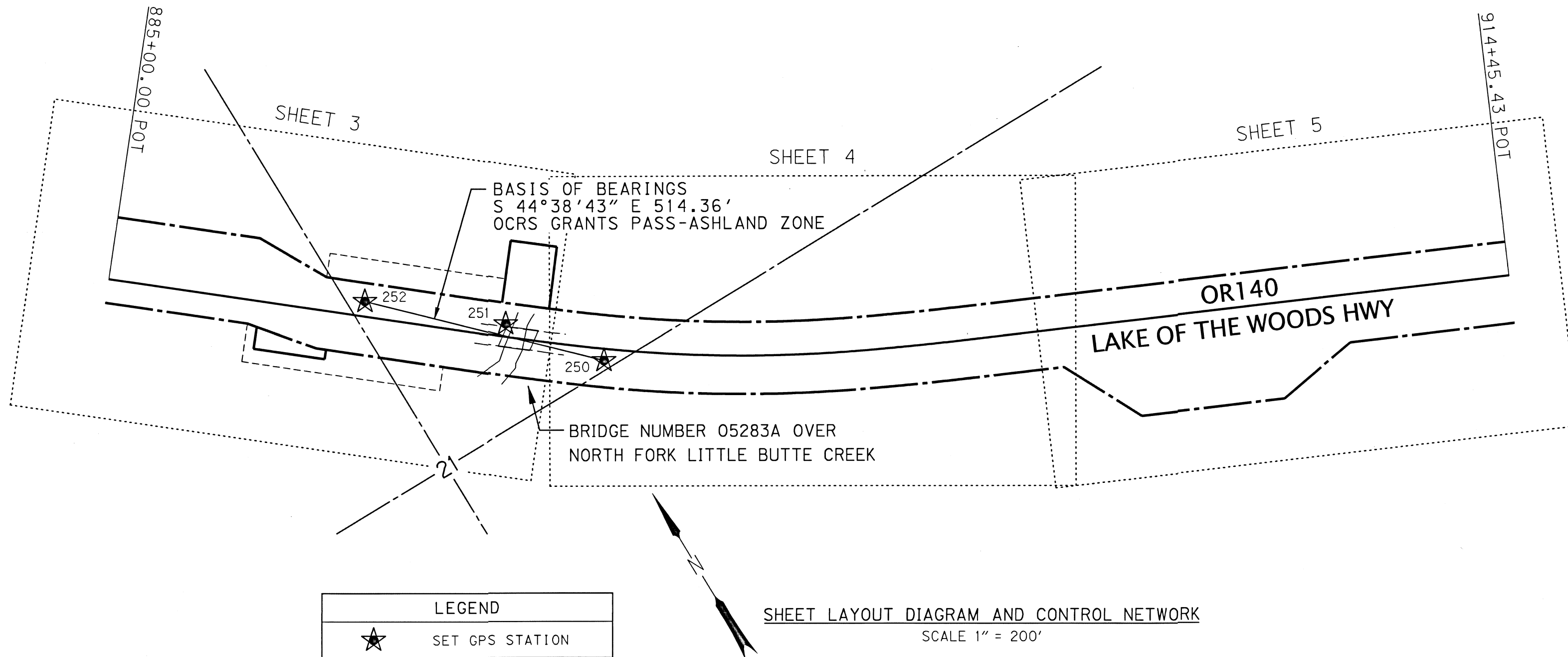


NE 1/4 SECTION 21, SE 1/4 SECTION 21
AND NW 1/4 SECTION 21
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.

SHEET INDEX

- 1 SHEET LAYOUT DIAGRAM, CONTROL NETWORK, CONTROL NARRATIVE & SHEET INDEX
- 2 NARRATIVE & REFERENCES
- 3-5 SURVEY



CONTROL NARRATIVE

PROJECT: SOUTHERN OREGON SEISMIC BRIDGE PROJECT
LOCATION: JACKSON COUNTY, OREGON
DOWL PROJECT: 0019-593.00
UNITS: INTERNATIONAL FEET

