

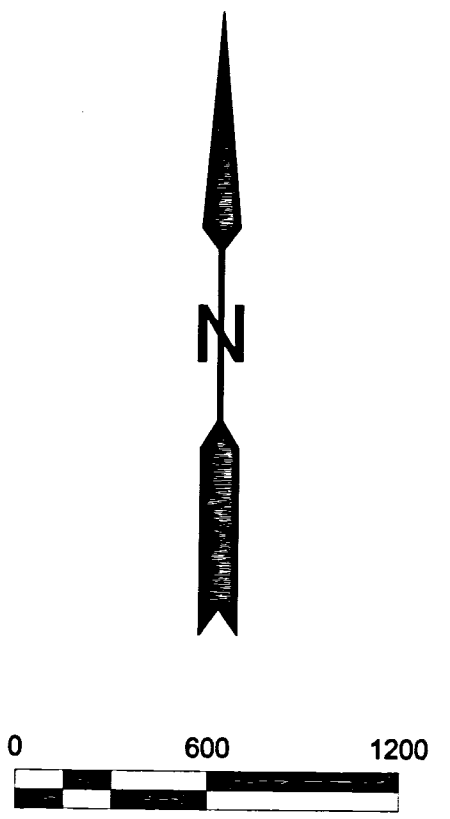
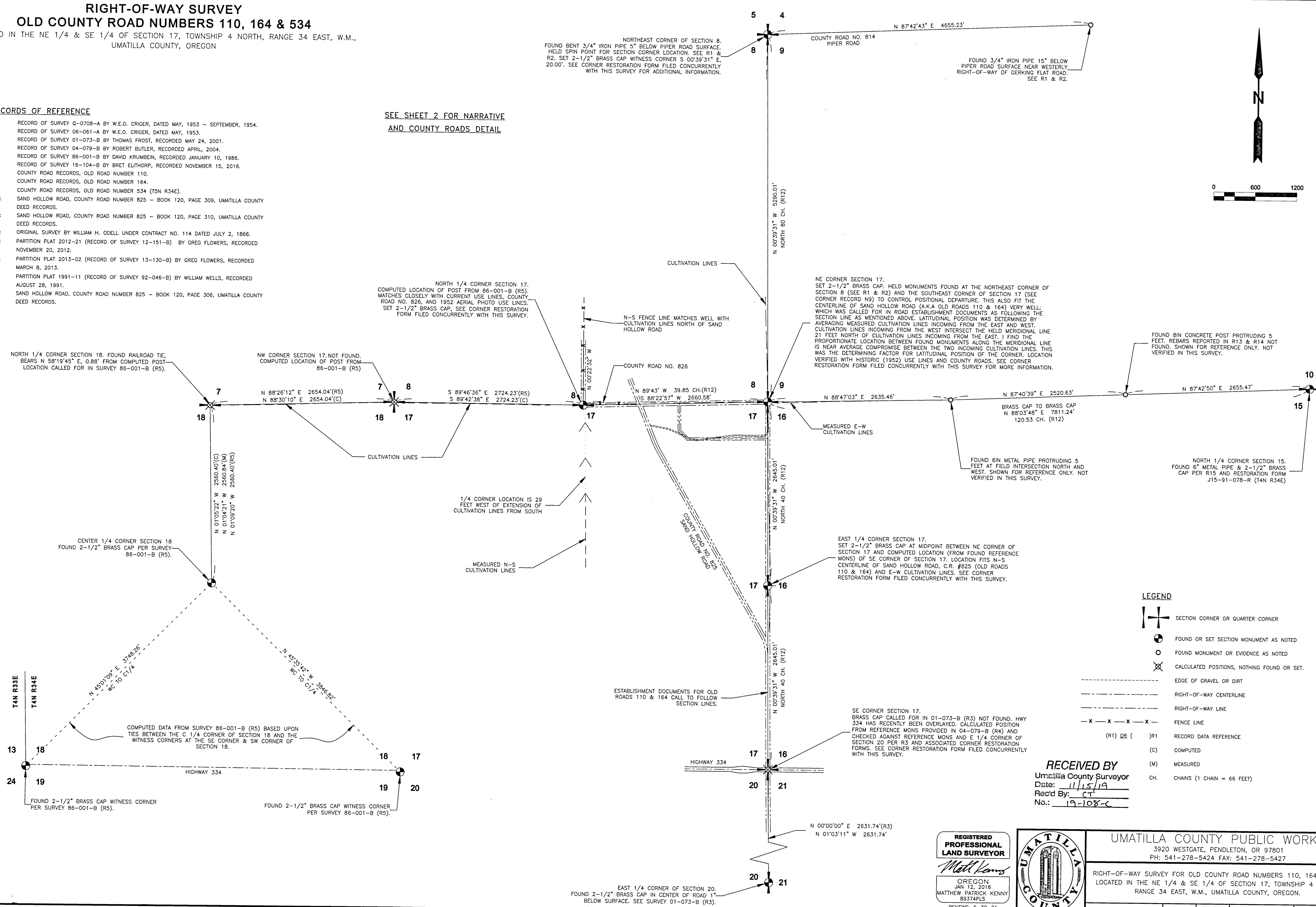
RIGHT-OF-WAY SURVEY OLD COUNTY ROAD NUMBERS 110, 164 & 534

