

Date: **4-5-2018** By: **JC**

This survey consist of:

Map: **ST HWY 138-016 A-U**

Narrative:

Corner Rpt: **DOUGLAS COUNTY SURVEYOR**

NARRATIVE

PURPOSE

THE PURPOSE OF THIS SURVEY IS TO MONUMENT THE NEWLY ACQUIRED RIGHT OF WAY SHOWN ON RIGHT OF WAY DRAWING (DRG) 118-7-5 FOR A PROJECT NAMED "FFO - OR 138E-CORRIDOR SOLUTIONS (ROSEBURG) SECTION" BASED ON FILED SURVEY ST. HWY. 138-015. SURVEY FIELD WORK WAS PERFORMED IN JANUARY OF 2018. ORIGINAL FIELD NOTES ARE ARCHIVED IN FIELD BOOK 4552 IN THE ODOT FILES IN SALEM, OREGON.

COORDINATES & BASIS OF BEARING

THE BEARINGS ARE BASED ON THE OREGON COORDINATE REFERENCE SYSTEM (OCRS) COTTAGE GROVE - CANYONVILLE ZONE, NAD 83(OCRS96) EPOCH2002. THE OCRS COORDINATES ARE EQUAL TO OR CLOSE TO TRUE GROUND DISTANCES. ALL COORDINATES ARE IN INTERNATIONAL FEET. COORDINATES AND ELEVATIONS SHOWN ON CONTROL AND RECOVERED MONUMENTS ARE FROM FILED SURVEY ST. HWY. 138-015.

HORIZONTAL CONTROL

THE ORIGINAL STATIC NETWORK POINTS "HILL", "PINE" AND "DLK" FORM THE BASIS OF BEARING AND COORDINATE SYSTEM FOR THIS PROJECT AS FILED IN SURVEY ST. HWY. 138-015. A GPS CALIBRATION / TRANSFORMATION WAS DEVELOPED HOLDING THE ABOVE POINTS IN ORDER TO USE THE CURRENT OREGON REAL-TIME GNSS NETWORK (ORGN) TO SET THE RIGHT OF WAY MONUMENTS. MONUMENTS WERE SET USING REAL-TIME KINEMATIC METHODS AND CHECKED A MINIMUM OF 30 MINUTES LATER USING SAID METHOD. TOTAL STATION AND 3 POINT RESECTION WAS USED TO SET MONUMENTS THAT COULD NOT BE DIRECTLY SET BY GPS. KNOWN NETWORK POINTS IN THE ORIGINAL PROJECT NETWORK WERE CHECKED INTO AT THE BEGINNING AND END OF EACH GPS SESSION WHILE SETTING MONUMENTS. CONTROL POINTS 18, 19, 20, 21, AND ANNIE WERE INCORPORATED INTO THE CONTROL NETWORK PRIOR TO PROJECT CONSTRUCTION USING A TOTAL STATION.

HORIZONTAL CONTROL EQUIPMENT

A LEICA MS60 MULTI STATION WAS USED TO SET MONUMENTS NOT SET BY GPS. IT HAS THE FOLLOWING ACCURACY: STANDARD ANGULAR ERROR +/- 1 SECOND; STANDARD DISTANCE ERROR OF +/- 1MM, + 1.5 PPM.

A LEICA GS14 DUAL FREQUENCY GPS RECEIVER WAS USED FOR GPS OBSERVATIONS. IT HAS THE FOLLOWING ACCURACY: POST PROCESSED PHASED DIFFERENTIAL STATIC METHOD HORIZONTAL ERROR OF 3 MM + 0.5 PPM AND A VERTICAL ERROR OF 5 MM + 0.5 PPM; NETWORK REAL-TIME KINEMATIC (RTK) METHOD HORIZONTAL ERROR OF 8 MM + 0.5 PPM AND A VERTICAL ERROR OF 15 MM + 0.5 PPM.

PLEASE NOTE:

CONTROL MONUMENTS SHOWN ON THIS SURVEY DO NOT REPRESENT PROPERTY LINE OR RIGHT OF WAY LINES. THEY ARE INTENDED TO PERPETUATE THE ALIGNMENTS AND RIGHT OF WAY DEVELOPED FOR THIS PROJECT IN CONFORMANCE WITH ORS 209. SECTION 155. THIS SURVEY SHOWS THE MONUMENTATION OF NEW RIGHT OF WAY ACQUISITIONS AND IS NOT INTENDED TO RESOLVE THE EXISTING RIGHT OF WAY; FOR RESOLUTION OF THE EXISTING RIGHT OF WAY SEE FILED SURVEY ST. HWY. 138-015.

