Tab 59

LAST CHANCE GRADE

California Transportation Commission



August 2021

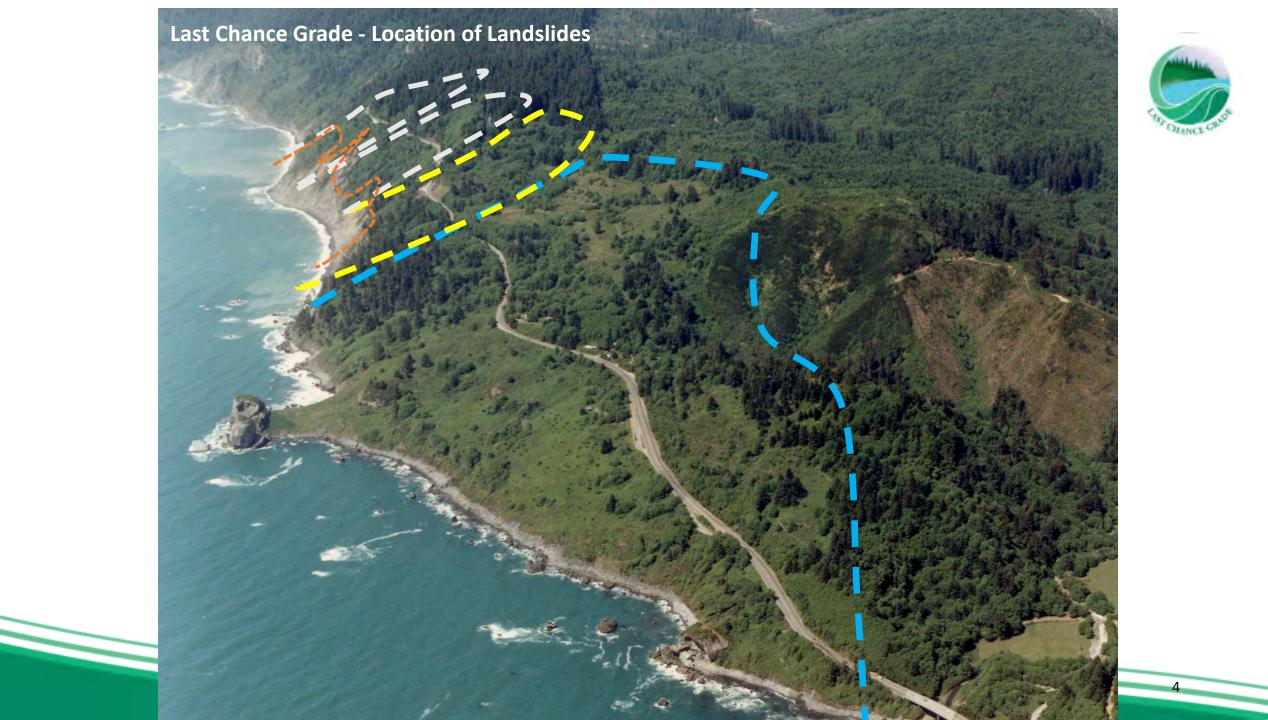
February 2021- Emergency Repairs for a Medium Slide

