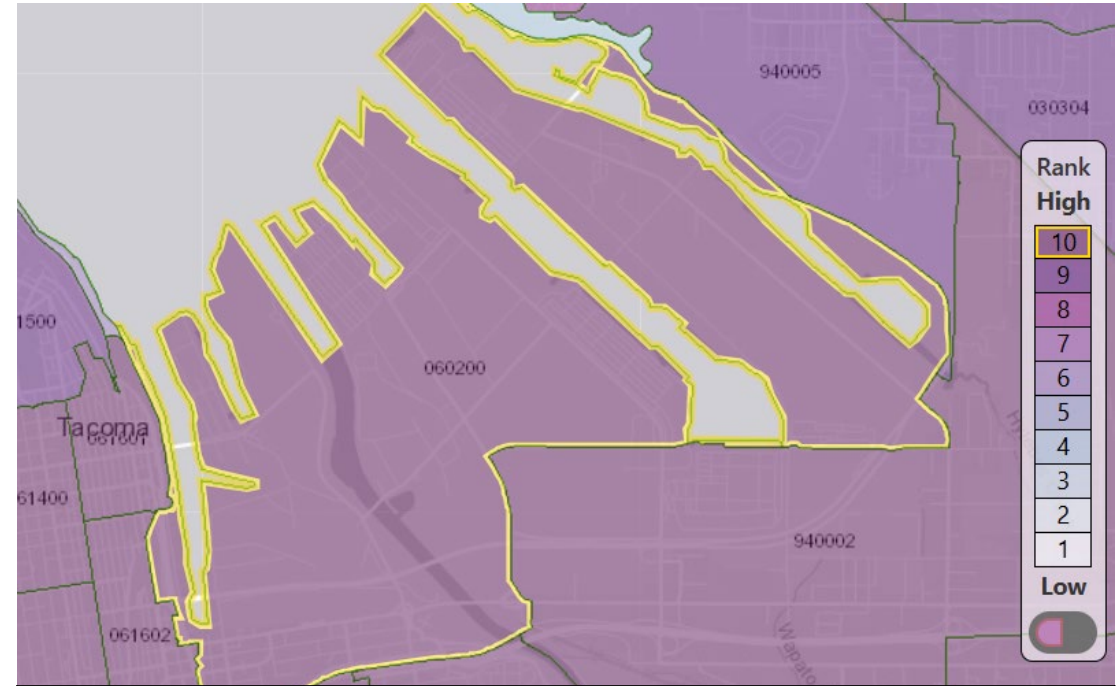


Battery Electric Locomotives (BEL)

August 2026

Purpose

- Reduce Tacoma Rail's reliance on fossil fuels
 - Up to 65,000 gallons per year saved
- Tacoma Rail operations occur within the highest index (10/10) for diesel pollution and disproportionate health impacts of overburdened communities
 - WA Dept. of Health [Environmental Health Disparities Map](#)
- Supports
 - [City of Tacoma Climate Action Plan](#)
 - [Northwest Ports Clean Air Strategy](#)
 - [Puget Sound Regional Council Vision 2050](#)
- Reductions in chart per FRA Locomotive Emissions Comparative Tool



