

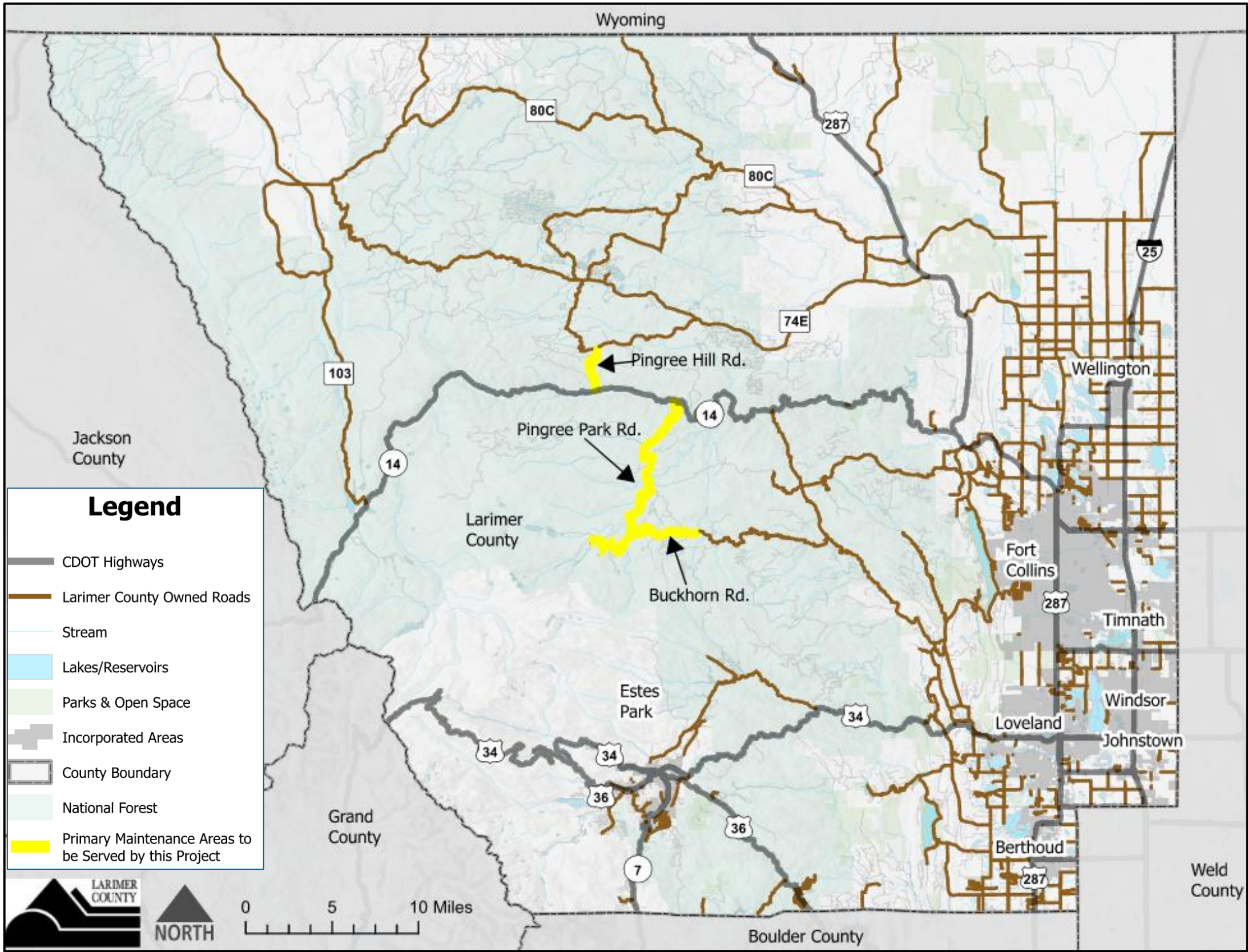
LARIMER COUNTY'S AGGREGATE STRATEGY

The Responsibility

Larimer County is responsible for over 400 miles of non-paved roads. More than 200 miles are in the western third of the County.

The Challenge: Residents, businesses, recreators and emergency services depend on these roads daily. Maintaining them requires a constant, reliable supply of gravel aggregate.

The Goal: Secure aggregate for 50 years of reliable roadway maintenance.



Western Larimer County contains over 400 miles of non-paved roads requiring maintenance

The Solution: Geographically Dispersed Quarries

Rather than hauling materials from a single quarry on the Front Range over 50 miles away, Larimer County’s strategy is to establish small, geographically dispersed quarries located close to the roads that need maintenance.

Efficiency
~ 30% average cost savings (approx. \$110,000 saved per mile of maintenance) ♦ Buffer against price fluctuations ♦ Control of quality.

Sustainability
Shorter haul distances means fewer truck miles & reduced greenhouse gas emissions.

Limited Impacts
Small local quarries prevent any single community from bearing the burden of long-distance haul traffic.

Resiliency
Staging materials across Larimer County ensures quick access to roadway materials during natural disasters.

Strategy in Action: The County Rd. 44H Project

The proposed CR 44H quarry is a direct application of this County-wide strategy. By using an already-disturbed, dormant 2-acre quarry on CSU land and expanding it responsibly, the County secures local materials for nearby mountain roads while enforcing wildlife and recreation protection plans and a guaranteed reclamation plan.



Questions? Comments? email aggregate@co.larimer.co.us
Learn more: larimer.gov/roads/aggregate



COUNTY RD. 44H QUARRY PROJECT SUMMARY

Project Profile: Key Facts

Location & Scale

- **Property:** Colorado State University (CSU).
- **Size & Footprint:** 10 acres; overlaps with disturbed and dormant 2.5-acre quarry.
- **Distances from closest edge of Quarry:**

Stormy Peaks Trail: 200 ft	Tom Bennett Campground: 800 ft
CSU Mountain Campus: 1,300 ft (nearest bldg.)	Nearest Residence: 1,950 ft

Operations & Schedule

- **Lifespan:** 15-years.
- **Schedule:** Standard weekday daytime hours; no weekend work.
- **Activity:** Intermittent and seasonal; on-site processing; hauling as needed.
- **Wildlife Protection:** Site closure Dec 1 – April 30.
- **Staffing:** Utilizes existing County crews and equipment.

