

**NARRATIVE**

- N1. THIS SURVEY WAS MADE AT THE REQUEST OF THE BONNEVILLE POWER ADMINISTRATION (BPA) FOR THE PURPOSE OF RESOLVING THE BOUNDARY OF BPA TRACT CALK-SS IN HOOD RIVER COUNTY, OREGON, BEING THE FEE PARCEL OF THE CASCADE LOCKS SUBSTATION.
- N2. TRIMBLE R12i GNSS GPS RECEIVERS AND TRIMBLE S7 TOTAL STATIONS WERE UTILIZED FOR FIELD WORK. DATA WAS PROCESSED USING TRIMBLE BUSINESS CENTER (TBC) VERSION 5.40.
- N3. NAD\_83 (2011) (2010.0000) OREGON STATE PLANE NORTH (3601) WAS UTILIZED USING THE OREGON REAL-TIME GNSS NETWORK (ORGN). HORIZONTAL DATUM WAS VERIFIED USING EXISTING BPA CONTROL POINTS (BHR-G-007-01 & BHR-G2001) ONSITE. TWO NEW CONTROL POINTS WERE THEN SET & COORDINATES OBTAINED WITH GPS MAKING TWO 3-MINUTE OBSERVATIONS ON EACH. THESE NEW CONTROL POINTS WERE THEN OCCUPIED WITH A TOTAL STATION TO DOUBLE-TIE FOUND MONUMENTS USING TWO SEPARATE BACKSIGHTS.
- N4. BOUNDARY ANALYSIS INCLUDED REVIEWING BPA PLAN MAP R1 & VESTING DEED D1. ALTHOUGH SAID DEED DESCRIPTION COURSES ARE NOT CALLED TO MONUMENTS, THE COURSES AND DISTANCES DO MATCH SAID BPA SURVEY. THE NORTH LINE OF THE TRACT IS THE SOUTHEASTERLY RIGHT-OF-WAY BOUNDARY OF THE COLUMBIA RIVER HIGHWAY (U.S. HWY. 1-84). REVIEW OF BPA PLAN MAP R1 & VESTING DEED D1 INDICATED THAT THE EAST & WEST LINES WERE INTENDED TO BE PARALLEL WITH EACH OTHER AND THE SOUTH LINE TO BE AT 90° ANGLES TO BOTH.
- N5. MONUMENTS SET AT THE CORNERS OF THE TRACT PER BPA PLAN MAP R1 WERE ALL FOUND. THE NORTHWEST, NORTHEAST AND SOUTHEAST CORNER MONUMENTS WERE FOUND IN GOOD CONDITION. THE REFERENCE MONUMENT FOR THE SOUTHWEST CORNER WAS FOUND REMOVED FROM THE GROUND AND LAYING HORIZONTALLY. MONUMENTS OF RECORD PER O.D.O.T. HWY. MAP 6B-35-5(R2) ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY OF I-84 AT STATIONS 240+00.00 & 245+00.00 WERE ALSO FOUND. THE MONUMENT AT STATION 240+00.00 WAS IN GOOD CONDITION BUT STAMPING ON THE CAP WAS ILLEGIBLE. THE MONUMENT AT STATION 245+00.00 WAS FOUND IN GOOD CONDITION. ALSO FOUND IN GOOD CONDITION WAS MONUMENT \*626 MARKING THE NORTHEAST CORNER OF THE TRACT SURVEYED PER CS 1972002.
- N6. SAID STATE HIGHWAY MONUMENTS AGREED WITH SAID 6B-35-5 IN BEARING AND DISTANCE AND WERE HELD FOR THE RIGHT-OF-WAY. BPA MONUMENTS OF RECORD ALONG SAID RIGHT-OF-WAY WERE FOUND TO BE OFFLINE AS SHOWN. SAID MONUMENT \*626 PER CS 1972002 WAS ALSO FOUND TO BE SUBSTANTIALLY OUT OF POSITION AND WAS NOT USED FOR THE BOUNDARY RESOLUTION.
- N7. BPA MONUMENTS FOUND AT THE NORTHEAST & SOUTHEAST CORNERS WERE HELD FOR THE EAST LINE. RECORD ANGLE WAS THEN USED TO ESTABLISH THE SOUTH LINE TO KEEP IN HARMONY WITH THE VESTING DEED AND BPA SURVEY. TO MAINTAIN THE INTENTION OF PARALLEL LINES, THE BEARING ON THE EAST LINE WAS USED FOR THE WEST LINE, HOLDING THE MONUMENT FOUND AT THE NORTHWEST CORNER OF THE TRACT. THE WEST AND SOUTH LINES WERE THEN INTERSECTED TO ESTABLISH THE SOUTHWEST CORNER. EXISTING BPA MONUMENTS NEAR THE NORTHEAST AND NORTHWEST CORNERS ALONG THE I-84 RIGHT-OF-WAY WERE TREATED AS CLOSING CORNERS.
- N8. THE SOUTHWEST CORNER WAS MONUMENTED AS SHOWN AND POSTS SET ALONG THE BOUNDARY 8/16/2021 PER BPA STANDARDS. NEW MONUMENTATION WAS NOT SET AT THE NORTHWEST & NORTHEAST CORNERS OF THE TRACT.
- N9. INTERSTATE 84 STRIPING DEPICTING WESTBOUND & EASTBOUND LANES SHOWN FOR GRAPHICAL PURPOSES ONLY. THESE WERE NOT FIELD SURVEYED.

