NE 1/4 SECTION 28 T37S R2W WM SE 1/4 SECTION 21 T37S R2W WM SW 1/4 SECTION 22 T37S R2W WM NW 1/4 SECTION 22 T37S R2W WM

SURVEY NARRATIVE

THIS SURVEY WAS MADE AS A RESULT OF THE OREGON DEPARTMENT OF TRANSPORTATION'S OR140/OR238: BRIDGE & CULVERT RAIL UPGRADE PROJECT. THE PURPOSE OF THIS SURVEY IS TO RECORD THE POSITIONS OF MONUMENTS OF RECORD, RESOLVE THE EXISTING RIGHT OF WAY (R/W) CENTER LINES AND DEFINE THE EXISTING R/W AS DIRECTED IN OREGON REVISED STATUE (ORS)209.155. ADDITIONALLY, MONUMENTATION WAS ALSO SET ON THIS SURVEY TO PERPETUATE THE LOCATION OF THE EXISTING CENTERLINE, AS WELL AS DEFINE RIGHT OF WAY TAKES NOT PREVIOUSLY MONUMENTED.

HANLEY ROAD ALIGNMENT

PER ROAD RESOLUTION DOCUMENT VOLUME 1 PAGE 142, HANLEY ROAD WAS CREATED IN 1869 BY SILENT PETITION. BASED ON THE TIME OF PETITION, BY STATUTE THE ROAD IS 60 FOOT IN WIDTH. IN THE AREA OF THIS SURVEY, RESEARCH INCLUDING OLD COUNTY ROAD RECORDS, MAPS OF SURVEYS, COUNTY ROAD PLANS, AND HISTORICAL AERIAL IMAGERY DATING BACK TO THE 1930'S WAS UTILIZED IN ORDER TO DETERMINE THE ROAD RIGHT OF WAY. THE CONTROLLING INFORMATION UTILIZED TO RECOVER THIS INFORMATION FOR EACH SECTION OF ROAD IS LISTED BELOW.

366+00 P.O.T. TO STATION EQUATION 345+66.38 Bk. = 17+23.99 Ah.

IN AUGUST OF 1961, MARK BOYDEN FILED COUNTY SURVEY 1749 WHICH RECOVERED THE CENTERLINE OF HANLEY ROAD AT 30 FEET FROM AN EXISTING FENCE LINE. HOFFBUHR FILED COUNTY SURVEY 6766 IN APRIL OF 1977 WHICH HELD THE SAME RESOLUTION SHOWN ON SURVEY 1749, AND SET MONUMENTS 1019 AND 1020 AS SHOWN HEREON. IN MAY OF 2003 ODOT FILED COUNTY SURVEY 17756 WHICH HELD THESE SAME MONUMENTS TO ESTABLISH THE CENTERLINE OF HANLEY ROAD. IT WAS APPARENT FROM ARCHIVED DATA AVAILABLE IN ODOT'S RECORDS THAT THIS CENTERLINE DID NOT FIT THE EXISTING ROAD, BUT BASED ON HISTORICAL IMAGES, I BELIEVE THIS TO BE THE CASE DATING BACK TO COUNTY SURVEY 1749. HOWEVER, DUE TO THE FACT THIS HAS BEEN THE ESTABLISHED RIGHT OF WAY DATING BACK TO AT LEAST 1961, IT WAS DETERMINED THAT THIS WOULD BE THE BEST EVIDENCE OF THE RIGHT OF WAY OF HANLEY ROAD FOR THE SECTION LISTED ABOVE. STATIONING AT POINT 1019, CONVERTED FROM METRIC TO ENGLISH, PER SURVEY 17756 WAS HELD FOR THIS SECTION OF THE ALIGNMENT. THE STATION EQUATION ABOVE WAS APPLIED TO MATCH STATIONING ESTABLISHED BY A COUNTY ROADS PROJECT IN 1988 ADDRESSED BELOW.

17+23.99 TO 29+70.12

THERE WAS VERY LITTLE EVIDENCE AS TO THE LOCATION OF HANLEY ROAD FOR THIS SECTION. MONUMENT 1012 SHOWN HEREON WAS ORIGINALLY SET ON COUNTY SURVEY 1027. IT DOES NOT APPEAR FROM THE LOCATION OF THE COUNTY ROAD THAT THIS WAS INTENDED TO FALL ON THE RIGHT OF WAY SO ITS POSITION WAS NOT HELD. A CURVE WAS PLACED IN ORDER TO FIT THE BOYDEN ESTABLISHED TANGENT STATED ABOVE, AND THE EXISTING ROADWAY TANGENT BETWEEN STATIONS 19+99.68 AND 20+56.04. BETWEEN STATIONS 19+99.68 AND APPROXIMATELY 29+70.12 AN ALIGNMENT WAS FIT TO THE EXISTING ROAD BED CENTERLINE.

