

Eastside Rail Corridor Survey Control Report

Prepared for
King County

February 2015

Prepared by
Parametrix



King County

Eastside Rail Corridor Survey Control Report

Prepared for

King County
Parks and Recreation Division
King Street Center, KSC-NR-0700
201 South Jackson Street
Seattle, WA 98104-3855

Prepared by

Parametrix
719 2nd Avenue, Suite 200
Seattle, WA 98104
T. 206.394.3700 F. 1.855.542.6353
www.parametrix.com

CITATION

Parametrix. 2015. Eastside Rail Corridor Survey Control Report. Prepared by Parametrix, Seattle, Washington. February 2015.

CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional land surveyor licensed to practice as such, is affixed below.



2-23-2015

Prepared by Steven D. McCaskey, PLS

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KEY TERMS

GNSS

Global Navigation Satellite System

MP

Milepost

RTK

Real-Time Kinematic

RTN

Real-Time Network

1. INTRODUCTION

This report documents the establishment of survey control points along the route of the Eastside Rail Corridor (Corridor) in the municipalities of Renton, Bellevue, Kirkland, and Woodinville, Washington. The survey was performed during two periods in the summer of 2014 using Real-Time Kinematic (RTK) and Real-Time Network (RTN) Global Navigation Satellite System (GNSS) techniques.

2. PROJECT AREA

The King County-owned Eastside Rail Corridor consists of three primary segments. The first segment begins at Milepost (MP) 5 in Renton, and ends at the Bellevue-Kirkland city limits. The second segment begins at Slater Road in Kirkland, and ends at the rail junction with the Woodinville-Redmond spur in Woodinville. The third segment consists of the Woodinville-Redmond spur, beginning at the previously mentioned junction and ending at the Woodinville-Redmond city limits.



Figure 1. Project Location

3. PURPOSE OF THE SURVEY

With the Eastside Rail Corridor Master Plan project in its initial stages, baseline inventory mapping was required to aid the project team in the assessment of existing conditions throughout the Corridor. The mapping portion of the survey included the location of tracks, rail appurtenances, mileposts, road crossings, utility crossings, and other items of interest as deemed necessary for comparison between the existing rail centerline and the published right-of-way centerline per the existing railroad plans. Because existing suitable control in the immediate vicinity of the Corridor was scarce and was based on various datums, new control points were established on a common datum, being NAD83 (2011) for the project.

4. METHODOLOGY

Control monuments were set at approximate half-mile intervals along the corridor in locations suitable for GNSS occupation. Two types of monuments were set throughout the project area: aluminum caps in poured concrete (primary), and plastic caps on 5/8-inch by 30-inch rebar (secondary).

RTK GNSS was used to establish the initial geodetic values shown in the attached control sheets. This GNSS methodology was highly suitable to fit the project scope of baseline inventory mapping.

5. PROCEDURE

RTK GNSS base stations were setup on Washington State Department of Transportation (WSDOT) control monuments, with published NAD83 (2011) values, adjacent to the project area. Five-minute observations were made on the installed project control monuments to obtain initial values, and then observed with a re-initialized RTK solution as the first level of quality assurance.

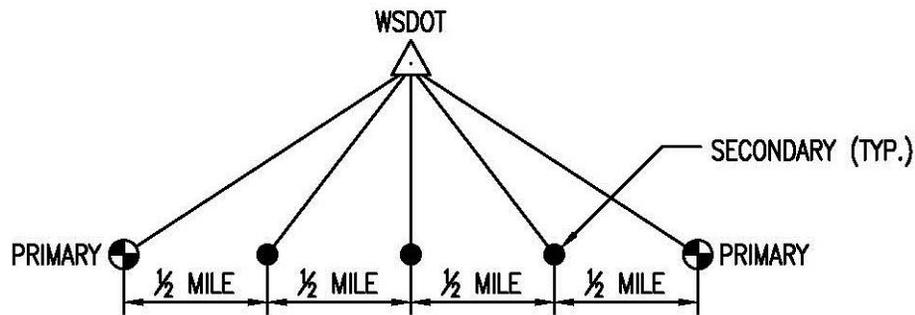


Figure 2. Initial Control Monument Observations

Once initial values were established from the WSDOT control monuments, primary project control points (aluminum disk in concrete monuments) were occupied with the base station. From these points, additional observations were made on the immediate primary secondary control points, in each direction, to create rudimentary closed loops of GNSS vectors as a second form of quality assurance. No initial values were rejected, as field checks indicated that these values matched within the expected accuracy of RTK GNSS technology (0.1 foot horizontally and 0.1 foot vertically).

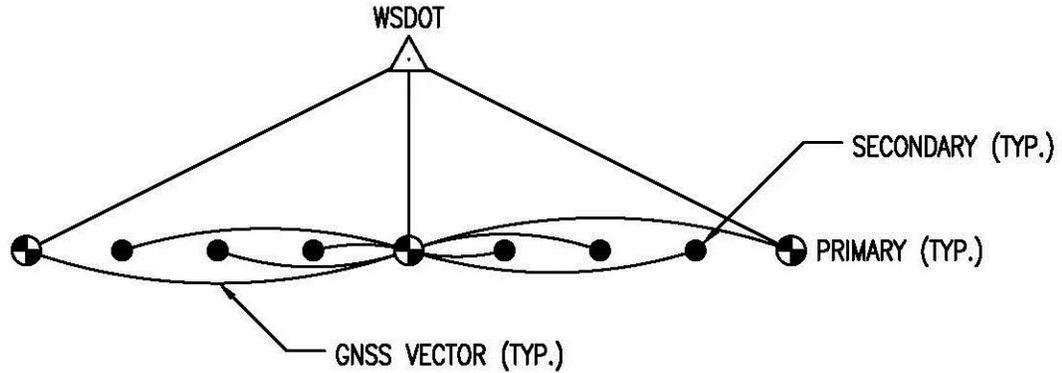


Figure 3. Quality Assurance Observations

As a final level of quality assurance, the control points were observed using the Washington State Reference Network, a multi-station real-time network. As expected, the initial values checked within the expected accuracy of RTK GNSS technology (0.1 foot horizontally and 0.1 foot vertically).

6. RESULTS

The control values listed on the control sheets were used for the baseline inventory survey. These values will be held through the subsequent project phase, and reassessed as needed during forthcoming project phases.

7. METADATA

Horizontal Datum: NAD83 (2011), Washington State Plane, North Zone
Vertical Datum: NAVD88
Basis of Control: Washington State Department of Transportation Control Monuments along the I-405 corridor. Monuments used are listed on the control sheets.

Appendix A
Control Data Sheets

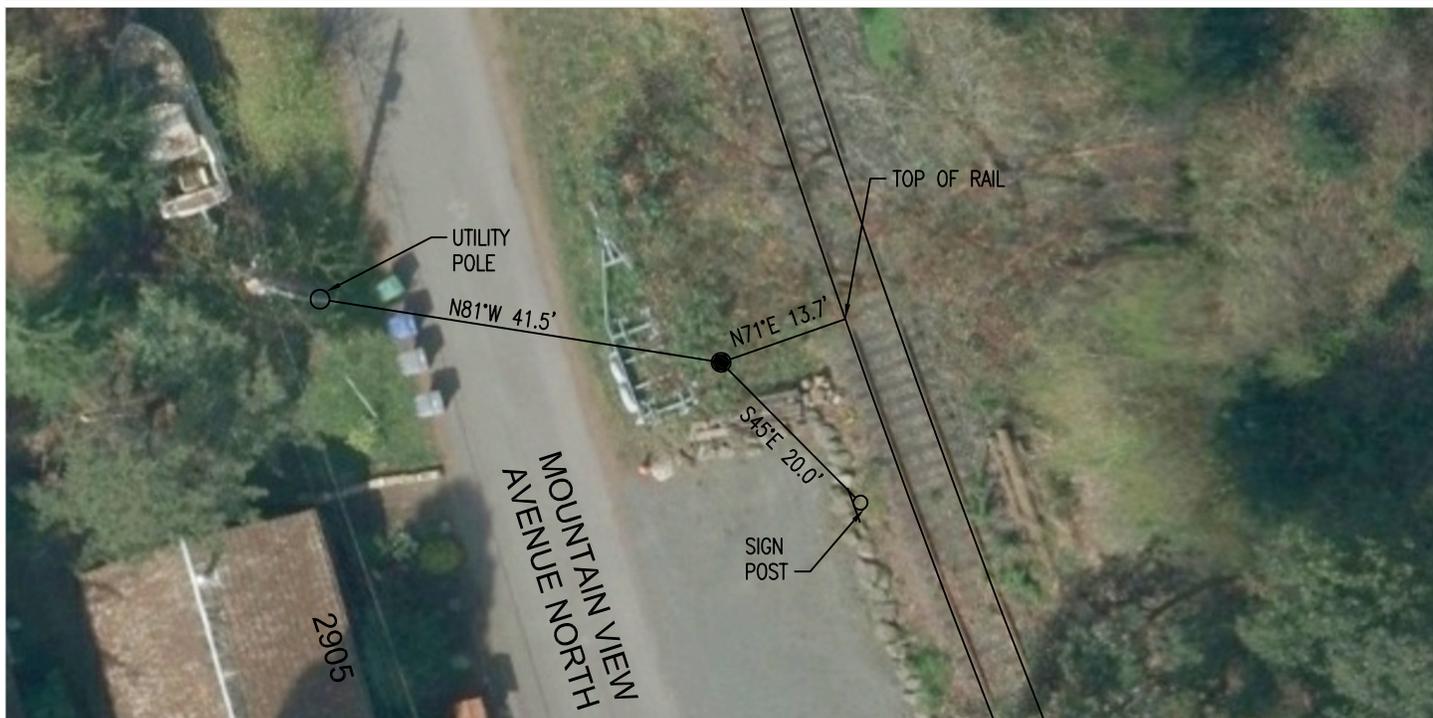
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
100

NORTHING: 191975.11 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1300328.56 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 38.29 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 27, 2014
SCALE FACTOR: 0.999998505 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 2900 MOUNTAIN VIEW AVE N, RENTON	REF. WSDOT MON.: 901 (GP17405-68)



