRASS CAP AT THE CORNER BY DOUBLE PROPORTIONION PER M79-30. HINTZ HELD SECTION CORNERS ONE MILE TO THE NORTH, EAST, AND WEST, AND HELD A SECTION CORNER THREE MILES TO THE SOUTH TO CALCULATE THE CORNER POSITION. IN 1981, HINTZ RESET THE PIPE, THEN IN 1991, HE FILED M114-22, A SURVEY FOR INTERNATIONAL PAPER CO. STATING HE RESET THE PIPE AND CAP PER M79-30 AS IT WAS INCORRECTLY SET DURING THE 1980 SURVEY.

THE BPA SECTION CORNER TRAVERSE NOTES WERE RETRACED. TRANSMISSION LINE STRUCTURES ON THE MAPLETON-REEDSPORT LINE WERE SURVEYED AND HELD TO CALCULATE THE CORNER POSITION, PER BPA DRAWING NO. 38229B. THE BPA TRAVERSE CLOSED TO THE CENTER LINE OF THE RAILROAD TRACKS, IDENTIFIED IN SAID NOTES BEING HUB 19, WHERE THE CALCULATED MISCLOSURE TO THE RETRACED ALIGNMENT "D" CENTER LINE WAS 1.42 FEET, AND WITHIN 0.5 FEET OF THE EXISTING TRACK CENTER LINE.

THE CALCULATED POSITION OF THE SECTION CORNER PER THE BPA TRAVERSE WAS FOUND TO BE IN HARMONY WITH THE REMNANTS OF SAID FENCE ON THE NORTHERLY LINE DESCRIBED IN CIRCUIT COURT CASE NO. E82-0230.

FILE NAME: WO\_356103-68\_ROS.dgn

OBEC CONSULTING ENGINEERS
A DOWL LLC Company
CORPORATE OFFICE: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089
REGIONAL OFFICES: LAKE OSWEGO, SALEM; MEDFORD, OREGON; VANCOUVER, WASHINGTON

BONNEVILLE POWER ADMINISTRATION
TAHKENITCH SUBSTATION RECORD OF SURVEY DOUGLAS COUNTY, OREGON
AUGUST, 2019 NO SCALE SHEET 2 OF 6

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON JANUARY 8, 2019 REED CARLSON BEAUDUY 93377PLS

RENEWAL: DEC. 31, 2021 SIGNED: ALB-26, 2019

Table with 3 columns: DESIGNED: R. BEAUDUY, DRAWN: A. DOUGHAN, CHK'D: N. WARDELL, PROJ. NO. 684-004.61, SER. NO. 336869-C

MAP FILE M176-4B

MAP FILE M176-4B

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MAP FILE M176-4C

CADASTRAL CORNER NARRATIVE - CONT.

THE REMNANTS OF THE FENCE LINE AND THE BPA SECTION CORNER TRAVERSE BEING IN HARMONY IS CONSIDERED GOOD EVIDENCE. THE FENCE LINE WAS USED TO CALCULATE THE ACREAGE OF TAHK-SS-P2. HOWEVER, THIS EVIDENCE WAS NOT HELD TO RETRACE THE POSITION OF THE SECTION CORNER AS NO RECORDS OF THE FOREST SERVICE SURVEY WERE FOUND, AND BPA ALSO DID NOT HOLD THE EVIDENCE THEY FOUND IN 1948.

THE BLM MASTER USE PLAT INDEX SHOWS THE UNITED STATES HAD OWNERSHIP OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 14 THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 13 ON MAY 10, 1955, WHEN ORDER NUMBER ORAA 035806FD EXECUTED A FOREST TRANSFER DEED FROM THE US GOVERNMENT. THIS DOES PROVIDE A REASON FOR THE FOREST SERVICE MARKINGS AND SIGN POST TO BE WITNESSED BY BPA IN 1947. RECORDS OF THE FOREST SERVICE SURVEY WERE NOT FOUND, EVEN AFTER THE FOREST SERVICE CONDUCTED RESEARCH ON OUR BEHALF.

A NOTE, DATE UNKNOWN, PROVIDED BY THE FOREST SERVICE COMMENTS "EXACT BOUNDARIES OF SAID PREMISES CANNOT BE DETERMINED" INCLUDING THE SOUTHEAST ONE-QUARTER OF THE SOUTHEAST OF SECTION 14. THOUGH THE FOREST SERVICE DID MARK TREES AND SET POSTS AND SIGNS AT CORNERS ALONG THE LINE BETWEEN SECTION 13 AND SECTION 14 AS EVIDENCED BY THE BPA NOTESHEETS.

WE FIND THE BRASS CAP SET BY HINTZ AND CALLED IT WM21S12W600400.

WM21S12W600420 (SOUTH ONE-SIXTEENTH CORNER SECTIONS 13 AND 14)

IN 1957, THE RIGHT OF WAY AGREEMENT TO COOS BAY PULP CORPORATION, RECORDED JUNE 3, 1957, IN BOOK 268, PAGE 273, BEGINS AT AN IRON PIPE AT THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER. THIS IS THE EARLIEST RECORD FOUND NOTING THIS IRON PIPE, AND THE SURVEY OF THE RIGHT-OF-WAY DEDICATION MAY BE THE ORIGIN OF THIS IRON PIPE.

IN 1962, BPA RECOVERED THE IRON PIPE PER THE 1957 DEED AND CALLED IT A 3/4 INCH IRON PIPE. THIS IRON PIPE IS IDENTIFIED BEING USED FOR ACQUISITION ON THE BPA CADASTRAL HARDSHELL MAP AND THE BPA SUBSTATION DRAWING. THIS IRON PIPE WAS THEN ADDED TO ALL OF THE BPA TRANSMISSION LINE DRAWINGS IN THE VICINITY.

IN 1981, RICHARD HINTZ MONUMENTED THIS CORNER WITH A 1-1/2 INCH IRON PIPE WITH BRASS CAP, BASED ON HIS BREAKDOWN OF SECTION 13 PER M114-22, FILED IN 1991.