29+70.12 TO 52+00.00

COUNTY SURVEY 14164 WAS FILED IN APRIL OF 1994. THIS MAP HELD THE CENTER OF THE MEASURED ROAD BED OF HANLEY ROAD IN ORDER TO ESTABLISH THE RIGHT OF WAY. MONUMENTS FROM THIS SURVEY WERE TIED AND FIT WELL. THE RECORD DATA WAS CALCULATED AND HELD, TRANSLATING THE MAP TO POINT 1010 SHOWN HEREON. AND ROTATING TO POINT 1007.

52+00.00 TO 59+00.00

COUNTY SURVEY 14164 DID NOT TAKE INTO ACCOUNT A COUNTY ROAD RE-ALIGNMENT PROJECT BETWEEN STATIONS 52+00 AND 59+00, SHOWN IN DOCUMENT 1988–18419, OFFICIAL RECORDS OF JACKSON COUNTY. THE RECORD INFORMATION IN SAID DOCUMENT WAS HELD FIXED AT THE SOUTHWEST CORNER OF DLC 69 AND ROTATED TO THE TANGENT HELD IN SURVEY 14164. THE RESULTING TANGENT BEARINGS MATCHED WITHIN 2 SECONDS SO THE RECORD INFORMATION WAS ALIGNED TO SURVEY 14164. THE RESULTING CALCULATED STATION 52+00 WAS HELD FOR STATIONING FROM 17+23.99 TO 69+91.31.

58+22.98 TO 69+91.31

THE RECORD TANGENT FROM SAID DOCUMENT 1988–18419 WAS HELD AND THE REMAINING PORTION OF THE ROAD WAS RESOLVED ALONG THE EXISTING CENTERLINE OF THE ROAD WITH AN EFFORT TO FIT MONUMENT 1014 AS SHOWN HEREON.

OLD HANLEY RD. ALIGNMENT 'HO'

WHEN THE COUNTY RE-ALIGNED THE ROAD IN SAID DOCUMENT 1988–18419, AS PART OF THE PROJECT THEY DESTROYED THE OLD ROAD BED. THERE WAS NO SURVEY FILED ON THE EXISTING ROAD CONDITION PRIOR TO THIS SURVEY AND THE BEST EVIDENCE AVAILABLE WAS A PLAN SHEET WHICH SHOWED THE APPROXIMATE LIMITS OF THE EXISTING ROAD PRIOR TO CONSTRUCTION OF THE CURVE RE-ALIGNMENT. THESE ROAD PLANS ARE ON FILE WITH THE JACKSON COUNTY ROADS DEPARTMENT AND APPEAR TO SHOW A P.I. OF THE NEW ALIGNMENT AND THE OLD ALIGNMENT AS BEING EQUAL. IN ORDER TO CALCULATE THE RADIUS OF THE OLD ROAD BED, THESE PLANS WERE REFERENCED INTO THE ELECTRONIC DRAWING AND SCALED TO FIT THE RESOLVED TANGENTS AND P.I. OF THE HANLEY ROAD CENTERLINE RESOLUTION ABOVE. A RADIUS WAS THEN APPLIED WHICH APPEARED TO BEST FIT THE OLD ROAD. THE RESULT WAS CHECKED AGAINST EXISTING FENCE LINES AS WELL AS OLD AERIAL IMAGERY AND FIT BOTH. THIS CENTERLINE WAS UTILIZED TO CALCULATE THE ORIGINAL RIGHT OF WAY ALONG THE EAST SIDE OF HANLEY ROAD AS SHOWN HEREON. STATIONING IS ASSUMED, AND THE 'HO' CENTERLINE BEGINS AND ENDS AT HANLEY ROAD STATIONS 52+94.85 PC AND 58+22.98 PT RESPECTIVELY.