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SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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P 206.394.3700
WWW.PARAMETRIX.COM

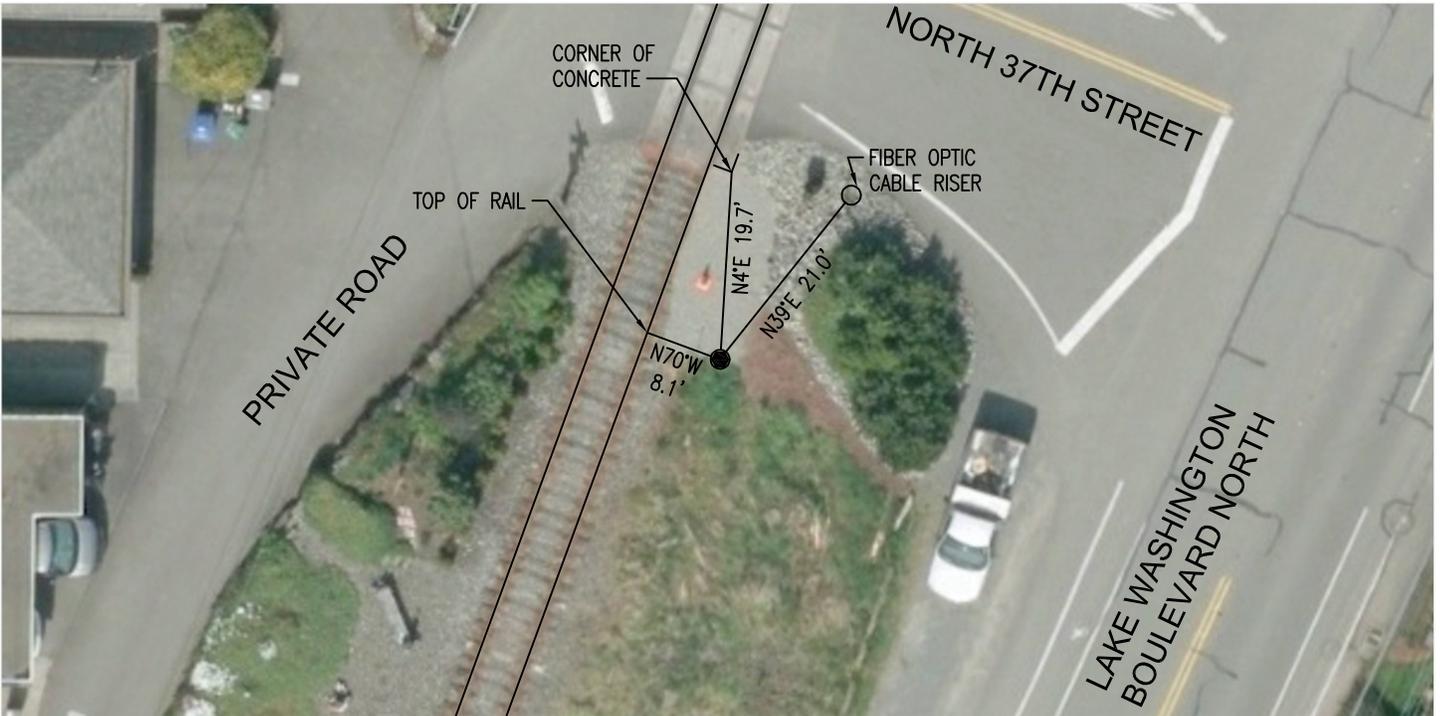
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
101

NORTHING: 194353.03 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1301111.86 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 37.55 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 27, 2014
SCALE FACTOR: 0.999997363 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: N 37TH ST / LK WASH BLVD N, RENTON	REF. WSDOT MON.: 901 (GP17405-68)



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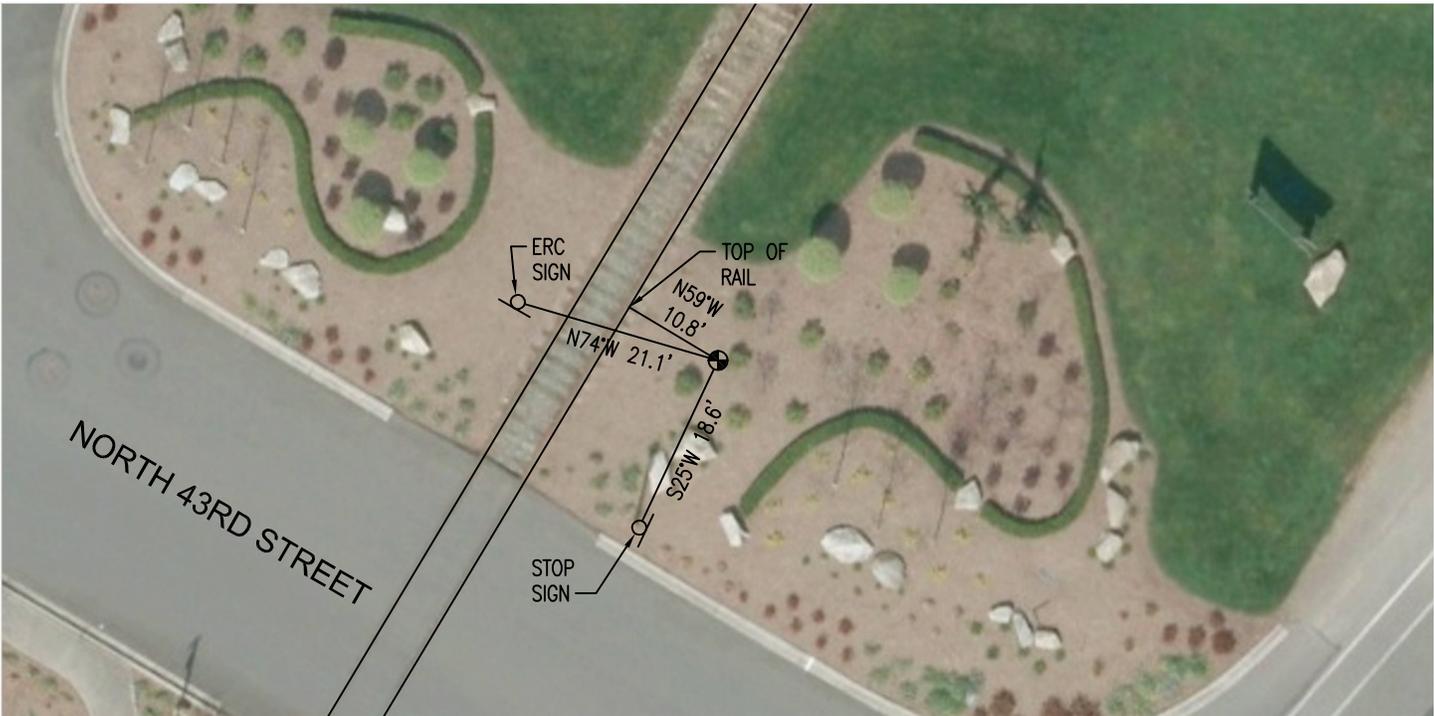
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POINT ID
102

NORTHING: 196820.39 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1302740.88 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 38.32 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: 2½" ALUMINUM CAP IN CONCRETE	DATE ESTABLISHED: MAY 27, 2014
SCALE FACTOR: 0.999996112 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: N 43RD ST / LK WASH BLVD N, RENTON	REF. WSDOT MON.: 903 (GP17405-70)



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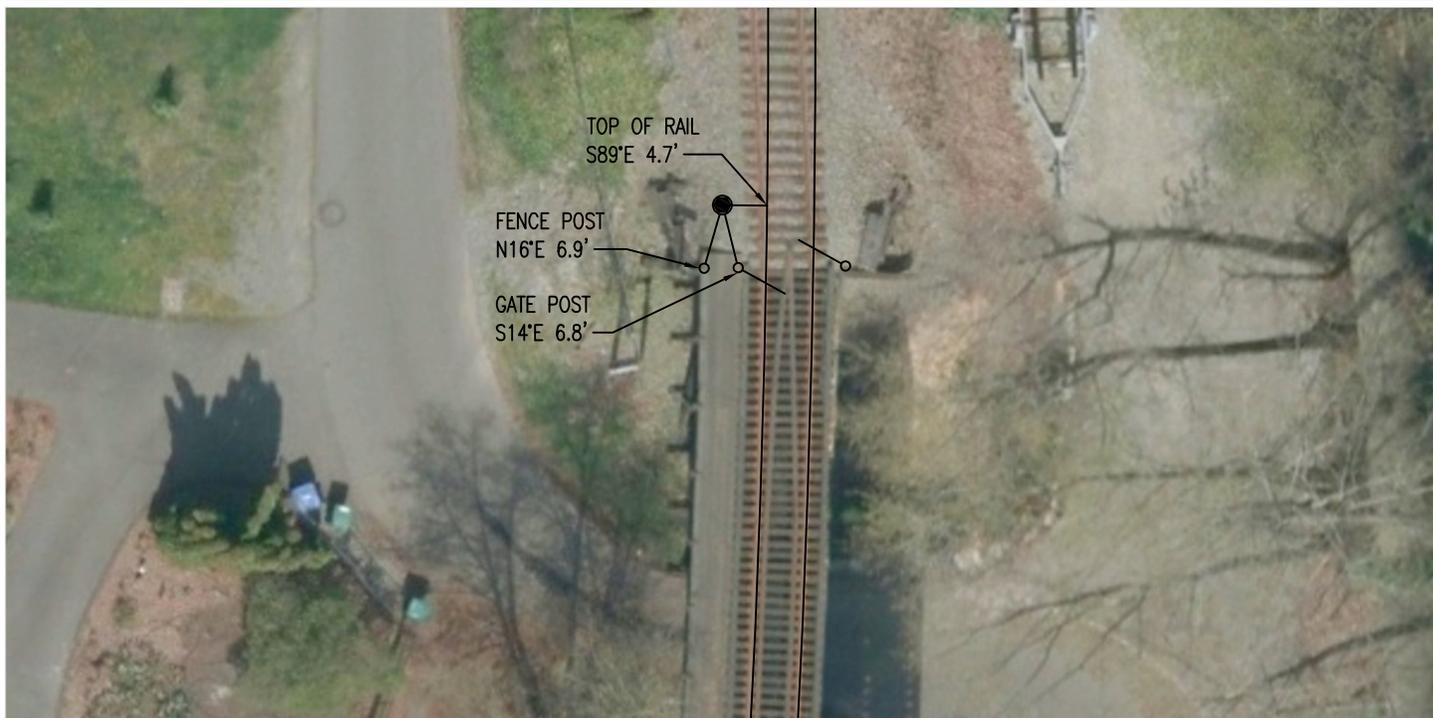
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
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POINT ID
103