**BASIS OF BEARINGS**

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE OREGON STATE PLANE COORDINATE SYSTEM NAD83(2011)(EPOCH2010), NORTH ZONE, INTERNATIONAL FEET; HOLDING OPUS-DERIVED POSITIONS ON BONNEVILLE POWER ADMINISTRATION SUBSTATION CONTROL MONUMENT "BHR-G-007-01" AND MONUMENT "BHR-G2001", AS SHOWN ON SHEET 2.

DISTANCES SHOWN ARE GROUND. TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 0.99993048.

**SHEET INDEX**

- SHEET 1 - SHEET INDEX, NARRATIVE, REFERENCES, LEGAL DESCRIPTION, AND VICINITY MAP
- SHEET 2 - MONUMENT TABLE, PLAN MAP, SET MONUMENT DETAIL, AND LEGEND

**LEGAL DESCRIPTION:**

FEE TRACT CASCADE LOCKS SUBSTATION SITE (ALSO KNOWN AS: CALK-SS)

A TRACT OF LAND IN THE SE1/4SW1/4 OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 8 EAST, WILLAMETTE MERIDIAN, HOOD RIVER COUNTY, OREGON, MORE PARTICULARLY DESCRIBED AS:

BEGINNING AT A POINT IN THE SE1/4SW1/4 OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 8 EAST, WILLAMETTE MERIDIAN, SAID POINT BEING N 42°53'20" W A DISTANCE OF 629.7 FEET FROM THE QUARTER SECTION CORNER ON THE SOUTH LINE OF SAID SECTION 5; THENCE S 59°07'50" W A DISTANCE OF 235.0 FEET; THENCE N 30°52'10" W A DISTANCE OF 280.0 FEET TO THE SOUTHEASTERLY BOUNDARY LINE OF THE RIGHT OF WAY FOR RELOCATED COLUMBIA RIVER HIGHWAY; THENCE N 57°30'20" E ALONG SAID RIGHT OF WAY A DISTANCE OF 235.1 FEET; THENCE S 30°52'10" E A DISTANCE OF 286.7 FEET TO THE POINT OF BEGINNING, CONTAINING 1.53 ACRES, MORE OR LESS.