LOCATED IN THE NE 1/4 & SE 1/4 OF SECTION 17, TOWNSHIP 4 NORTH, RANGE 34 EAST, W.M.,
UMATILLA COUNTY, OREGON

RECORDS OF REFERENCE

- R1: RECORD OF SURVEY 0-0708-A BY W.E.O. CRIGER, DATED MAY, 1953 - SEPTEMBER, 1954.
- R2: RECORD OF SURVEY 06-061-A BY W.E.O. CRIGER, DATED MAY, 1953.
- R3: RECORD OF SURVEY 01-073-B BY THOMAS FROST, RECORDED MAY 24, 2001.
- R4: RECORD OF SURVEY 04-079-B BY ROBERT BUTLER, RECORDED APRIL, 2004.
- R5: RECORD OF SURVEY 86-001-B BY DAVID KRUMBEIN, RECORDED JANUARY 10, 1986.
- R6: RECORD OF SURVEY 16-104-B BY BRET ELITHORP, RECORDED NOVEMBER 15, 2016.
- R7: COUNTY ROAD RECORDS, OLD ROAD NUMBER 110.
- R8: COUNTY ROAD RECORDS, OLD ROAD NUMBER 164.
- R9: COUNTY ROAD RECORDS, OLD ROAD NUMBER 534 (T5N R34E).
- R10: SAND HOLLOW ROAD, COUNTY ROAD NUMBER 825 - BOOK 120, PAGE 309, UMATILLA COUNTY DEED RECORDS.
- R11: SAND HOLLOW ROAD, COUNTY ROAD NUMBER 825 - BOOK 120, PAGE 310, UMATILLA COUNTY DEED RECORDS.
- R12: ORIGINAL SURVEY BY WILLIAM H. ODELL UNDER CONTRACT NO. 114 DATED JULY 2, 1866.
- R13: PARTITION PLAT 2012-21 (RECORD OF SURVEY 12-151-B) BY GREG FLOWERS, RECORDED NOVEMBER 20, 2012.
- R14: PARTITION PLAT 2013-02 (RECORD OF SURVEY 13-130-B) BY GREG FLOWERS, RECORDED MARCH 8, 2013.
- R15: PARTITION PLAT 1991-11 (RECORD OF SURVEY 92-046-B) BY WILLIAM WELLS, RECORDED AUGUST 28, 1991.
- R16: SAND HOLLOW ROAD, COUNTY ROAD NUMBER 825 - BOOK 120, PAGE 306, UMATILLA COUNTY DEED RECORDS.