NORTHING: 199385.05 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1304025.93 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 37.80 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 27, 2014
SCALE FACTOR: 0.999994893 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: RIPLEY LANE NORTH, RENTON	REF. WSDOT MON.: 903 (GP17405-70)



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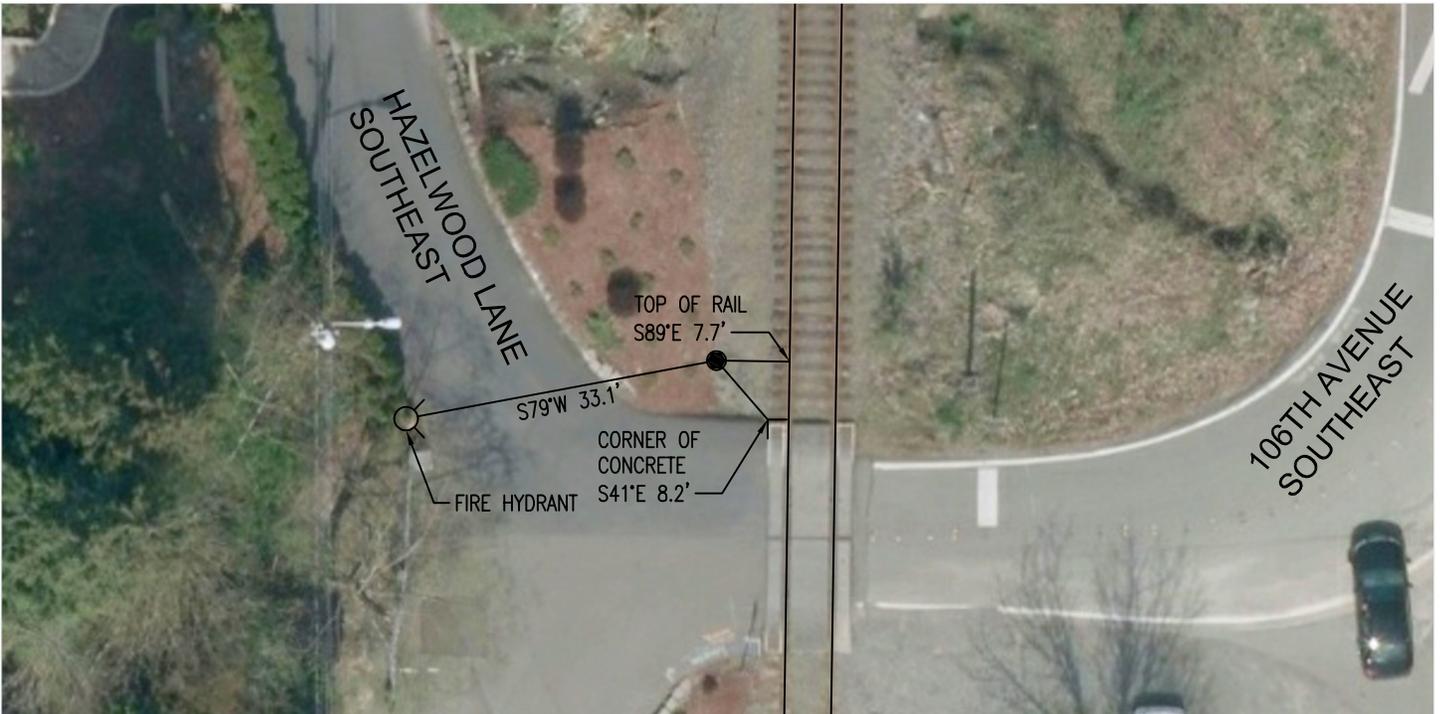
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
104

NORTHING: 202709.89 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1303818.46 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 51.13 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 28, 2014
SCALE FACTOR: 0.999992685 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: HAZELWOOD LN SE / 106TH AVE SE, BELLEVUE	REF. WSDOT MON.: 903 (GP17405-70)



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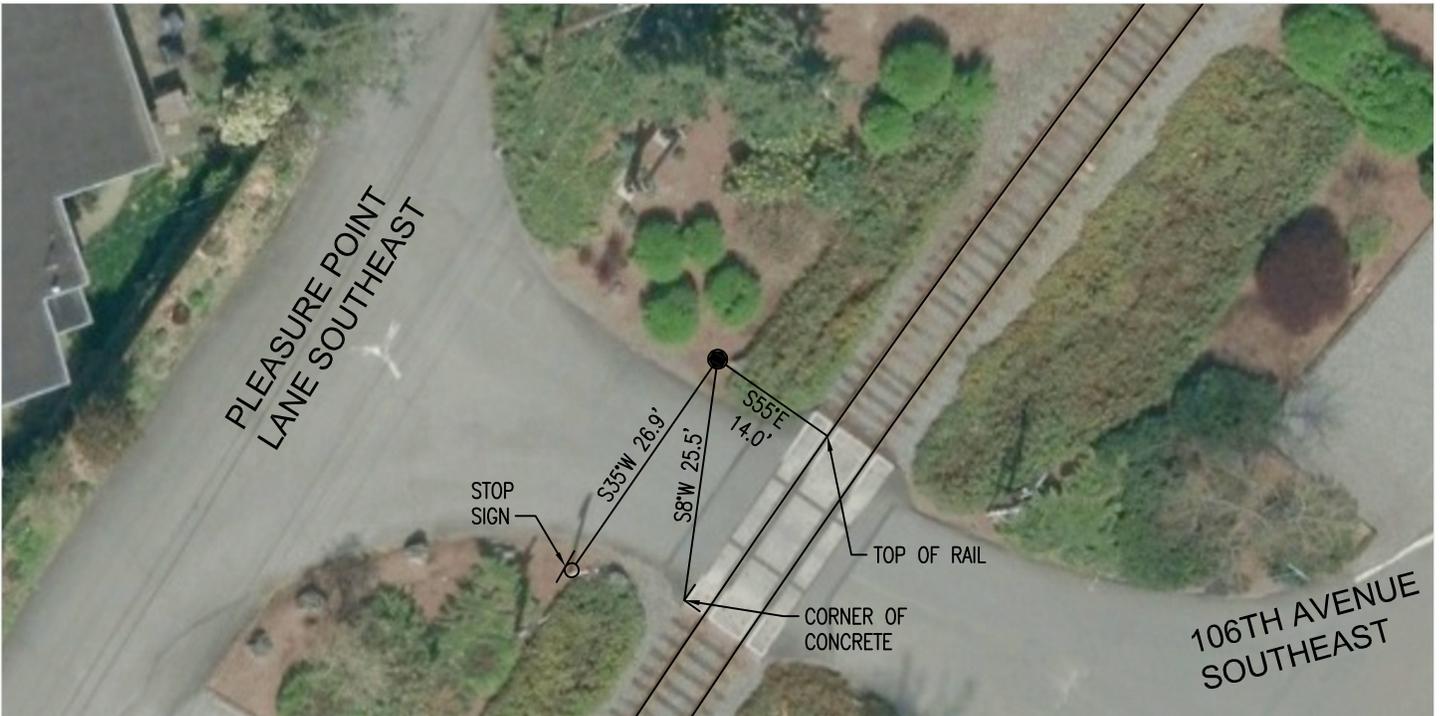
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
105

NORTHING: 204474.38 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1304088.65 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 58.17 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 28, 2014
SCALE FACTOR: 0.999991521 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: PLEASURE POINT LN SE / 106TH AVE SE, BELLEVUE	REF. WSDOT MON.: 903 (GP17405-70)



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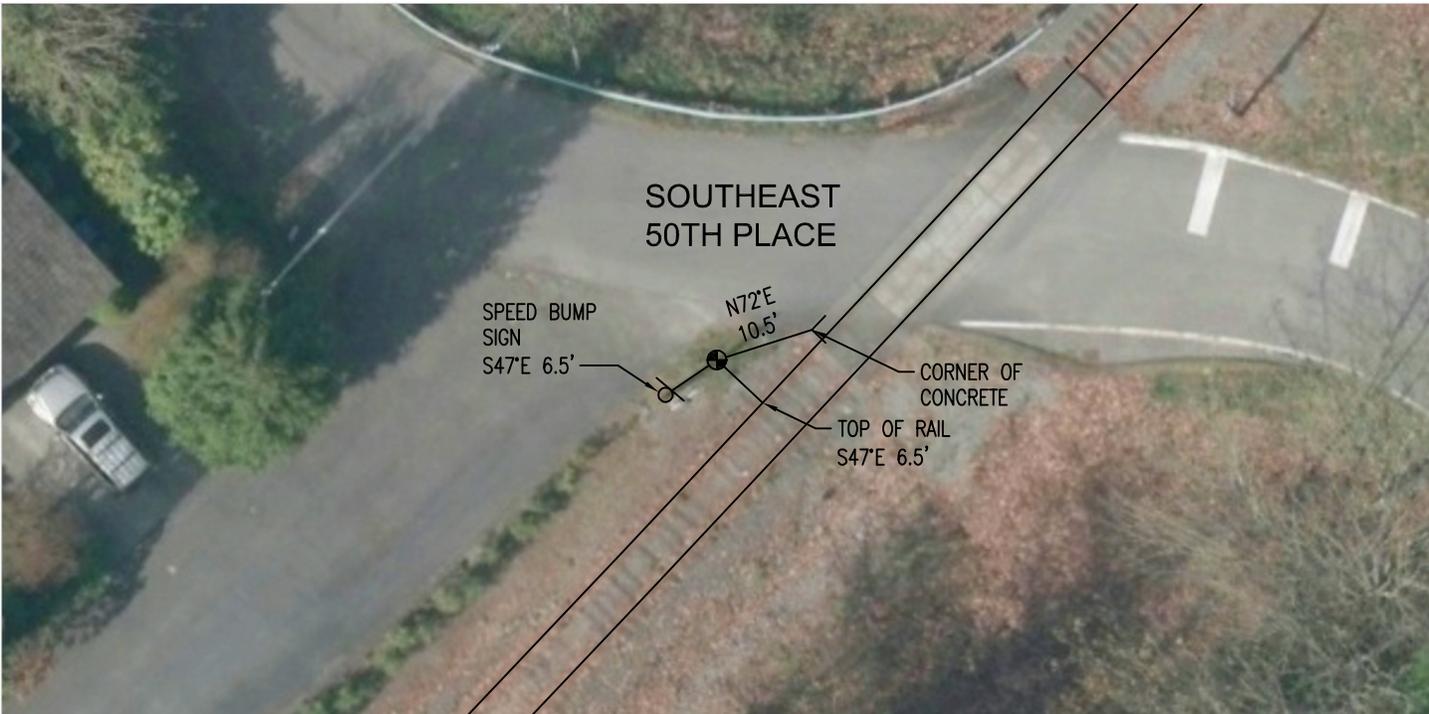
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EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
106

