SHEET INDEX

SHEET INDEX, CONTROL NARRATIVE, BASIS OF BEARINGS, HORIZONTAL CONTROL SURVEY, VERTICAL CONTROL SURVEY, SHEET LAYOUT DIAGRAM AND CONTROL NETWORK

NARRATIVE AND REFERENCE LIST

3-5 SURVEY

CONTROL NARRATIVE

PROJECT: JACKSON COUNTY CURB RAMPS, PHASE 2 LOCATION: JACKSON COUNTY, OREGON DOWL PROJECT: 2752.80364.01 ODOT KEY NO.: 22438 UNITS: INTERNATIONAL FEET

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

OREGON COORDINATE REFERENCE SYSTEM - GRANTS PASS - ASHLAND ZONE PER OAR 734-005-0015. TRANSVERSE MERCATOR PROJECTION LATITUDE OF GRID ORIGIN: 41°45′ 00″ N CENTRAL MERIDIAN: 123° 20′ 00″ W FALSE NORTHING: 0.000 M (0.00 IFT) FALSE 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.

COORDINATES AND DISTANCES SHOWN HEREON ARE INTERNATIONAL FEET.

HORIZONTAL CONTROL SURVEY

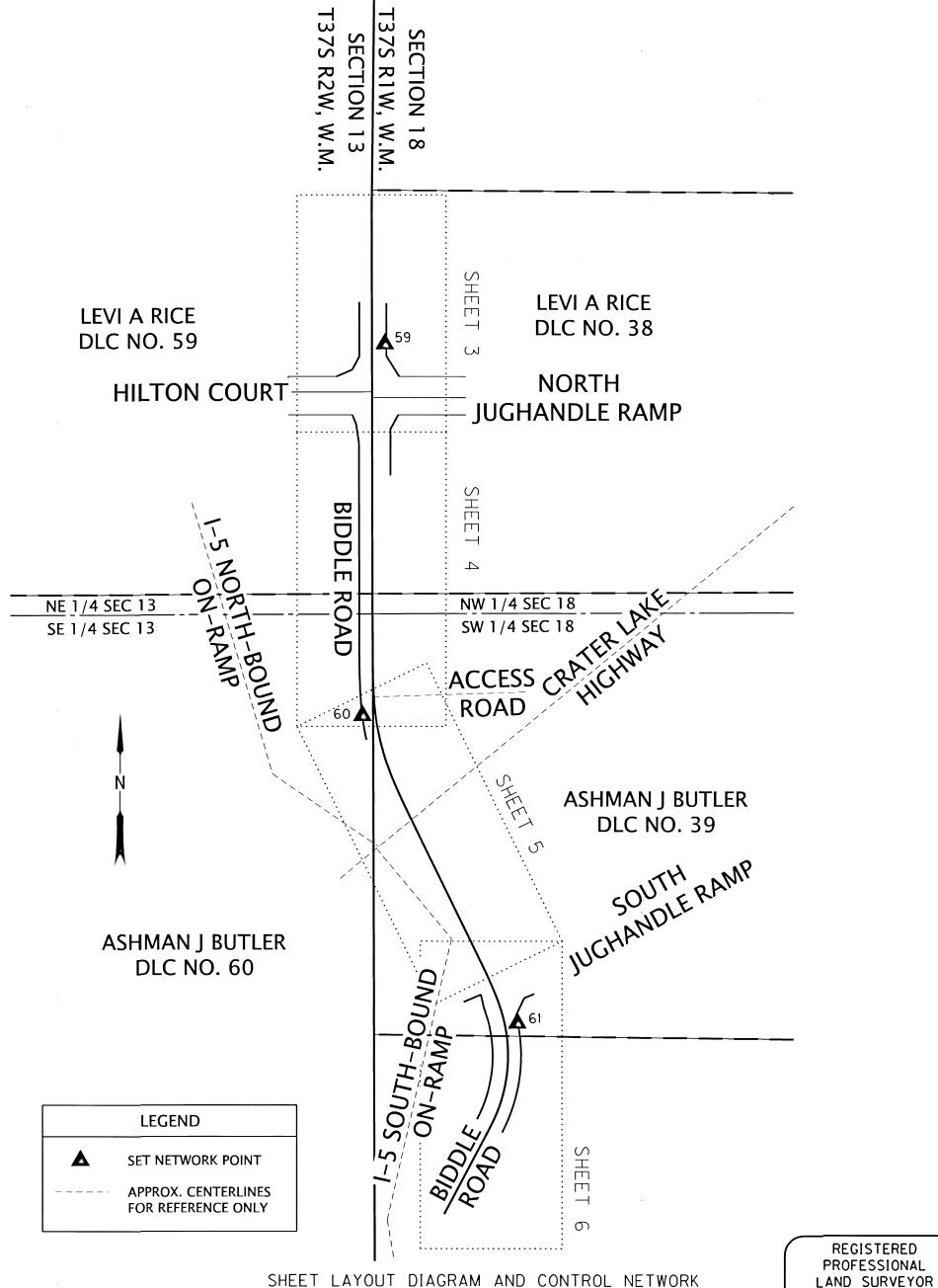
PRIMARY HORIZONTAL CONTROL WAS ESTABLISHED USING A GNSS STATIC NETWORK. UTILIZING NEIGHBORING ORGN BASE STATIONS AS THE BASE POINTS TO ESTABLISH HORIZONTAL POSITIONS FOR PRIMARY CONTROL. A LEAST SQUARES ADJUSTMENT WAS THEN COMPLETED USING TRIMBLE BUSINESS CENTER. TERRESTRIAL CHECKS WERE PERFORMED BETWEEN THE ON-SITE CONTROL TO VERIFY THE NETWORK.

