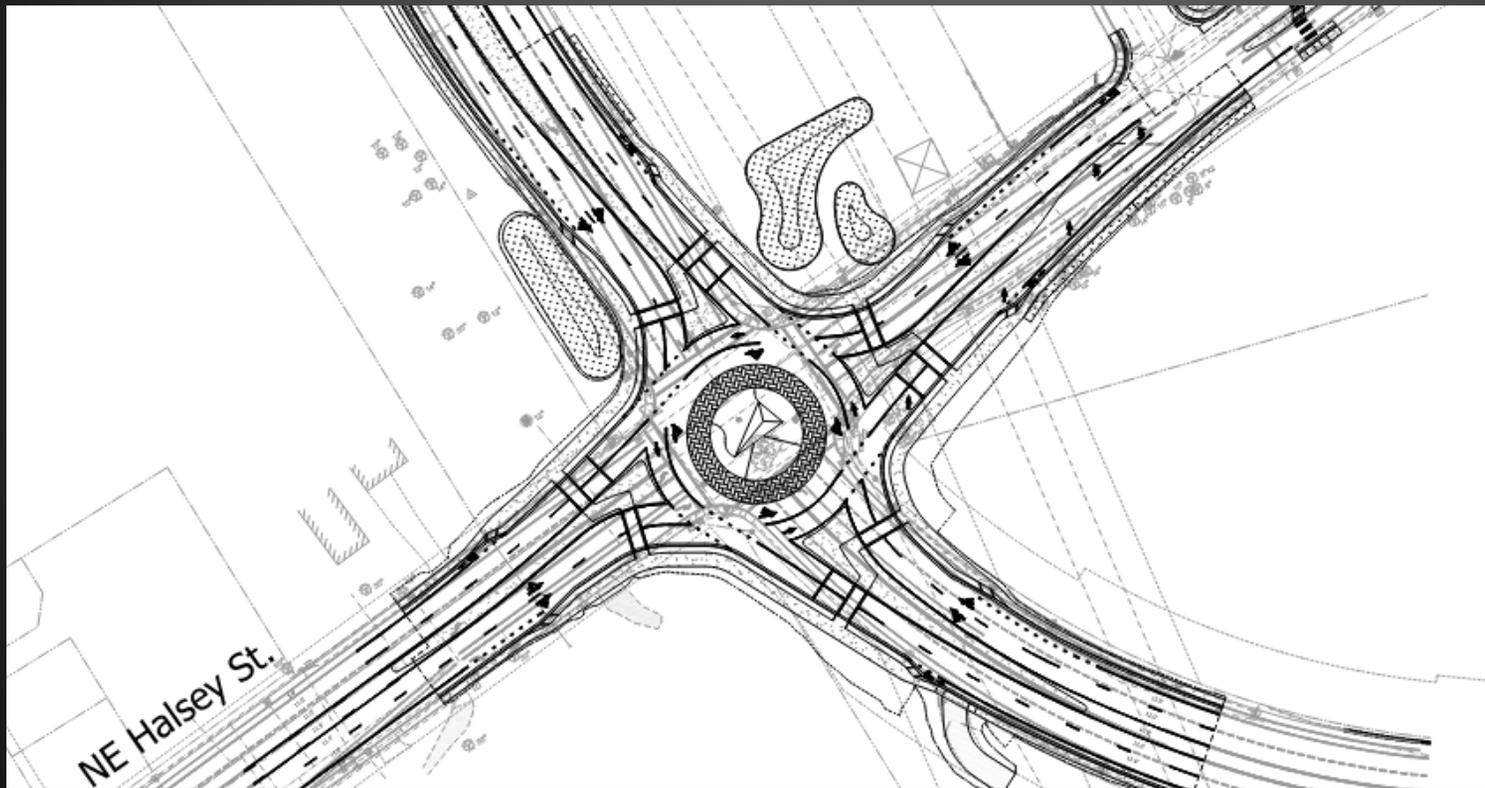


NE FAIRVIEW PARKWAY/NE HALSEY ST ROUNDBABOUT

08/04/2021



Overview

- ▶ Project Background
- ▶ 30% Design Layout
 - ▶ Roundabout Memo
 - ▶ Landscape Memo
 - ▶ Coordination with Other Stakeholders
- ▶ Next Steps

Project Background

- ▶ City prepared draft roundabout layout and parking lot plan for Park n Ride
- ▶ Conducted traffic study to support intersection control evaluation (ICE)
- ▶ Updated roundabout and Park n Ride layouts by Kittelson
- ▶ Design contract for project design in two phases
 - ▶ Phase I – 30% Design
 - ▶ Phase II – Final PS&E