SEE SHEET 2 FOR NARRATIVE
AND COUNTY ROADS DETAIL

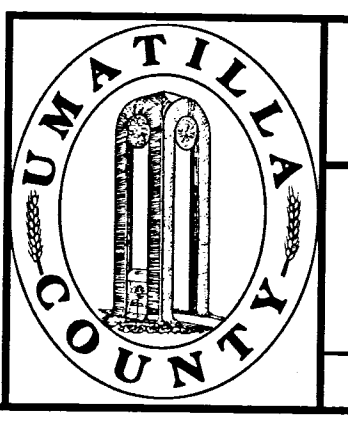


LEGEND

- SECTION CORNER OR QUARTER CORNER
- FOUND OR SET SECTION MONUMENT AS NOTED
- FOUND MONUMENT OR EVIDENCE AS NOTED
- CALCULATED POSITIONS, NOTHING FOUND OR SET.
- EDGE OF GRAVEL OR DIRT
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- FENCE LINE
- RECORD DATA REFERENCE
- COMPUTED
- MEASURED
- CHAINS (1 CHAIN = 66 FEET)

RECEIVED BY
Umatilla County Surveyor
Date: 11/15/19
Rec'd By: CT
No.: 19-108-C

**REGISTERED
PROFESSIONAL
LAND SURVEYOR**
Matthew Patrick Kenny
OREGON
JAN 12, 2016
MATTHEW PATRICK KENNY
83374PLS
RENEWS: 6-30-21