IN 1997 BPA RECOVERED THE IRON PIPE PER THE 1957 DEED, AND SECURED A BPA ALUMINUM CAP TO THE TOP.

WE FIND AN UNDISTURBED ONE INCH OUTSIDE DIAMETER IRON PIPE WITH A BPA ALUMINUM CAP SEATED SECURELY ON TOP, DOWN 3.0 FEET, AND CALLED IT TAHK-PC01.

WE ALSO FIND THE BRASS CAP SET BY HINTZ AND CALLED IT WM21S12W600420.

REFERENCES

- R1. U.S. DISTRICT COURT FOR THE DISTRICT OF OREGON CASE CIVIL NO. 62-384, SEPTEMBER 27, 1962 (TAHK-SS-P1)
R2. U.S. DISTRICT COURT FOR THE DISTRICT OF OREGON CASE CIVIL NO. 62-424, OCTOBER 30, 1962 (TAHK-SS-P2)
R3. QUILCLAIM DEED TO DOUGLAS ELECTRIC COOPERATIVE, INC., RECORDED MARCH 11, 1965, IN BOOK 345, PAGE 115, OF DOUGLAS COUNTY BOOK OF RECORDS, WITH INSTRUMENT NO. 65-2806
R4. BPA DRAWING NO. 123437 (TAHKENITCH SUBSTATION), ORIGINAL DATE JULY 11, 1962, REVISION DATE MAY 10, 2006
R5. BPA DRAWING NO. 103873 (ALVEY-TAHKENITCH NO.1), ORIGINAL DATE MAY 5, 1962, REVISION DATE JUNE 4, 2012
R6. RIGHT OF WAY AGREEMENT TO COOS BAY PULP CORPORATION, RECORDED JUNE 3, 1957, IN BOOK 268, PAGE 279, OF DOUGLAS COUNTY BOOK OF RECORDS, WITH INSTRUMENT NO. 243990
R7. CIRCUIT COURT OF THE STATE OF OREGON FOR THE COUNTY OF DOUGLAS, NO. 1237, WILLAMETTE PACIFIC RAILROAD CO. VS. HENRY WADE, ORDER FILED JUNE 26, 1916
R8. GARDINER MILL COMPANY TO WILLAMETTE PACIFIC RAILROAD CO., RECORDED JANUARY 28, 1913, IN BOOK 71, PAGE 591, OF DOUGLAS COUNTY BOOK OF RECORDS
R9. J.W. WROE TO WILLAMETTE PACIFIC RAILROAD CO., RECORDED JANUARY 11, 1912, IN BOOK 70, PAGE 128, OF DOUGLAS COUNTY BOOK OF RECORDS
R10. RIGHT OF WAY AND TRACK MAP, COOS BAY BRANCH - EUGENE TO MYRTLE POINT, SOUTHERN PACIFIC COMPANY, FROM STATION "A" 2252+64.9 - "D" 2252+61.8 TO STATION "D" 2460+00.0. (RV2S24A)
R11. DOUGLAS COUNTY SURVEY RECORD M114-22, FILED DECEMBER 1991, SURVEYED 1981
R12. OIL, GAS AND MINERAL LEASE TO STANDARD OIL COMPANY OF CALIFORNIA, RECORDED JUNE 26, 1961 IN BOOK 305, PAGE 63, OF DOUGLAS COUNTY BOOK OF RECORDS
R13. BPA CADASTRAL HARDSHELL MAP TITLED "TAHKENITCH SUB STA", DATED JUNE 28, 1962 (TAHKENITCH SUBSTATION\_003)
R14. BPA TAHKENITCH SUBSTATION COMPUTATION OF GROUND BASELINE COORDINATES, DATED JANUARY 26, 2017
R15. BPA WENDSON-TAHKENITCH NO.2 STEEL TOWER SITE DATA SHEET, DATED NOVEMBER, 1971.

WM21S12W600440 (WEST ONE-QUARTER CORNER SECTION 13)

IN 1857, THE GLO SURVEYOR, H. GORDON, SET A POST AT THE ONE-QUARTER CORNER WITH TWO BEARING TREES, A 12 INCH ALDER AND AN 8 INCH CEDAR.

IN 1947, BPA TIED A 12 INCH FIR BLAZED ON FOUR SIDES.

IN 1980, RICHARD HINTZ SET A 1-1/2 INCH IRON PIPE WITH BRASS CAP AT THIS CORNER DURING HIS SURVEY FOR CHAMPION INTERNATIONAL CORP. AND INTERNATIONAL PAPER CO. PER M79-30. IN 1981, HINTZ RESET THE PIPE, THEN IN 1991, HE FILED M114-22, A SURVEY FOR INTERNATIONAL PAPER CO. STATING HE RESET THE PIPE AND CAP PER M79-30 AS IT WAS INCORRECTLY SET DURING THE 1980 SURVEY.

WE DID NOT ATTEMPT TO RECOVER THIS CORNER AS PART OF OUR SURVEY.

WM21S12W600500 (NW CORNER SECTION 13)

IN 1857, THE GLO, H. GORDON, SURVEYOR, SET A POST AT THE ONE-QUARTER CORNER WITH TWO BEARING TREES, A 12 INCH ALDER AND AN 8 INCH CEDAR.

IN 1947, BPA TIED A 12 INCH FIR BLAZED ON FOUR SIDES.

IN 1980, RICHARD HINTZ SET A 1-1/2 INCH IRON PIPE WITH BRASS CAP AT THIS CORNER DURING HIS SURVEY FOR CHAMPION INTERNATIONAL CORP. AND INTERNATIONAL PAPER CO. PER M79-30.

WE DID NOT ATTEMPT TO RECOVER THIS CORNER AS PART OF OUR SURVEY.