SURVEY DATUM: HORIZONTAL: NAD83 (2011) (EPOCH 2010.00)
VERTICAL: NAVD 88

OREGON COORDINATE REFERENCE SYSTEM - GRANTS PASS - ASHLAND ZONE PER OAR 734-005-0015.
TRAVERSE MERCATOR PROJECTION
LATITUDE OF GRID ORIGIN: 41°45' 00" N
CENTRAL MERIDIAN: 123° 20' 00" W
FALSE NORTHING: 0.000 M (0.00 IFT)
FASE EASTING: 50,000.000 M (164,041.9948 IFT)
CENTRAL MERIDIAN SCALE: 1.000043 (EXACT)

IFT = INTERNATIONAL FEET
M= METER

BASIS OF BEARINGS

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM - GRANTS PASS - ASHLAND ZONE - PER OAR 734-005-0015.

COORDINATES AND DISTANCES SHOWN HEREON ARE INTERNATIONAL FEET.

HORIZONTAL CONTROL SURVEY

THE PRIMARY HORIZONTAL CONTROL NETWORK THAT WAS ESTABLISHED ON THIS PROJECT USED GPS AND THE OREGON REAL-TIME GNSS NETWORK (ORGN) TO PERFORM TWO SEPARATE OBSERVATION SESSIONS, EACH OF WHICH WAS AT LEAST FOUR HOURS APART IN ORDER TO OBTAIN DIFFERENT SATELLITE GEOMETRY, TO HORIZONTAL POSITIONS FOR PRIMARY CONTROL POINTS 250-252.

CONTROL POINTS FOR THIS SURVEY WERE NOT SET ON AND DO NOT REPRESENT PROPERTY LINES OR RIGHT-OF-WAY LINES AND ARE INTENDED FOR THE USE OF ODOT AND DOWL IN SUPPORT OF CURRENT AND FUTURE PROJECTS. IT IS NOT THE INTENT OF ODOT OR DOWL TO PERPETUATE THESE CONTROL POINTS AS MONUMENTS.

VERTICAL CONTROL SURVEY

A DIGITAL LEVEL LOOP WAS RUN THROUGH PRIMARY CONTROL POINTS 250-252. THE ELEVATION OF 1779.67 FEET, DERIVED FROM GPS OBSERVATIONS WAS HELD AT CONTROL POINT 252.

FILED
Date 1/25/21 By SS
This Survey Consist Of:
5 sheet(s) Map
0 page(s) Narrative
JACKSON COUNTY SURVEYOR

FILE NAME: S_K22083_crr_01_Site 9.dgn

DOWL
920 Country Club Rd., Ste. 100B
Eugene, Oregon 97401
541-683-6090

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL,
RECOVERY AND RETRACEMENT SURVEY
SOUTHERN OREGON SEISMIC BRIDGE RETROFIT
SITE 9 (N. FORK LITTLE BUTTE CREEK)
JACKSON COUNTY

ODOT REGION 3
100 ANTELOPE ROAD
WHITE CITY, OR 97503
KEY NO. 22083

JANUARY 2021
1" = 200'
SHEET 1 OF 5

DESIGNED: J. COLTON
DRAWN: SMG
CHK'D: A. SILBERNAGEL

PROJ. NO. 0019-0593

CONTROL MONUMENT TABLE

PT ID	LATITUDE	LONGITUDE	HEIGHT (IF)	OCRS NORTHING	OCRS EASTING	NAVD 88 ELEVATION	DATE	DESCRIPTION
250	N42°25'31.90391"	W122°35'21.96787"	1709.318	247066.02	364904.74	1787.81	12/10/2019	5/8" X 30" IR W/OPC "OBEC CONTROL", SET FLUSH
251	N42°25'33.61848"	W122°35'23.75566"	1703.319	247238.43	364769.13	1781.80	12/10/2019	5/8" X 30" IR W/OPC "OBEC CONTROL", SET FLUSH
252	N42°25'35.54963"	W122°35'26.74392"	1701.137	247431.98	364543.29	1779.67	12/10/2019	5/8" X 30" IR W/OPC "OBEC CONTROL", SET FLUSH

IR = IRON ROD
OPC = ORANGE PLASTIC CAP
W/ = WITH

NOTE:
OUR CONTROL MONUMENTS WERE SET PRIOR TO JANUARY 1, 2020 WHILE WE WERE STILL OPERATING AS "OBEC". AS OF JANUARY 1, 2020 WE BECAME KNOWN AS "DOWL".