Traffic Analysis Summary

Traffic Operations Results for Fairview Pkwy & NE Halsey St				
Scenario	Weekday AM Peak Hour		Weekday PM Peak Hour	
	Delay (s/veh)	LOS	Delay (s/veh)	LOS
2018 Existing Signal	38.7	D	35.2	D
2018 Roundabout	16.5	C	14.4	B
2040 No Build	52.7	D	43.7	D
2040 Roundabout	24.7	C	25.9	C

Council Meetings

- ▶ January 15, 2020; April 2021
- ▶ What is a roundabout?
- ▶ Why roundabouts
 - ▶ Safety, Lower Delay, Environmental Benefit, Access Management, Operations and Maintenance Costs, and Aesthetics
- ▶ More on Safety
 - ▶ 90-100% reduction in fatalities
 - ▶ 75% reduction in injuries
 - ▶ 35% reduction in total crashes
 - ▶ Very little reported pedestrian and bicycle crash experience

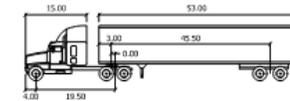
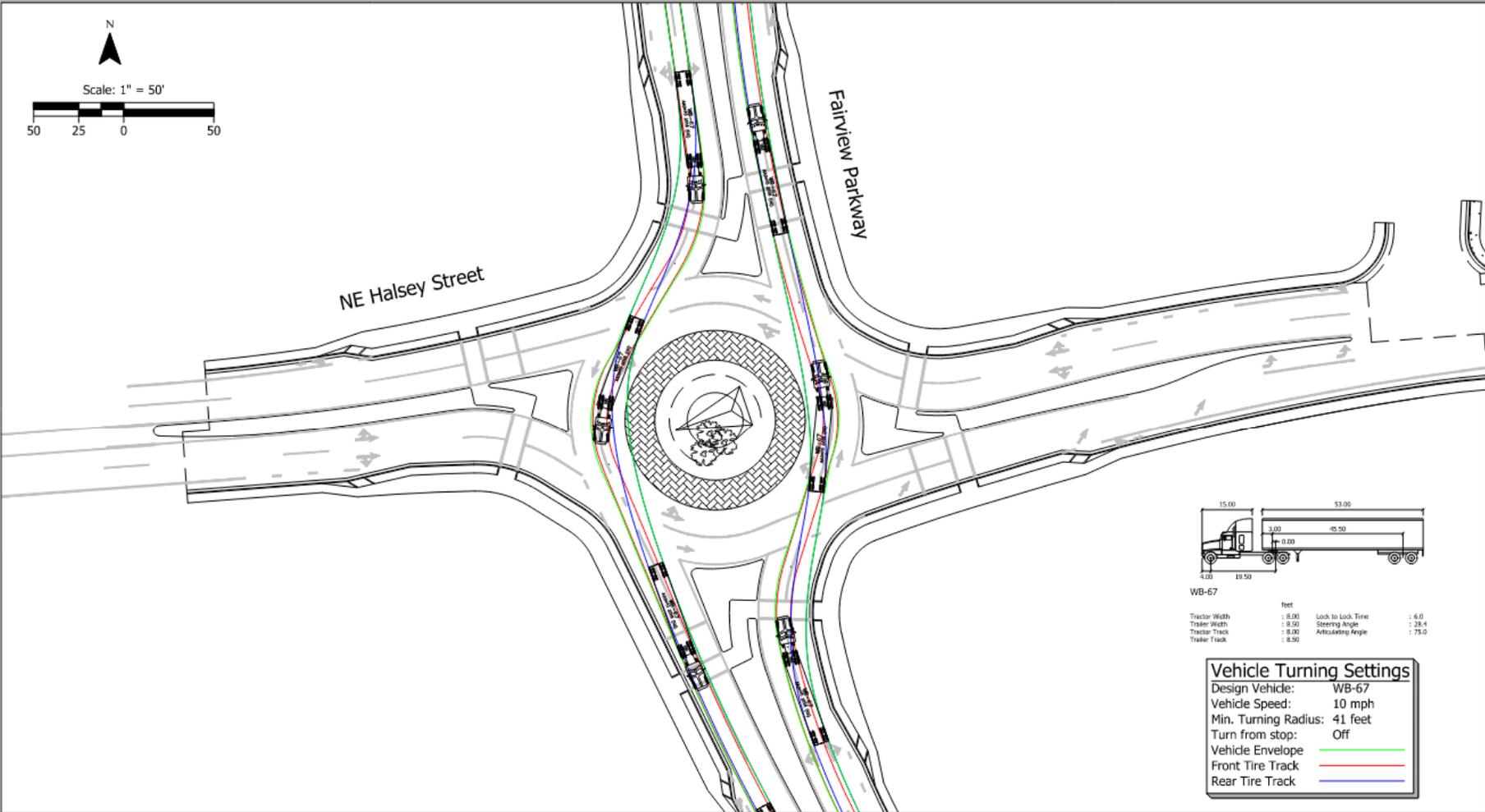
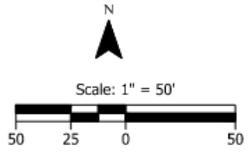
Source: *NCHRP Report 572: Roundabouts in the United States*