Material Destination & Reclamation

- **Target Roads:** Pingree Park Road | Sections of Buckhorn Road | Pingree Hill Road
- **Reclamation:** Quarry walls will be softened, reshaped and revegetated with native grasses and forbs.
- **Future Use of Quarry Floor:** CSU materials storage, outdoor classrooms, and overflow space.

Project Benefits

Cost, Asset & Quality Control

- **More Economical Sourcing:** Less expensive than hauling gravel 50+ miles from the Front Range.
- **Price Protection:** Owning aggregate protects against commercial price fluctuation.
- **Quality Control:** Larimer County controls the quality of the aggregate.
- **Existing Resources:** No new personnel or equipment will be added for this project.
- **Long-term Planning:** Extends the operational lifespan of Larimer County's Strang Pit.

Smaller Environmental Footprint

- **Strategic Historic Location:** Redeveloping part of a dormant quarry reduces impacts to undisturbed land.
- **Emissions Reduction:** Minimizing haul distances reduces County-wide truck traffic, roadway wear-and-tear, fuel consumption, and greenhouse gases.

Safety & Improved Access

- **Improved Road Surface:** Creates durable, long-lasting mountain roadways
- **Faster Response Times:** Decreased response times for emergency vehicles.
- **Emergency Resilience:** Pre-staged materials allows rapid repairs after natural disasters..
- **Reliable Travel:** Improved driving experience for residents, recreators, and CSU Mountain Campus visitors or employees.
- **Operational Efficiency:** Improved, all-weather surface allows improved snow removal and dust suppression, and fewer spot repairs.