TAHK-SS-P1 LEGAL DESCRIPTION PER REFERENCE R1:

THE FEE SIMPLE TITLE TO THAT PORTION OF THE SW 1/4 SW 1/4 OF SECTION 13, TOWNSHIP 21 SOUTH, RANGE 12 WEST OF THE WILLAMETTE MERIDIAN, IN DOUGLAS COUNTY, OREGON, WHICH LIES WITHIN A TRACT OF LAND DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SW 1/4 SW 1/4 OF SAID SECTION 13; RUNNING THENCE 527.1 FEET S. 86°51'20" E.; THENCE 554.8 FEET S. 48°25'50" E.; THENCE 909.5 FEET S. 39°39'10" W.; THENCE 210.5 FEET S. 29°20'40" E.; THENCE 210.3 FEET S. 23°38'20" W. TO A POINT IN THE NORTHEASTERLY BOUNDARY OF THE 150-FOOT RIGHT-OF-WAY FOR THE SOUTHERN PACIFIC COMPANY'S RAILROAD; THENCE NORTHWESTERLY ALONG SAID BOUNDARY TO THE POINT OF INTERSECTION OF SAID RAILROAD RIGHT-OF-WAY BOUNDARY AND THE WEST LINE OF SAID SW 1/4 SW 1/4 OF SAID SECTION 13; THENCE NORTH ALONG SAID WEST LINE OF SAID SW 1/4 SW 1/4 TO THE POINT OF BEGINNING, CONTAINING 17.06 ACRES OF LAND, MORE OR LESS;

SUBJECT TO RIGHT-OF-WAY GRANTED TO COOS BAY PULP CORPORATION AS RECORDED IN VOLUME 268, RECORDERS NUMBER 234990, DEED RECORDS OF DOUGLAS COUNTY, OREGON, AND SUBJECT TO THE SUBSURFACE MINERAL RIGHTS IN THAT GRANT TO STANDARD OIL COMPANY OF CALIFORNIA AS RECORDED ON VOLUME 305, RECORDER'S NO. 294115, DEED RECORDS OF DOUGLAS COUNTY, OREGON.

TAHK-SS-P2 LEGAL DESCRIPTION PER REFERENCE R2:

THE FEE SIMPLE TITLE TO THAT PORTION OF LOT 9 OF SECTION 24, TOWNSHIP 21 SOUTH, RANGE 12 WEST OF THE WILLAMETTE MERIDIAN, IN DOUGLAS COUNTY, OREGON, WHICH LIES WITHIN A TRACT OF LAND DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SW 1/4 SW 1/4 OF SECTION 13 OF SAID TOWNSHIP AND RANGE; AND RUNNING THENCE 527.1 FEET S. 86°51'20" E.; THENCE 554.8 FEET S. 48°25'50" E.; THENCE 909.5 FEET S. 39°39'10" W.; THENCE 210.5 FEET S. 29°20'40" E.; THENCE 210.3 FEET S. 23°38'20" W. TO A POINT IN THE NORTHEASTERLY BOUNDARY OF THE 150-FOOT RIGHT-OF-WAY FOR THE SOUTHERN PACIFIC COMPANY'S RAILROAD; THENCE NORTHWESTERLY ALONG SAID BOUNDARY TO THE POINT OF INTERSECTION OF SAID RAILROAD RIGHT-OF-WAY BOUNDARY AND THE WEST LINE OF SAID SW 1/4 SW 1/4 OF SAID SECTION 13; THENCE NORTH ALONG SAID WEST LINE OF SAID SW 1/4 SW 1/4 TO THE POINT OF BEGINNING, CONTAINING 0.22 ACRES OF LAND, MORE OR LESS;

SUBJECT ONLY TO THE SUBSURFACE MINERAL RIGHTS IN THAT GRANT TO STANDARD OIL COMPANY OF CALIFORNIA AS RECORDED IN VOLUME 305, RECORDERS NO 294260, DEED RECORDS OF DOUGLAS COUNTY, OREGON.

ADDITIONAL REFERENCES

DOUGLAS COUNTY SURVEYS:

CS51/267-2, CS54/110-1, CS58/254-6, CS58/267-5, CS63/154-6, M79-30, M84-24 A, M87-11, M92-35, M105-64, M118-62

DOUGLAS COUNTY RECORDS:

BOOK 75, PAGE 173, RECORDED JULY 16, 1915
BOOK 172, PAGE 59, RECORDED SEPTEMBER 29, 1949
BOOK 182, PAGE 352, RECORDED AUGUST 8, 1950
BOOK 289, PAGE 421, RECORDED DECEMBER 1, 1959, WITH INSTRUMENT NO. 270162
BOOK 526, PAGE 26, RECORDED JULY 26, 1973, WITH INSTRUMENT NO. 73-10865
CIRCUIT COURT CASE NO. 33214 (BOOK 443, PAGE 850, WITH INSTRUMENT NO. 70-3921)
CIRCUIT COURT CASE NO. E82-0230 (BOOK 872, PAGE 865, WITH INSTRUMENT NO. 84-1969)
BOOK 1126, PAGE 526, RECORDED JANUARY 31, 1991, WITH INSTRUMENT NO. 91-01818
BOOK 1332, PAGE 767, RECORDED JANUARY 3, 1995 WITH INSTRUMENT NO. 95-00007
BOOK 1766, PAGE 993, RECORDED MAY 31, 2001, WITH INSTRUMENT NO. 2001-012230
INSTRUMENT NO. 2009-005321, RECORDED MARCH 13, 2009
INSTRUMENT NO. 2013-011265, RECORDED JUNE 28, 2013

BPA DRAWINGS:

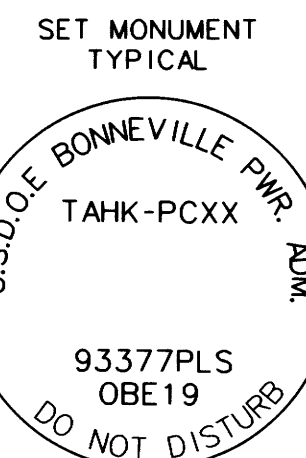
BPA SERIAL NO. 116381
BPA SERIAL NO. 116386
BPA SERIAL NO. 337764
BPA SERIAL NO. 382298
BPA SERIAL NO. 91233