SET R/W MONUMENTS ON SHEET 3

PT. NO.	OCRS NORTHING	OCRS EASTING	ELEVATION	STATION	OFFSET (- IS LEFT)	DATE	DESCRIPTION	REFERENCE
4004	137621.336	160487.294	-	"WL"26+68.28	44.07	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
4005	137598.126	160514.301	-	"WL"27+03.00	52.00	-	CALCULATED POINT - CLOSE TO TRACKS	-
4108	137597.862	160526.540	-	"WL"27+13.95	46.52	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.1' BELOW GROUND	-
5000	137256.639	160515.143	-	"0"1+83.00	34.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5001	137264.155	160507.810	-	"PC"1578+89.56	54.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5003	137278.587	160506.997	-	"PC"1579+00.00	43.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5004	137286.964	160511.709	-	"PC"1579+10.00	40.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.2' BELOW GROUND	-
5005	137335.886	160577.937	-	"PC"1580+00.00	40.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5006	137374.981	160630.869	-	"PC"1580+70.00	29.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5007	137388.403	160656.949	-	"PC"1581+00.00	26.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.2' BELOW GROUND	-
5008	137398.632	160683.611	-	"PC"1581+28.56	26.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.1' BELOW GROUND	-
5009	137449.421	160781.998	-	"PC"1582+33.77	26.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.1' BELOW GROUND	-
5010	137448.184	160784.335	-	"1588+70.00	-51.00	1/29/2018	SET 2" ALUMINUM DISK STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5011	137335.056	160724.451	-	"1587+42.00	-51.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5012	137324.919	160717.953	-	"1587+30.00	-52.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5013	137289.566	160699.239	-	"1586+90.00	-52.00	1/29/2018	SET 5/8" X 28" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5014	137195.935	160666.647	-	"1585+92.00	-37.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5015	137187.403	160647.080	-	"0"0+34.00 "1585+75.31	34.00 -50.30	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5016	137317.576	160442.409	-	"PC"1578+80.63	-30.00	1/29/2018	SET 2" ALUMINUM DISK STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5017	137434.903	160621.814	-	"PC"1580+83.85	-30.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5018	137450.916	160663.551	-	"PC"1581+28.56	-30.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5019	137497.251	160752.783	-	"PC"1582+36.07 "WL"29+61.00	-30.00 30.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH ASPHALT CONCRETE	-
5020	137243.418	160378.930	-	"0"2+97.47	-41.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" 0.1' BELOW GROUND	-
5021	137247.250	160378.085	-	"0"3+00.00	-38.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5022	137262.233	160366.749	-	"0"3+17.00	-30.00	1/29/2018	SET 2" ALUMINUM DISK STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5023	137475.723	160922.242	-	"1589+58.86	58.00	1/29/2018	SET 2" ALUMINUM DISK STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5026	137619.034	160824.948	-	"1590+40.00	-95.04	1/29/2018	SET 2" ALUMINUM DISK STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5027	137658.582	160874.211	-	"1590+98.00	-70.00	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-
5057	137307.953	160408.747	-	"0"3+01.06 "PC"1578+52.91	30.00 -48.08	1/29/2018	SET 5/8" X 30" IRON REBAR WITH 2" ALUMINUM CAP STAMPED "ODOT RIGHT OF WAY" FLUSH WITH GROUND	-