NORTHING: 206949.23 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1305458.66 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 67.97 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 28, 2014
SCALE FACTOR: 0.999989895 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 11200 SE 50TH PLACE, BELLEVUE	REF. WSDOT MON.: 903 (GP17405-70)



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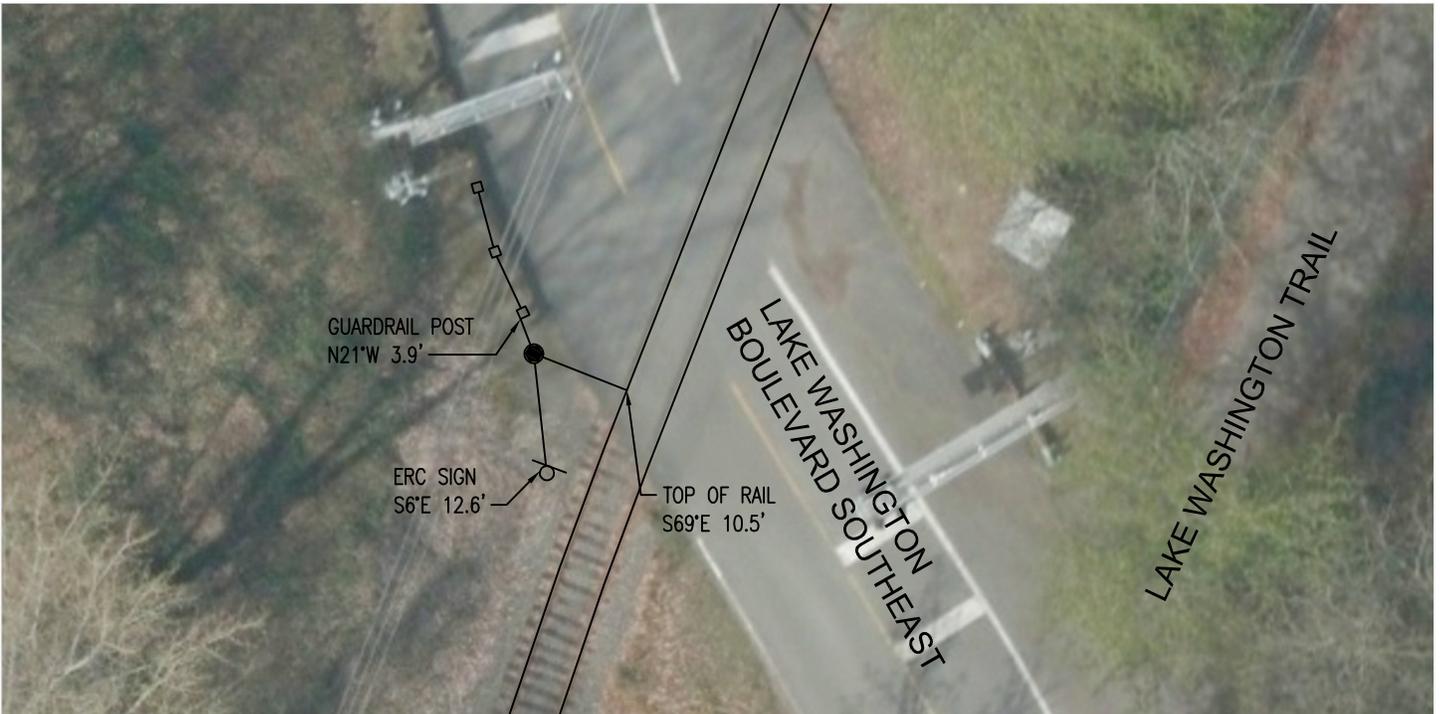
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POINT ID
107

NORTHING: 208673.22 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1306099.61 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 74.75 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 28, 2014
SCALE FACTOR: 0.999988776 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: SOUTH ENT. TO LK WASH. TRAIL, BELLEVUE	REF. WSDOT MON.: 903 (GP17405-70)



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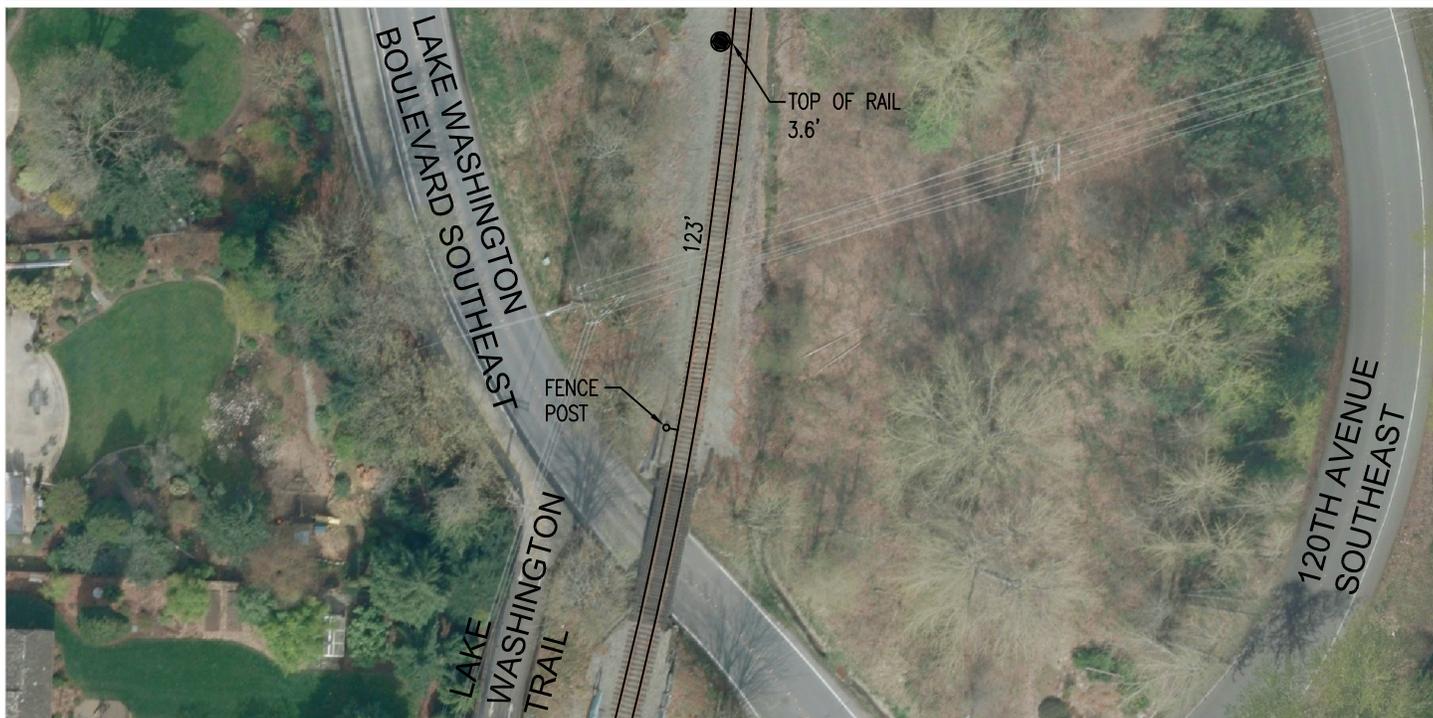
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POINT ID
108

NORTHING: 210769.43 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1307881.93 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 81.71 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: MAY 29, 2014
SCALE FACTOR: 0.999987476 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: NORTH ENT. TO LK WASH. TRAIL, BELLEVUE	REF. WSDOT MON.: 903 (GP17405-70)