POINT LEGEND This survey consists of: SET GPS CONTROL POINT ___ sheet(s) Map FOUND GPS CONTROL POINT JACKSON COUNTY FOUND MONUMENT SURVEYOR E JOHN E. ROSS **NOTED IN TABLE** DAVID CLINTON **DLC 68 DLC 69** SET MONUMENT 69+91.31 P.I. **NOTED IN TABLE** N. 215556.699 1 : 273351.428 OR 238: ROSSANLEY DR. <u>N</u>O \Box 21 ISH CE HORA **ARCHIBALD** MILLER **BASIS OF BEARING AND CONTROL NETWORK SCHEMATIC NOT TO SCALE** ш ROBERT LINE LEGEND **GOVERNMENT DLC LINE (BOTH SIDES) GOVERNMENT DLC LINE (ONE SIDE) GOVERNMENT SECTION LINE GOVERNMENT 1/4 SECTION LINE HIGHWAY RIGHT OF WAY EXISTING PROPERTY LINE EXISTING CENTERLINE ALIGNMENT (MAIOR EXISTING CENTERLINE ALIGNMENT (MINOR)** BYBE (28)AC=ALUMINUM CAP CS=COUNTY SURVEY CONTROL POINT COORDINATE TABLE JCS=JACKSON COUNTY SURVEYOR IR=IRON REBAR FD=FOUND

OCRS EASTING DESCRIPTION DATE REFERENCE DOCUMENT NORTHING 215556.40 273320.44 8/29/2018 | FD 2-1/4" BRASS DISK, DLC SW69 JCS 4th RE-ESTAB 1273402 | 211038.46 | 270499.71 | 8/13/2019 | FD 1-1/2" COPPER PLUG "ODOT CONTROL 1273402" CS 17756 213482.73 272466.26 12/22/2016 SET 5/8" IR w/ AC "ODOT CONTROL POINT 1996110" 1996110 1996111 272003.45 | 12/22/2016 | SET 5/8" IR w/ AC "ODOT CONTROL POINT 1996111" 212955.82 271375.14 | 12/22/2016 | SET 5/8" IR w/ AC "ODOT CONTROL POINT 1996112" 1996112 212186.66 209742.49 | 269092.43 | 8/13/2019 | FD 3" BRASS DISK "TRIANGULATION STA, DO NOT DISTURB, BYBE 1993" BYBE CS 17733

CONTROL NARRATIVE

CONTROL AND FOUND MONUMENTS SHOWN ON THIS SURVEY WERE ESTABLISHED UTILIZING THE OREGON REAL TIME GEODETIC NETWORK (ORGN). AS OUTLINED IN ODOT'S SURVEY POLICIES AND PROCEDURES MANUAL, ALL POINTS WERE TIED UTILIZING THE DOUBLE TIE METHOD WHERE TWO 60 EPOCH GNSS MEASUREMENTS WERE PERFORMED, SEPERATED BY 30 MINUTES OR MORE. POINT 1012 WAS TIED UTILIZING A LEICA TOTAL STATION AND UTILIZING A 3 POINT RESECTION OFF OF DOUBLE TIED CONTROL OR FOUND MONUMENTS. POINTS SET WERE DONE UTILIZING BOTH OF THE PROCEDURES OUTLINED ABOVE.

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

CONTROL INFORMATION

SURVEY DATUM- OREGON COORDINATE REFERENCE SYSTEM (OCRS):

GRANTS PASS - ASHLAND ZONE,

NAD83(2011) EPOCH 2010 (INTERNATIONAL FEET)

THE FIELD WORK FOR THIS PROJECT WAS INITIATED IN DECEMBER OF 2016 AND CARRIED ON INTERMITTENTLY THROUGH OCTOBER OF 2019. 1 LEICA GS14 GNSS RECEIVER.

1 LEICA CS20 DATA COLLECTOR, 1 LEICA MS60 MULTI STATION, AND 1 LEICA TS15 TOTAL STATION WERE UTILIZED TO

PERFORM THE FIELD WORK.

