

Coal Creek Bridge Replacement Project

Why replace the existing bridge?

SOLE ACCESS FOR RESIDENTS

- The bridge provides sole access to approximately 70 single-family homes and a Department of Fish and Wildlife boat launch on Lake Walker.
- The bridge is at risk of being closed due to age and condition which would be a major impact to the residents of this community.

SAFETY CONCERNS

- The existing bridge is weight and speed restricted.
- The existing bridge is structurally deficient, and many components are continuing to age and deteriorate.
- The existing bridge scores a low Sufficiency Rating of 9.68 out of 100 (National Bridge Inspection Standards).
- The existing road has some functional deficiencies with its width and alignment.

EXTENSIVE MAINTENANCE

- The existing 61-year-old timber support structure is decaying.
- The repurposed 107-year-old steel floor beams are severely rusting.
- Frequent and major repairs come at a high cost.

A permanent solution is necessary.



Decaying timber support structure



Peeling and flaking paint



Severely rusted steel floor beams



Creosote-treated timber piles in environmentally sensitive creek

Alternative 1:

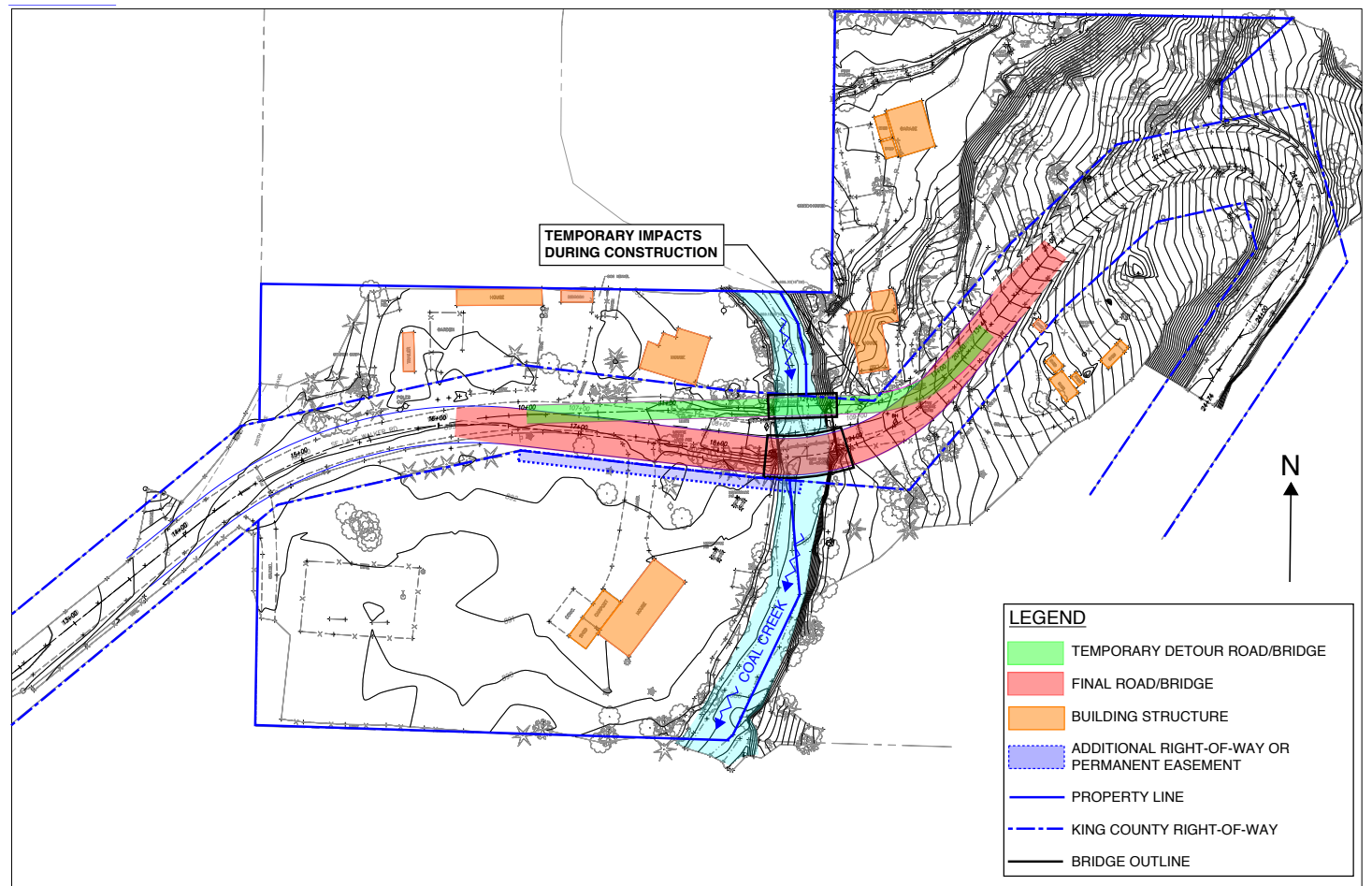
- New bridge at and slightly south/downstream of existing bridge location
- One-lane temporary road and bridge to the north/upstream with alternating traffic signal
- Project length = TBD
- Detour length = 350 feet