BPA NOTE SHEET REFERENCES:

WM21S12W600400, DATED 1947 AND 1948
WM21S12W600440, DATED 1947
WM21S12W600500, DATED 1947

NOTES

- 1. WESTERN TITLE AND ESCROW COMPANY, ORDER NUMBER WT0170665, DATED APRIL 5, 2019 WAS USED IN PREPARING THIS SURVEY.
2. SITE STREET ADDRESS: 345 OLD LOWER SMITH RIVER ROAD REEDSPORT, OR 97467
3. THIS SURVEY DEPICTS FEE (BPA) OWNED PROPERTY ONLY. BPA MAY HAVE ADDITIONAL RIGHTS THAT ARE NOT SHOWN.



\*XX DENOTES MONUMENT NUMBER

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON JANUARY 8, 2019 REED CARLSON BEAUDUY 93377PLS

RENEWAL: DEC. 31, 2021 SIGNED: [Signature]

FILE NAME: WO\_356103-68\_ROS.dgn

OBEC CONSULTING ENGINEERS A DOWL LLC Company
CORPORATE OFFICE: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089
REGIONAL OFFICES: LAKE OSWEGO, SALEM; MEDFORD, OREGON; VANCOUVER, WASHINGTON
BONNEVILLE POWER ADMINISTRATION
TAHKENITCH SUBSTATION RECORD OF SURVEY DOUGLAS COUNTY, OREGON
DESIGNED: R. BEAUDUY PROJ. NO. 684-004.61
DRAWN: A. DOUGHAN CHK'D: N. WARDELL SER. NO. 336869-C

AUGUST, 2019 NO SCALE SHEET 3 OF 6

MAP FILE M176-4C

# RECORD OF SURVEY

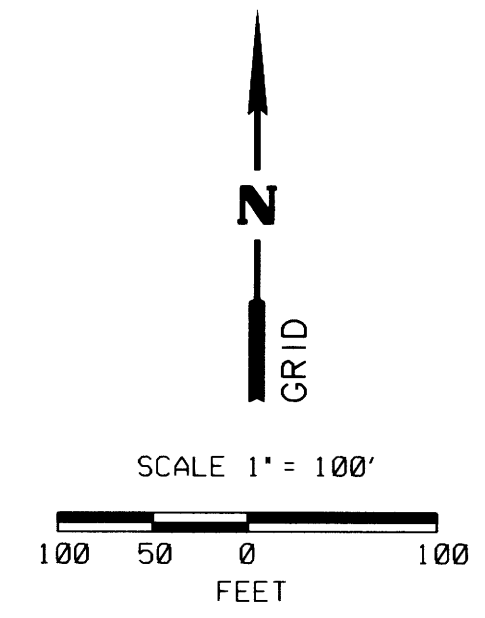
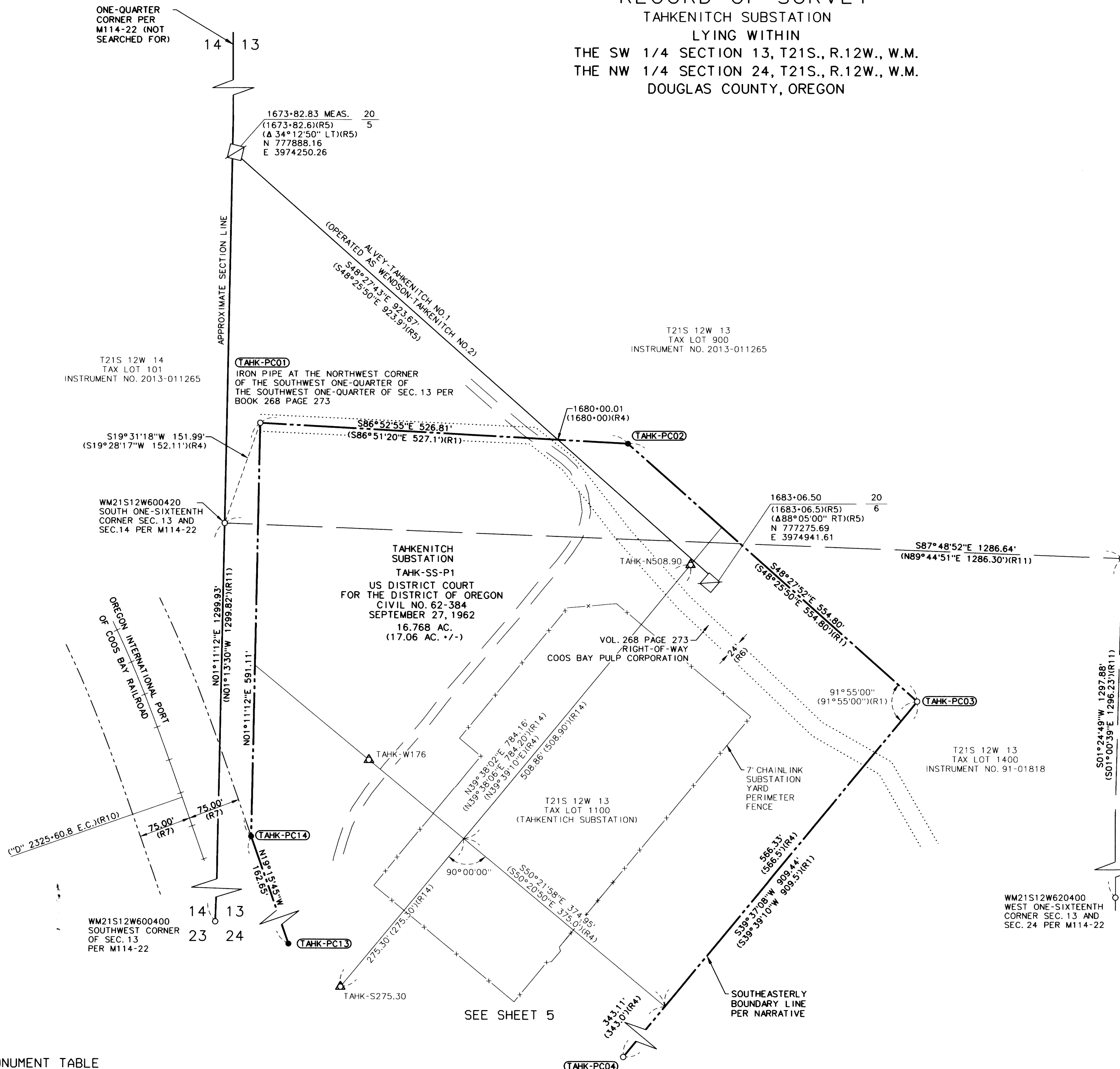
TAHKENITCH SUBSTATION  
LYING WITHIN  
THE SW 1/4 SECTION 13, T21S., R.12W., W.M.  
THE NW 1/4 SECTION 24, T21S., R.12W., W.M.  
DOUGLAS COUNTY, OREGON