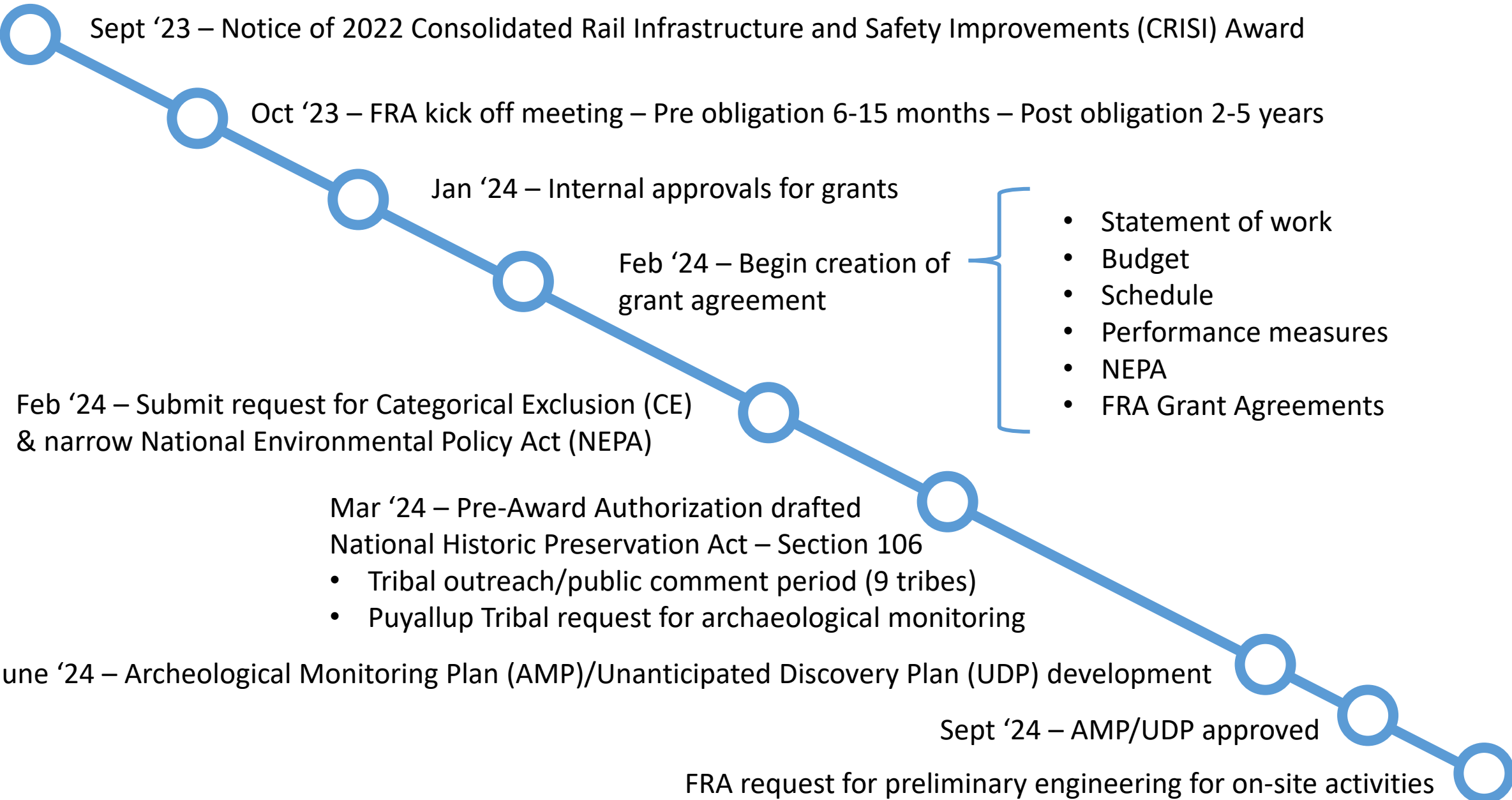
Reductions in Air Pollutants (short tons/year)	
Carbon Monoxide (CO)	1.840
Nitrogen Oxides (NO _x)	12.667
Particulate Matter ≤2.5 μm (PM _{2.5})	0.429
Particulate Matter ≤10 μm (PM ₁₀)	0.442
Volatile Organic Compounds (VOC)	1.069
Reductions in Greenhouse Gases (metric tons/year)	
Carbon Dioxide (CO ₂)	192.000
Carbon Dioxide Equivalents (CO ₂ e)	197.849
Methane (CH ₄)	0.048
Nitrous Oxide (N ₂ O)	0.016