Where Are We Now?

- ▶ 30% roundabout design
 - ▶ Geotechnical analysis
 - ▶ Hazardous Materials Assessment
 - ▶ Landscape concept update
 - ▶ Review of utility impact and coordination
 - ▶ Coordination with TriMet to enhance bus stops in project area
 - ▶ Roundabout design checks and documentation memorandum
 - ▶ Design drawing of proposed improvements

Design Vehicle: WB-67 NBT and SBT

Preliminary Design Subject to Change
Date: February 19, 2021



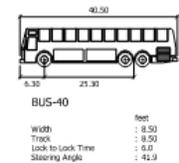
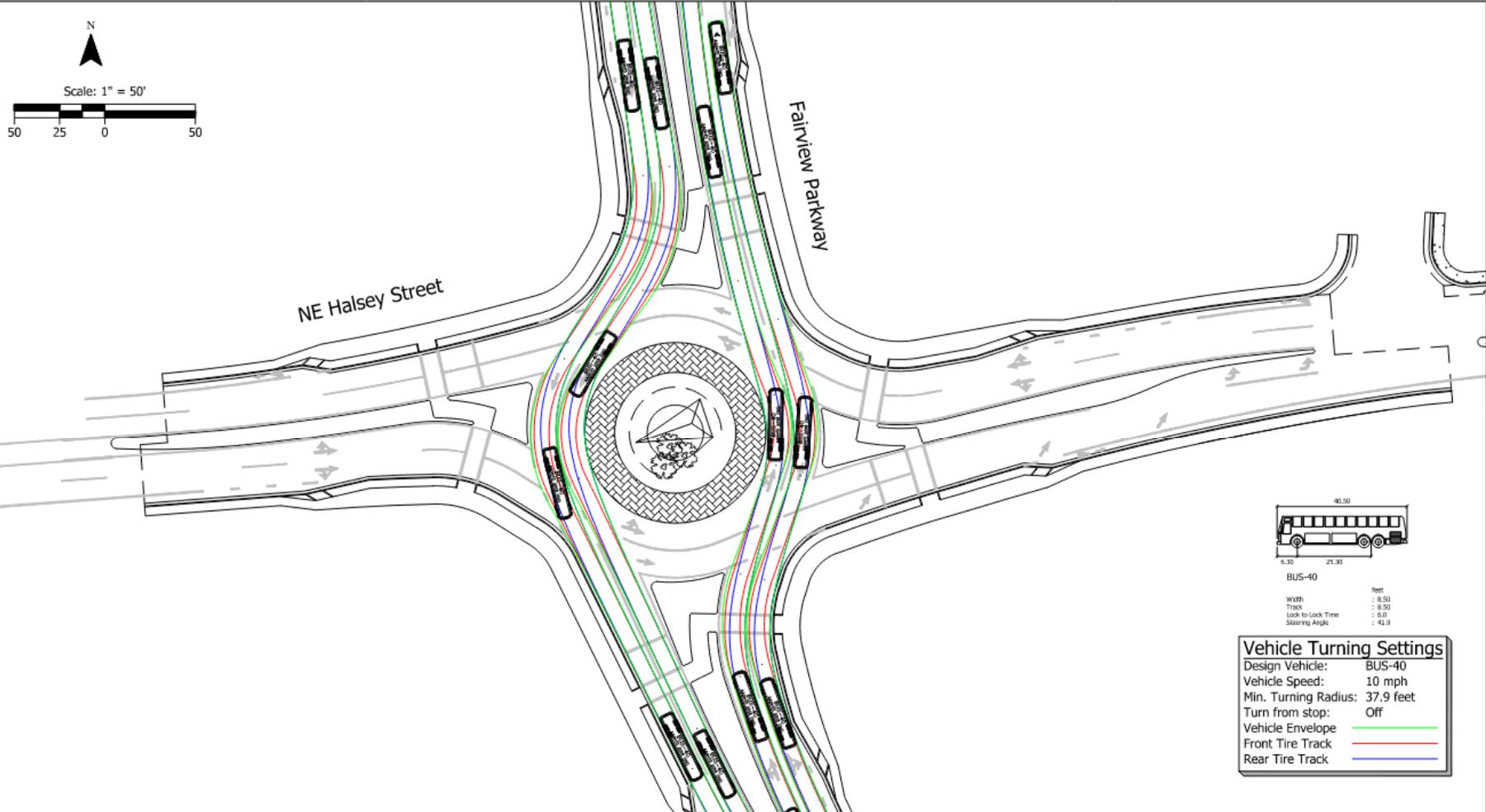
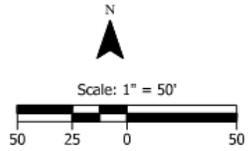
WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