FILED  
Date: 9-3-2019 By: Di  
This survey consists of:  
Map: M176-4 A-F  
Narrative: \_\_\_\_\_  
Corner Rpt: \_\_\_\_\_  
DOUGLAS COUNTY  
SURVEYOR

MAP FILE M176-4D

## LEGEND

- FOUND MONUMENT NOTED IN TABLE (SEE SHEET 1)
- △ CONTROL MONUMENT NOTED IN TABLE (SHEET 1)
- SET MONUMENT AS NOTED IN TABLE (THIS SHEET)
- ( ) RECORD DATA PER REFERENCE LIST (SHEET 3)
- XXXX MONUMENT NUMBER
- ◇ BPA STEEL TRANSMISSION TOWER
- BPA PROPERTY LINE
- x-x- BPA FENCE LINE
- BPA BASELINE
- BPA ACCESS ROAD
- BPA TRANSMISSION CENTER LINE
- RAILROAD ALIGNMENT "D"
- ONE-SIXTEENTH LINE PER M114-22
- PRIVATE BOUNDARY LINE
- RAILROAD RIGHT-OF-WAY LINE
- SECTION LINE PER M114-22
- VOL. 268, PG 273 RIGHT-OF-WAY LINE

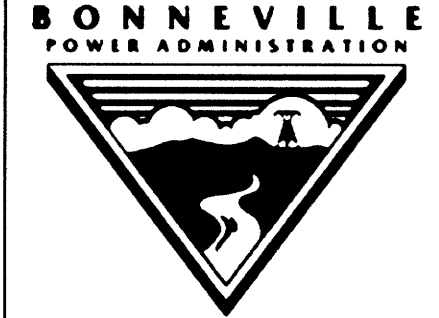


REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*Reed Carlson Beauduy*  
OREGON  
JANUARY 8, 2019  
REED CARLSON BEAUDUY  
93377PLS  
RENEWAL: DEC. 31, 2021  
SIGNED: 9/6/2019

FILE NAME: WO\_356103-68\_ROS.dgn

**OBEC** CONSULTING ENGINEERS  
A DOWL LLC Company  
CORPORATE OFFICE:  
920 COUNTRY CLUB ROAD, SUITE 100B EUGENE,  
OREGON 97401-6089  
REGIONAL OFFICES:  
LAKE OSWEGO; SALEM; MEDFORD, OREGON;  
VANCOUVER, WASHINGTON



TAHKENITCH SUBSTATION  
RECORD OF SURVEY  
DOUGLAS COUNTY, OREGON

AUGUST, 2019  
SCALE 1"=100'  
SHEET 4 OF 6

DESIGNED: R. BEAUDUY  
DRAWN: A. DOUGHAN  
CHK'D: N. WARDELL  
PROJ. NO. 684-004.61  
SER. NO. 336869-C

### SET MONUMENT TABLE

POINT ID	GRID NORTHING	GRID EASTING	DATE	DESCRIPTION
TAHK-PC02	777473.44	3974812.73	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC02 93377PLS OBE19", FLUSH
TAHK-PC13	776757.61	3974328.14	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC13 93377PLS OBE19", FLUSH
TAHK-PC14	776911.15	3974274.48	05/28/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC14 93377PLS OBE19", FLUSH