REGISTERED PROFESSIONAL LAND SURVEYOR
James W. Colton
OREGON JAN. 12, 1999
JAMES W. COLTON
#58756

RENEWS: DEC. 31, 2021
SIGNED: 1/11/2021

APPROVED BY:
A. SILBERNAGEL
DOWL SURVEY MANAGER

NE 1/4 SECTION 21, SE 1/4 SECTION 21
AND NW 1/4 SECTION 21
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.

NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO RESOLVE THE RIGHT-OF-WAY OF A PORTION OF THE LAKE OF THE WOODS HIGHWAY (OR140). THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT), WHO HAS PLANS FOR SEISMIC RETROFIT IMPROVEMENTS AT THIS SITE. THIS SURVEY WAS DONE BETWEEN DECEMBER 2019 AND AUGUST 2020.

ANOTHER PURPOSE OF THIS SURVEY WAS TO PROVIDE THE PERPETUATION OF THE POSITIONS OF SURVEY MONUMENTS THAT MAY BE DESTROYED BY FUTURE CONSTRUCTION EFFORTS. THIS WAS ACCOMPLISHED BY TYING THE FOUND MONUMENTS INTO THE PROJECT CONTROL NETWORK. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES CHAPTER 209.155.

OR140

THE CENTERLINE OF OR140 WAS RETRACED PER ODOT ROLL MAPS 9B-1-16 AND 5B-30-3.

ODOT RIGHT OF WAY MONUMENTS (1001,1253,1254,1256, AND 1275) WERE RECOVERED. I HELD A PROPORTIONATE SPLIT BETWEEN MONUMENTS 1253 AND 1256 AND RECORD OFFSET FROM MONUMENT 1254 TO ESTABLISH THE FIRST TANGENT. I ESTABLISHED A LINE TANGENT TO THE RECORD OFFSETS FROM MONUMENTS 1275 AND 1001 TO ESTABLISH THE SECOND TANGENT.

I HELD RECORD SPIRAL LENGTHS AND DEGREE OF CURVATURE FOR THE CIRCULAR CURVE TO DEFINE THE CURVE BETWEEN THE TWO TANGENTS.

I HELD RECORD STATION (888+00.00) PER ODOT ROLL MAP 9B-1-16 FOR MONUMENT 1256.

THE RIGHT OF WAY LINES WERE OFFSET RECORD DISTANCES FROM THE CENTER LINE PER ODOT RIGHT OF WAY FILES RW 6149, RW 40689, AND RW 40693.

IN MANY CASES ACCESS CONTROL LINE MAY BE THE SAME AS THE RIGHT OF WAY LINE. THE PURPOSE OF AN ACCESS CONTROL LINE IS SO ODOT CAN LIMIT ACCESS TO THEIR ROADWAY AT SPECIFIC LOCATIONS.

REFERENCE LIST

ODOT ROLL MAPS

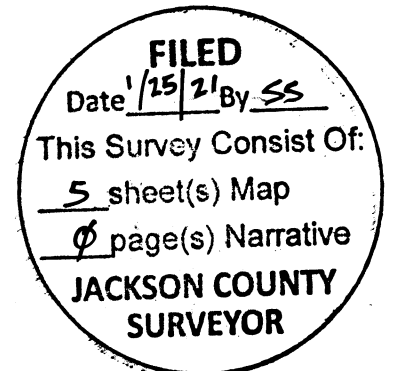
- R1 5B-30-3, DATED DECEMBER, 1940
- R2 9B-1-16, DATED NOVEMBER, 1966

ODOT RIGHT OF WAY FILES

- RW1 ODOT RW FILE 40689
- RW2 ODOT RW FILE 40693
- RW3 ODOT RW FILE 6149

CORNER NOTES

- CN1 T362E240400



FILE NAME: S_k22083_crr_01_Site 9.dgn

920 Country Club Rd., Ste. 100B
Eugene, Oregon 97401
541-683-6090

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL,
RECOVERY AND RETRACEMENT SURVEY
SOUTHERN OREGON SEISMIC BRIDGE RETROFIT
SITE 9 (N. FORK LITTLE BUTTE CREEK)
JACKSON COUNTY