**SURVEY REFERENCES:**

- R1 BPA SURVEY DATED 5/28/59 SER. NO. 106197, DWG. NO. 358-11-340-C1
- R2 O.D.O.T. STATE HWY. MAP 6B-35-5
- R3 SURVEY NO. 2009 001 HOOD RIVER COUNTY SURVEY RECORDS BY: HWA INC. (DAVID R. WILLIAMS) FILED: 1-14-2009
- R4 SURVEY NO. 1972002 HOOD RIVER COUNTY SURVEY RECORDS BY: MARX & CHASE (JAMES W. CHASE) FILED: 1-17-1972

**DEED REFERENCES:**

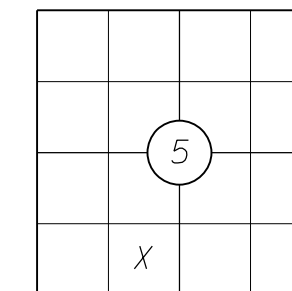
- D1 BOOK 65, PAGE 509 HOOD RIVER COUNTY DEED RECORDS

HOOD RIVER COUNTY SURVEYOR'S OFFICE

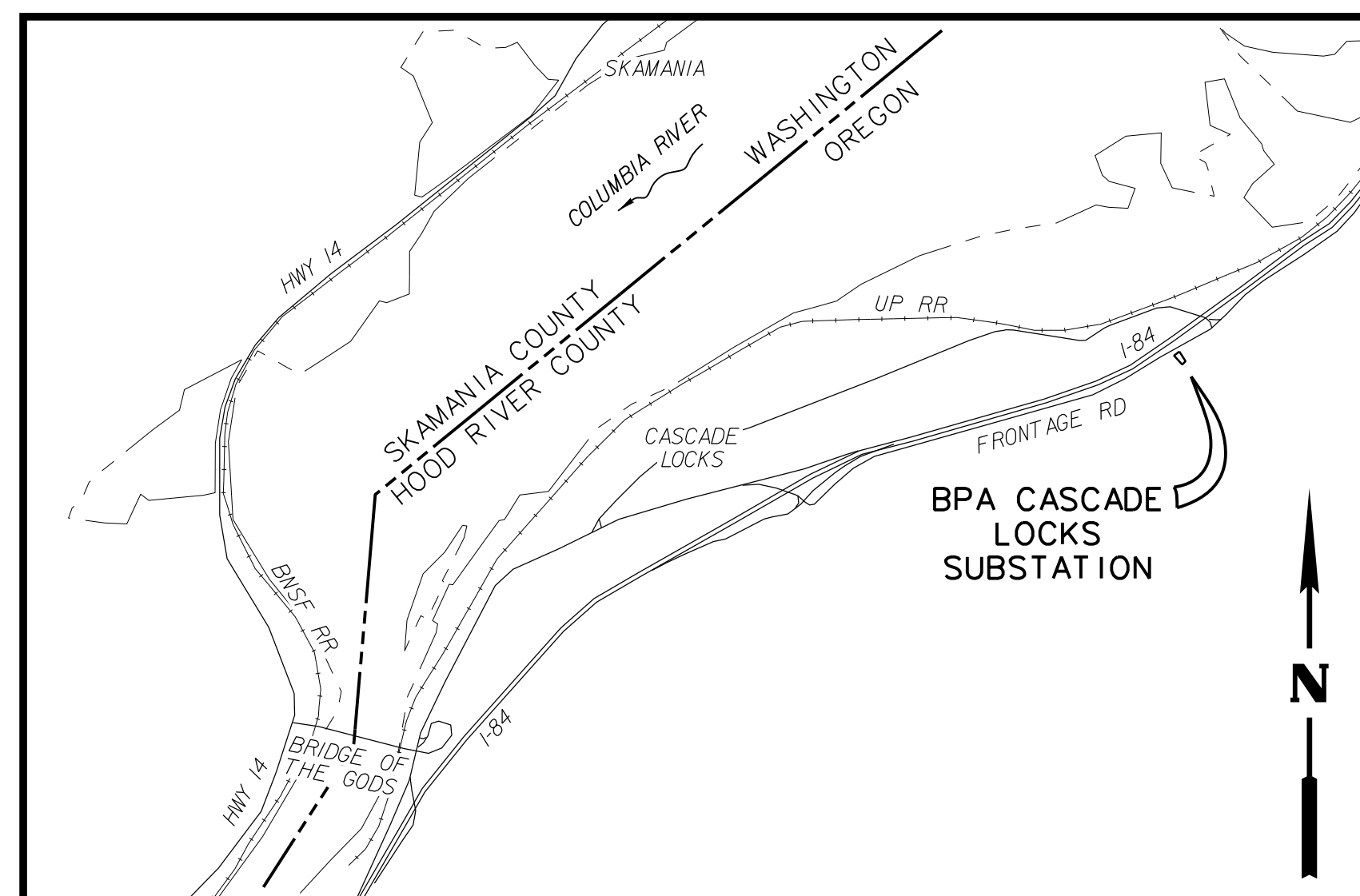
Survey No. 2021030

Filed 09/07/2021

By BC



T2N, R8E, W.M.



**VICINITY MAP**  
NOT TO SCALE

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON  
JULY 10, 2018  
DEREK ALLEN FEIGEL  
77555

RENEWS: 12/31/2021

BPA SERIAL NO. 347552-C



**DAVID EVANS AND ASSOCIATES INC.**  
2100 S River Parkway, Suite 100  
Portland Oregon 97201  
Phone: 503.223.6663

DATE: SEPT. 3, 2021  
DESIGN: DAFE  
DRAWN: DEM  
CHECKED: PMG

SCALE: AS NOTED

PROJECT NUMBER:  
BPAX0000-0466

DRAWING FILE:  
20-0145\_CALK\_ROS.dgn

SHEET NO.

**1**

OF 2

RECORD OF SURVEY FOR  
THE BONNEVILLE POWER ADMINISTRATION  
**CASCADE LOCKS SUBSTATION**  
SITUATED IN THE SW ONE-QUARTER OF SECTION 5  
TOWNSHIP 2 NORTH, RANGE 8 EAST, W.M.  
CITY OF CASCADE LOCKS  