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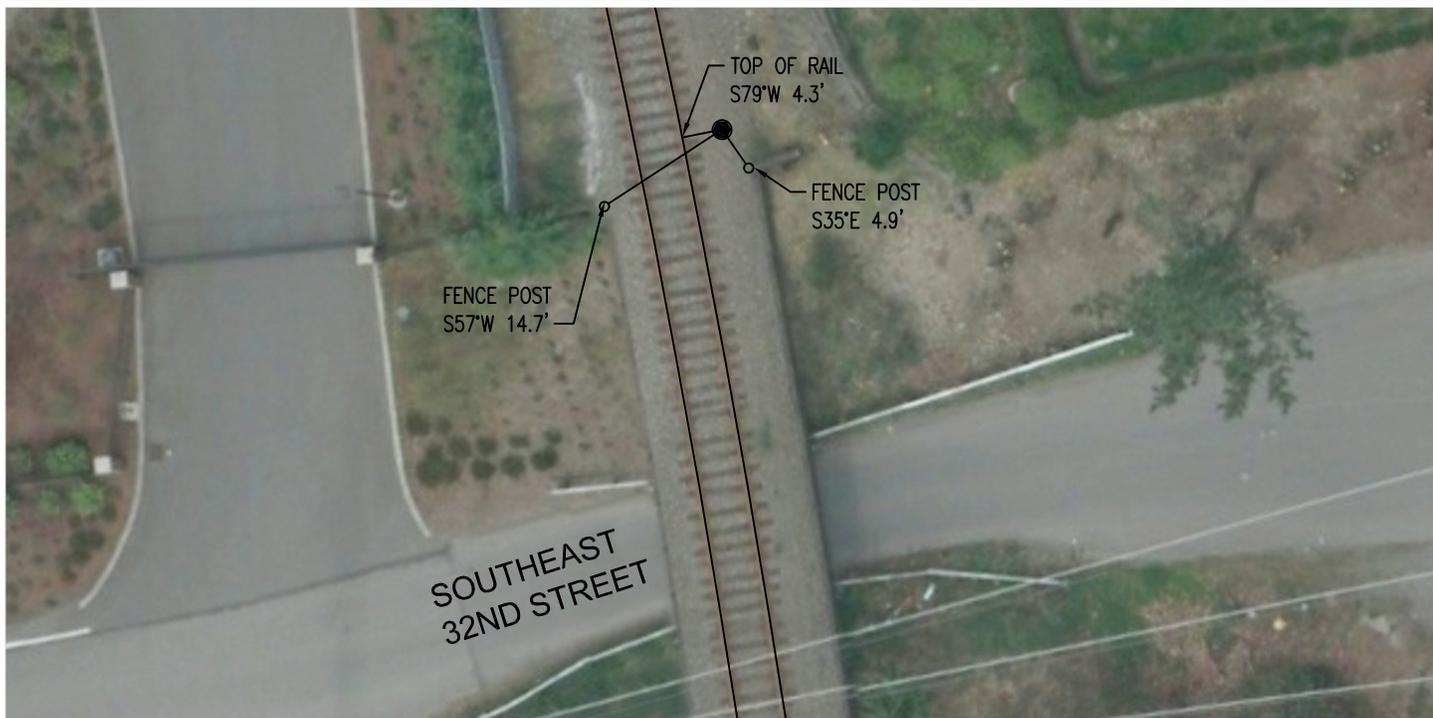
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POINT ID
109

NORTHING:	215415.77	(USFt)	HORIZONTAL DATUM:	NAD83 (2011)
EASTING:	1308662.18	(USFt)	STATE PLANE ZONE:	WASHINGTON NORTH
ELEVATION:	98.64	(USFt)	VERTICAL DATUM:	NAVD88
MONUMENT:	RED PLASTIC CAP ON 5/8" X 30" REBAR		DATE ESTABLISHED:	MAY 29, 2014
SCALE FACTOR:	0.999984588	(COMBINED)	SURVEY METHOD:	RTK GNSS & WSRN
GEN. LOCATION:	SOUTHEAST 32ND STREET, BELLEVUE		REF. WSDOT MON.:	903 (GP17405-70)



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COMMENT:
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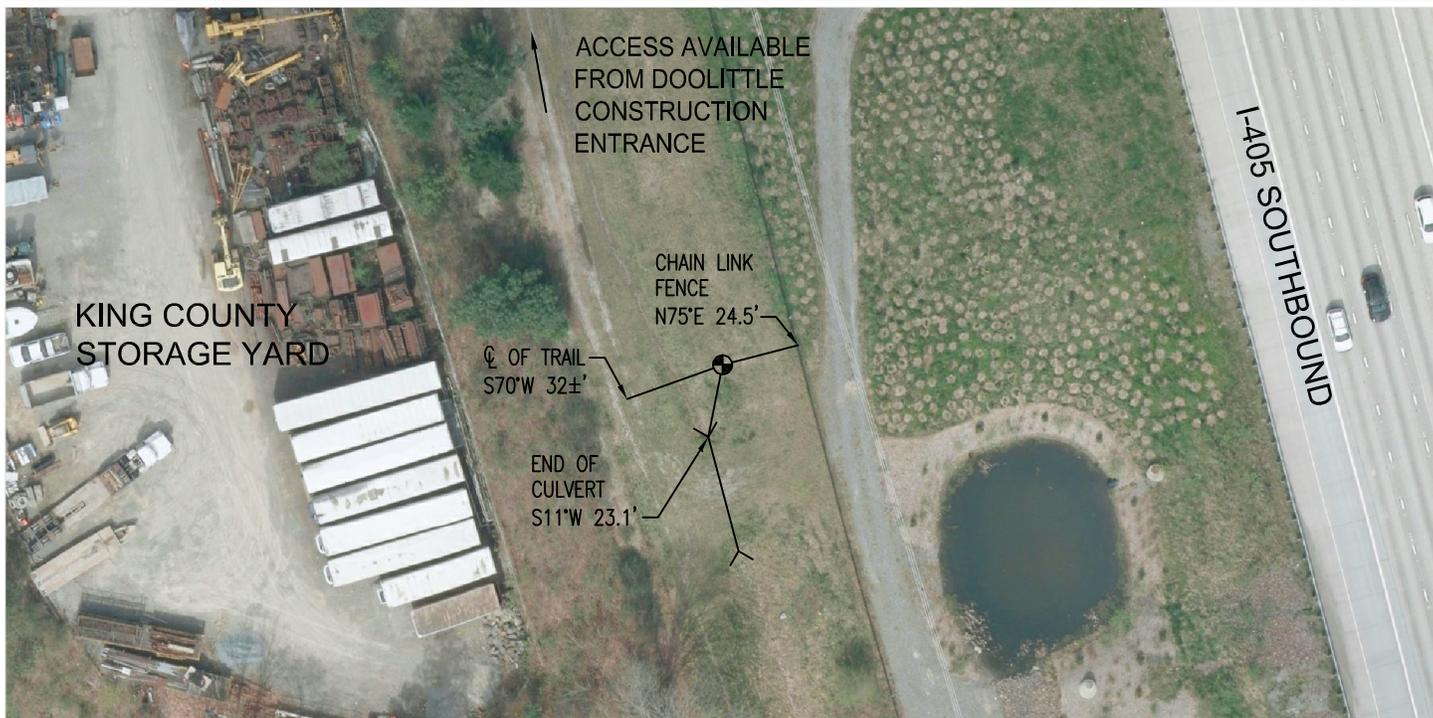
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POINT ID
110

NORTHING:	217978.46	(USFt)	HORIZONTAL DATUM:	NAD83 (2011)
EASTING:	1307753.46	(USFt)	STATE PLANE ZONE:	WASHINGTON NORTH
ELEVATION:	108.64	(USFt)	VERTICAL DATUM:	NAVD88
MONUMENT:	2½" ALUMINUM CAP IN CONCRETE		DATE ESTABLISHED:	MAY 29, 2014
SCALE FACTOR:	0.999982995	(COMBINED)	SURVEY METHOD:	RTK GNSS & WSRN
GEN. LOCATION:	SOUTH END OF KC STORAGE YARD, BELLEVUE		REF. WSDOT MON.:	903 (GP17405-70)



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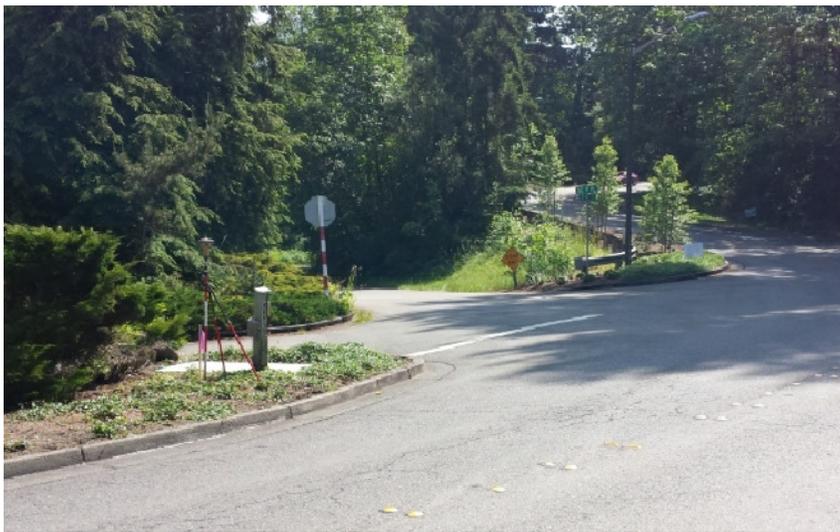
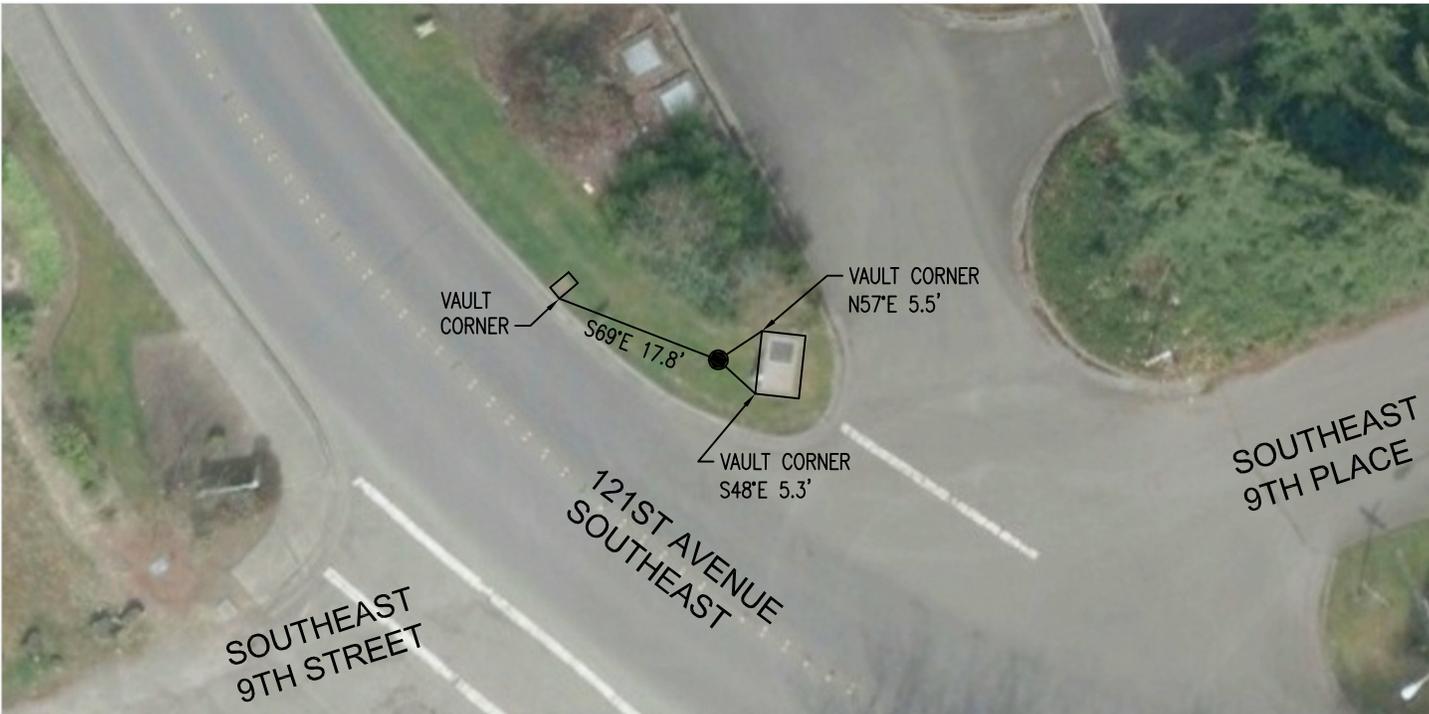
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EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
111