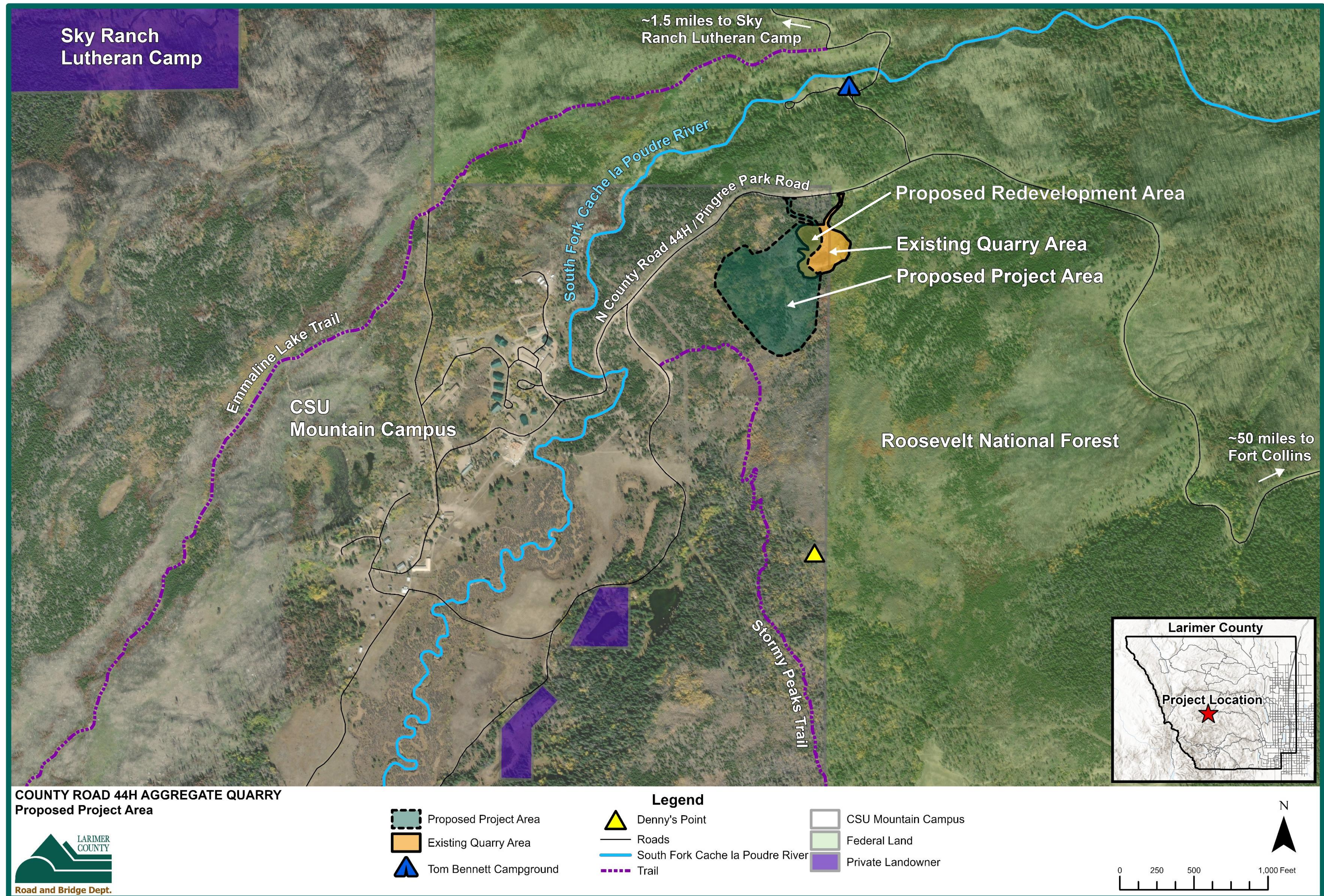


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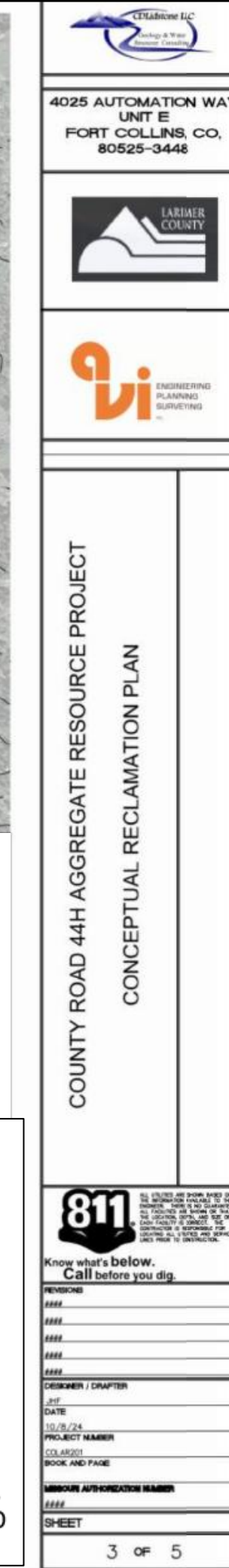
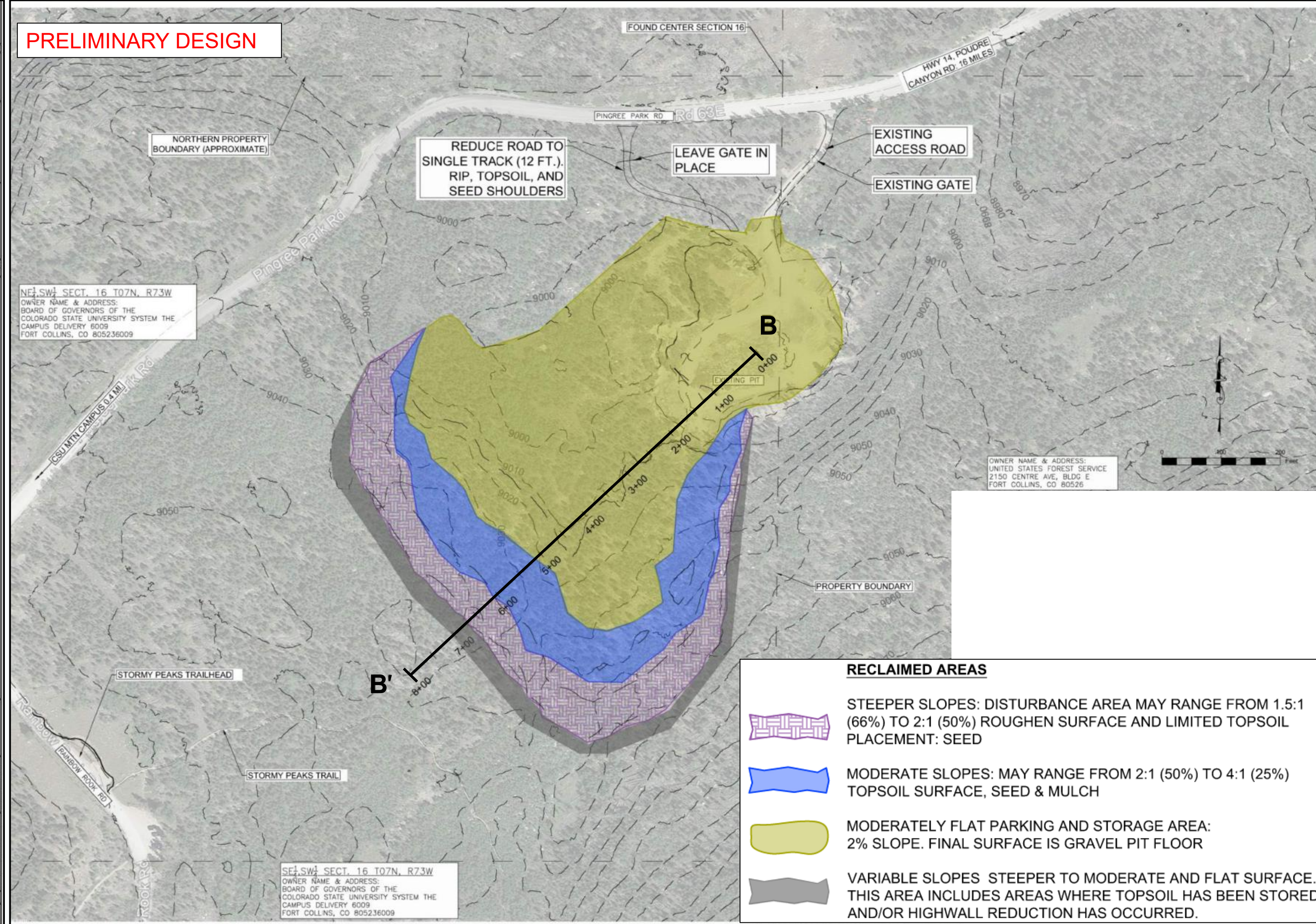