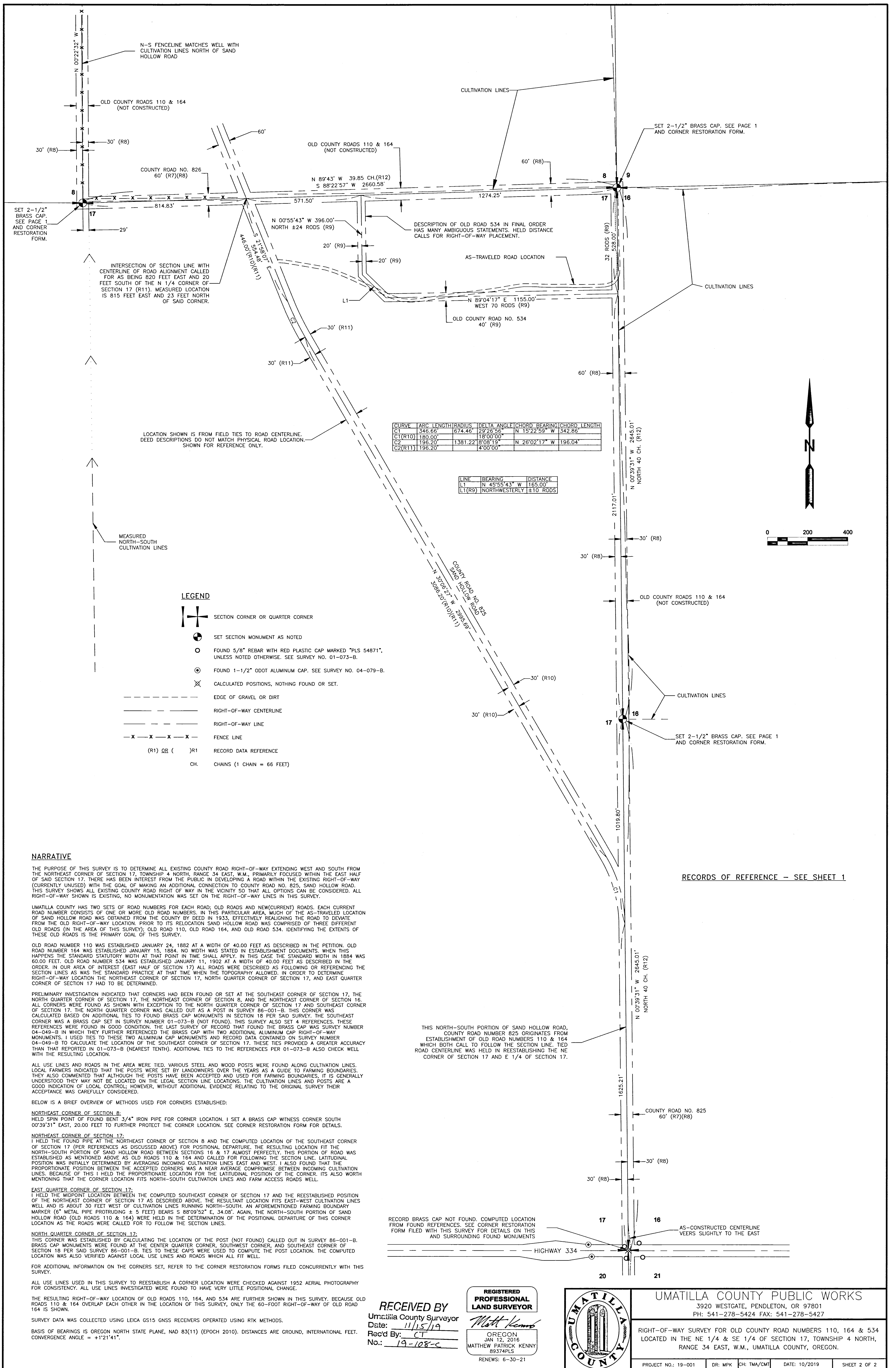


UMATILLA COUNTY PUBLIC WORKS
3920 WESTGATE, PENDLETON, OR 97801
PH: 541-278-5424 FAX: 541-278-5427

RIGHT-OF-WAY SURVEY FOR OLD COUNTY ROAD NUMBERS 110, 164 & 534
LOCATED IN THE NE 1/4 & SE 1/4 OF SECTION 17, TOWNSHIP 4 NORTH,
RANGE 34 EAST, W.M., UMATILLA COUNTY, OREGON.

PROJECT NO.: 19-001 DR: MPK CH: TMA/CMT DATE: 10/2019 SHEET 1 OF 2

EAST 1/4 CORNER OF SECTION 20.
FOUND 2-1/2" BRASS CAP IN CENTER OF ROAD 1"
BELOW SURFACE. SEE SURVEY 01-073-B (R3).



CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	346.66	674.46'	129°26'56"	N 15°22'59" W	342.86'
C1(R10)	180.00'		18°00'00"		
C2	196.20'	1381.22'	8°08'19"	N 26°02'17" W	196.04'
C2(R11)	196.20'		4°00'00"		

LINE	BEARING	DISTANCE
L1	N 49°55'43" W	1165.00'
L1(R9)	NORTHWESTERLY ±10 RODS	

LEGEND

- SECTION CORNER OR QUARTER CORNER
- SET SECTION MONUMENT AS NOTED
- FOUND 5/8" REBAR WITH RED PLASTIC CAP MARKED "PLS 54871", UNLESS NOTED OTHERWISE, SEE SURVEY NO. 01-073-B.
- FOUND 1-1/2" ODOT ALUMINUM CAP. SEE SURVEY NO. 04-079-B.
- CALCULATED POSITIONS, NOTHING FOUND OR SET.
- EDGE OF GRAVEL OR DIRT
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- FENCE LINE
- (R1) OR () R1 RECORD DATA REFERENCE
- CH. CHAINS (1 CHAIN = 66 FEET)