SHEET INDEX:

EQUIPMENT-

NARRATIVES, CONTROL, AND SHEET LAYOUT

2–4 SURVEY SHEETS

ODE (

OREGON MARCH 14, 2017

REGISTERED

PROFESSIONAL

JASON ROBERT WEISZ 91618

RENEWS: 6-30-2020

REFERENCES USED

ROAD PETITION V.1 P.142, DOC. 1988–18149, CS 1027, CS 1028, CS 1749, CS 6766, CS 14164 CS 17733, CS17756, CS19652

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY, RETRACEMENT, AND
MONUMENTATION MAP



MONUMENTATION MAP
OR140/OR238: BRIDGE & CULVERT
RAIL UPGRADES PROJECT
JACKSON COUNTY

ODOT REGION 3 TECH CENTER 100 ANTELOPE RD. WHITE CITY, OR 97503 KEY NO. 19961 SEPTEMBER 05, 2019 SCALE: NTS SHEET 1 OF 4

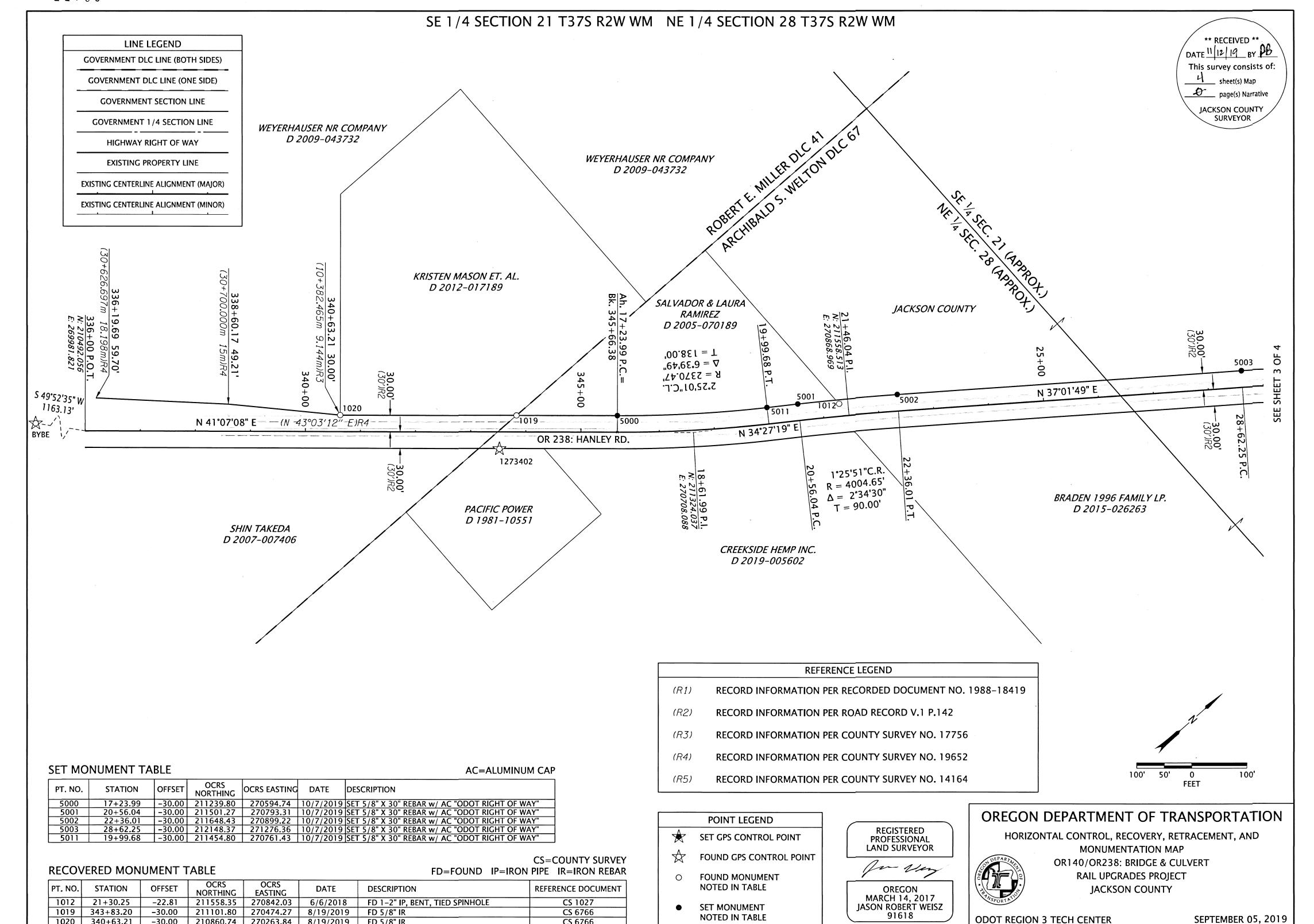
** RECEIVED **

DATE 11/12/19 BY PB

ASSESSORS MAPS: 37–2W–22 37–2W–21 37–2W–28A

1020 340+63.21

-30.00 210860.74 270263.84 8/19/2019 FD 5/8" IR



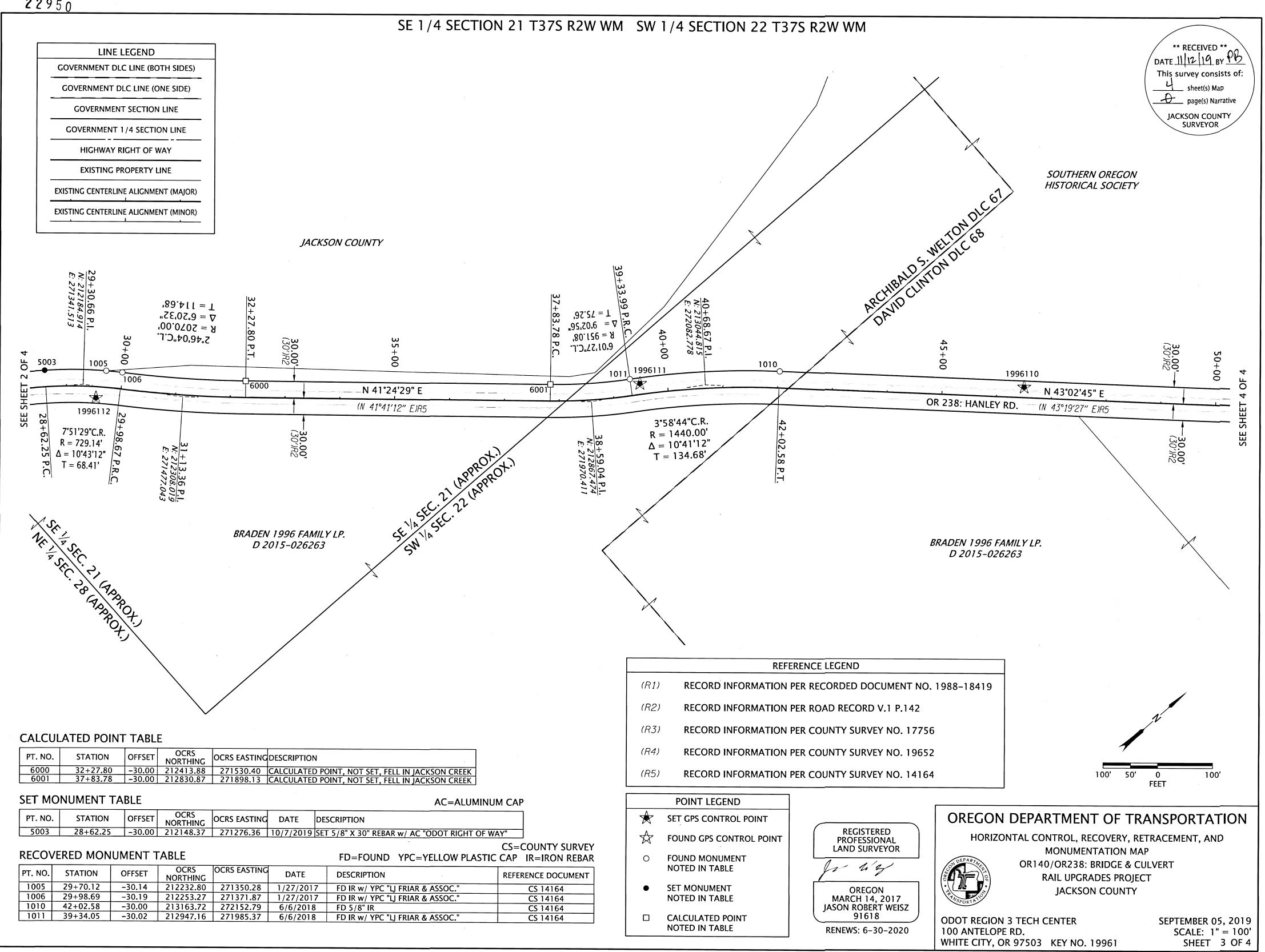
CS 6766

RENEWS: 6-30-2020

100 ANTELOPE RD.

WHITE CITY, OR 97503 KEY NO. 19961