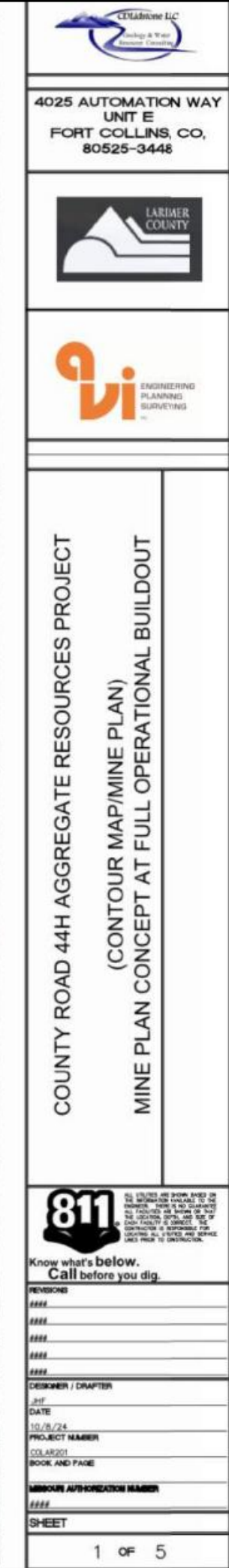
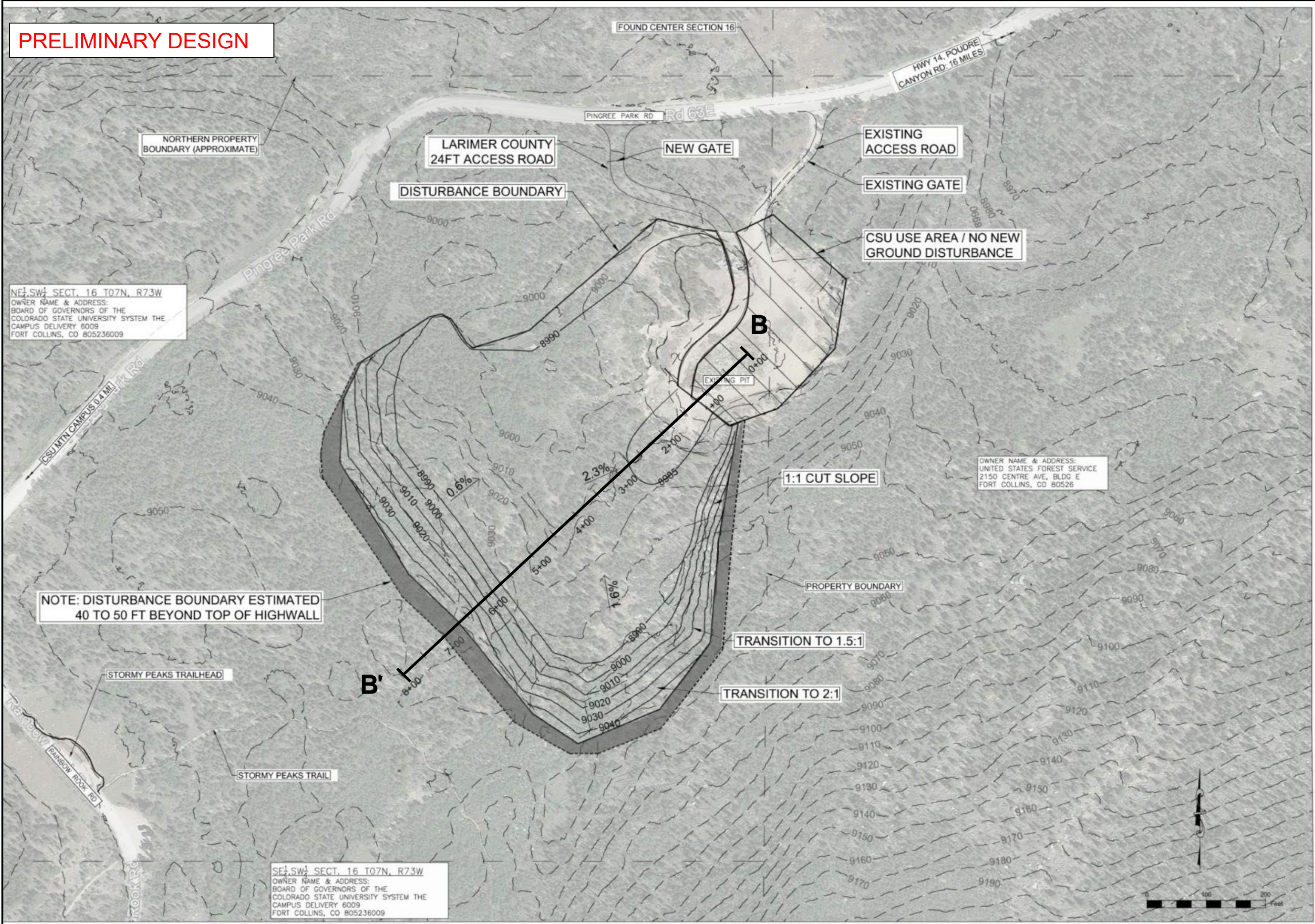
Learn more: <https://www.larimer.gov/roads/aggregate/county-road-44h-aggregate-quarry>