2

Hwy 101

2021 slide repairs



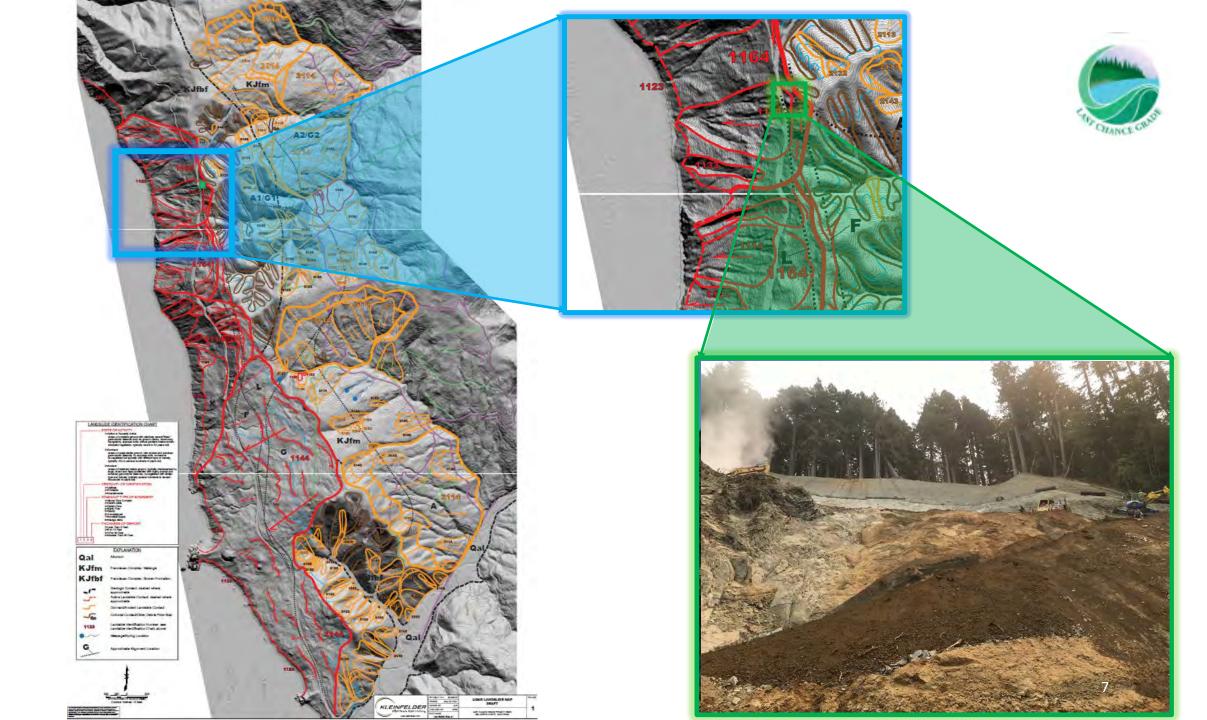




presentation overview

- Project Summary, Schedule, and Actions
- Alternatives for Further Study
- Questions









- An emergency closure of the current highway would require a 320-mile, 6-hour detour between Eureka and Crescent City
- Cost of one-year closure:
 - \$236M in travel costs
 - \$41M in foregone trips
 - 3,800 jobs lost
 - \$456M in reduced business output

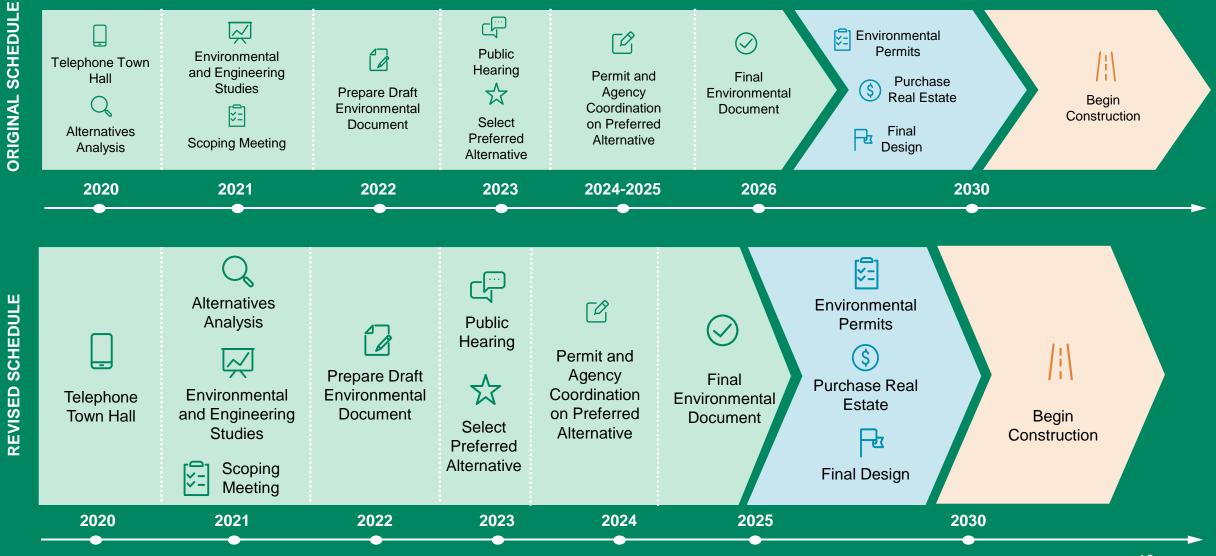
Objectives and Challenges

- 3 major objectives:
 - Long-term safe and reliable roadway
 - Reduce maintenance costs
 - Protect economy, natural and cultural resources
- 3 major challenges:
 - Environmental sensitivity and complexity
 - Maintaining partnerships
 - Understanding the geology
- 3 major risks:
 - Environmental litigation
 - Mitigation impasse
 - New geotechnical discoveries that delay project