HOOD RIVER COUNTY, OREGON

MONUMENT TABLE

POINT	NORTHING	EASTING	DESCRIPTION	DATE TIED
615	736230.06	7856134.02	FND 1-1/2" AC ON 5/8" IR, ILLEGIBLE, DOWN 0.1'	07/08/2021
617	736498.69	7856555.66	FND 1-1/2" AC ON 5/8" IR, "ORE STATE HWY", UP 0.1'	07/08/2021
625	736195.44	7856073.90	FND 3-3/4" BD IN 10" SQUARE CONC., "US COAST & GEODETIC SURVEY BENCH MARK, R44, FLUSH	07/08/2021
626	736188.98	7856071.90	FND 1-1/2" AC ON 5/8" IR, ILLEGIBLE, FLUSH	07/08/2021
BHR-G-007-01	736099.85	7856380.54	FND 3-1/4" BPA AC ON 5/8" IR, "BHR-G-007-01, DEA 1411", DOWN 0.4'	07/08/2021
BHR-G2001	735824.80	7856516.06	FND 5/8" IR W/ RPC, "BHR-G2001", DOWN 0.4'	07/08/2021
CALK-PC01	736370.91	7856352.48	FND 3-1/2" BPA BD ON 2" IP, UP 0.2'	07/08/2021
CALK-PC02	736125.72	7856500.88	FND 3-1/2" BPA BD ON 2" IP, UP 0.2'	07/08/2021
CALK-PC03	736243.62	7856154.92	FND 3-1/2" BPA BD ON 2" IP, DOWN 0.2'	07/08/2021
CALK-RC01	736008.35	7856297.32	SET 3-1/4" BPA AC ON 5/8" IR, "CALK-RC01, LS 77555, DEA 21"	08/16/2021
WM02N08E240600	735663.28	7856928.98	FND 3" BC ON 2" IP, "US DEPARTMENT OF AGRICULTURE-FOREST SERVICE, T2N R8E, 1/4 S5/S8 1987, LS 896", UP 0.2'	07/09/2021
WM02N08E300700	740856.40	7859664.26	FND 3-1/4" AC ON ALUM POST, "USDA FOREST SERVICE", UP 1.0' FROM WATER	09/18/2015