LOCATION MAP

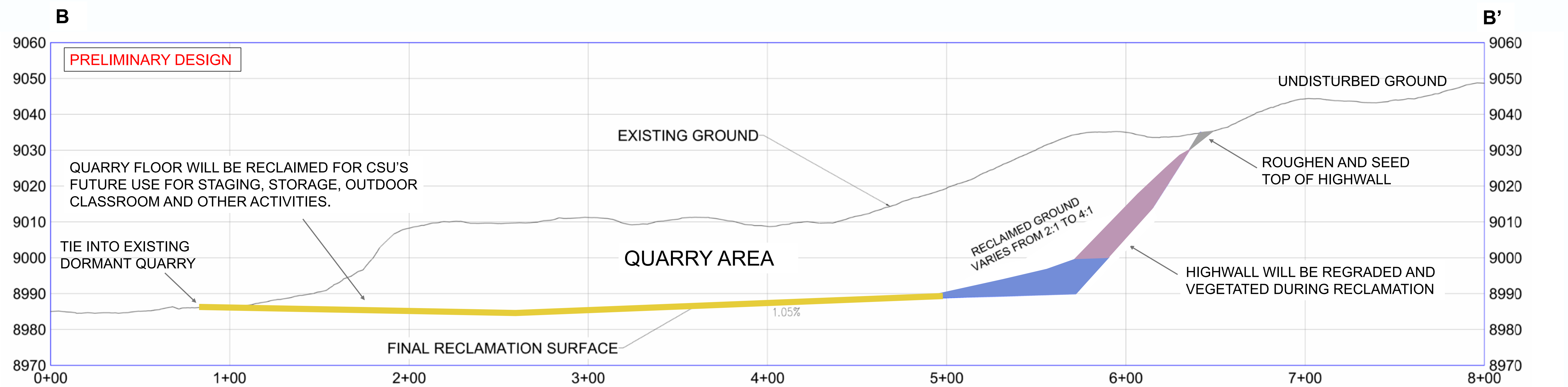


PROJECT DESIGN CONCEPT



QUARRY PLAN

RECLAMATION PLAN



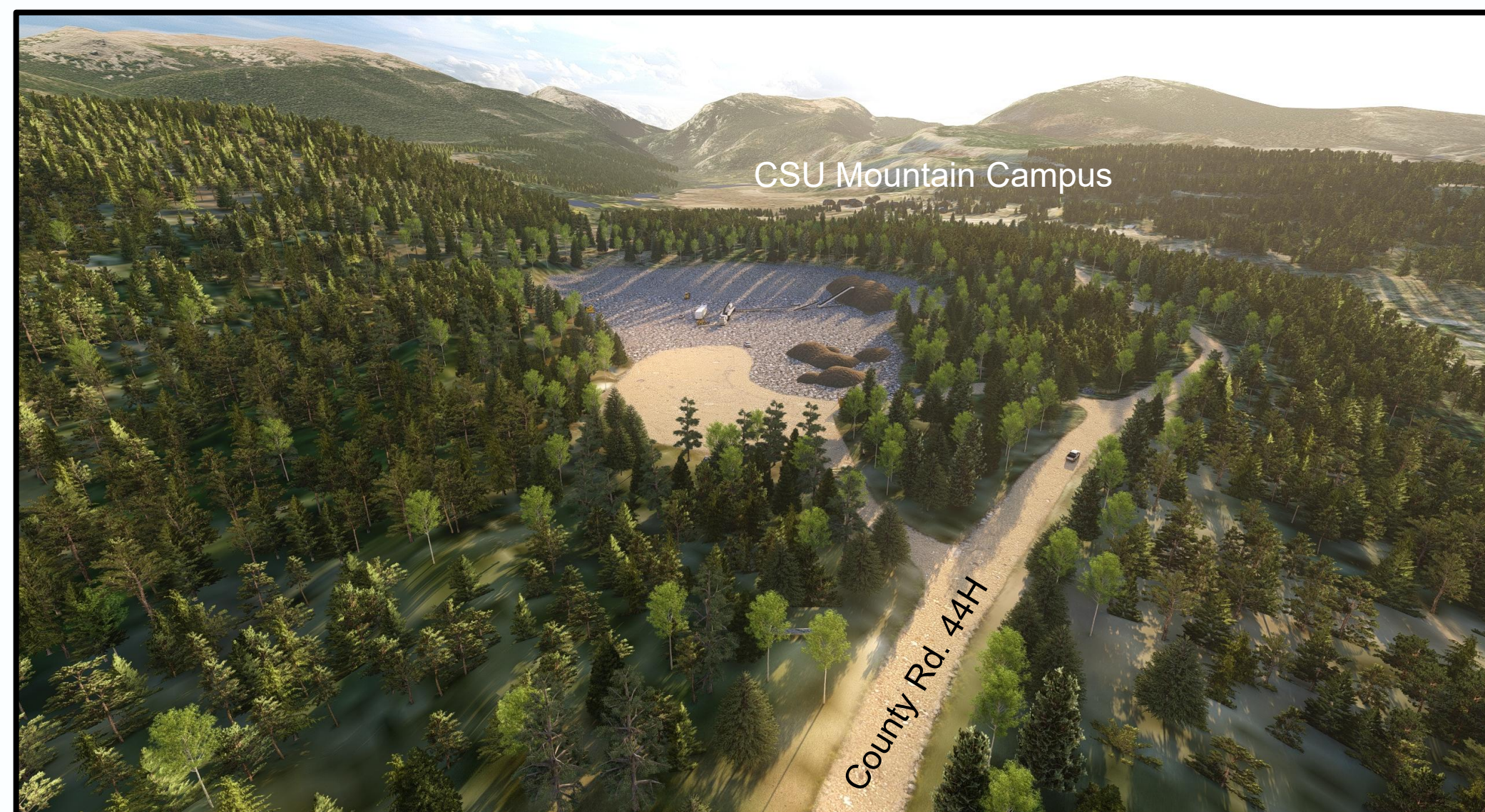
CROSS SECTION B-B' THROUGH ACTIVE AND RECLAIMED QUARRY

PROJECT RENDERINGS

QUARRY OPERATIONS