ODOT REGION 3
100 ANTELOPE ROAD
WHITE CITY, OR 97503

JANUARY 2021
KEY NO. 22083
SHEET 2 OF 5

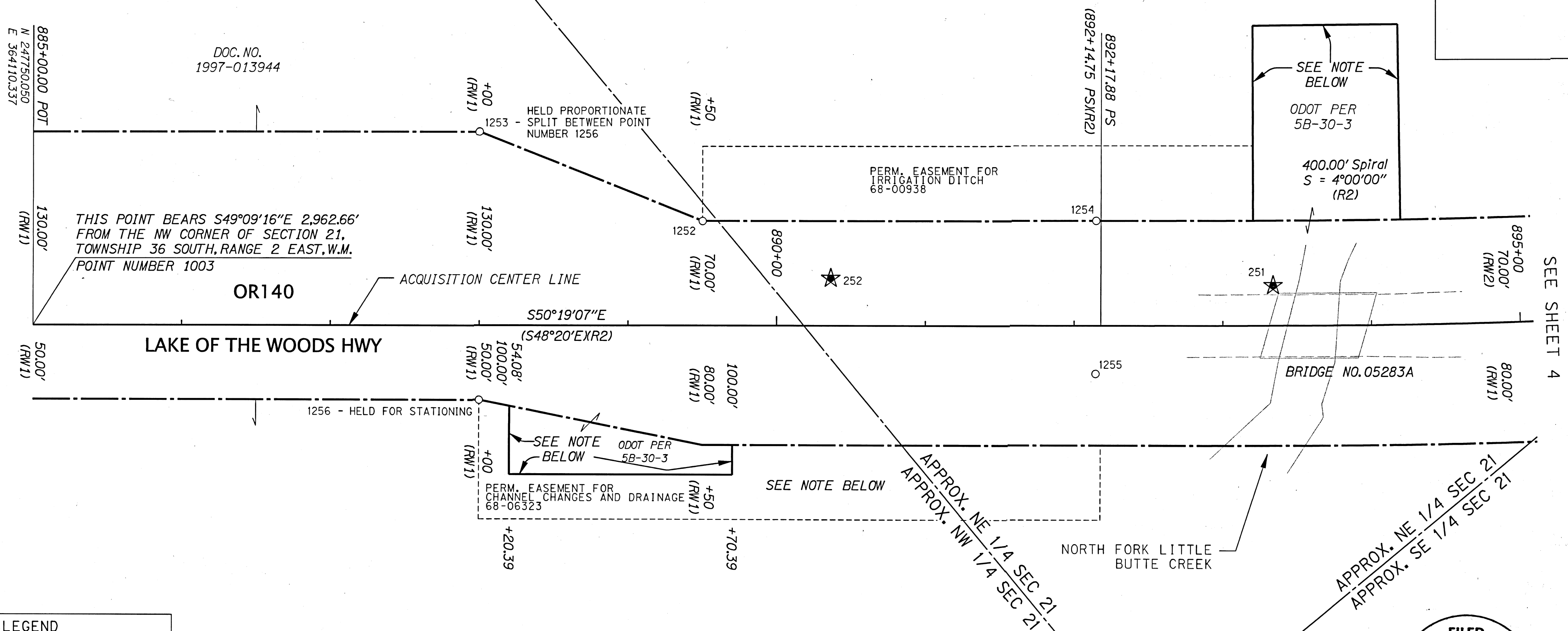
DESIGNED: J. COLTON	PROJ. NO. 0019-0593
DRAWN: SMG	CHK'D: A. SILBERNAGEL

REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JAN. 12, 1999
JAMES W. COLTON
#58756

RENEWS: DEC. 31, 2021
SIGNED: 1/11/2021

NE 1/4 SECTION 21 AND NW 1/4 SECTION 21
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.