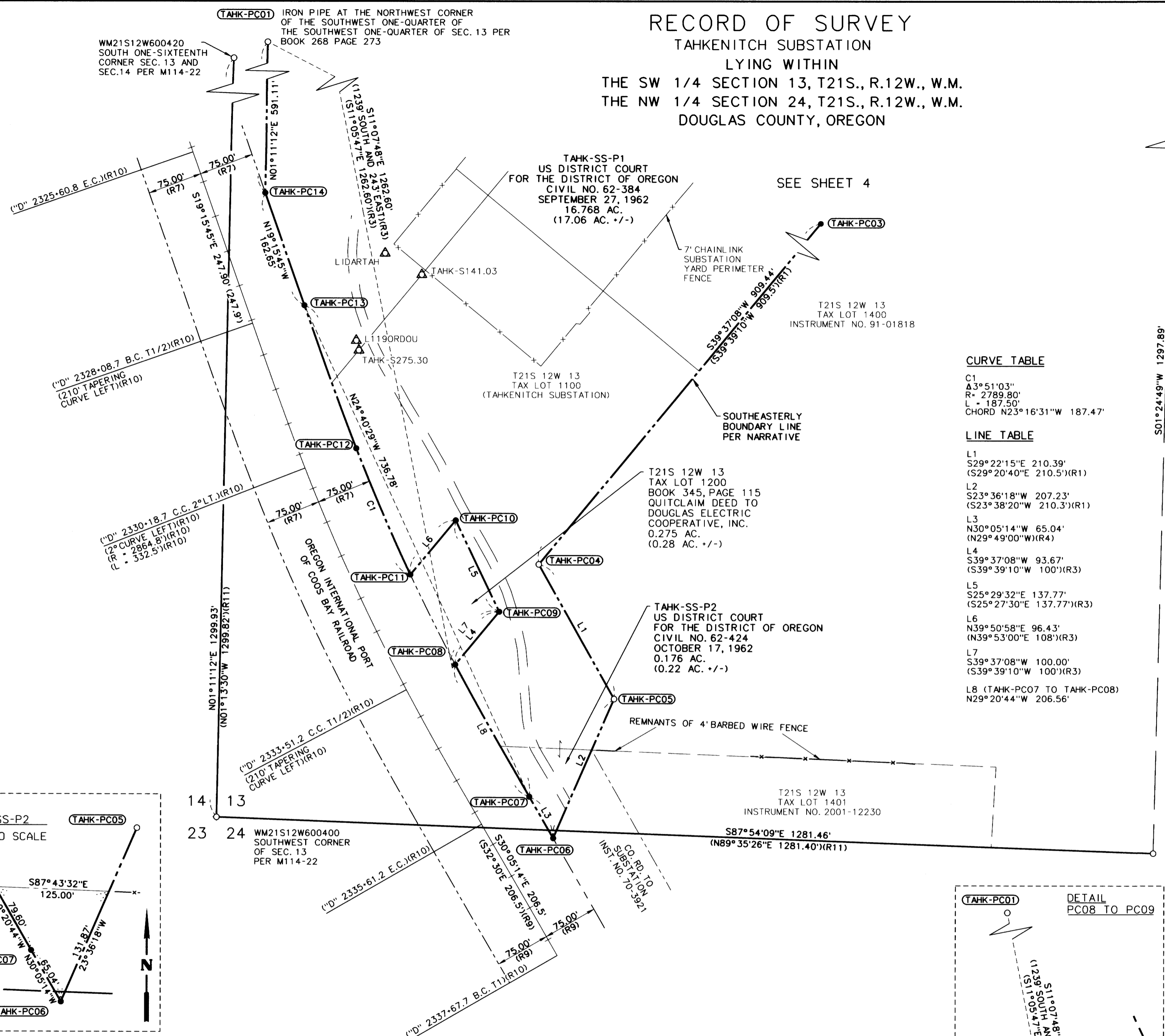
MAP FILE M176-4D

MAP FILE M176-4E

# RECORD OF SURVEY

TAHKENITCH SUBSTATION  
LYING WITHIN  
THE SW 1/4 SECTION 13, T21S., R.12W., W.M.  
THE NW 1/4 SECTION 24, T21S., R.12W., W.M.  
DOUGLAS COUNTY, OREGON

FILED  
Date: 9-3-2019 By: RB  
This survey consists of:  
Map: M176-4 A-F  
Narrative: \_\_\_\_\_  
Corner Rpt: \_\_\_\_\_  
  
DOUGLAS COUNTY  
SURVEYOR



WM21S12W620420  
SOUTHWEST ONE-SIXTEENTH  
CORNER SEC. 13  
PER M114-22

S01°24'49"W 1297.89'  
(S01°00'39"E 1296.23')(R11)

WM21S12W620400  
WEST ONE-SIXTEENTH CORNER  
OF SEC. 13 AND SEC. 24  
PER M114-22

SEE SHEET 4

### CURVE TABLE

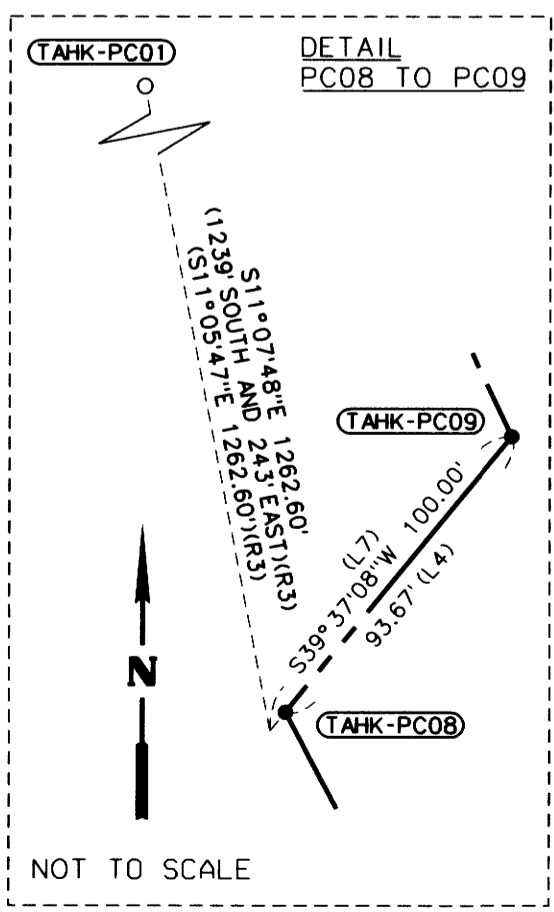
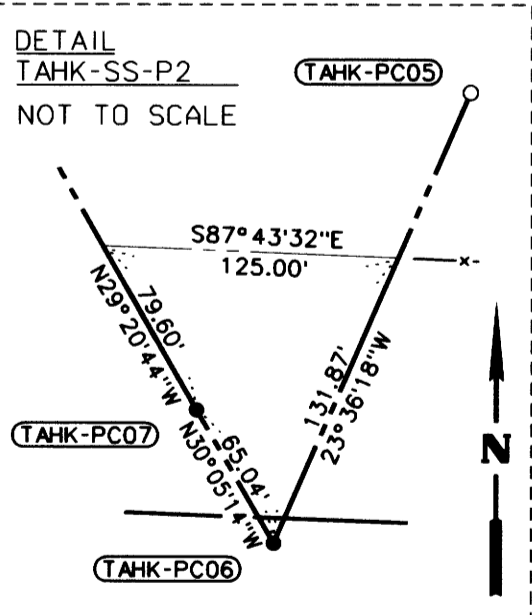
C1  
Δ3°51'03"  
R= 2789.80'  
L= 187.50'  
CHORD N23°16'31"W 187.47'