Rendering of mobile aggregate processing operation



Aerial perspective showing proximity to road and Mountain Campus



Ground level perspective of quarrying operations

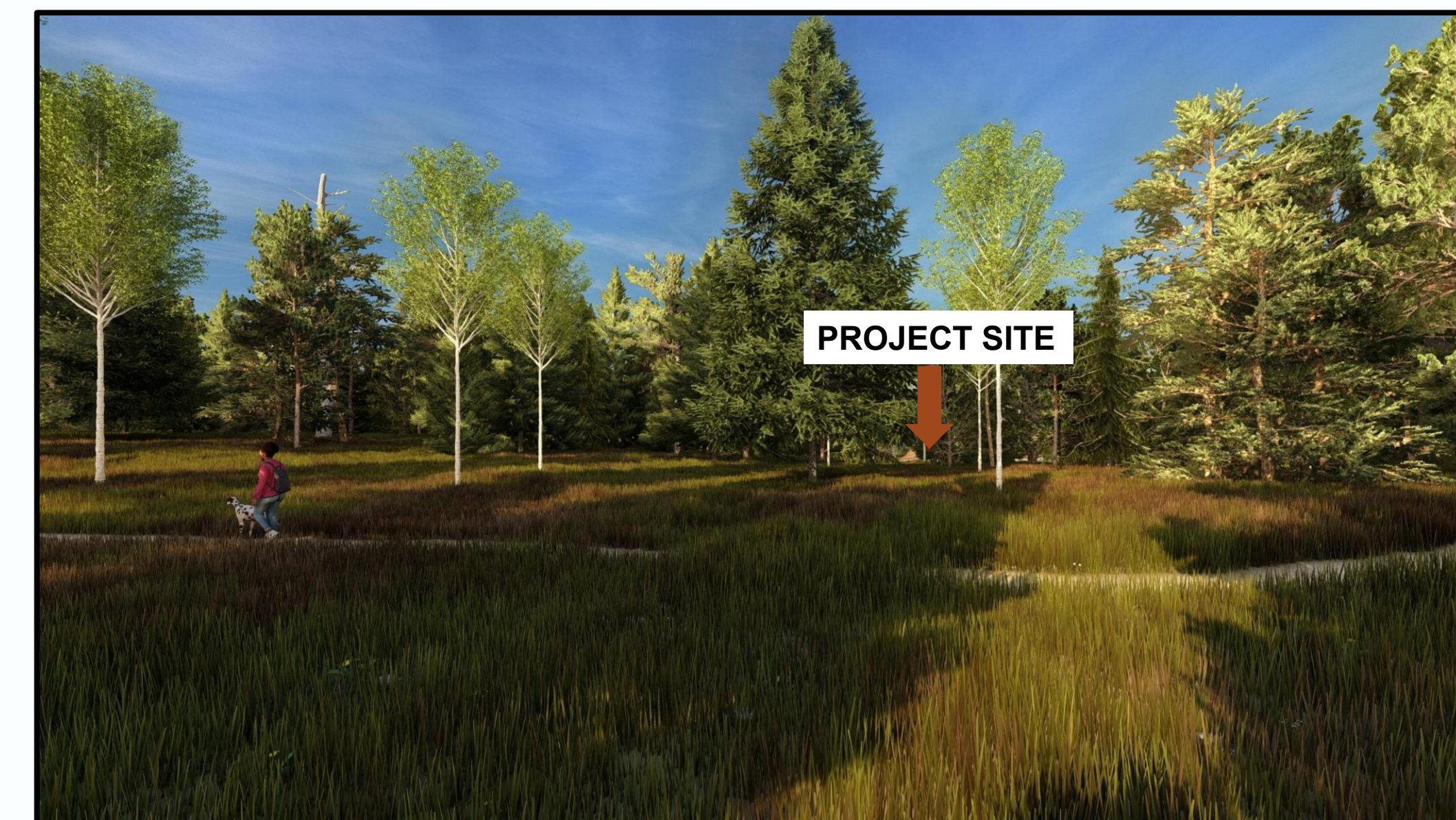
OFF-SITE VIEWS



View from Pingree Park Rd.