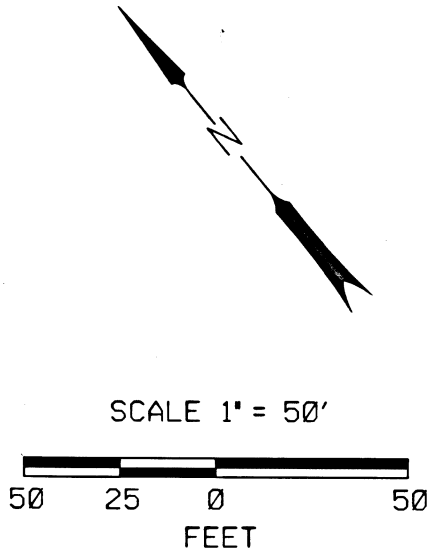
SEE SHEET 4

LEGEND

- FOUND MONUMENT NOTED IN TABLE
- ★ SET GPS STATION
- RIGHT-OF-WAY
- PROPERTY LINE
- - - ACCESS CONTROL LINE
- - - APPROXIMATE QUARTER SECTION LINE
- - - EASEMENT LINE
- (XX) RECORD DATA PER REFERENCE ON SHEET 2

NOTE:
THESE LINES ARE APPROXIMATE AND WERE NOT FULLY RETRACED. I HELD STATION DIFFERENCES FROM ODOT'S ROLL MAP 5B-30-3 FROM PS STATION 658+47.49 AND THE STATIONS SHOWN FOR THESE TWO PARCELS. I APPLIED THESE STATION DIFFERENCES FROM PS STATION 892+17.88 ON THIS SURVEY TO PLACE THE LINES.

APPROX. = APPROXIMATE
A.C. = ALLUMINUM CAP
COND = CONDITION
DOC. = DOCUMENT
DN = DOWN
FD = FOUND
IR = IRON ROD
NO. = NUMBER
W/ = WITH
* = NOT GRAPHICALLY SHOWN



REGISTERED PROFESSIONAL LAND SURVEYOR

JAMES W. COLTON
JAN. 12, 1999
#58756

RENEWS: DEC. 31, 2021
SIGNED: *[Signature]*

FILED
Date: 1/25/21 By: JS

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5 sheet(s) Map
0 page(s) Narrative

JACKSON COUNTY SURVEYOR

FILE NAME: S_K22083_crr_01_Site 9.dgn

920 Country Club Rd., Ste. 100B
Eugene, Oregon 97401
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DOWL

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL,
RECOVERY AND RETRACEMENT SURVEY
SOUTHERN OREGON SEISMIC BRIDGE RETROFIT
SITE 9 (N. FORK LITTLE BUTTE CREEK)
JACKSON COUNTY