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 THE PRIMARY CONTROL POINTS. AN ELEVATION OF 1311.42 FEET, GEOID 18, DERIVED FROM GPS OBSERVATIONS WAS HELD AT CONTROL POINT 59.

NE 1/4 & SE 1/4 SECTION 13 TOWNSHIP 37 SOUTH, RANGE 02 WEST, W.M. AND NW 1/4 & SW 1/4 SECTION 18 TOWNSHIP 37 SOUTH, RANGE O1 WEST, W.M.



SHEET LAYOUT DIAGRAM AND CONTROL NETWORK SCALE: 1" = 300'

NETWORK POINT COORDINATE TABLE

PT			HEIGHT	OCRS	OCRS	NAVD 88		
ΙD	LATITUDE	LONGITUDE	(IF)	NORTHING	EASTING	ELEVATION	DATE	DESCRIPTION
59	N42°21′19.05859″	W122°52′31.36222″	1231.76	220922.25	287833.93	1311.42	7/26/2022	SET 1" CP MARKED "DOWL CONTROL"
60	N42°21′07.47197″	W122°52′32.38905″	1237.04	219748.84	287763.14	1316.69	7/26/2022	SET 1" CP MARKED "DOWL CONTROL"
61	N42°20′57.84858″	W122°52′25.91709″	1242.37	218777.22	288254.39	1322.01	7/26/2022	SET 1" CP MARKED "DOWL CONTROL"

ASSESSOR'S MAPS: 372W13AD, 372W13DA, 371W18BC, 371W18CB AND 371W18CC

CP = COPPER PLUG

FILE NAME: S_K22438_crr_06.dgn

Date 15 23 By SS

Le Shool(a) Map

This Survey Consist Of \

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JACKSON COUNTY / SURVEYOR

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

OREGON DEPARTMENT, OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY JACKSON COUNTY CURB RAMPS, PHASE 2 BIDDLE ROAD SITE JACKSON COUNTY

ODOT REGION 3 100 ANTELOPE ROAD

REGISTERED

MAY 12, 2011 ANDREW JOSEPH SILBERNAGEL

RENEWS: JUNE 30, 2024 SIGNED: <u>OS/15/1013</u>

WHITE CITY. OR 97503 KEY NO. 22438

DOWL

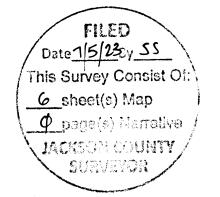
JUNE 2023 SCALE: 1" = 300' SHEET 1 OF 6

PROJ. NO. 2752-80364.01

DESIGNED: A. SILBERNAGEL CHK'D: J. THORPE DRAWN: S. GURLEY

23936

NE 1/4 & SE 1/4 SECTION 13 TOWNSHIP 37 SOUTH, RANGE 02 WEST, W.M. AND NW 1/4 & SW 1/4 SECTION 18 TOWNSHIP 37 SOUTH, RANGE O1 WEST, W.M.



NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO RESOLVE THE RIGHT OF WAY AT THE INTERSECTIONS OF BIDDLE ROAD WITH HILTON COURT AND WITH THE CRATER LAKE HIGHWAY ACCESS RAMP, IN MEDFORD OREGON. THIS SURVEY WAS PERFORMED AT THE REQUEST OF HDR, INC ON BEHALF OF THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT). HDR IS DESIGNING ADA RAMP IMPROVEMENTS AT THESE INTERSECTIONS.

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.

THIS SURVEY WAS PERFORMED FROM JULY TO DECEMBER 2022. THE SURVEY EQUIPMENT USED IN THIS SURVEY CONSISTED OF DUAL-FREQUENCY TRIMBLE R12, R10 AND R8 GNSS RECEIVERS, TRIMBLE S6 AND S7 TOTAL STATIONS AND TRIMBLE TSC5 AND TSC3 DATA COLLECTORS.

THIS SURVEY SHOWS APPROXIMATE PROPERTY LINES, THESE LINES ARE GIS BASED UNLESS OTHERWISE NOTED. THEY ARE ONLY INTENDED AS GRAPHICAL REFERENCES ONLY.

THESE INTERSECTIONS WERE RECENTLY MONUMENTED BY ODOT PER JACKSON COUNTY SURVEY NUMBER 20370 BY STUART E. CAPPELLO RECORDED APRIL 24, 2009. THIS SURVEY ALONG WITH ODOT'S ROLL MAP 10B-15-31 ARE THE BASIS OF THIS RETRACEMENT. BOTH OF THESE DOCUMENTS ARE METRIC AND THE VALUES ON SAID DOCUMENTS WERE CONVERTED TO INTERNATIONAL FEET BY DIVIDING THEM BY 0.3048.

BIDDLE ROAD

TO RETRACE THE CENTERLINE OF THE BIDDLE ROAD A POINT 45.932 FEET (14.000 METERS) OFFSET FROM THE 2 INCH ALUMINUM CAP ON 5/8 INCH REBAR (POINT 1053) SET ON THE RIGHT OF WAY ON SAID JACKSON COUNTY SURVEY 20370 AND A POINT 41.831 FEET (12.750 METERS) OFFSET FROM THE 2 INCH ALUMINUM CAP ON 5/8 INCH REBAR (POINT 1044) SET ON THE RIGHT OF WAY ON SAID JACKSON COUNTY SURVEY 20370. A STRAIGHT LINE BETWEEN SAID POINTS WAS HELD FOR THE FIRST TANGENT. FOR THE REST OF THE BIDDLE ROAD CENTERLINE RECORD SHAPE WAS USED HOLDING POINT OFFSET FROM POINT 1044 AND ROTATING TO A POINT 50.00 FEET OFFSET FROM THE FOUND MONUMENT (POINT 1037) ON THE EASTERLY RIGHT OF WAY. THIS RESULTED IN A ANGLE POINT OF 12 MINUTES AND 03 SECONDS VARYING ONLY 4 SECONDS WHEN COMPARED TO THE RECORD OF 11 MINUTES AND 59 SECONDS.

HILTON COURT

TO APPROXIMATE THE CENTERLINE OF HILTON COURT, THE RECORD ANGULAR RELATIONSHIP AND STATION TO BIDDLE ROAD WAS HELD PER SAID CS 20370 AND SAID ROLL MAP, AND PROJECTED WESTERLY TO THE POINT OF CURVATURE.

NORTH JUGHANDLE RAMP

TO APPROXIMATE THE CENTERLINE OF NORTH JUGHANDLE RAMP, THE RECORD ANGULAR RELATIONSHIP AND STATION TO BIDDLE ROAD WAS HELD PER SAID CS 20370 AND SAID ROLL MAP, AND PROJECTED EASTERLY TO THE POINT OF CURVATURE.