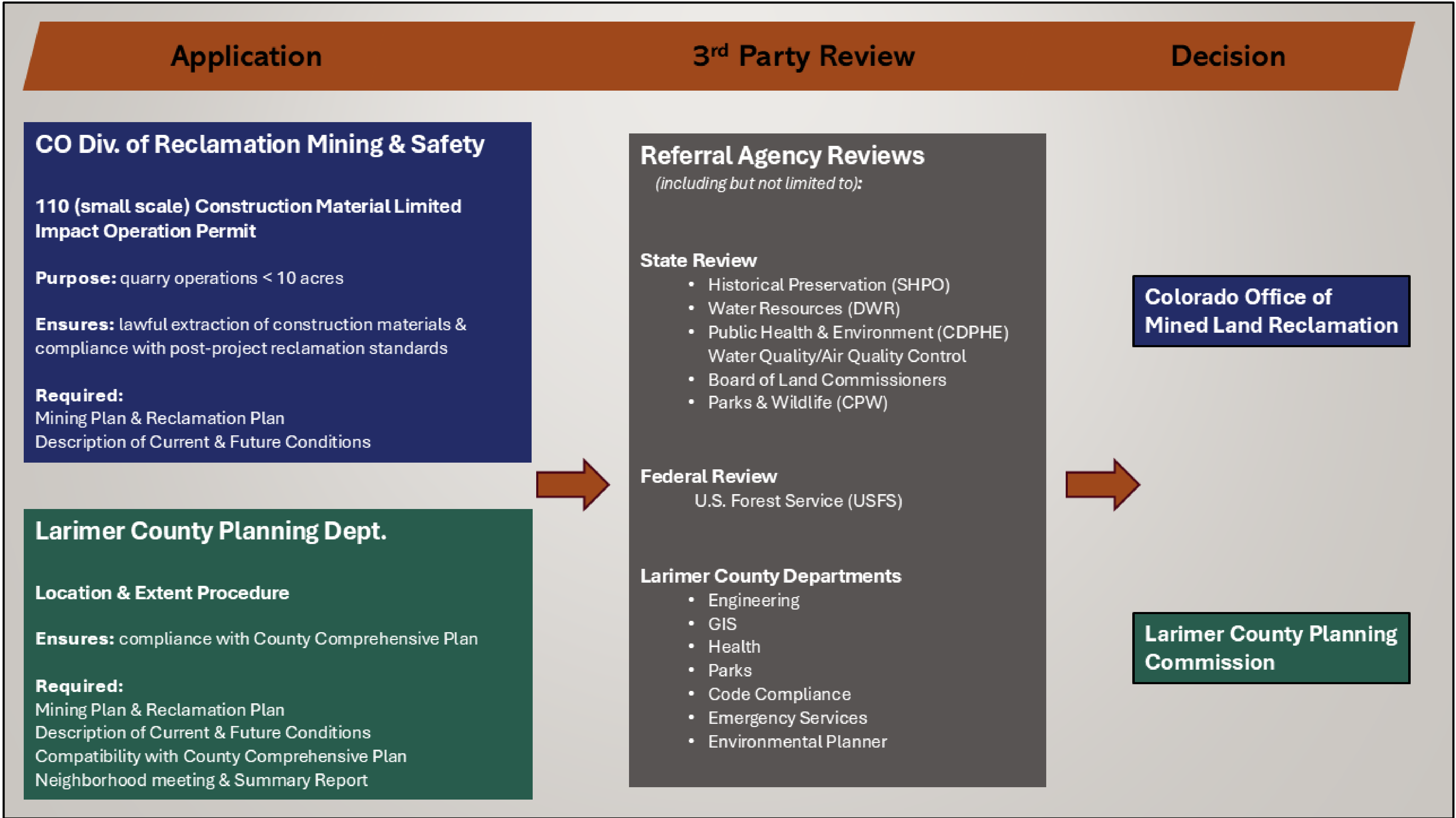
View from CSU Mountain Campus Road



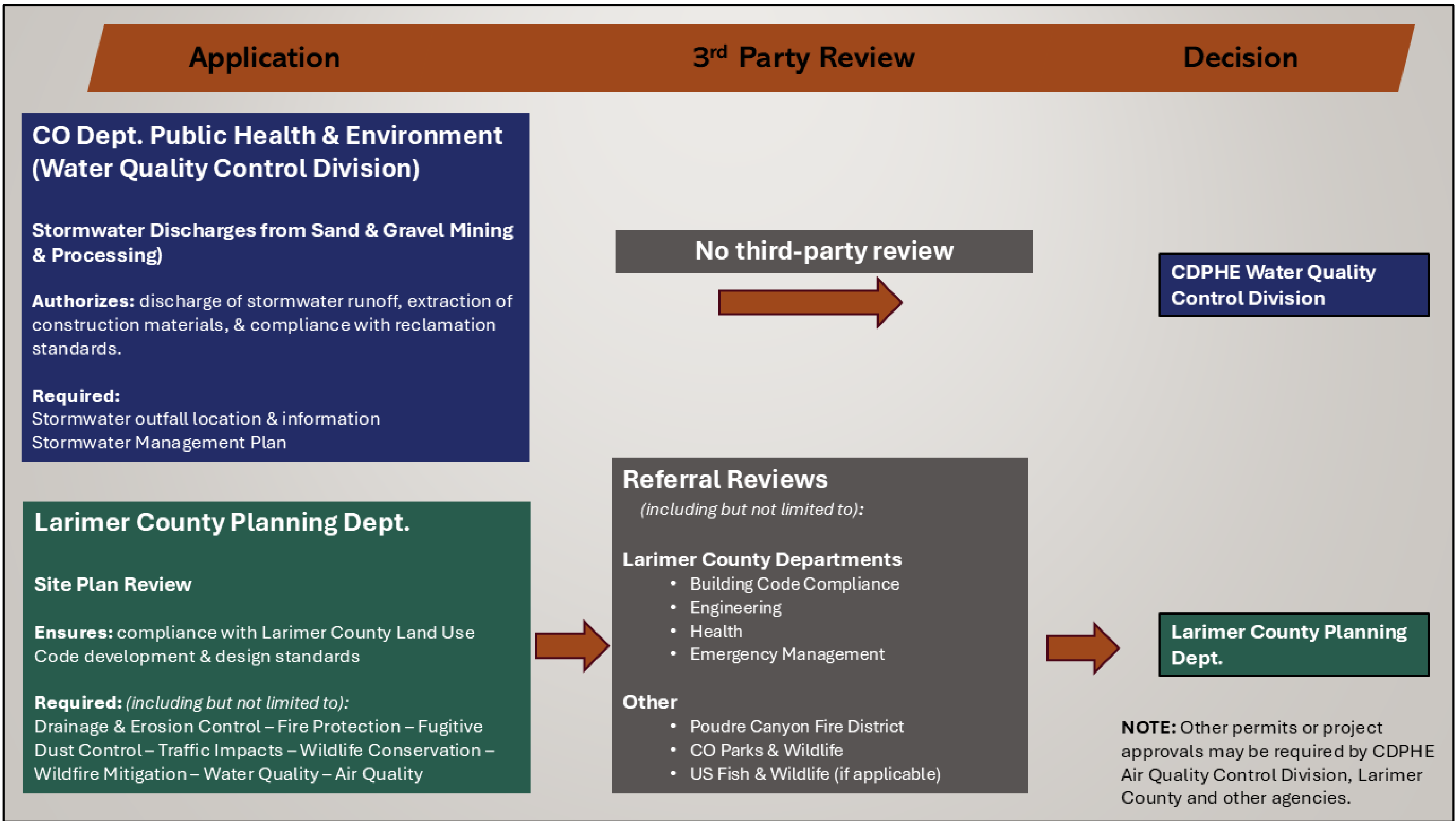
View from Stormy Peaks Trail closest to site

PERMITTING & APPROVAL PROCESS

PHASE 1 – STATE OF COLORADO (CDRMS) AND LARIMER COUNTY



PHASE 2 – STATE OF COLORADO (CDPHE) AND LARIMER COUNTY



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Learn more:

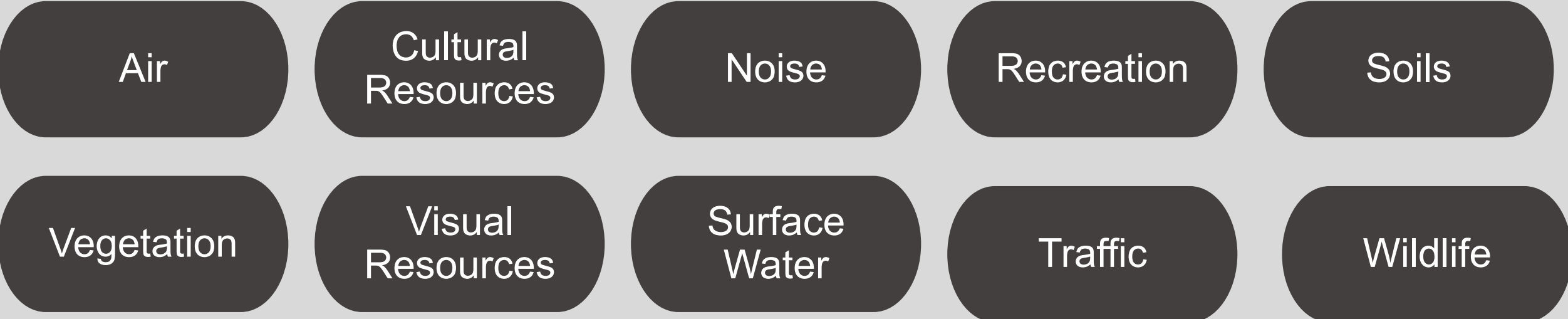
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ENVIRONMENTAL ANALYSIS & RESOURCE PROTECTION