Funding

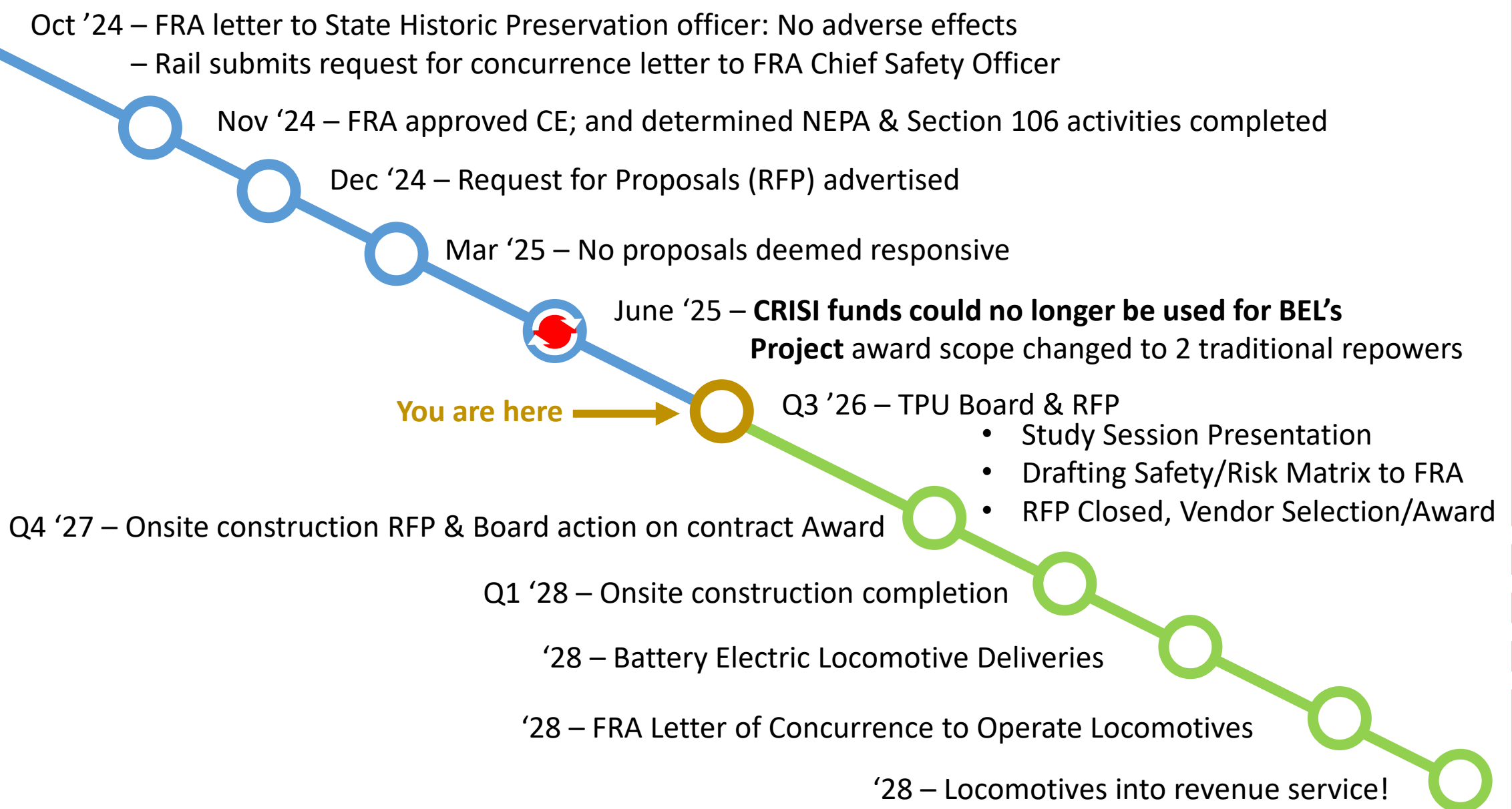
- Two 2,000+ hp equivalent battery-electric locomotives
- Two charger base stations
- Total project cost estimate: \$14M
- Total grant funding: \$11.9M
- Tacoma Rail obligated for the difference ~\$2.1M

Funding Agencies	Amount	Source
CCA	\$4,950,000	State
VW Settlement/ECY	\$3,300,000	State
PSCAA CMAQ/FHWA	\$3,645,000	Federal