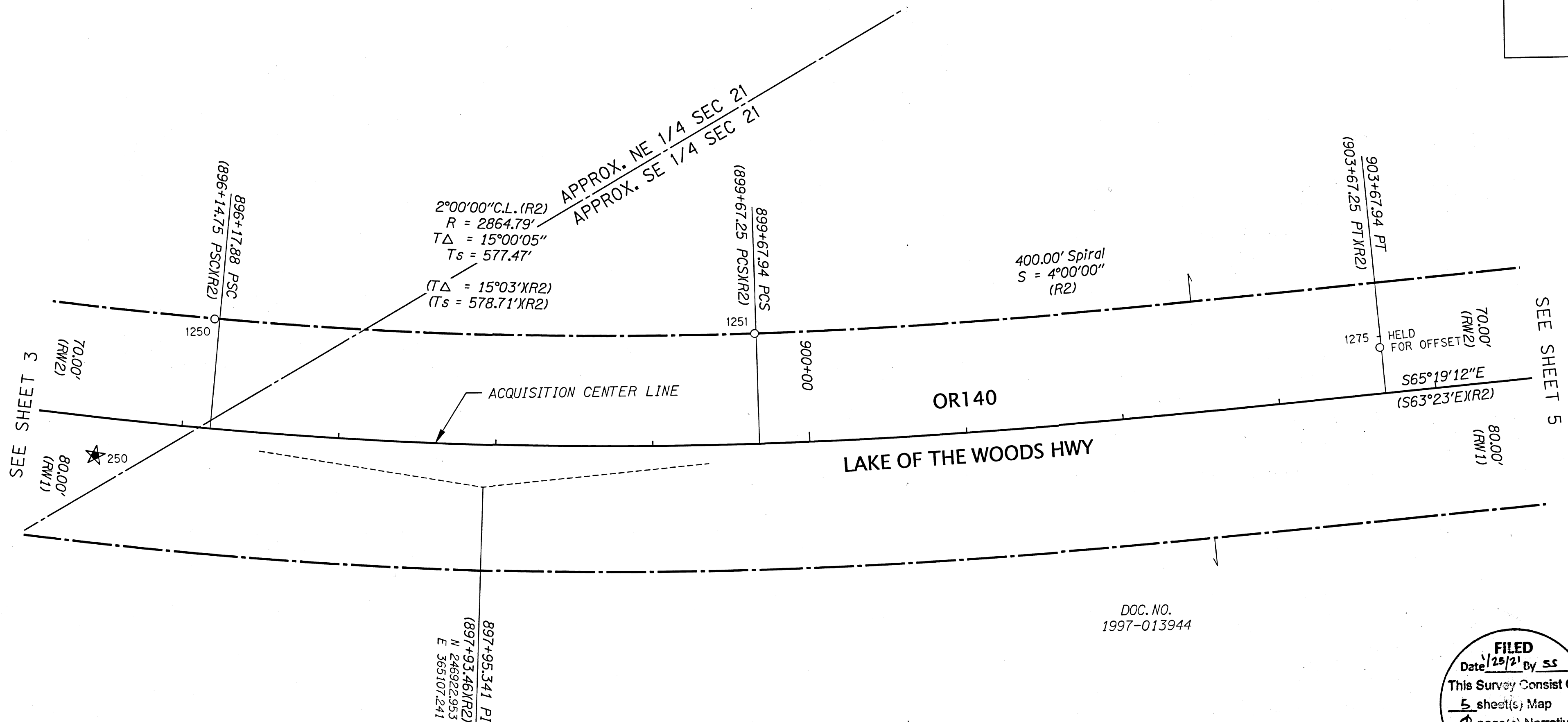
ODOT REGION 3 JANUARY 2021
100 ANTELOPE ROAD 1" = 50'
WHITE CITY, OR 97503 KEY NO. 22083 SHEET 3 OF 5

DESIGNED: J. COLTON PROJ. NO. 0019-0593
DRAWN: SMG CHK'D: A. SILBERNAGEL

RECOVERED MONUMENT TABLE

PT ID	OCRS NORTHING	OCRS EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1252	247516.42	364501.34	889+50.10	69.86 LT	1/5/2020	FD 5/8" IR W/ A.C. MARKED "OREG STATE HWY DEPT", GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1253	247658.48	364424.22	888+00.03	129.95' LT	1/5/2020	FD 5/8" IR W/ A.C. MARKED "OREG STATE HWY DEPT", GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1254	247347.58	364705.05	892+14.68	70.00' LT	1/5/2020	FD 5/8" IR W/ A.C. MARKED "OREG STATE HWY DEPT", GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1255	247269.17	364639.83	892+14.55	32.00 RT	1/5/2020	FD 5/8" IR W/ A.C. MARKED "OREG STATE HWY DEPT", GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1256	247520.03	364309.31	888+00.00	49.98' RT	1/5/2020	FD 5/8" IR W/ A.C. MARKED "OREG STATE HWY DEPT", BENT, TIED SPIN POINT, DN 0.6', ODOT ROLL MAP 9B-1-16
1003	249687.70	361869.16			1/13/2020	FD 2-1/2" B.D. MARKED "T365 R2E 1/4-17-C.S. COR. 20, 1964, GOOD COND., DN 0.2' GCDB 240400 *

NE 1/4 SECTION 21 AND SE 1/4 SECTION 21
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.



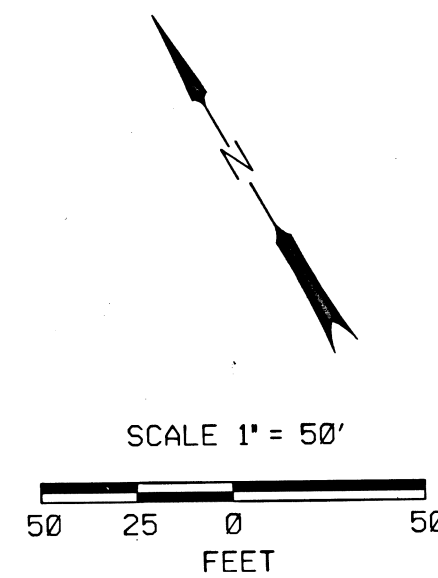
DOC. NO.
1997-013944

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JACKSON COUNTY SURVEYOR

FILE NAME: S_K22083_crr_01_Site 9.dgn

LEGEND	
○	FOUND MONUMENT NOTED IN TABLE
★	SET GPS STATION
---	ACCESS CONTROL LINE
- - - -	APPROXIMATE QUARTER SECTION LINE
(XX)	RECORD DATA PER REFERENCE ON SHEET 2