Scope of Analysis

Independent experts conducted environmental studies of existing conditions and potential impacts:



Project Inputs

- Approx. 10 ac ground disturbance
- Heavy equipment & operational noise
- Decreased ground surface permeability
- Visual impacts on landscape
- Wildlife & habitat disruption

Protection Measures

- **Spatial avoidance:** 3,000-ft river flow path setback. Approx. 200-ft horizontal setback from road & trail. Vertical offset from trail.
- **Operational timing:** winter closures, weekday daytime hours only.
- **Engineering controls:** 40-ft stockpile height cap, dust & stormwater controls.
- **Wildlife stewardship:** CPW coordination, nesting bird surveys, wildlife-friendly fencing.
- **Reclamation:** Regrading highwalls, native seeding & revegetation.

Residual Impacts

- **Sound:** Perceptible but minor during daytime working hours.
- **River:** No appreciable change in discharge to South Fork Poudre River.
- **Visual:** Activity remains mostly obscured from key public observation points.
- **Recreation:** No direct impacts to Stormy Peaks Trail, campgrounds, CSU Mtn. Campus.

Mostly temporary & minor impacts

Wild & Scenic Corridor Alignment

- ✓ **Scenic Quality:** Site is obscured from key observation points and road.
- ✓ **Water Quality:** 3,000-ft flow-path setback from river. Dry aggregate processing.
- ✓ **Operations & Recreation:** Weekdays-only schedule protects weekend recreation.
- ✓ **Wildlife Protection:** Winter shutdown protects migrating wildlife. No early morning/evening operations when wildlife active.
- ✓ **Reclamation:** 3.9 acres restored as wildlife habitat.



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SITE CONDITIONS: CURRENT & RECLAIMED



Map of photograph locations



Photo location 1: View of existing quarry from existing access road. Photo Location 1: Rendered view of reclaimed quarry from similar location.



Photo Location 2: Panorama of existing quarry from southwest wall. Looking northeast.



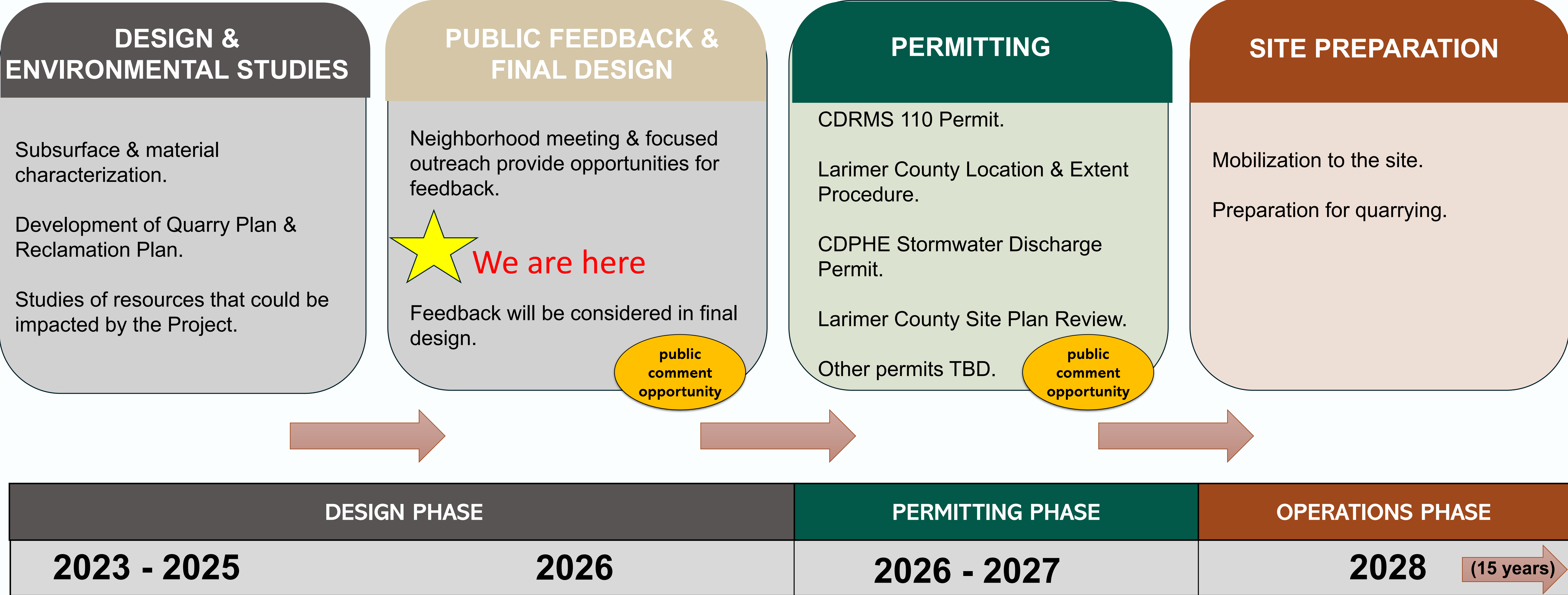
Photo Location 2: Rendered view of reclaimed quarry from similar location.

What Changes:

- Quarry highwalls will be graded and shaped.
- Reshaped slopes will be seeded with native grasses and forbs.
- The flat quarry floor will be reclaimed as a stable surface for CSU's future use for Mountain Campus Activities.

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PROJECT TIMELINE & OPPORTUNITIES FOR INVOLVEMENT



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