THE RIGHT OF WAY AT THE NORTHERLY INTERSECTION WITH HILTON COURT AND THE NORTH JUGHANDLE WAS PLACED AT THE STATIONS AND OFFSETS GIVEN IN SAID SURVEY AND ROLL MAP.

SOUTH JUGHANDLE RAMP

THE RIGHT OF WAY AT THE SOUTH JUGHANDLE INTERSECTION WAS ONLY RETRACED ON THE SOUTHERLY HALF OF THE INTERSECTION THE RIGHT OF WAY ON THE NORTHERLY HALF WAS NOT RELEVANT AS IT FELL IN THE I-5 AND OR62 INTERCHANGE. THE RIGHT OF WAY WAS PLACED AT THE STATIONS AND OFFSETS GIVEN IN SAID CS 20370 AND ROLL MAP 10B-15-31.

REFERENCES

REGISTERED **PROFESSIONAL** LAND SURVEYOR

OREGON

MAY 12. 2011 ANDREW JOSEPH SILBERNAGEL

*79198

RENEWS: JUNE 30, 2024 SIGNED: 06/15/1013

JACKSON COUNTY PLATS

VOL. 3 PG. 69, BY UNKNOWN, FILED OCTOBER 2, 1894 S2 VOL. 5 PG. 48, BY HERMAN POWELL, FILED JUNE 20, 1928

JACKSON COUNTY SURVEYS

CS1967, BY LELAND LOVEJOY, FILED JULY 13, 1932 CS609, BY MARK E. BOYDEN, FILED APRIL 5, 1954

CS981. BY L. N. DOW, FILED MAY 6, 1957

CS2124, BY MARK E. BOYDEN, FILED MARCH 12, 1963 CS2562, BY J. A. HOFFBUHR, FILED AUGUST 3, 1964

CS2553, BY MARK E. BOYDEN, FILED AUGUST 3, 1964

CS2556. BY MARK E. BOYDEN, FILED AUGUST 3, 1964

S10 CS2826, BY J. A. HOFFBUHR, FILED JULY 8, 1965 CS3409, BY J. A. HOFFBUHR, FILED MAY 1, 1967

S12 CS4478, BY MARK E. BOYDEN, FILED FEBRUARY 25, 1971

S13 CS5360, BY PER E. ZIMMERLUND, FILED SEPTEMBER 18, 1973

S14 CS6219, BY J. A. HOFFBUHR, FILED DECEMBER 3, 1975 S15 CS6731, BY MARK E. BOYDEN, FILED APRIL 8, 1977

CS10426, BY DENNIS HOFFBUHR, FILED DECEMBER 10, 1985

S17 CS15252, BY GARY E. PAUL, FILED DECEMBER 23, 1996

S18 CS15237, BY CLIFFORD CALDWELL, FILED JANUARY 9, 1997

S19 CS15252, BY GARY E. PAUL, FILED JANUARY 17, 1997 S20 CS15269, BY MARK E. BOYDEN, FILED JANUARY 30, 1997

S21 CS16727. BY JOHN R. PARIANI, FILED NOVEMBER 24, 2000

S22 CS17793, BY RICHARD TEMPLIN, FILED JUNE 4, 2003

S23 CS19292, BY LOGAN MILES, FILED AUGUST 10, 2006

S24 CS20001, BY SHAWN KAMPMANN, FILED APRIL 10, 2008

S25 CS20370, BY STUART E. CAPPELLO, FILED APRIL 24, 2009 S26 CS20598, BY DOUGLAS C. MCMAHAN, FILED JANUARY 29, 2010

S27 CS22707, BY SHAWN KAMPMANN, FILED DECEMBER 28, 2018

FILE NAME: S_K22438_crr_06.dgn

DOWL

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

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY JACKSON COUNTY CURB RAMPS, PHASE 2 BIDDLE ROAD SITE JACKSON COUNTY

ODOT REGION 3

100 ANTELOPE ROAD WHITE CITY, OR 97503 KEY NO. 22438

SHEET 2 OF 6

DESIGNED: A. SILBERNAGEL DRAWN: S. GURLEY

PROJ. NO. 2752-80364.01 CHK'D: J. THORPE

JUNE 2023