APPROX. = APPROXIMATE
A.C. = ALLUMINUM CAP
COND = CONDITION
DOC. = DOCUMENT
DN = DOWN
FD = FOUND
IR = IRON ROD
NO. = NUMBER
W/ = WITH



REGISTERED PROFESSIONAL LAND SURVEYOR
James W. Colton
OREGON
JAN. 12, 1999
JAMES W. COLTON
#58756
RENEWS: DEC. 31, 2021
SIGNED: 1/11/21

DOWL 920 Country Club Rd., Ste. 100B
Eugene, Oregon 97401
541-683-6090

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL,
RECOVERY AND RETRACEMENT SURVEY
SOUTHERN OREGON SEISMIC BRIDGE RETROFIT
SITE 9 (N. FORK LITTLE BUTTE CREEK)
JACKSON COUNTY

ODOT REGION 3
100 ANTELOPE ROAD
WHITE CITY, OR 97503
KEY NO. 22083

JANUARY 2021
1" = 50'
SHEET 4 OF 5

DESIGNED: J. COLTON
DRAWN: SMG
CHK'D: A. SILBERNAGEL
PROJ. NO. 0019-0593

RECOVERED MONUMENT TABLE

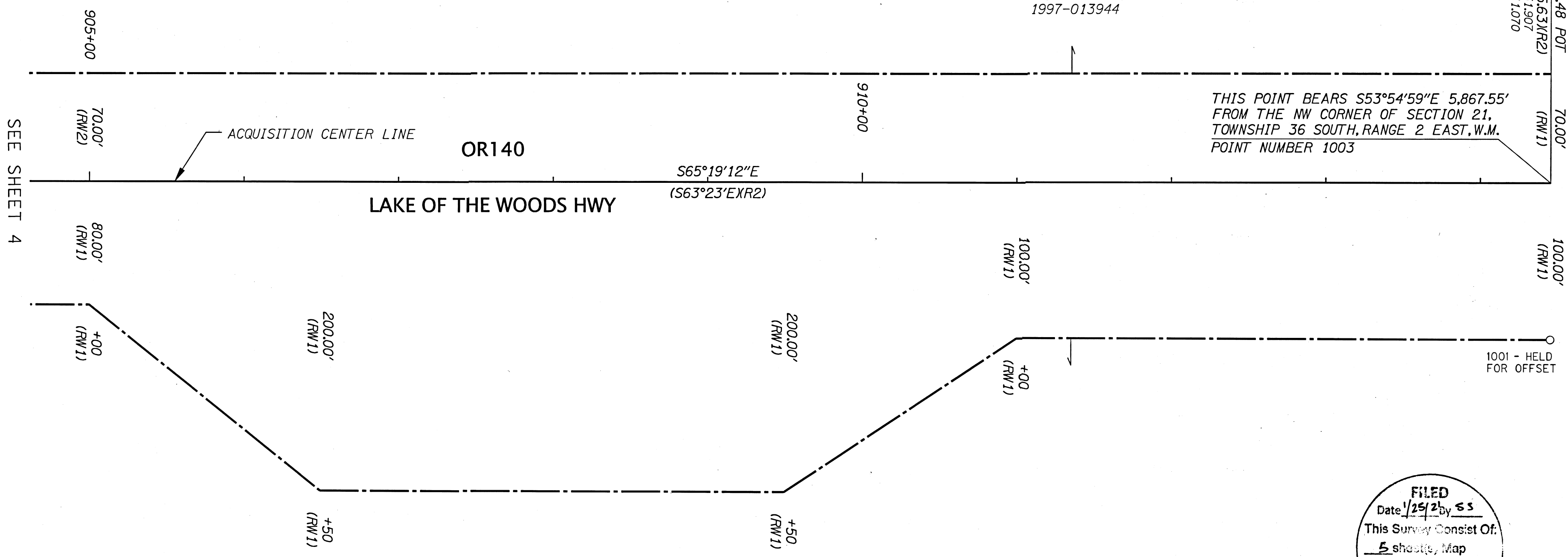
PT ID	OCRS NORTHING	OCRS EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1250	247102.08	365014.48	896+14.55	69.72' LT	1/5/2020	FD 5/8" IR W/ A.C., ILLEGIBLE, GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1251	246919.08	365305.37	899+67.02	70.01 LT	1/5/2020	FD 5/8" IR W/ A.C., ILLEGIBLE, GOOD COND, DN 0.1', ODOT ROLL MAP 9B-1-16
1275	246708.78	365643.34	903+67.03	29.24' LT	1/5/2020	FD 5/8" IR W/ A.C., ILLEGIBLE, GOOD COND, DN 0.3', ODOT ROLL MAP 9B-1-16