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO DETERMINE ALL EXISTING COUNTY ROAD RIGHT-OF-WAY EXTENDING WEST AND SOUTH FROM THE NORTHEAST CORNER OF SECTION 17, TOWNSHIP 4 NORTH, RANGE 34 EAST, W.M., PRIMARILY FOCUSED WITHIN THE EAST HALF OF SAID SECTION 17. THERE HAS BEEN INTEREST FROM THE PUBLIC IN DEVELOPING A ROAD WITHIN THE EXISTING RIGHT-OF-WAY (CURRENTLY UNUSED) WITH THE GOAL OF MAKING AN ADDITIONAL CONNECTION TO COUNTY ROAD NO. 825, SAND HOLLOW ROAD. THIS SURVEY SHOWS ALL EXISTING COUNTY ROAD RIGHT OF WAY IN THE VICINITY SO THAT ALL OPTIONS CAN BE CONSIDERED. ALL RIGHT-OF-WAY SHOWN IS EXISTING, NO MONUMENTATION WAS SET ON THE RIGHT-OF-WAY LINES IN THIS SURVEY.

UMATILLA COUNTY HAS TWO SETS OF ROAD NUMBERS FOR EACH ROAD; OLD ROADS AND NEW (CURRENT) ROADS. EACH CURRENT ROAD NUMBER CONSISTS OF ONE OR MORE OLD ROAD NUMBERS. IN THIS PARTICULAR AREA, MUCH OF THE AS-TRAVELED LOCATION OF SAND HOLLOW ROAD WAS OBTAINED FROM THE COUNTY BY DEED IN 1933, EFFECTIVELY REALIGNING THE ROAD TO DEVIATE FROM THE OLD RIGHT-OF-WAY LOCATION. PRIOR TO ITS RELOCATION SAND HOLLOW ROAD WAS COMPRISED OF THREE DIFFERENT OLD ROADS (IN THE AREA OF THIS SURVEY); OLD ROAD 110, OLD ROAD 164, AND OLD ROAD 534. IDENTIFYING THE EXTENTS OF THESE OLD ROADS IS THE PRIMARY GOAL OF THIS SURVEY.

OLD ROAD NUMBER 110 WAS ESTABLISHED JANUARY 24, 1882 AT A WIDTH OF 40.00 FEET AS DESCRIBED IN THE PETITION. OLD ROAD NUMBER 164 WAS ESTABLISHED JANUARY 15, 1884. NO WIDTH WAS STATED IN ESTABLISHMENT DOCUMENTS. WHEN THIS HAPPENS THE STANDARD STATUTORY WIDTH AT THAT POINT IN TIME SHALL APPLY. IN THIS CASE THE STANDARD WIDTH IN 1884 WAS 60.00 FEET. OLD ROAD NUMBER 534 WAS ESTABLISHED JANUARY 11, 1902 AT A WIDTH OF 40.00 FEET AS DESCRIBED IN THE ORDER. IN OUR AREA OF INTEREST (EAST HALF OF SECTION 17) ALL ROADS WERE DESCRIBED AS FOLLOWING OR REFERENCING THE SECTION LINES AS WAS THE STANDARD PRACTICE AT THAT TIME WHEN THE TOPOGRAPHY ALLOWED, IN ORDER TO DETERMINE RIGHT-OF-WAY LOCATION THE NORTHEAST CORNER OF SECTION 17, NORTH QUARTER CORNER OF SECTION 17, AND EAST QUARTER CORNER OF SECTION 17 HAD TO BE DETERMINED.

