



Peninsula Corridor Electrification Project (PCEP) Tree Impacts and Mitigation – Town of Atherton

Atherton Town Council
July 19, 2017



Agenda

- PCEP Overview and Schedule Update
- Need for Tree Removal/Pruning
- Environmental Impact Report (EIR) Mitigation
- Review of Tree Impacts
- Tree Replacement Plan
- Next Steps
- Questions and Answers



Caltrain Modernization Program

Peninsula Corridor Electrification Project



Project Description

Area	Project	Service
51 miles San Francisco to San Jose (Tamien Station)	<p>Electrification:</p> <ul style="list-style-type: none">• Overhead Contact System (OCS)• Traction Power Facilities <p>Electric Trains (EMUs)</p> <ul style="list-style-type: none">• 75 percent of fleet	<p>Up to 79 mph</p> <p>Service Increase</p> <ul style="list-style-type: none">• 6 trains / hour / direction• More station stops / reduced travel time• Restore Atherton & Broadway service <p>Mixed-fleet service (interim period)</p> <p>Continue tenant service</p> <ul style="list-style-type: none">• ACE, Capital Corridor, Amtrak, Freight



Schedule

MILESTONES

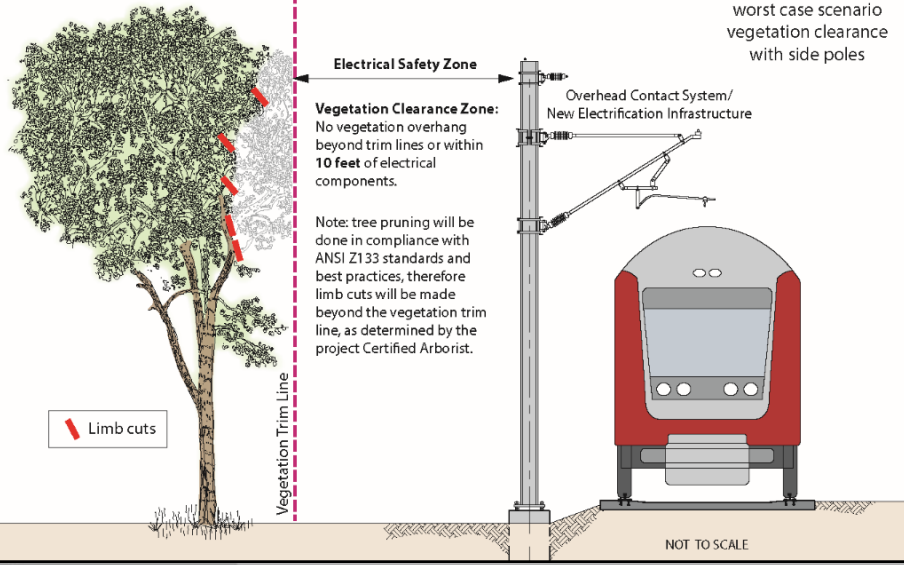


Note: Schedule Subject to Change



Need for Tree Removal/Pruning

Cross Section View

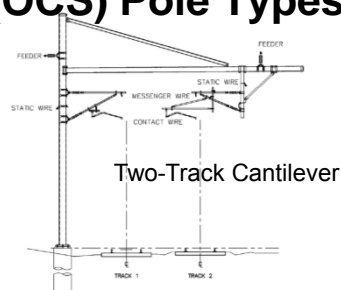


Note: This figure depicts worst case scenario vegetation clearance with side poles

Overhead Catenary Pole (OCS) Pole Types



Center Pole



Outside Pole

Environmental Impact Report (EIR) Mitigation

Tree Mitigation in the EIR (BIO-5)

- 100% Tree Survey
- Design to avoid/minimize tree removals where feasible via alternative pole designs: reduced offset side poles; double-cantilever side poles; center poles; portals
- Revised tree impact characterization
- Tree Replacement Plan:
 - Compensate for tree removals with new planting
 - As near to impact as feasible/maximum benefit
 - Inside and outside the right of way
 - In consultation with landowners and cities as to tree types and replanting locations

Review of Tree Impacts

PCEP Tree Impacts Overall

Description	Removal	Pruning
Draft EIR	2,220	3,616
Final EIR	995	3,186
Prelim. Design	516	2,547

- Draft EIR – Max 24' Electrical Safety Zone
- Final EIR – Max 21' Electrical Safety Zone
- Preliminary Design – Max 18' Electrical Safety Zone

All jurisdictions had reductions in tree removal counts from EIR to preliminary design

PCEP Tree Impacts – Atherton

Description	Removal	Pruning
Draft EIR	142	206
Final EIR	60	262
Prelim. Design	18	214

- Draft EIR – Max 24' Electrical Safety Zone
- Final EIR – Max 21' Electrical Safety Zone
- Preliminary Design – Max 18' Electrical Safety Zone

All jurisdictions had reductions in tree removal counts from EIR to preliminary design

PCEP Tree Impacts/Replacement – Atherton

Description	Removal	Pruning > 25%	Pruning <25%	Replacement
JPB ROW	16	10	24	26
Public ROW	2	8	20	11
Private	0	45	107	45

Replacement trees provided for tree removal and pruning >25%

Note: Impacts lower than in draft Tree Mitigation Plan shared with Town staff due to change to center poles near Holbrook-Palmer Park.

Tree Replacement Plan

Public Replacement Site



Legend

- Parcel
- City Limit
- Caltrain ROW
- Potential Tree Replanting Area
- Parks

300 Feet



graphics, CRESA/Bus DC, USGS, USGS, AEX, Getmapping, Aergrid, IGN, IGN, Swisstopo, and the

Tree Replacement

- Locations:
 - JPB ROW
 - Private Land
 - Public Land
- Tree Fund where space is not available
- Tree Types:
 - Native-for-native where feasible
 - No invasive species
 - Will provide list to Town and Private Owners

17

Monitoring and Maintenance

- Minimum 5-year maintenance and monitoring period
- Monitored on an annual basis by a professional arborist
- The JPB will maintain trees within the JPB ROW
- For trees outside the JPB ROW:
 - JPB responsible to maintain for first 5 years
 - If tree is successfully established after 5 years, then no further maintenance required
 - If unsuccessful, then JPB will either:
 - » replace tree (and provide additional 5 years of maintenance) and/or;
 - » extend maintenance period until successful
 - Once tree established, then all further maintenance will be responsibility of the landowner

18

Next Steps

19

Next Steps

- Draft Tree Mitigation Plan (June 2017)
- Tree Removal/Pruning (Summer 2017)
 - Notification 30 days in advance
 - From JPB ROW in most cases
 - On public property and private property where permission obtained
- Tree replacement will occur after completion of OCS installation

20



Questions and Answers