Historical Timeline



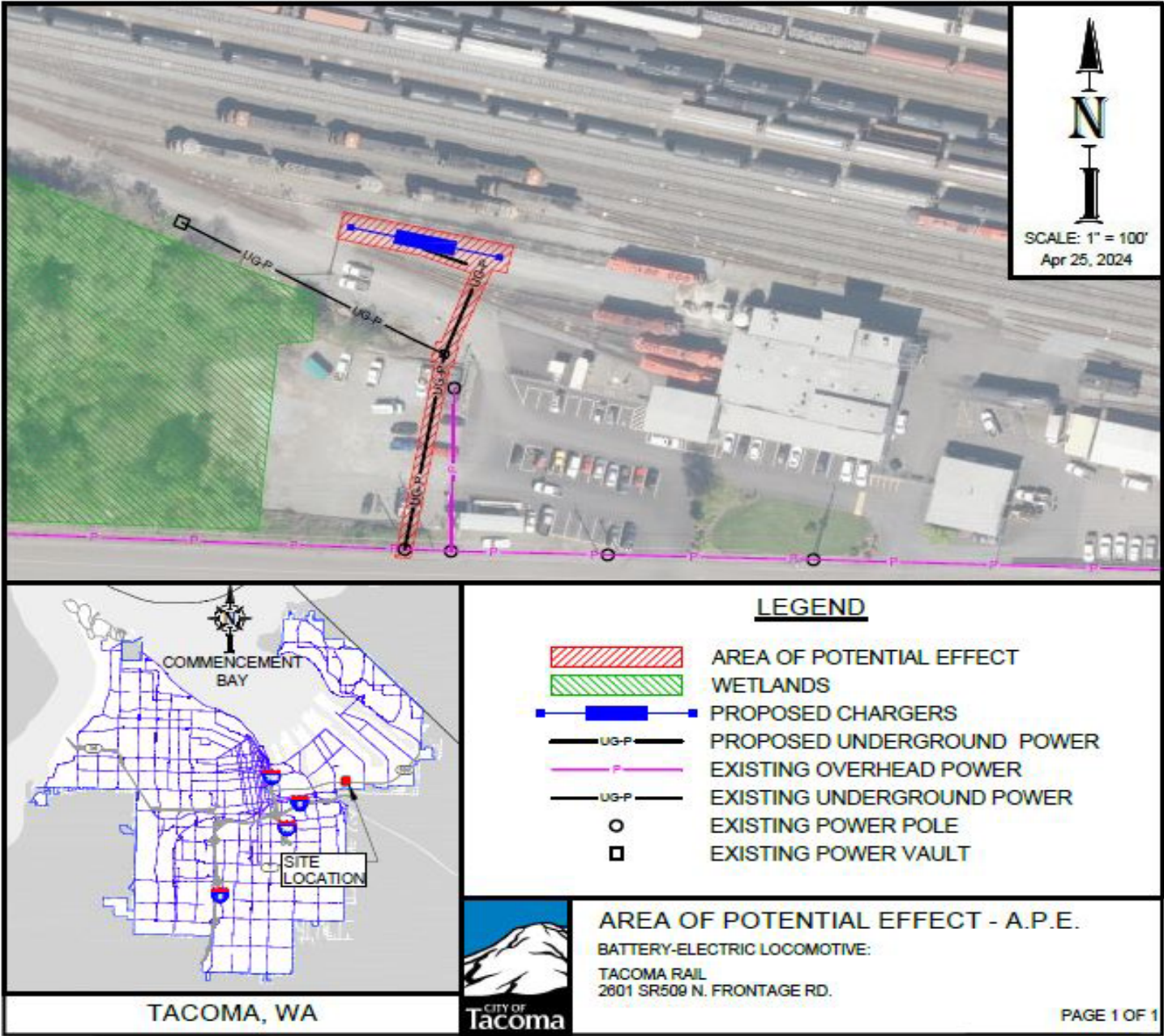
Current & Future Timeline



Recent Request For Proposal

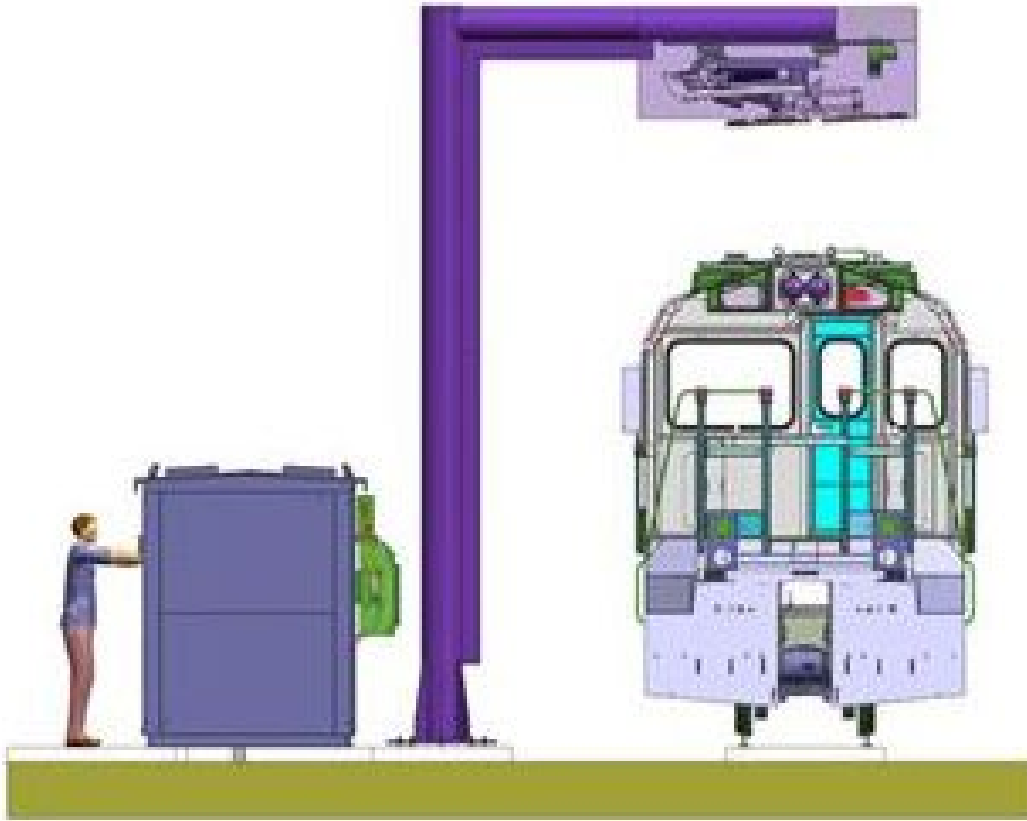
- 23 Companies were invited to submit proposals
- Scoring criteria included additional points if manufactured in WA
- Vendor specs
 - Expected duty cycle
 - Battery warranty period
 - Thermal Management
 - Battery system safety design
- Training to be provided:
 - Locomotive operation
 - Maintenance procedures
 - Battery system safety
 - Troubleshooting
 - Diagnostic software
 - Preventative maintenance

