



**Portland Streetcar Services:
Traction Power, Signals,
Communications, Fare
Collection, O&M Facility**

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Traction Power

- Commercial AC supply (480Vac)
- 750 Vdc Distribution
- Small, closely-spaced substations
 - Line: 300 kW; Shop: 250kW
 - Avg. 2,600' spacing
- Fixed Trolley Wire
- Challenges crossing MAX



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Signals/Communications

- MAX crossings interlocked
- 'Green Wave' traffic signals
- Limited TWC for several intersections
- Existing radio system
- NextBus

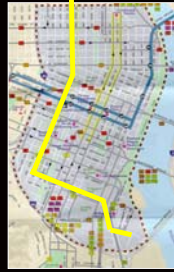


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Fare Collection

- TriMet fare structure
- Much of route in 'Fareless Square'
- Self-service, POP
- Simple, on-board TVMs and validators



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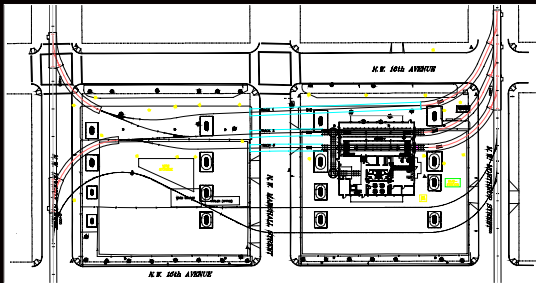
Fare Collection



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O & M Facility



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O & M Facility

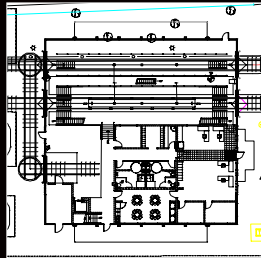


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O & M Facility

- Storage, cleaning, inspection, light repairs
- Yard: 3 tracks, 10 cars (max)
- Shop: 7,500 sf
- 2 tracks, 1 pit each
 - Work platforms
 - Overhead cranes
 - Portable jacks
- Ext. wash track



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O & M Facility



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