SCALE: 1'' = 100'SHEET 2 OF 4



1014

1015

61+01.57

_

-30.00

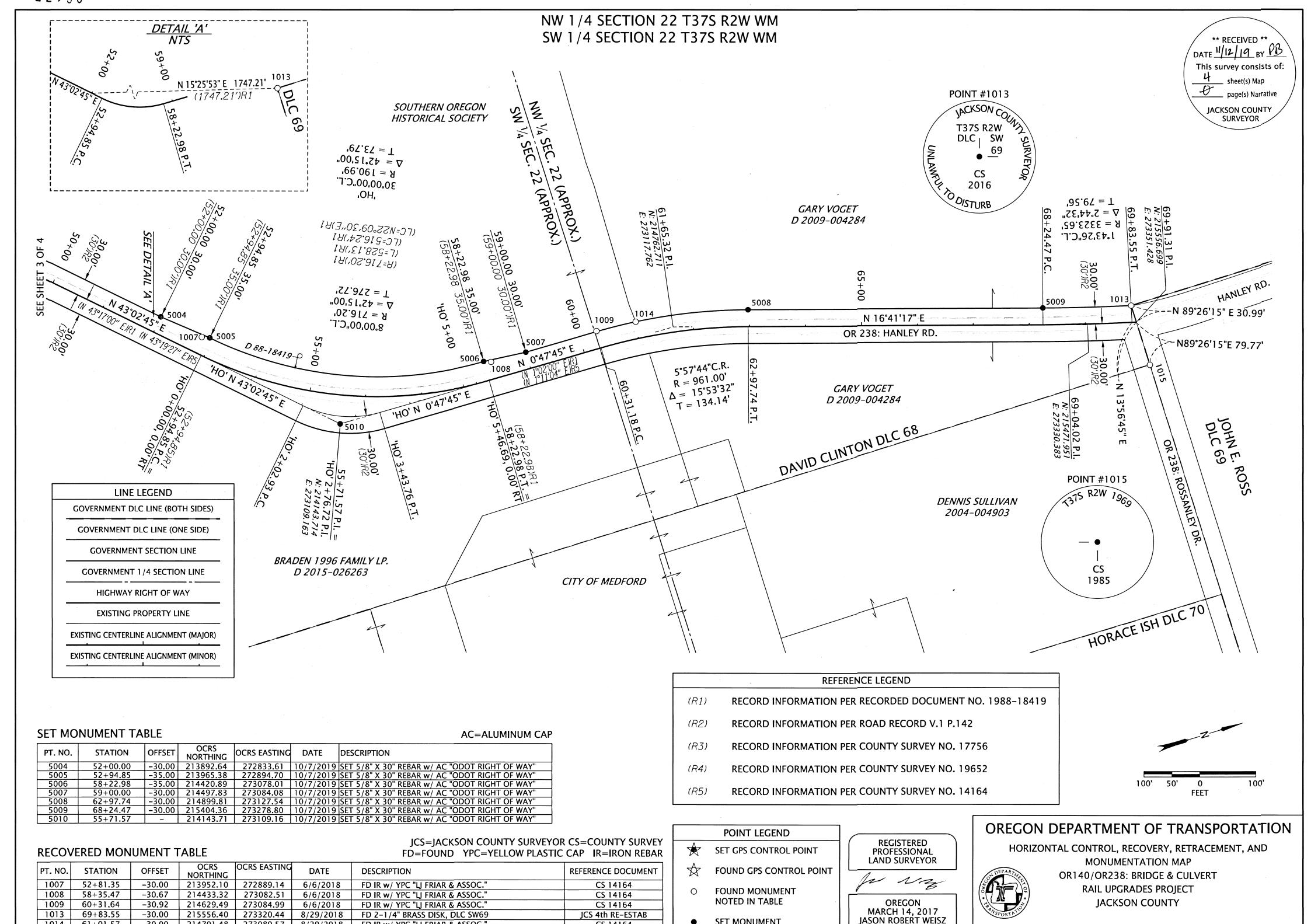
214701.48 273089.57

215557.48 | 273431.19 |

8/29/2018

FD IR w/ YPC "LJ FRIAR & ASSOC."

8/29/2018 FD BRASS DISK "37S R2W 1969, DLC 68 ENE"



SET MONUMENT

NOTED IN TABLE

91618

RENEWS: 6-30-2020

ODOT REGION 3 TECH CENTER

WHITE CITY, OR 97503 KEY NO. 19961

100 ANTELOPE RD.

CS 14164

JCS 1st RE-ESTAB

SEPTEMBER 05, 2019

SCALE: 1'' = 100'

SHEET 4 OF 4