On-site Improvements

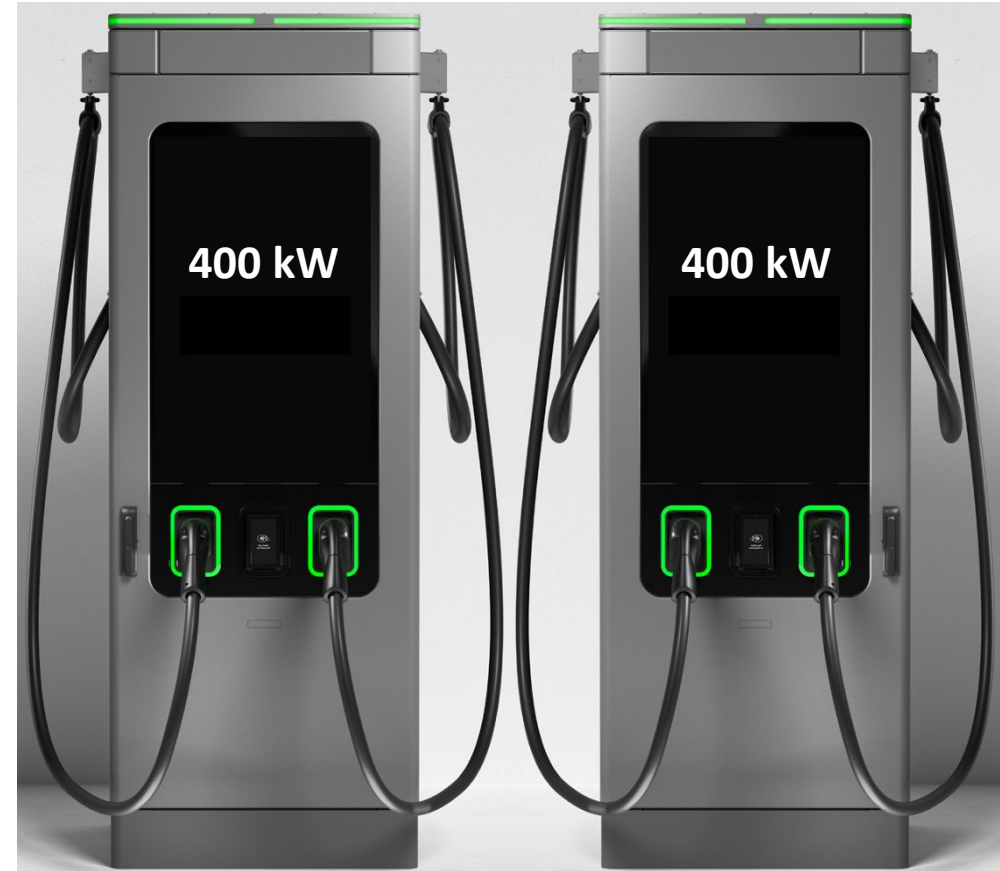


Charger Comparison

- Old configuration



- New configuration



Next Steps

- September 9, 2026 – Board action for Contract award to vendor
 - Down payment and Notice to Proceed
 - Refine project schedule
- Ongoing – Continue development and refinement of Safety Hazards Analysis documents for FRA Letter of Concurrence
- Q4-2027 – Develop RFP for on-site work to install charging stations
 - Construct – Note: Puyallup Tribe has approved Archeological Monitoring Plan (AMP) and Unanticipated Discovery Plan (UDP)
- 2028 – Deploy locomotives upon receipt of FRA's Letter of Concurrence.
 - Data collection & reporting requirements
 - Public Utility Board update