Key Steps in the Environmental Process

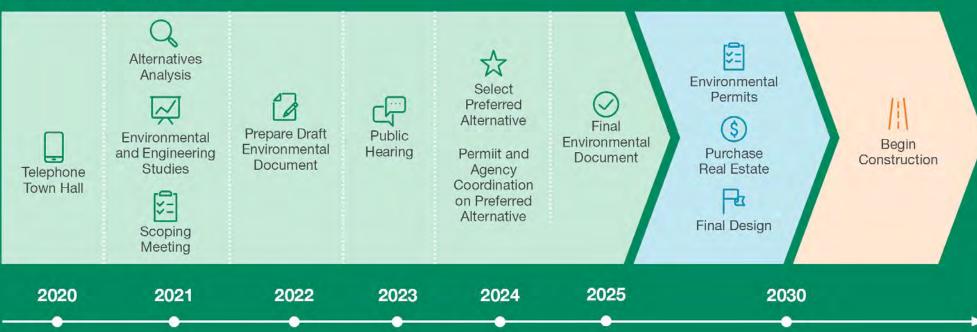
ENVIRONMENTAL PHASE

DESIGN PHASE CONSTRUCTION



ENVIRONMENTAL PHASE

DESIGN PHASE CONSTRUCTION



Since 2020 Commission Update:

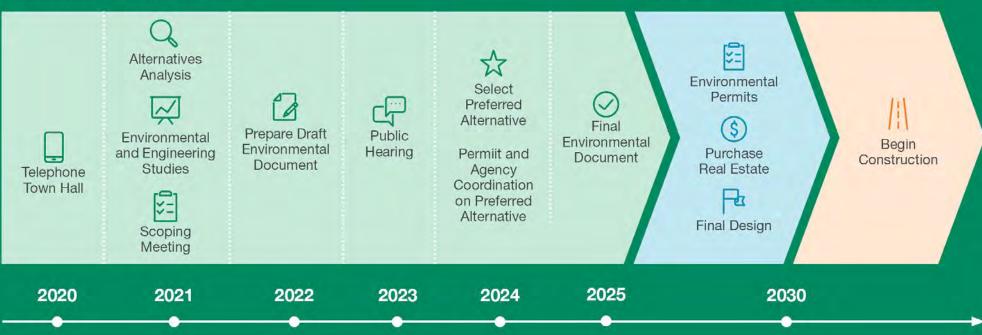
• Completed Alternatives Analysis-

Alternatives chosen for further study save a year on the schedule and \$10M in costs

- Completed Phase 4 of geotechnical studies
- Completed initial environmental, engineering studies on time

ENVIRONMENTAL PHASE

DESIGN PHASE CONSTRUCTION



Jun allance of

Project Budget

- CTC Approved full funding of the environmental phase in 2019
- PA&ED Budget: \$50M
- Current Expenditures: \$19M

LAST CHANCE GRADE PROJECT

101

Ж

F

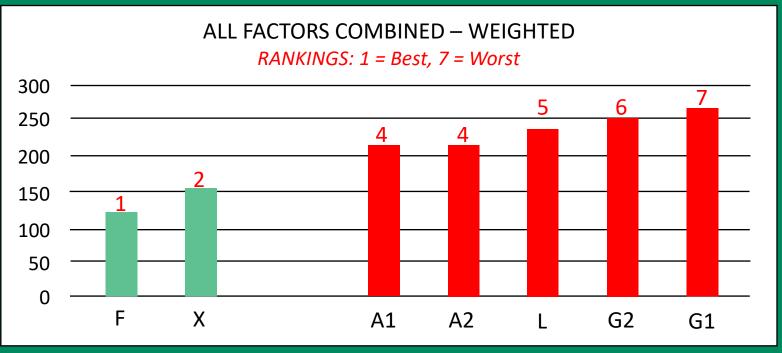
Project Alternatives

Routes

Highway 101 Alternative F Alternative X

Alternatives Analysis and Results

- Analyzed 7 build alternatives based on criteria and performance measures
 - 4 stakeholder working groups provided input through a series of 3 workshops
- Result: Alternatives F and X rose to the top
 - Other 5 eliminated from further study at this time







« OBITUARY: Phyllis Darlene Brown, 1933-2021

Beware of Ticks and Stay on Designated Trails, City of Arcata Reminds You »

THE ECONEWS REPORT / SATURDAY, JUNE 5 @ 10 A.M. / ENVIRONMENT

ECONEWS REPORT: Enviros Cheer Caltrans? Last Chance Grade Planning Gets High Marks from the EcoNews



Photo: Caltrans.