ADVANTAGES

- Shorter construction duration (6 months) than Alternative 3
- Lower construction costs than Alternative 3
- Small number of temporary easement impacts to adjacent properties

DISADVANTAGES

- Requires additional permanent right-of-way or permanent easement
- Requires temporary construction easement on north side
- Tree impacts



Alternative 2:

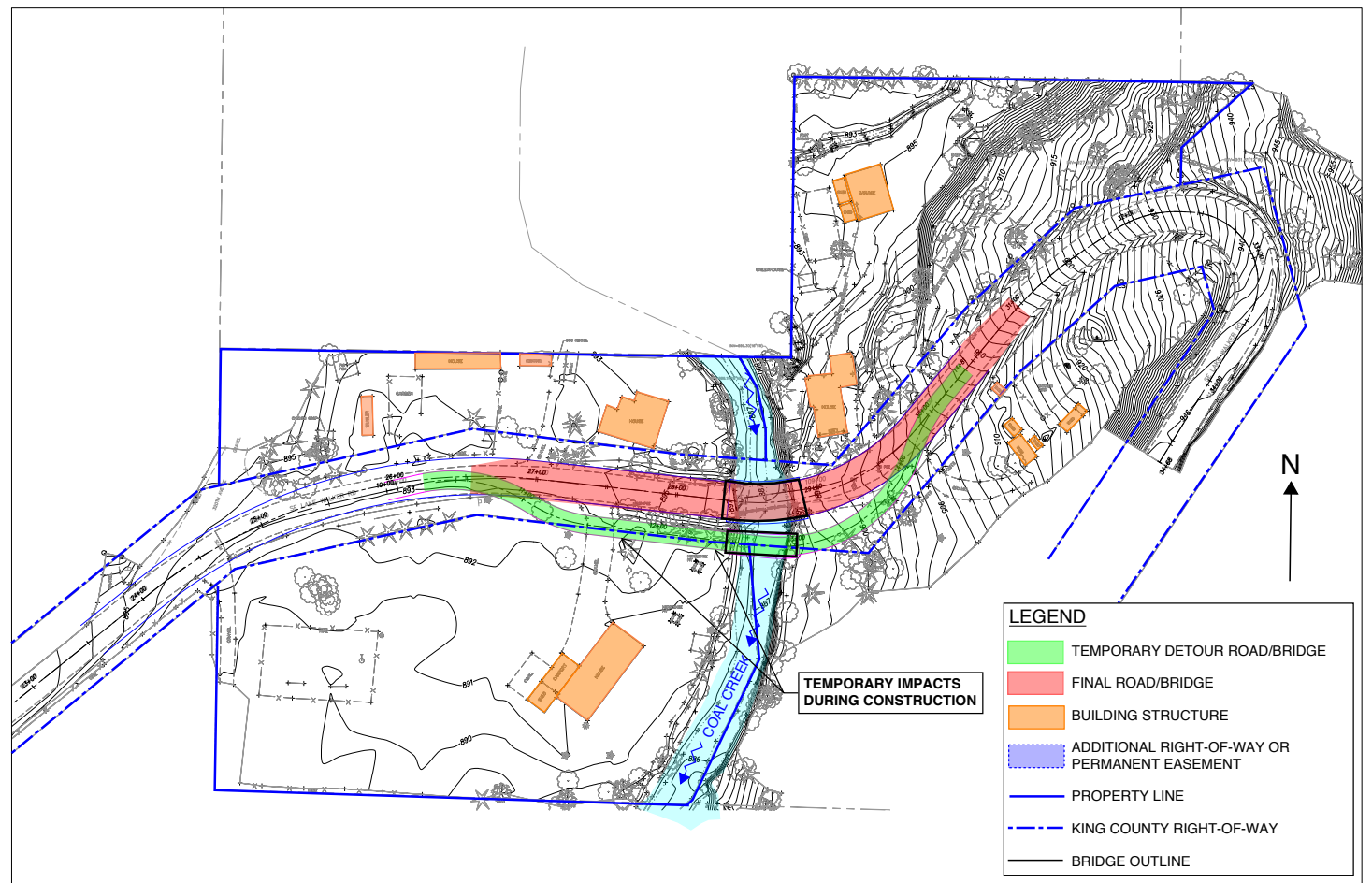
- New bridge at existing bridge location
- One-lane temporary road and bridge to the south/downstream with alternating traffic signal
- Project length = TBD
- Detour length = 500 feet

ADVANTAGES

- Shorter construction duration (6 months) than Alternative 3
- Lower construction costs than Alternative 3
- Does not require additional permanent right-of-way or permanent easement

DISADVANTAGES

- Requires largest temporary easement impacts to adjacent properties
- Tree impacts



Alternative 3:

- New bridge slightly south/downstream of existing bridge
- Existing bridge used as detour bridge
- New bridge constructed in phases
- Project length = TBD
- Detour length = 300 feet

ADVANTAGES

- Uses existing bridge as detour bridge
- No temporary easement impacts to adjacent properties

DISADVANTAGES

- Longest construction duration (8 months)
- Highest construction costs of the three alternatives
- Requires additional permanent right-of-way or permanent easement
- Tree impacts