### LINE TABLE

L1  
S29°22'15"E 210.39'  
(S29°20'40"E 210.5')(R1)  
L2  
S23°36'18"W 207.23'  
(S23°38'20"W 210.3')(R1)  
L3  
N30°05'14"W 65.04'  
(N29°49'00"W)(R4)  
L4  
S39°37'08"W 93.67'  
(S39°39'10"W 100')(R3)  
L5  
S25°29'32"E 137.77'  
(S25°27'30"E 137.77')(R3)  
L6  
N39°50'58"E 96.43'  
(N39°53'00"E 108')(R3)  
L7  
S39°37'08"W 100.00'  
(S39°39'10"W 100')(R3)  
L8 (TAHK-PC07 TO TAHK-PC08)  
N29°20'44"W 206.56'

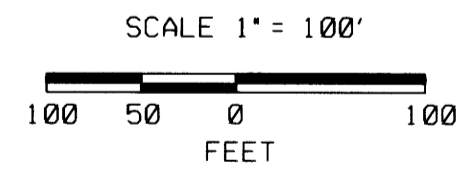
### LEGEND

- FOUND MONUMENT NOTED IN TABLE (SHEET 1)
- △ CONTROL MONUMENT NOTED IN TABLE (SHEET 1)
- SET MONUMENT AS NOTED IN TABLE (THIS SHEET)
- ( ) RECORD DATA PER REFERENCE LIST (SHEET 3)
- XXXX MONUMENT NUMBER
- BPA PROPERTY LINE
- BPA INTERIOR PROPERTY LINE
- BPA FENCE LINE
- BPA BASELINE
- BPA ACCESS ROAD
- COUNTY ROAD RIGHT-OF-WAY
- ONE-SIXTEENTH LINE PER M114-22
- PRIVATE BOUNDARY LINE
- RAILROAD RIGHT-OF-WAY LINE
- RAILROAD ALIGNMENT "D" CENTERLINE
- SECTION LINE PER M114-22



### SET MONUMENT TABLE

POINT ID	GRID NORTHING	GRID EASTING	DATE	DESCRIPTION
TAHK-PC06	776031.87	3974668.31	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC02 93377PLS OBE19", FLUSH
TAHK-PC07	776088.14	3974635.7	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC13 93377PLS OBE19", FLUSH
TAHK-PC08	776268.19	3974534.48	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC14 93377PLS OBE19", FLUSH
TAHK-PC09	776340.34	3974594.21	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC02 93377PLS OBE19", FLUSH
TAHK-PC10	776464.69	3974534.92	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC13 93377PLS OBE19", FLUSH
TAHK-PC11	776390.66	3974473.13	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC14 93377PLS OBE19", FLUSH
TAHK-PC12	776562.86	3974399.05	05/28/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC02 93377PLS OBE19", FLUSH
TAHK-PC13	776757.61	3974328.14	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC13 93377PLS OBE19", FLUSH
TAHK-PC14	776911.15	3974274.48	05/28/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC14 93377PLS OBE19", FLUSH

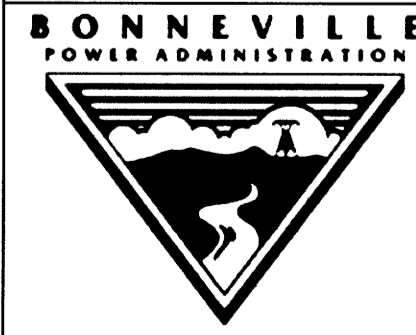


REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

OREGON  
JANUARY 8, 2019  
REED CARLSON BEAUDUY  
93377PLS  
RENEWAL: DEC. 31, 2021  
SIGNED: Aug 26, 2019

FILE NAME: WO\_356103-68\_ROS.dgn

**OBEC** CONSULTING ENGINEERS  
A DOWL LLC Company  
CORPORATE OFFICE:  
920 COUNTRY CLUB ROAD, SUITE 100B EUGENE,  
OREGON 97401-6089  
REGIONAL OFFICES:  
LAKE OSWEGO; SALEM; MEDFORD, OREGON;  
VANCOUVER, WASHINGTON