SE 1/4 SECTION 21
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.

914+45.48 POT
(914+45.63)(R2)
N 246231907
E 366611070

DOC. NO.
1997-013944

THIS POINT BEARS S53°54'59"E 5,867.55'
FROM THE NW CORNER OF SECTION 21,
TOWNSHIP 36 SOUTH, RANGE 2 EAST, W.M.
POINT NUMBER 1003



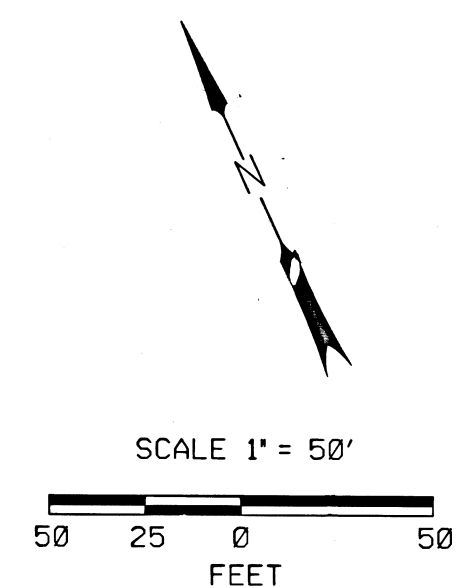
FILED
Date: 1/25/21 by: SS
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0 page(s) Narrative
JACKSON COUNTY
SURVEYOR

FILE NAME: S_K22083_crr_01_Site 9.dgn

LEGEND

- FOUND MONUMENT NOTED IN TABLE
- ACCESS CONTROL LINE
- (XX) RECORD DATA PER REFERENCE ON SHEET 2

- A.C. = ALLUMINUM CAP
- B.D. = BRASS DISK
- COND = CONDITION
- DOC. = DOCUMENT
- DN = DOWN
- FD = FOUND
- IR = IRON ROD
- NO. = NUMBER
- W/ = WITH
- * = NOT SHOWN



REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JAN. 12, 1999
JAMES W. COLTON
#58756
RENEWS: DEC. 31, 2021
SIGNED: 1/11/2021

920 Country Club Rd., Ste. 100B
Eugene, Oregon 97401
541-683-6090

DOWL

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL,
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JACKSON COUNTY

ODOT REGION 3
100 ANTELOPE ROAD
WHITE CITY, OR 97503
KEY NO. 22083

JANUARY 2021
1" = 50'
SHEET 5 OF 5

DESIGNED: J. COLTON
DRAWN: SMG
CHK'D: A. SILBERNAGEL

PROJ. NO. 0019-0593

RECOVERED MONUMENT TABLE

PT ID	OCRS NORTHING	OCRS EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1001	246141.04	366569.31	914+45.48	100.00' RT	1/13/2020	FD 5/8" IR W/ A.C. MARKED "OR STA HWY DEP", GOOD COND, UP 0.1', ODOT ROLL MAP 9B-1-16
1003	249687.70	361869.16			1/13/2020	FD 2-1/2" B.D. MARKED "T36S R2E 1/4-17-C.S.-COR. 20-1964", GOOD COND, DN 0.2', GCDB 240400 *