NORTHING: 222569.34 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1308183.90 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 48.69 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JUNE 2, 2014
SCALE FACTOR: 0.999983873 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 121 ST AVE SE & SE 9TH, BELLEVUE	REF. WSDOT MON.: 6404 (GP17405-313)



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COMMENT:
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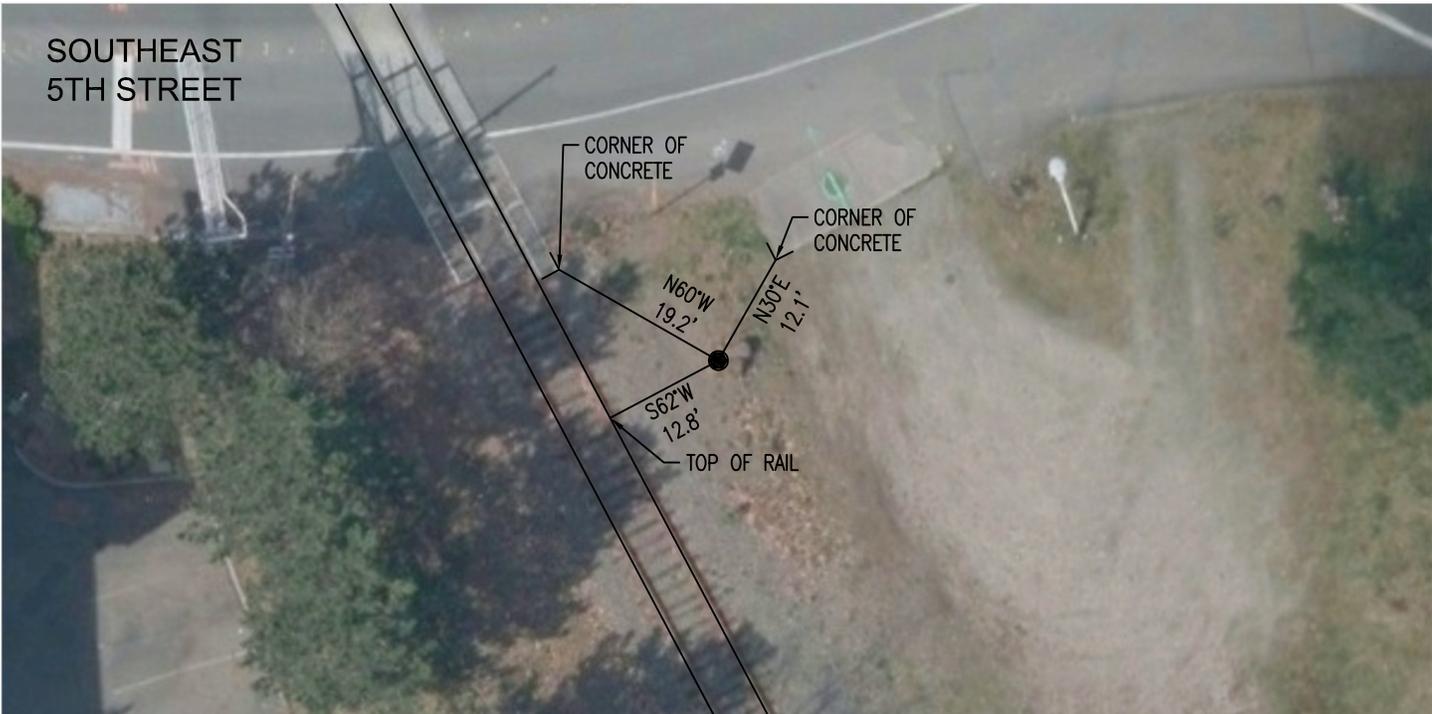
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EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
112

NORTHING: 223612.19 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1307484.49 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 128.85 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JUNE 2, 2014
SCALE FACTOR: 0.999979613 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 118TH AVE SE & SE 5TH ST, BELLEVUE	REF. WSDOT MON.: 6404 (GP17405-313)



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POINT ID
113

NORTHING: 228024.99 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1307328.87 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 144.89 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: 2½" ALUMINUM CAP IN CONCRETE	DATE ESTABLISHED: JUNE 2, 2014
SCALE FACTOR: 0.999977001 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 11795 NE 8TH ST, BELLEVUE	REF. WSDOT MON.: 6404 (GP17405-313)



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COMMENT:
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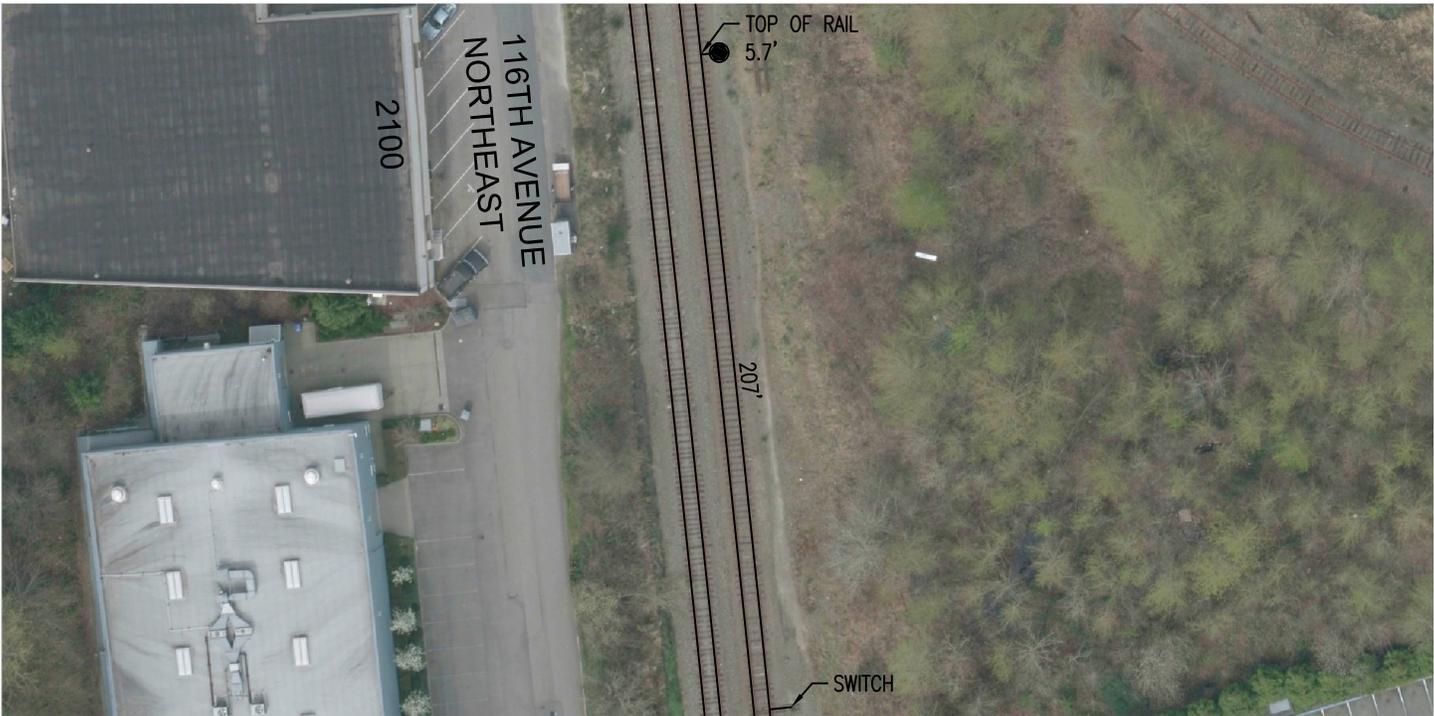
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SURVEY CONTROL POINT DATASHEET



POINT ID
114

NORTHING: 232570.44 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1307457.38 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 151.36 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: 5/8" X 30" REBAR	DATE ESTABLISHED: JUNE 2, 2014
SCALE FACTOR: 0.999974832 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 2100± 116TH AVENUE NE, BELLEVUE	REF. WSDOT MON.: 6404 (GP17405-313)



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SURVEY CONTROL POINT DATASHEET



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POINT ID
115

NORTHING: 235622.36 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1306141.17 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 160.76 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JUNE 3, 2014
SCALE FACTOR: 0.999973172 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: CITY OF BELLEVUE SERVICE CENTER	REF. WSDOT MON.: 1981 (BM17405-11)