Vehicle Turning Settings	
Design Vehicle:	WB-67
Vehicle Speed:	10 mph
Min. Turning Radius:	41 feet
Turn from stop:	Off
Vehicle Envelope	— Green
Front Tire Track	— Red
Rear Tire Track	— Blue

Design Vehicle: 40-foot Bus NBT and SBT

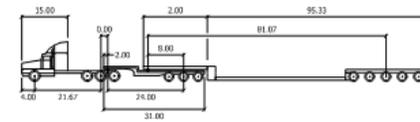
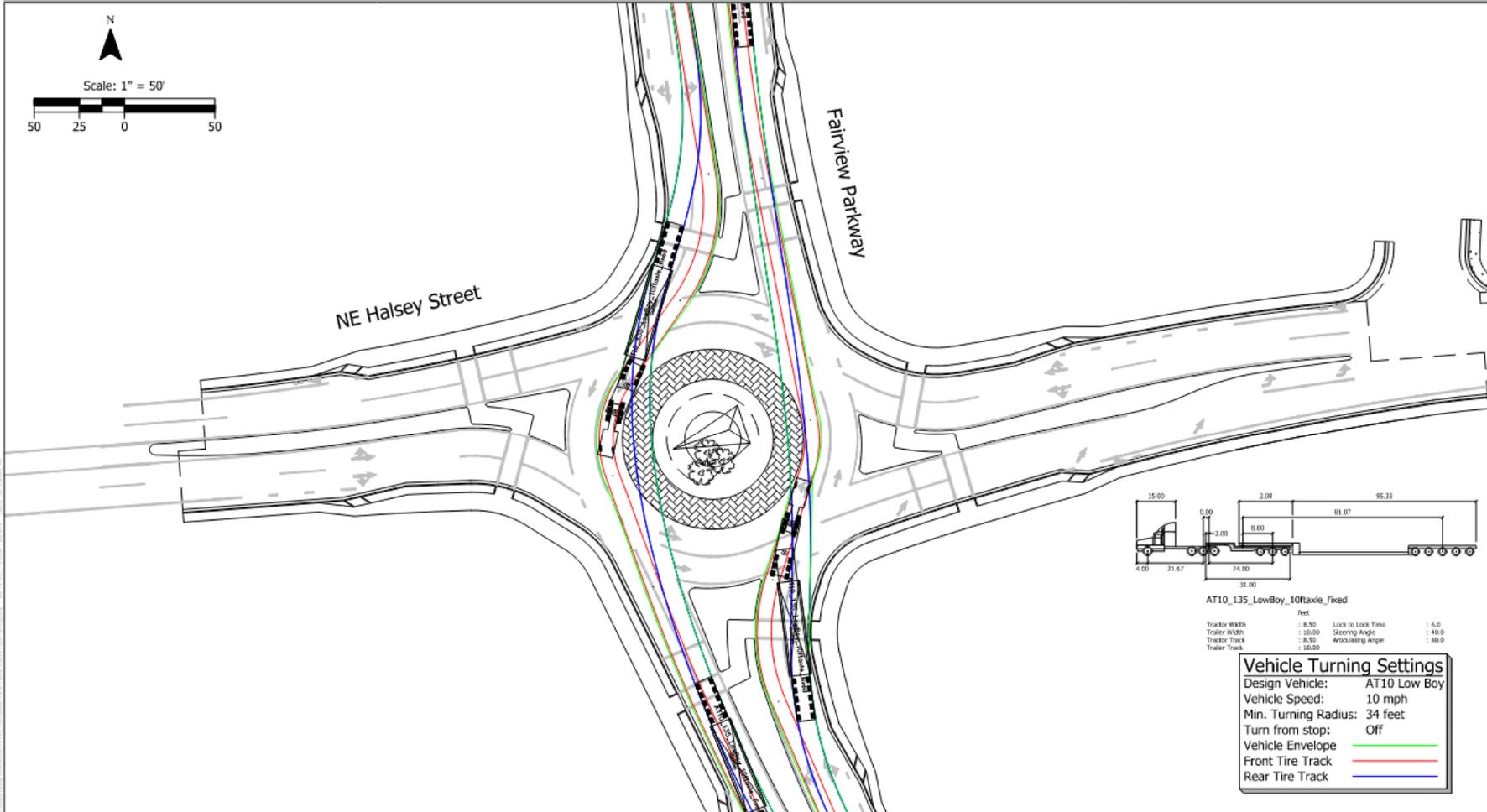
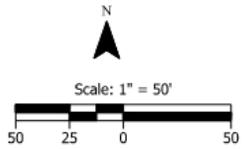
Preliminary Design Subject to Change
Date: February 19, 2021