TOM WHEELER / FRIDAY, APRIL 30 @ 2:25 P.M. / GUEST OPINION

GUEST OPINION: As Someone Who Has Two Active Lawsuits Against Caltrans, Let Me Say That Caltrans is Doing a Great Job With Last Chance Grade

www.lastchancegrade.com

LAST CHANCE GRADE PROJECT

Project Alternatives

Routes

Highway 101
Alternative F
Alternative X

101

Ж

Alternatives for Further Study



- Alternative F
 - Avoids landslide with tunnel bypass
 - Higher-cost but has lowest risk and environmental impacts
- Alternative X

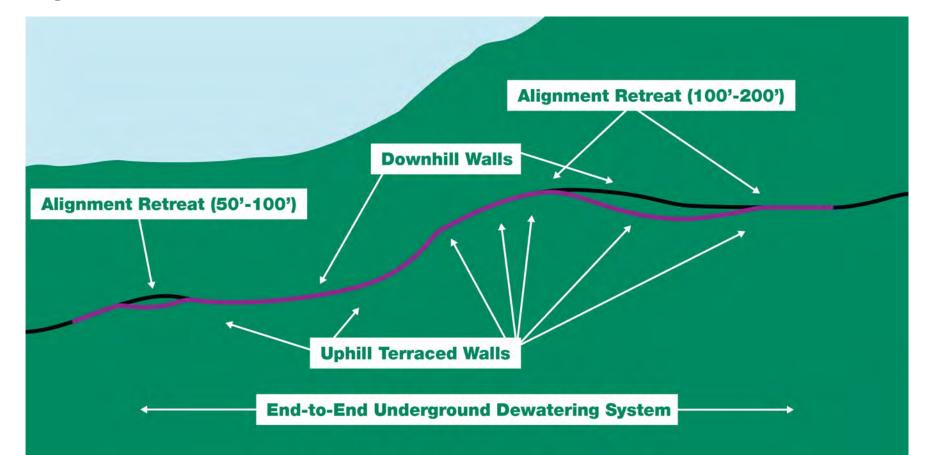
F

101

- Mitigates the landslide
- Lower-cost but higher-risk

Alternative X: Realign and Strengthen

- Notably distinct from current system of emergency repairs to current alignment – from reactive to proactive
- Purpose-built engineering solutions from end to end to help stabilize road, mitigate landslide

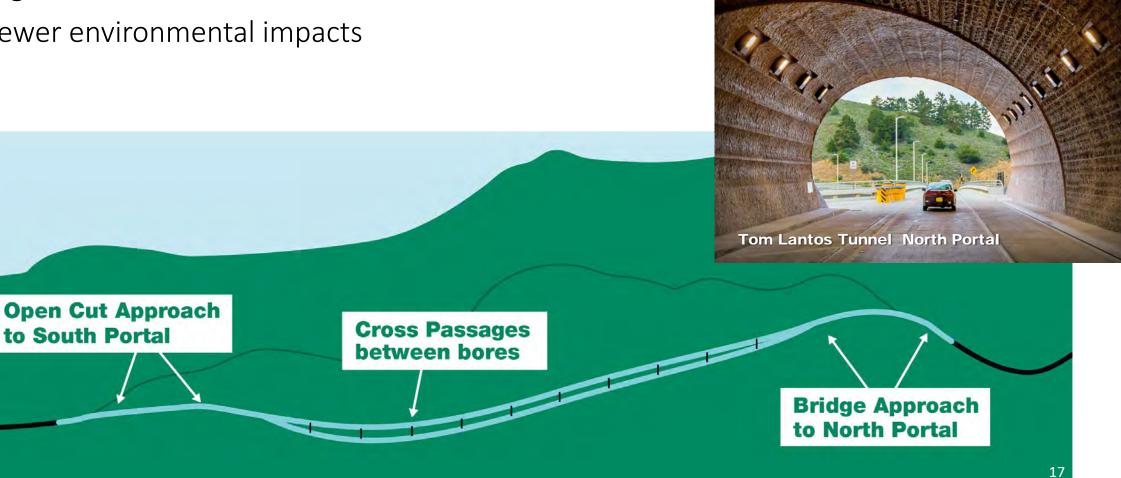




Alternative F: Tunnel Bypass

- Tunnel alignment avoids landslide \bullet
- Higher-cost but lower-risk
- Fewer environmental impacts \bullet





LAST CHANCE GRADE

California Transportation Commission



August 2021