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COMMENT:
N/A

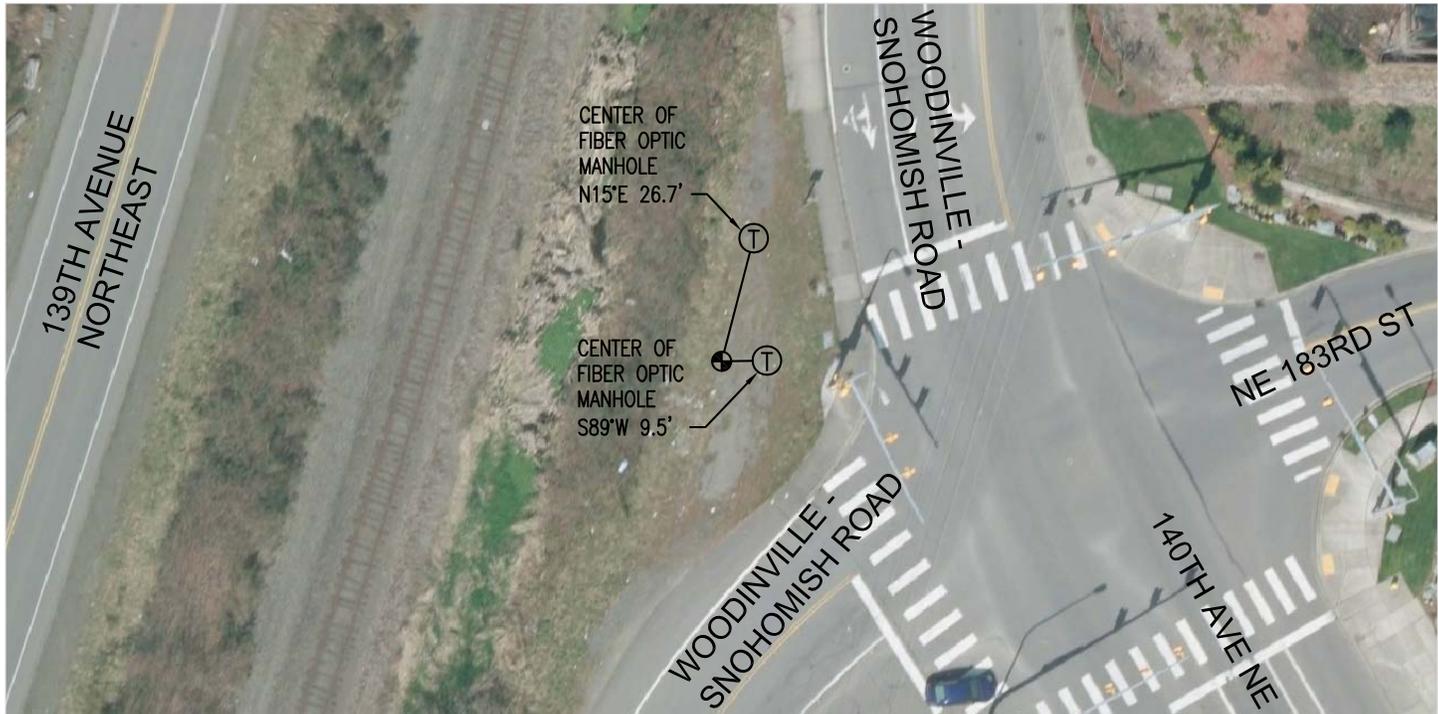
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 719 2ND AVENUE, SUITE 200
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SURVEY CONTROL POINT DATASHEET



POINT ID
119

NORTHING: 280587.06 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1315510.72 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 88.20 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: 2½" ALUMINUM CAP IN CONCRETE	DATE ESTABLISHED: JULY 14, 2014
SCALE FACTOR: 0.999960955 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: WOOD-SNO RD / 140TH AVE NE, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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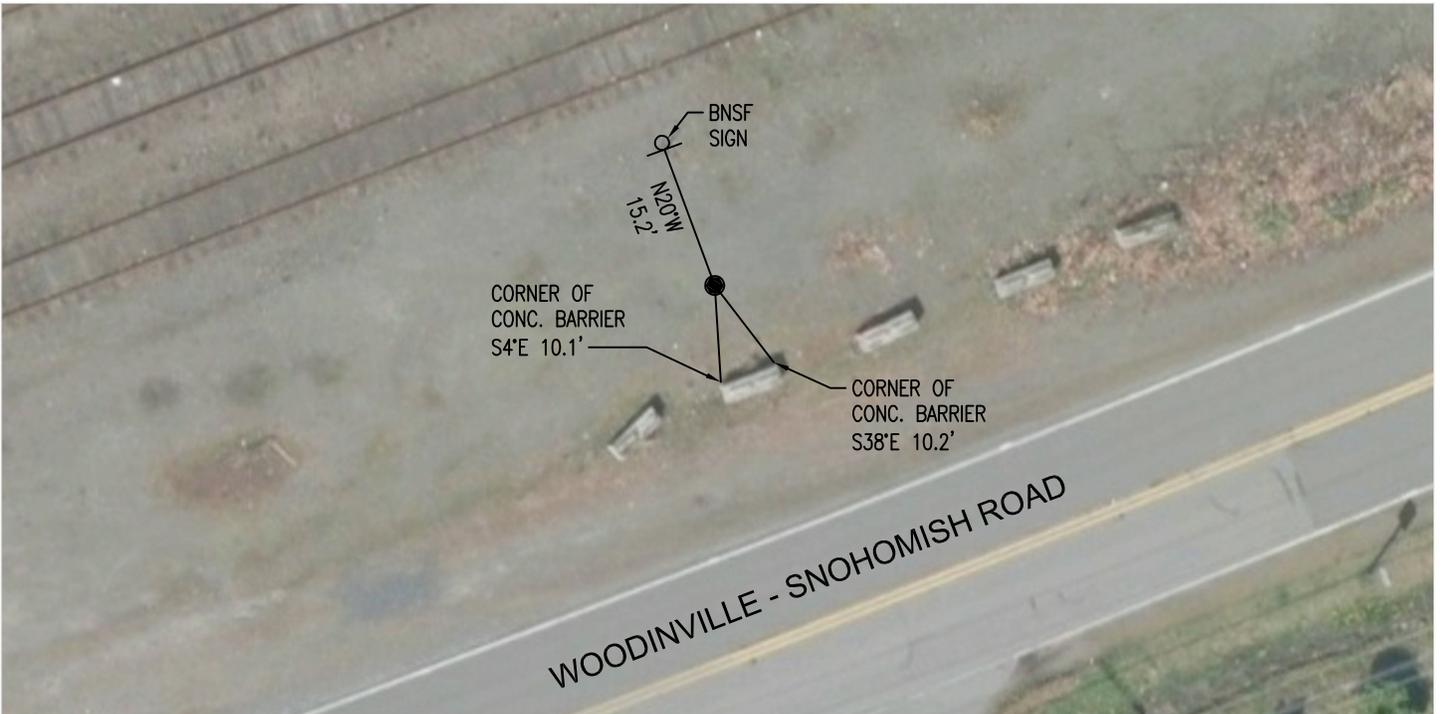
SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
120

NORTHING: 278644.83 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1313664.32 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 58.24 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 15, 2014
SCALE FACTOR: 0.999962976 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 17500 WOOD-SNO RD, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
121

NORTHING: 276697.95 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1312258.04 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 39.27 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 15, 2014
SCALE FACTOR: 0.999964480 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 16900 WOOD-RED RD, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

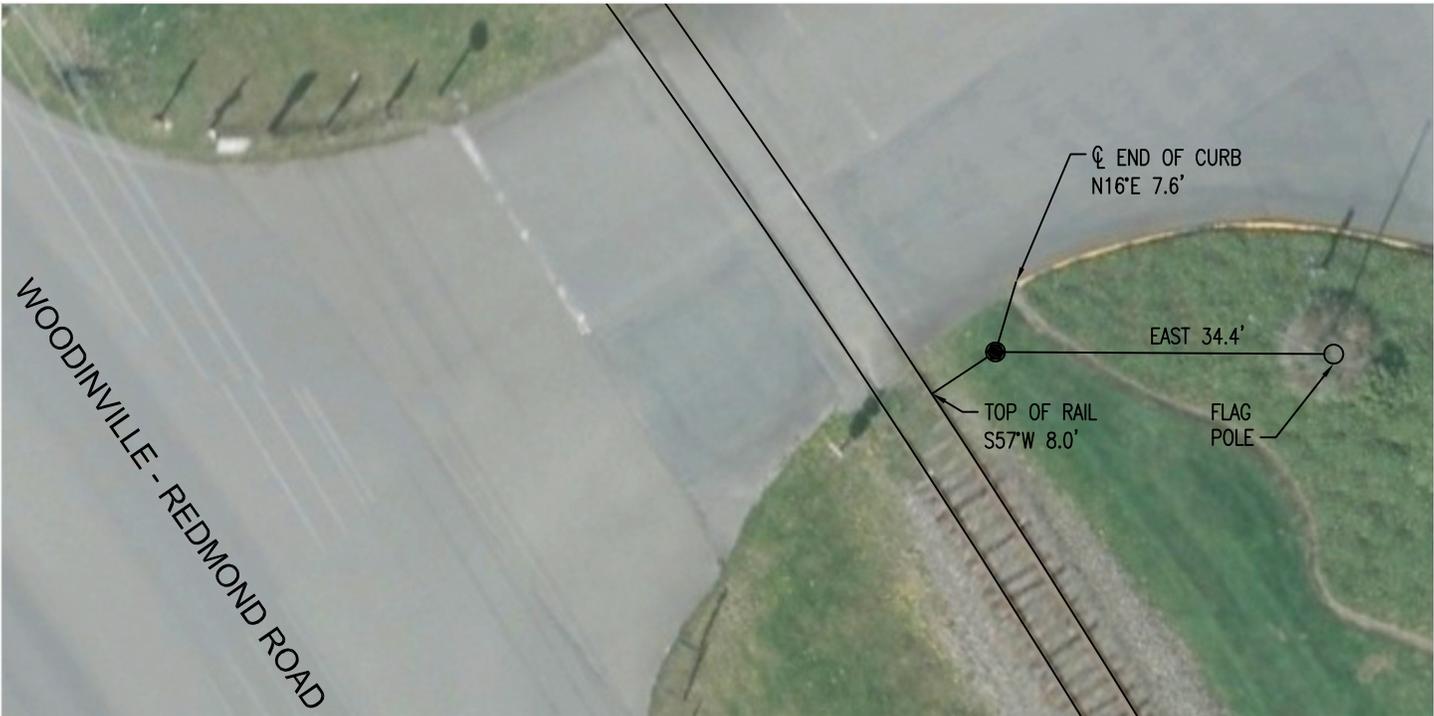
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SURVEY CONTROL POINT DATASHEET