**NOTE**  
THIS SURVEY DOES NOT INTEND TO SHOW ALL EASEMENTS OR PHYSICAL FEATURES OF THE PROPERTY.

**LEGEND**

- AC ALUMINUM CAP
- BD BRASS DISK
- CONC CONCRETE
- FND FOUND
- IP IRON PIPE
- IR IRON ROD
- POB POINT OF BEGINNING
- N\* SURVEY NARRATIVE, SHEET 1
- ( )R\* SURVEY REFERENCE, SHEET 1
- ( )D\* DEED REFERENCE, SHEET 1
- W/ WITH
- FOUND MONUMENT
- SET MONUMENT (8/16/2021)
- △ CONTROL MONUMENT
- ⊕ CALCULATED CORNER, NOT SET
- ⊕ SECTION CORNER (FOUND)
- ⊕ SECTION 1/4 CORNER (FOUND)
- PLSS SECTION LINE
- - - PLSS QUARTER SECTION LINE
- · - · - BPA FEE LINE
- - - BPA SURVEY LINE
- - - CENTERLINE
- - - RIGHT-OF-WAY
- x - FENCE
- - - EDGE OF PAVEMENT
- · - · - EDGE OF GRAVEL

HOOD RIVER COUNTY SURVEYOR'S OFFICE

Survey No. 2021030

Filed 09/07/2021

By BC

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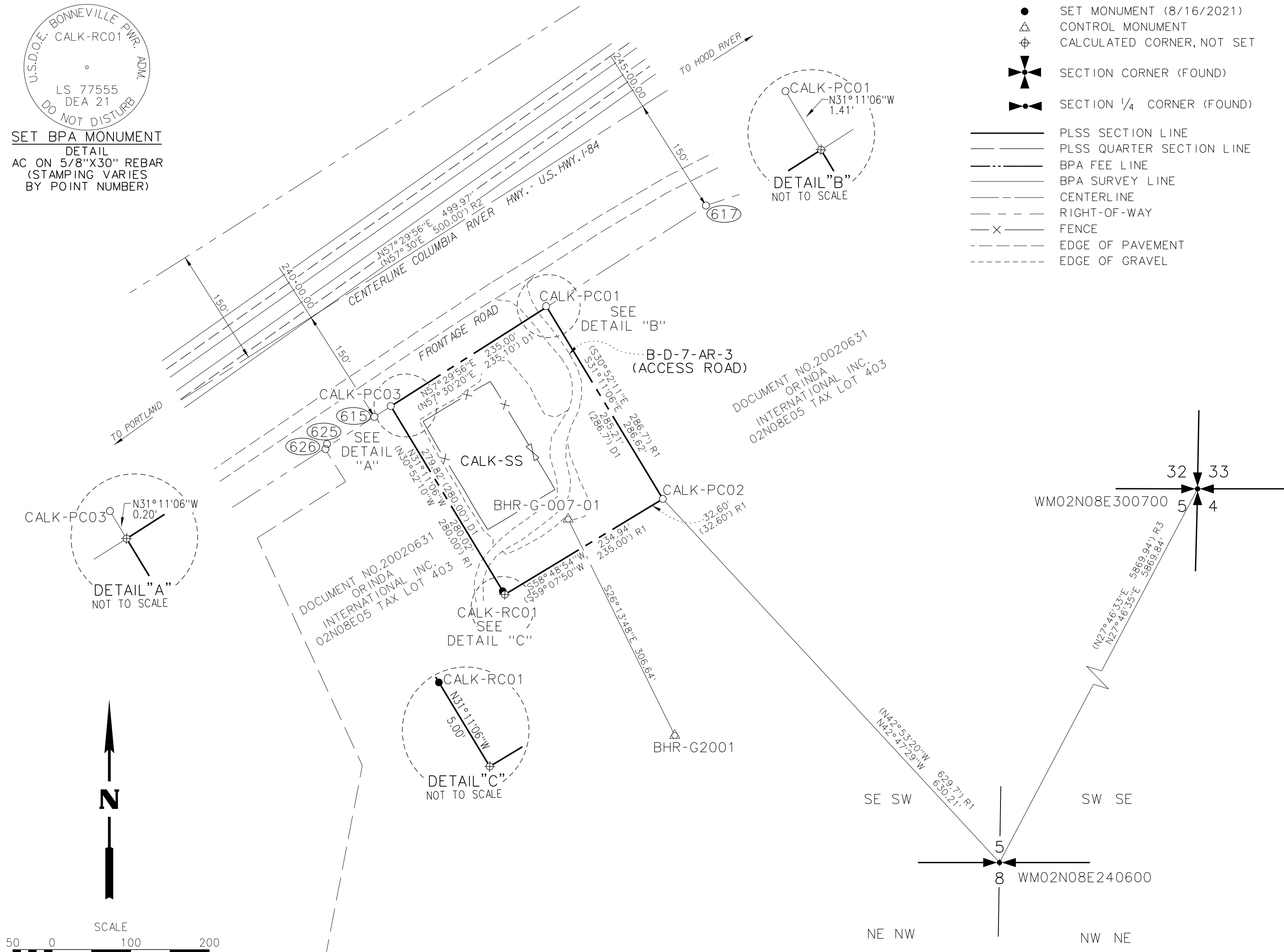
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CHECKED: PMG

SCALE: 1" = 100'

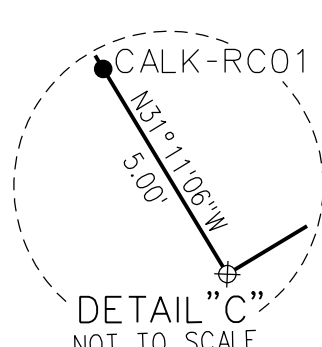
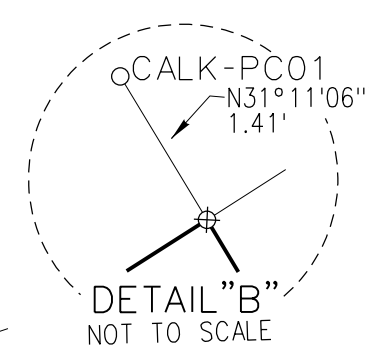
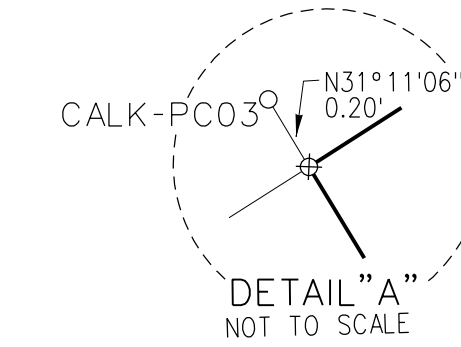
PROJECT NUMBER:  
**BPAX0000-0466**

DRAWING FILE:  
20-0145\_CALK\_ROS.dgn

SHEET NO.  
**2**  
OF 2



SET BPA MONUMENT  
DETAIL  
AC ON 5/8"X30" REBAR  
(STAMPING VARIES  
BY POINT NUMBER)



REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

OREGON  
JULY 10, 2018  
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