Vehicle Turning Settings	
Design Vehicle:	BUS-40
Vehicle Speed:	10 mph
Min. Turning Radius:	37.9 feet
Turn from stop:	Off
Vehicle Envelope	— Green
Front Tire Track	— Red
Rear Tire Track	— Blue

Oversized Vehicle: AT10 Low Boy

Preliminary Design Subject to Change
Date: February 19, 2021



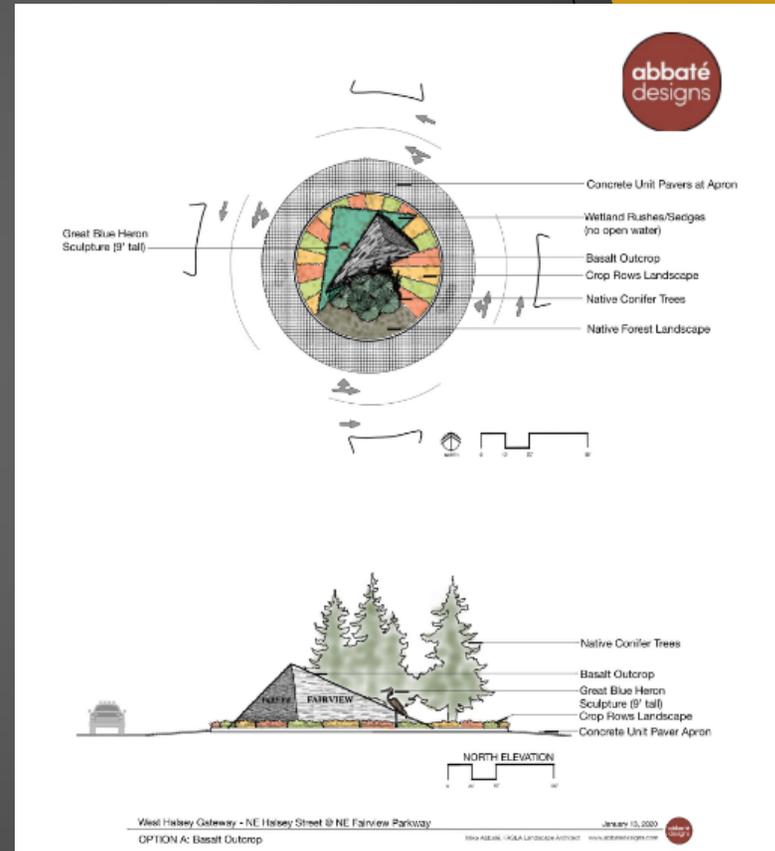
AT10_L35_LowBoy_10Axle_fixed

feet	
Tractor Width	: 8.50
Trailer Width	: 10.00
Tractor Track	: 8.50
Trailer Track	: 10.00
Lock to Lock Time	: 6.0
Steering Angle	: 45.0
Articulating Angle	: 80.0

Vehicle Turning Settings	
Design Vehicle:	AT10 Low Boy
Vehicle Speed:	10 mph
Min. Turning Radius:	34 feet
Turn from stop:	Off
Vehicle Envelope	—
Front Tire Track	—
Rear Tire Track	—



How will it look?



Next Steps

- ▶ TSP update (both City and County) to get Roundabout in to TSP. Helps position project for grant funding. Timeline 3 months minimum.
- ▶ Design team moves forward to prepare final design plans.

Questions?