PRELIMINARY INVESTIGATION INDICATED THAT CORNERS HAD BEEN FOUND OR SET AT THE SOUTHEAST CORNER OF SECTION 17, THE NORTH QUARTER CORNER OF SECTION 17, THE NORTHEAST CORNER OF SECTION 8, AND THE NORTHEAST CORNER OF SECTION 16. ALL CORNERS WERE FOUND AS SHOWN WITH EXCEPTION TO THE NORTH QUARTER CORNER OF SECTION 17 AND SOUTHEAST CORNER OF SECTION 17. THE NORTH QUARTER CORNER WAS CALLED OUT AS A POST IN SURVEY 86-001-B. THIS CORNER WAS CALCULATED BASED ON ADDITIONAL TIES TO FOUND BRASS CAP MONUMENTS IN SECTION 18 PER SAID SURVEY. THE SOUTHEAST CORNER WAS A BRASS CAP SET IN SURVEY NUMBER 01-073-B (NOT FOUND). THIS SURVEY ALSO SET 4 REFERENCES. THESE REFERENCES WERE FOUND IN GOOD CONDITION. THE LAST SURVEY OF RECORD THAT FOUND THE BRASS CAP WAS SURVEY NUMBER 04-049-B IN WHICH THEY REFERENCED THE BRASS CAP WITH TWO ADDITIONAL ALUMINUM CAP RIGHT-OF-WAY MONUMENTS. I USED TIES TO THESE TWO ALUMINUM CAP MONUMENTS AND RECORD DATA CONTAINED ON SURVEY NUMBER 04-049-B TO CALCULATE THE LOCATION OF THE SOUTHEAST CORNER OF SECTION 17. THESE TIES PROVIDED A GREATER ACCURACY THAN THAT REPORTED IN 01-073-B (NEAREST TENTH). ADDITIONAL TIES TO THE REFERENCES PER 01-073-B ALSO CHECK WELL WITH THE RESULTING LOCATION.

ALL USE LINES AND ROADS IN THE AREA WERE TIED. VARIOUS STEEL AND WOOD POSTS WERE FOUND ALONG CULTIVATION LINES. LOCAL FARMERS INDICATED THAT THE POSTS WERE SET BY LANDOWNERS OVER THE YEARS AS A GUIDE TO FARMING BOUNDARIES. THEY ALSO COMMENTED THAT ALTHOUGH THE POSTS HAVE BEEN ACCEPTED AND USED FOR FARMING BOUNDARIES, IT IS GENERALLY UNDERSTOOD THEY MAY NOT BE LOCATED ON THE LEGAL SECTION LINE LOCATIONS. THE CULTIVATION LINES AND POSTS ARE A GOOD INDICATION OF LOCAL CONTROL; HOWEVER, WITHOUT ADDITIONAL EVIDENCE RELATING TO THE ORIGINAL SURVEY THEIR ACCEPTANCE WAS CAREFULLY CONSIDERED.

BELOW IS A BRIEF OVERVIEW OF METHODS USED FOR CORNERS ESTABLISHED:

NORTHEAST CORNER OF SECTION 8:
HELD SPIN POINT OF FOUND BENT 3/4" IRON PIPE FOR CORNER LOCATION. I SET A BRASS CAP WITNESS CORNER SOUTH 00°39'31" EAST, 20.00 FEET TO FURTHER PROTECT THE CORNER LOCATION. SEE CORNER RESTORATION FORM FOR DETAILS.

NORTHEAST CORNER OF SECTION 17:
I HELD THE FOUND PIPE AT THE NORTHEAST CORNER OF SECTION 8 AND THE COMPUTED LOCATION OF THE SOUTHEAST CORNER OF SECTION 17 (PER REFERENCES AS DISCUSSED ABOVE) FOR POSITIONAL DEPARTURE. THE RESULTING LOCATION FIT THE NORTH-SOUTH PORTION OF SAND HOLLOW ROAD BETWEEN SECTIONS 16 & 17 ALMOST PERFECTLY. THIS PORTION OF ROAD WAS ESTABLISHED AS MENTIONED ABOVE AS OLD ROADS 110 & 164 AND CALLED FOR FOLLOWING THE SECTION LINE. LATITUDINAL POSITION WAS INITIALLY DETERMINED BY AVERAGING INCOMING CULTIVATION LINES EAST AND WEST. I ALSO FOUND THAT THE PROPORTIONATE POSITION BETWEEN THE ACCEPTED CORNERS WAS A NEAR AVERAGE COMPROMISE BETWEEN INCOMING CULTIVATION LINES. BECAUSE OF THIS I HELD THE PROPORTIONATE LOCATION FOR THE LATITUDINAL POSITION OF THE CORNER. ITS ALSO WORTH MENTIONING THAT THE CORNER LOCATION FITS NORTH-SOUTH CULTIVATION LINES AND FARM ACCESS ROADS WELL.