TAHKENITCH SUBSTATION  
RECORD OF SURVEY  
DOUGLAS COUNTY, OREGON

AUGUST, 2019  
SCALE 1"=100'  
SHEET 5 OF 6

DESIGNED: R. BEAUDUY  
DRAWN: A. DOUGHAN  
CHK'D: N. WARDELL  
PROJ. NO. 684-004.61  
SER. NO. 336869-C

MAP FILE M176-4E

# RECORD OF SURVEY

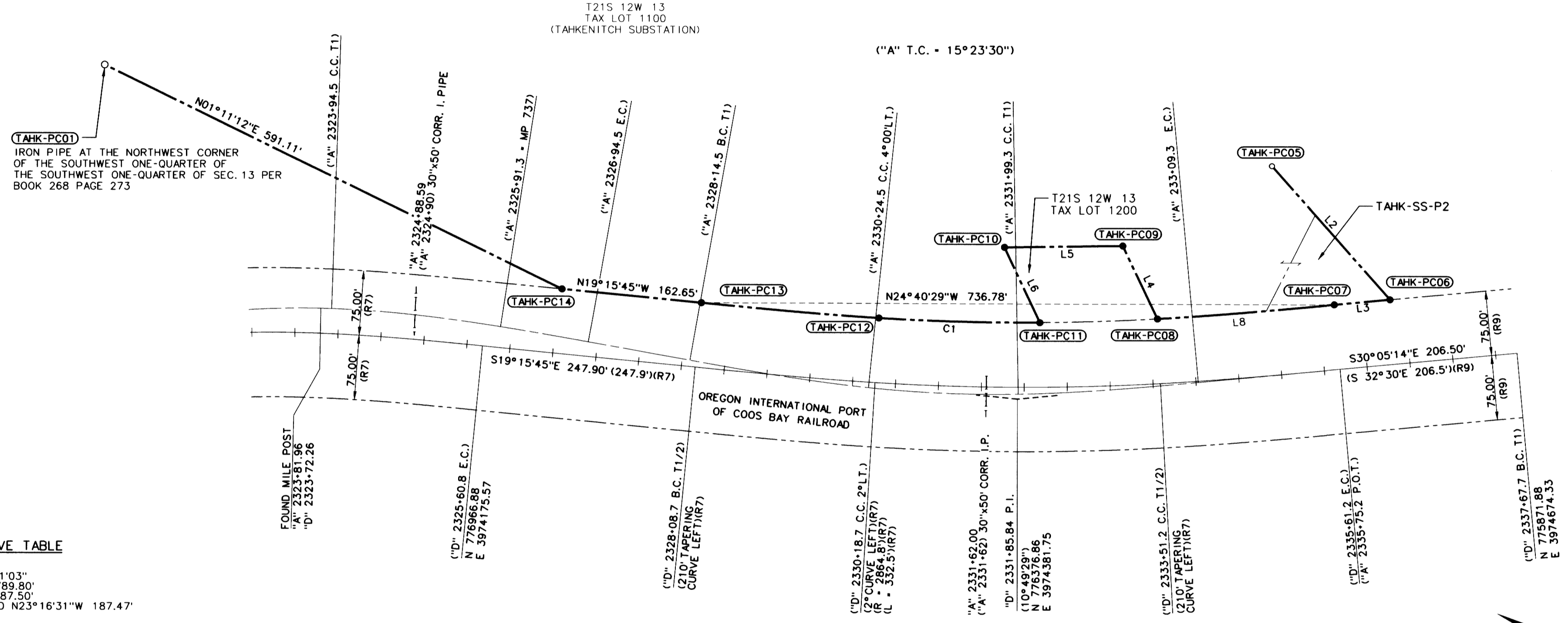
TAHKENITCH SUBSTATION  
LYING WITHIN  
THE SW 1/4 SECTION 13, T21S., R.12W., W.M.  
THE NW 1/4 SECTION 24, T21S., R.12W., W.M.  
DOUGLAS COUNTY, OREGON

FILED  
Date: 9-3-2019 By: Di  
This survey consists of:  
Map: M176-4 A-F  
Narrative: \_\_\_\_\_  
Corner Rpt: \_\_\_\_\_  
  
DOUGLAS COUNTY  
SURVEYOR

MAP FILE M176-4F

## LEGEND

- FOUND MONUMENT NOTED IN TABLE (SHEET 1)
- SET MONUMENT AS NOTED IN TABLE (THIS SHEET)
- ( ) RECORD DATA PER R10 UNLESS OTHERWISE NOTED PER REFERENCE LIST
- XXXX MONUMENT NUMBER
- BPA PROPERTY LINE
- BPA INTERIOR PROPERTY LINE
- RAILROAD RIGHT-OF-WAY LINE
- RAILROAD ALIGNMENT "A"
- RAILROAD ALIGNMENT "D"
- CULVERT (AS NOTED)



**CURVE TABLE**

C1  
A 3°51'03"  
R = 2789.80'  
L = 187.50'  
CHORD N23°16'31"W 187.47'

**LINE TABLE**

L3  
N30°05'14"W 65.04'  
(N29°49'00"W)(R4)

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*(Signature)*

OREGON  
JANUARY 8, 2019  
REED CARLSON BEAUDUY  
93377PLS

RENEWAL: DEC. 31, 2021  
SIGNED: Aug. 26, 2019

GRID  
SCALE 1" = 100'  
100 50 0 100  
FEET

## SET MONUMENT TABLE

POINT ID	GRID NORTHING	GRID EASTING	DATE	DESCRIPTION
TAHK-PC06	776031.87	3974668.31	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC06 93377PLS OBE19", FLUSH
TAHK-PC07	776088.14	3974635.70	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC07 93377PLS OBE19", FLUSH
TAHK-PC08	776268.19	3974534.48	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC08 93377PLS OBE19", FLUSH
TAHK-PC09	776340.34	3974594.21	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC09 93377PLS OBE19", FLUSH
TAHK-PC10	776464.69	3974534.92	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC10 93377PLS OBE19", FLUSH
TAHK-PC11	776390.66	3974473.13	05/21/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC11 93377PLS OBE19", FLUSH
TAHK-PC12	776562.86	3974399.05	05/28/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC12 93377PLS OBE19", FLUSH
TAHK-PC13	776757.61	3974328.14	05/22/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC13 93377PLS OBE19", FLUSH
TAHK-PC14	776911.15	3974274.48	05/28/19	SET 3-1/4" BPA ALUMINIUM CAP ON 5/8" X 30" REBAR STAMPED "TAHK-PC14 93377PLS OBE19", FLUSH

FILE NAME: WO\_356103-68\_ROS.dgn

A DOWL LLC Company

**CORPORATE OFFICE:**  
920 COUNTRY CLUB ROAD, SUITE 100B EUGENE,  
OREGON 97401-6089  
**REGIONAL OFFICES:**  
LAKE OSWEGO; SALEM; MEDFORD, OREGON;  
VANCOUVER, WASHINGTON

TAHKENITCH SUBSTATION  
RECORD OF SURVEY  
DOUGLAS COUNTY, OREGON

AUGUST, 2019  
SCALE 1"=100'  
SHEET 6 OF 6

DESIGNED: R. BEAUDUY	PROJ. NO. 684-004.61
DRAWN: A. DOUGHAN	SER. NO. 336869-C

MAP FILE M176-4F