CONTROL MONUMENTS NOT SHOWN ON INDIVIDUAL SHEETS

PT. NO.	OCRS NORTHING	OCRS EASTING	ELEVATION	STATION	OFFSET (- IS LEFT)	DATE	DESCRIPTION	REFERENCE
1	138534.804	163489.906	456.56	"DL"20+19.66	-35.23	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 1" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
4	139063.867	161604.223	464.24	"1606+83.36	40.46	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 4" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
5	139354.902	161610.403	474.91	"1609+67.89	39.27	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 5" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
6	139617.117	161576.523	488.61	"1612+26.10	42.45	4/25/2012	FD. 2-3/4" BRASS DISK STAMPED "STATE HIGHWAY DEPARTMENT REFERENCE RP POST 596.77 FT BACK OF PT" FLUSH IN CONCRETE CURB GOOD CONDITION	DRG 58-5-21A
7	140366.339	161275.639	535.09	"1620+26.54	36.46	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 7" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
17	140141.692	161756.820	505.23	-	-	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 17" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
20	138435.565	158680.865	462.22	-	-	2/11/2014	DESTROYED 1" COPPER DISK STAMPED "ODOT CONTROL 20" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
21	138750.008	158418.462	455.40	-	-	2/11/2014	DESTROYED 1" COPPER DISK STAMPED "ODOT CONTROL 21" FLUSH WITH CONCRETE SIDEWALK	ST. HWY. 138-015
500	137291.403	164405.554	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 500" FLUSH IN CONCRETE WALK BETWEEN CEMETERY ENTRANCES	ST. HWY. 138-015
501	137105.290	164484.184	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 501" FLUSH WITH AC. SURFACE ON CEMETERY DRIVE	ST. HWY. 138-015
502	137373.754	164779.281	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 502" FLUSH IN SIDEWALK AT 1894 DOUGLAS STREET	ST. HWY. 138-015
503	136137.050	160990.532	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 503" IN CRACK OF GUTTER AT INTERSECTIONS OF LANE AND MAIN STREETS	ST. HWY. 138-015
504	135588.036	160659.187	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 504" FLUSH IN CONCRETE WALK ACROSS THE STREET FROM 953 MAIN STREET	ST. HWY. 138-015
505	135962.602	160842.265	-	-	-	4/5/2012	FD. MAG. NAIL AND WASHER STAMPED "ODOT 505" FLUSH IN AC. DRIVE	ST. HWY. 138-015
536	138598.312	159164.357	-	-	-	2/25/2014	FD. MAG. NAIL IN AC. ALLEY	ST. HWY. 138-015
537	138550.536	159604.648	-	-	-	2/25/2014	FD. MAG. NAIL AND WASHER IN AC. STAMPED "ODOT 537"	ST. HWY. 138-015
5002	138514.574	162813.936	451.59	"DL"13+46.13	33.16	3/30/2012	FD. 2-1/2" BRASS DISK STAMPING UNREADABLE FLUSH WITH CONCRETE WALK IN APPROACH TO MESSENGER'S AUTO BODY	CS 66/57
ANNIE	138576.963	158281.790	-	-	-	2/11/2014	FD. 3" DIA. BRASS DISK IN CONCRETE GORE BETWEEN NB ONRAMP & NB I-5 STAMPED "DOUGLAS COUNTY SURVEYORS OFFICE ANNIE 1982" GOOD CONDITION	DCSO CONTROL MON.
HILL	140324.974	160724.319	-	-	-	4/18/2012	FD. 1" COPPER DISK IN CONCRETE HATCHED UTILITY VAULT STAMPED "ODOT CONTROL HILL"	ST. HWY. 138-015
W8	138988.901	161850.432	453.78	-	-	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 8" FLUSH WITH CONCRETE SIDEWALK GOOD CONDITION	ST. HWY. 138-006
W9	139302.758	161865.223	463.15	-	-	4/18/2012	FD. 1" COPPER DISK STAMPED "ODOT CONTROL 9" FLUSH WITH CONCRETE SIDEWALK GOOD CONDITION	ST. HWY. 138-006

RECOVERED MONUMENTS NOT SHOWN ON INDIVIDUAL SHEETS

PT. NO.	OCRS NORTHING	OCRS EASTING	ELEVATION	STATION	OFFSET (- IS LEFT)	DATE	DESCRIPTION	REFERENCE
1166	138310.583	160808.183	-	-	-	4/26/2012	FD. 3-1/4" ALUMINUM DISK IN CONCRETE PEDISTAL STAMPED "SHANER ENGINEERING INC. PLS 430 2001 T27S R5W WM NMC DLC 39" 0.2 FT BELOW SURFACE GOOD CONDITION	MI37-16
1167	135602.625	160725.693	-	-	-	5/3/2012	FD. 3" BRASS DISK STAMPED "DOUGLAS COUNTY SURVEYORS OFFICE T27S R5W DLC 39 1999" FLUSH IN CONCRETE DRIVE AT 953 MAIN STREET	CS 66/8-1
1169	137345.900	164576.119	-	-	-	5/20/2012	FD. 2-1/2" O.D. IRON PIPE 0.2 FT BELOW AC. SURFACE NEAR CENTER OF DOUGLAS STREET DLC CORNER GOOD CONDITION NW DLC 40	W57-61
1170	138862.730	160355.368	-	-	-	10/3/2012	FD. 2-1/2" BRASS DISK STAMPED "DOUGLAS COUNTY SURVEYOR'S OFFICE 1966 T27S R6W S13/S24 R5W S18/S19 REF. 1987" FD. ATOP 1 1/2" OD. IRON PIPE BADLY BENT SOUTHERLY TIED 1.3 FT. BELOW SURFACE AT BEND	CS 67/33-45

OD. = OUTSIDE DIAMETER AC. = ASPHALT CONCRETE (TYPICAL ALL SHEETS)

REGISTERED PROFESSIONAL LAND SURVEYOR

Marshall R. Wagstaff

OREGON
JANUARY 9, 2001
MARSHALL R. WAGSTAFF
49476

EXPIRES: 6/30/2018

SI FEET
OREGON DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY BOUNDARY MONUMENTATION MAP
FFO - OR 138E: CORRIDOR SOLUTIONS (ROSEBURG) SECTION
NORTH UMPQUA HWY. NO. 138, OR138, M.P. -0.62 TO 0.57
DOUGLAS COUNTY
FILE: 13996RW.DGN :: RWM

FOR ODOT REGION 3 APRIL 4, 2018
3500 NW. STEWART PKWY.
ROSEBURG, OR. 97470 SHEET 2 OF 8

ST HWY 138-016 B