EAST QUARTER CORNER OF SECTION 17:
I HELD THE MIDPOINT LOCATION BETWEEN THE COMPUTED SOUTHEAST CORNER OF SECTION 17 AND THE REESTABLISHED POSITION OF THE NORTHEAST CORNER OF SECTION 17 AS DESCRIBED ABOVE. THE RESULTANT LOCATION FITS EAST-WEST CULTIVATION LINES WELL AND IS ABOUT 30 FEET WEST OF CULTIVATION LINES RUNNING NORTH-SOUTH. AN AFOREMENTIONED FARMING BOUNDARY MARKER (6" METAL PIPE PROTRUDING ± 5 FEET) BEARS S 88°09'52" E, 34.08'. AGAIN, THE NORTH-SOUTH PORTION OF SAND HOLLOW ROAD (OLD ROADS 110 & 164) WERE HELD IN THE DETERMINATION OF THE POSITIONAL DEPARTURE OF THIS CORNER LOCATION AS THE ROADS WERE CALLED FOR TO FOLLOW THE SECTION LINES.

NORTH QUARTER CORNER OF SECTION 17:
THIS CORNER WAS ESTABLISHED BY CALCULATING THE LOCATION OF THE POST (NOT FOUND) CALLED OUT IN SURVEY 86-001-B. BRASS CAP MONUMENTS WERE FOUND AT THE CENTER QUARTER CORNER, SOUTHWEST CORNER, AND SOUTHEAST CORNER OF SECTION 18 PER SAID SURVEY 86-001-B. TIES TO THESE CAPS WERE USED TO COMPUTE THE POST LOCATION. THE COMPUTED LOCATION WAS ALSO VERIFIED AGAINST LOCAL USE LINES AND ROADS WHICH ALL FIT WELL.

FOR ADDITIONAL INFORMATION ON THE CORNERS SET, REFER TO THE CORNER RESTORATION FORMS FILED CONCURRENTLY WITH THIS SURVEY.

ALL USE LINES USED IN THIS SURVEY TO REESTABLISH A CORNER LOCATION WERE CHECKED AGAINST 1952 AERIAL PHOTOGRAPHY FOR CONSISTENCY. ALL USE LINES INVESTIGATED WERE FOUND TO HAVE VERY LITTLE POSITIONAL CHANGE.

THE RESULTING RIGHT-OF-WAY LOCATION OF OLD ROADS 110, 164, AND 534 ARE FURTHER SHOWN IN THIS SURVEY, BECAUSE OLD ROADS 110 & 164 OVERLAP EACH OTHER IN THE LOCATION OF THIS SURVEY, ONLY THE 60-FOOT RIGHT-OF-WAY OF OLD ROAD 164 IS SHOWN.

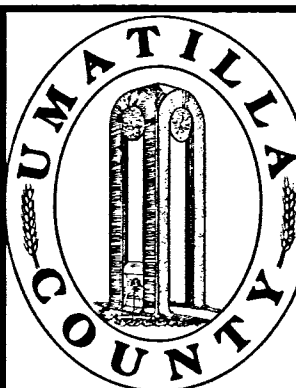
SURVEY DATA WAS COLLECTED USING LEICA GS15 GNSS RECEIVERS OPERATED USING RTK METHODS.

BASIS OF BEARINGS IS OREGON NORTH STATE PLANE, NAD 83(11) (EPOCH 2010). DISTANCES ARE GROUND, INTERNATIONAL FEET. CONVERGENCE ANGLE = +1°21'41".

RECEIVED BY
Umatilla County Surveyor
Date: 11/15/19
Rec'd By: CT
No.: 19-108-c

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Matt Kenny
OREGON
JAN 12, 2016
MATTHEW PATRICK KENNY
89374PLS
RENEWS: 6-30-21



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