POINT ID
122

NORTHING: 274645.20 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1313858.26 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 41.56 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 15, 2014
SCALE FACTOR: 0.999964993 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 16100 WOOD-RED RD, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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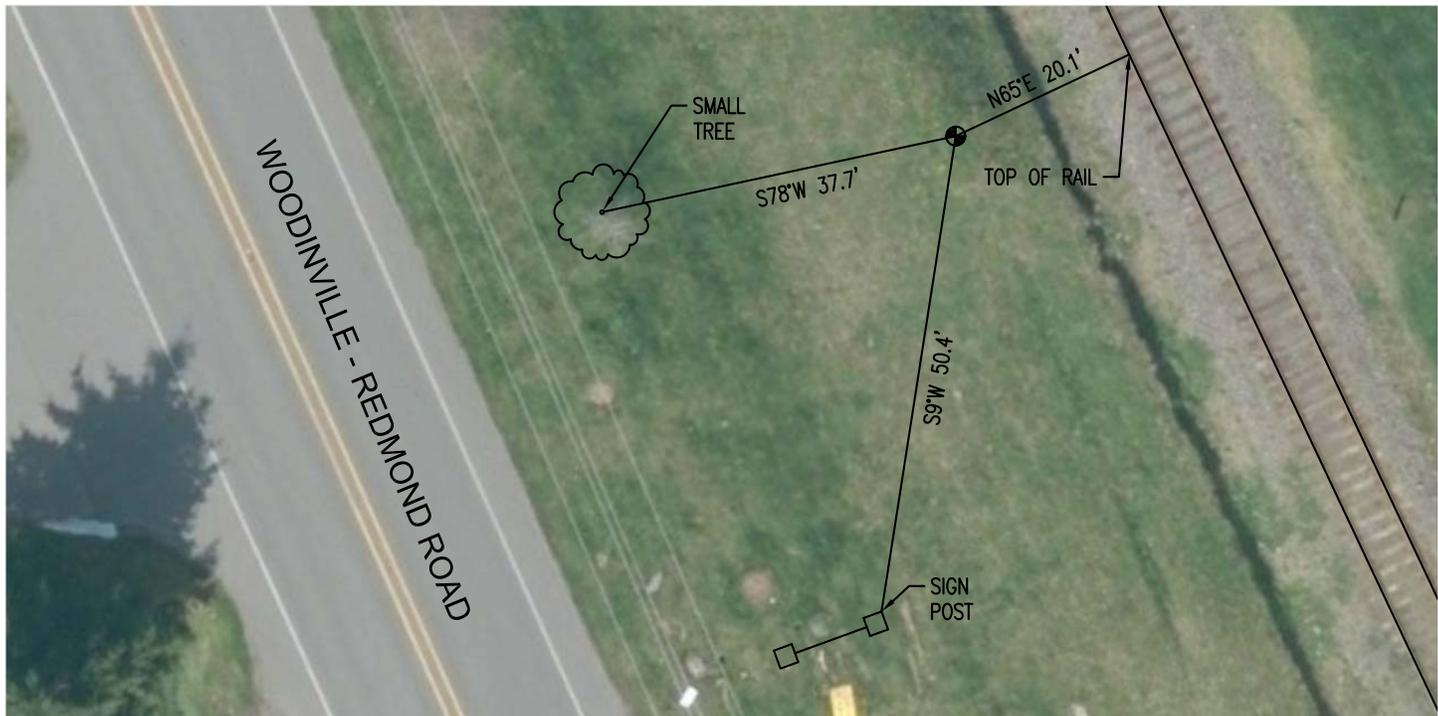
SURVEY CONTROL POINT DATASHEET



King County Parks **Your Big Backyard** King County

POINT ID
123

NORTHING: 272545.38 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1314825.07 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 43.12 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: 2½" ALUMINUM CAP IN CONCRETE	DATE ESTABLISHED: JULY 15, 2014
SCALE FACTOR: 0.999965568 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 15500 WOOD-RED RD, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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SURVEY CONTROL POINT DATASHEET



POINT ID
124

NORTHING: 270190.82 (USft)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1315376.04 (USft)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 114.35 (USft)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 18, 2014
SCALE FACTOR: 0.999962914 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: NE 145TH ST & 138TH WAY NE, WOODINVILLE	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
126

NORTHING: 265276.84 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1315930.64 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 52.10 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 25, 2014
SCALE FACTOR: 0.999967480 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 13300 141ST AVE NE, KIRKLAND	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

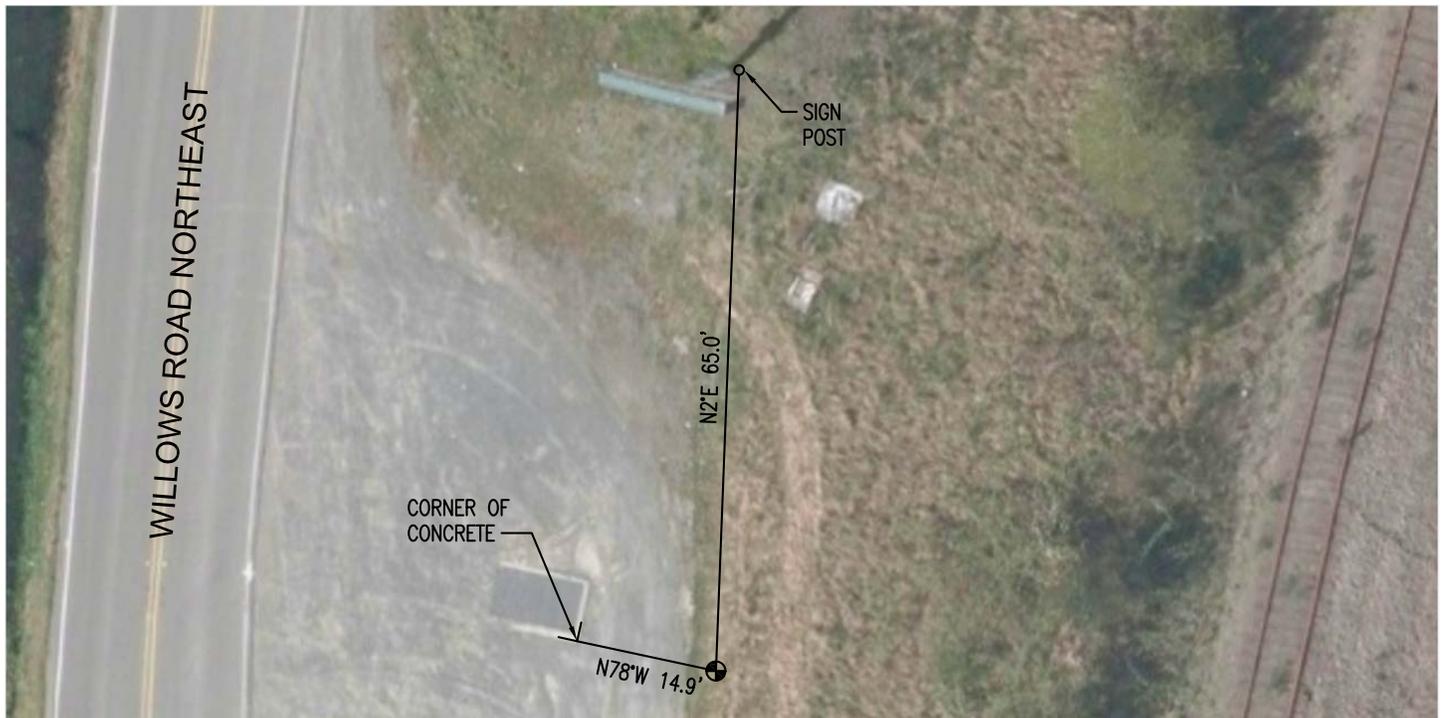
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SURVEY CONTROL POINT DATASHEET



POINT ID
127

NORTHING: 262898.12 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1315391.59 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 52.39 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: 2½" ALUMINUM CAP IN CONCRETE	DATE ESTABLISHED: JULY 24, 2014
SCALE FACTOR: 0.999968263 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 12500 141ST AVE NE, KIRKLAND	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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SURVEY CONTROL POINT DATASHEET

EASTSIDE RAIL CORRIDOR
REGIONAL TRAIL MASTER PLAN PROJECT



POINT ID
128

NORTHING: 262638.21 (USFt)	HORIZONTAL DATUM: NAD83 (2011)
EASTING: 1312761.11 (USFt)	STATE PLANE ZONE: WASHINGTON NORTH
ELEVATION: 138.98 (USFt)	VERTICAL DATUM: NAVD88
MONUMENT: RED PLASTIC CAP ON 5/8" X 30" REBAR	DATE ESTABLISHED: JULY 25, 2014
SCALE FACTOR: 0.999964238 (COMBINED)	SURVEY METHOD: RTK GNSS & WSRN
GEN. LOCATION: 13100 124TH AVE NE, KIRKLAND	REF. WSDOT MON.: 2018 (GP17522-135)



NO.	REVISION	BY	APP	DATE
0	ISSUED FOR INFORMATION	NR	SM	2014-10-24

SUPERSEDED VALUES
NORTHING:
EASTING:
ELEVATION:
COMMENT:
N/A

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